

APPENDIX C
LABORATORY ANALYTICAL DATA

**Sample Number Cross-Reference List
Removal Action at Iron Mountain Road Ranges
Fort McClellan, Alabama**

(Page 1 of 2)

| Purpose | Sample Information | | | EMAX SDG |
|-------------------------------------|----------------------|-----------|--------|-------------|
| | Location | Date | Number | |
| XRF Survey Confirmation | 70Q-(N50,W25) | 15-Oct-04 | SN0001 | 04J207 |
| | 70Q-(S100,W75) | 14-Oct-04 | SN0002 | 04J207 |
| | 70Q-(S125,W50) | 14-Oct-04 | SN0003 | 04J207 |
| | 70Q-(N50,W100) | 15-Oct-04 | SN0004 | 04J207 |
| | 70Q-(S100, W25) | 13-Oct-04 | SN0005 | 04J207 |
| | 70Q-(N75,W50) | 15-Oct-04 | SN0006 | 04J207 |
| | 71Q-(N50, 0) | 21-Oct-04 | SN0007 | 04J207 |
| | 69Q-(S100, 0) | 20-Oct-04 | SN0008 | 04J207 |
| | 70Q-(S200, W50) | 18-Oct-04 | SN0009 | 04J207 |
| | 69Q-(N50, 0) | 20-Oct-04 | SN0010 | 04J207 |
| | 70Q-(S125, W150) | 18-Oct-04 | SN0011 | 04J207 |
| | 71Q-(0, W50) | 20-Oct-04 | SN0012 | 04J207 |
| | 70Q-(S175, W100) | 18-Oct-04 | SN0013 | 04J207 |
| | 69Q-(N50, W25) | 20-Oct-04 | SN0014 | 04J207 |
| | 70Q-(0, W150) | 20-Oct-04 | SN0015 | 04J207 |
| Post- Excavation Confirmation | CS:(Grid#1)+1' | 2-Nov-04 | SN0016 | 04K100 |
| | CS:(Grid#2)+1' | 8-Nov-04 | SN0017 | 04K100 |
| | CS:(Grid#3)+1' | 8-Nov-04 | SN0018 | 04K100 |
| | CS:(Grid#4)+1' | 8-Nov-04 | SN0019 | 04K100 |
| | CS:(Grid#5)+1' | 8-Nov-04 | SN0020 | 04K100 |
| | CS:(N125,0)+1' | 2-Nov-04 | SN0021 | 04K100 |
| | CS:(N125,0)+1' (FD) | 2-Nov-04 | SN0022 | 04K100 |
| | CS:(S125,W100)+1' | 8-Nov-04 | SN0023 | 04K100 |
| | CS:(Grid#20)+1' | 15-Nov-04 | SN0024 | 04K214 |
| | CS:(Grid#21)+1' | 15-Nov-04 | SN0025 | 04K214 |
| | CS:(0,W25)+1' | 15-Nov-04 | SN0026 | 04K214 |
| | CS:(Grid#19)+1' | 15-Nov-04 | SN0027 | 04K214 |
| | CS:(S25,0)+1' | 15-Nov-04 | SN0028 | 04K214 |
| | CS:(S25,W25)+1' | 15-Nov-04 | SN0029 | 04K214 |
| | CS:(Grid#18)+1' | 15-Nov-04 | SN0030 | 04K214 |
| | CS:(Grid#9)+1' | 15-Nov-04 | SN0031 | 04K214 |
| | CS:(S100,W100)+1' | 15-Nov-04 | SN0032 | 04K214 |
| | CS:(Grid#8)+1' | 15-Nov-04 | SN0033 | 04K214 |
| | CS:(Grid#13)+1' | 15-Nov-04 | SN0034 | 04K214 |
| | CS:(S75,W50)+1' | 16-Nov-04 | SN0035 | 04K214 |
| | CS:(S75,W75)+1' | 16-Nov-04 | SN0036 | 04K214 |
| | CS:(S75,W75)+1' (FD) | 16-Nov-04 | SN0037 | 04K214 |
| | CS:(Grid#12)+1' | 16-Nov-04 | SN0038 | 04K214 |
| | CS:(S125,W75)+1' | 16-Nov-04 | SN0039 | 04K214 |
| | CS:(Grid#7)+1' | 16-Nov-04 | SN0040 | 04K214 |
| | CS:(Grid#11)+1' | 16-Nov-04 | SN0041 | 04K214 |
| | CS:(S25,W50)+1' | 16-Nov-04 | SN0042 | 04K214 |
| | CS:(S25,W50)+1' (FD) | 16-Nov-04 | SN0043 | 04K214 |
| | CS:(Grid#16)+1' (MS) | 16-Nov-04 | SN0044 | 04K214 |
| | CS:(Grid#17)+1' | 16-Nov-04 | SN0045 | 04K214 |
| | CS:(S125,W25)+1' | 18-Nov-04 | SN0046 | 04K214 |
| | CS:(Grid#10)+1' | 18-Nov-04 | SN0047 | 04K214 |

**Sample Number Cross-Reference List
Removal Action at Iron Mountain Road Ranges
Fort McClellan, Alabama**

(Page 2 of 2)

| Purpose | Sample Information | | | EMAX SDG |
|--|-----------------------------|-----------------|---------------|---------------|
| | Location | Date | Number | |
| Post- Excavation Confirmation (Cont.) | CS:(Grid#6)+1' | 18-Nov-04 | SN0048 | 04K214 |
| | CS:(Grid#14)+1' | 18-Nov-04 | SN0049 | 04K214 |
| | CS:(Grid#15)+1' | 18-Nov-04 | SN0050 | 04K214 |
| | CS:(Grid#7)+2' | 15-Dec-04 | SN0051 | 05A020 |
| | CS: (0,0)+2' | 4-Jan-05 | SN0052 | 05A020 |
| | CS: (S25,0)+2' | 4-Jan-05 | SN0053 | 05A020 |
| | CS: (0,W25)+2' | 4-Jan-05 | SN0054 | 05A020 |
| | CS: (0,W25)+2' (FD) | 4-Jan-05 | SN0055 | 05A020 |
| | CS: (S25,W25)+2' | 4-Jan-05 | SN0056 | 05A020 |
| | CS: (S50,W25)+2' | 4-Jan-05 | SN0057 | 05A020 |
| | CS: (0,W50)+2' | 4-Jan-05 | SN0058 | 05A020 |
| | CS:(Grid#23)+2' | 4-Jan-05 | SN0059 | 05A020 |
| | CS:(Grid#23)+2' (MS) | 4-Jan-05 | SN0059-MS | 05A020 |
| | CS:(Grid#17)+2' | 4-Jan-05 | SN0060 | 05A020 |
| | CS:(Grid#18)+2' | 4-Jan-05 | SN0061 | 05A020 |
| | CS:(Grid#1)+2' | 4-Jan-05 | SN0062 | 05A020 |
| | CS:(S75,W75)+2' | 5-Jan-05 | SN0063 | 05A020 |
| | CS:(S75,W50)+2' | 5-Jan-05 | SN0064 | 05A020 |
| | CS:(S75,W50)+2' (FD) | 5-Jan-05 | SN0065 | 05A020 |
| | CS:(S75,W50)+2' (RS) | 1-Feb-06 | SN0077 | 06B008 |
| | CS:(S100,W50)+2' | 5-Jan-05 | SN0066 | 05A020 |
| | CS:(Grid#8)+2' | 5-Jan-05 | SN0067 | 05A020 |
| | CS:(Grid#12)+2' | 5-Jan-05 | SN0068 | 05A020 |
| | CS:(Grid#22)+2' | 5-Jan-05 | SN0069 | 05A020 |
| | CS:(Grid#18)+3' | 24-Feb-05 | SN0070 | 05C009 |
| | CS: (S25,0)+3' | 23-Feb-05 | SN0071 | 05C009 |
| | CS: (S25,0)+3' (FD) | 23-Feb-05 | SN0072 | 05C009 |
| | CS:(Grid#24)+3' | 23-Feb-05 | SN0073 | 05C009 |
| | CS:(Grid#25)+3' | 23-Feb-05 | SN0074 | 05C009 |
| | CS:(Grid#20)+3' | 23-Feb-05 | SN0075 | 05C009 |
| CS:(Berm Composite Soil) | 1-Feb-06 | SN0076 | 06B008 | |
| Treated Soil Characterization Samples | TS:(Batch#1) | 4-Nov-04 | SN1000 | 04K048 |
| | TS:(Batch#2) | 5-Nov-04 | SN1001 | 04K057 |
| | TS:(Batch#3) | 10-Nov-04 | SN1002 | 04K101 |
| | TS:(Batch#4) | 10-Nov-04 | SN1003 | 04K101 |
| | TS:(Batch#5) | 15-Nov-04 | SN1004 | 04K146 |
| | TS:(Batch#6) | 16-Nov-04 | SN1005 | 04K160 |
| | TS:(Batch#7) | 22-Nov-04 | SN1006 | 04K214 |
| | TS:(Batch#6)-RS | 7-Dec-04 | SN1007 | 04L057 |
| | TS:(Batch#8) | 13-Dec-04 | SN1008 | 04L101 |
| | TS:(Batch#9) | 24-Feb-05 | SN1009 | 05C009 |
| | TS:(Batch#10) | 1-Feb-06 | SN1010 | 06B008 |

Bold - samples collected during supplemental soil removal and erosion control activities.



LABORATORIES, INC.

1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 11-08-2004
Client SDG.: SN-001
EMAX Batch No.: 04J207

Attn: Randy McBride

Shaw E&I
312 Directors Dr.
Knoxville TN 37923-4799

Subject: Laboratory Report
Project: Fort McClellan

Enclosed is the Laboratory report for samples received on 10/28/04. The data reported include :

| Sample ID | Control # | Col Date | Matrix | Analysis |
|-----------|-----------|----------|--------|----------|
| SN0001 | J207-01 | 10/15/04 | SOIL | LEAD |
| SN0002 | J207-02 | 10/14/04 | SOIL | LEAD |
| SN0003 | J207-03 | 10/14/04 | SOIL | LEAD |
| SN0004 | J207-04 | 10/15/04 | SOIL | LEAD |
| SN0005 | J207-05 | 10/13/04 | SOIL | LEAD |
| SN0006 | J207-06 | 10/15/04 | SOIL | LEAD |
| SN0007 | J207-07 | 10/21/04 | SOIL | LEAD |
| SN0008 | J207-08 | 10/20/04 | SOIL | LEAD |
| SN0009 | J207-09 | 10/18/04 | SOIL | LEAD |
| SN0010 | J207-10 | 10/20/04 | SOIL | LEAD |
| SN0011 | J207-11 | 10/18/04 | SOIL | LEAD |
| SN0012 | J207-12 | 10/20/04 | SOIL | LEAD |
| SN0013 | J207-13 | 10/18/04 | SOIL | LEAD |
| SN0014 | J207-14 | 10/20/04 | SOIL | LEAD |
| SN0015 | J207-15 | 10/20/04 | SOIL | LEAD |

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Kam Y. Pang, Ph.D.
Laboratory Director

REPORTING CONVENTIONS

DATA QUALIFIERS:

| Lab Qualifier | AFCEE Qualifier | Description |
|---------------|-----------------|--|
| J | F | Indicates that the analyte is positively identified and the result is less than RL but greater than MDL. |
| N | | Indicates presumptive evidence of a compound. |
| B | B | Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level. |
| E | J | Indicates that the result is above the maximum calibration range. |
| * | * | Out of QC limit. |

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

| | |
|------|-----------------------------------|
| CRDL | Contract Required Detection Limit |
| RL | Reporting Limit |
| MRL | Method Reporting Limit |
| PQL | Practical Quantitation Limit |
| MDL | Method Detection Limit |
| DO | Diluted out |

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

CASE NARRATIVE

CLIENT: SHAW E&I
CLIENT SDG: SN-001
PROJECT: FORT MCCLELLAN
EMAX SDG: 04J207

METHOD 3050B/6010B LEAD BY TRACE ICP

Fifteen (15) soil samples were received on 10/28/04 for Lead analysis by Method 3050B/6010B in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW846, 3rd edition.

1. Holding Time

Analysis met holding time criteria.

2. Method Blank

Method blank was free of contamination at the reporting limit.

3. Lab Control Sample/Lab Control Sample Duplicate

Lab control results were within QC limit.

4. Serial Dilution / Post-Analytical Spike

Sample J207-15 was analyzed for serial dilution and post-analytical spike. All QC requirements were met.

5. Matrix Spike/Matrix Spike Duplicate

Sample J207-15 was spiked. Recoveries were within QC limit.

6. Sample Analysis

Samples were analyzed according to the prescribed QC procedures. All criteria were met.

RESULT SUMMARIES

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client : SHAW E&I
Project : FORT MCCLELLAN
Batch No. : 04J207

Matrix : SOIL
Instrument ID : T-131

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | | MOIST | | RL | MDL | Analysis | Extraction | LFID | CAL REF | PREP BATCH | Collection | Received |
|-----------|-------------------|--------------------|-----|------|---------|---------|---------------|---------------|------------|------------|---------|----------|------------|------------|----------|
| | | | | | (mg/kg) | (mg/kg) | (mg/kg) | DATETIME | DATETIME | DATETIME | | | | DATETIME | |
| MBLK1S | IPJ065SB | ND | 1 | NA | 1 | .2 | 11/03/0413:22 | 10/29/0408:10 | 131K004010 | 131K004008 | IPJ065S | NA | 10/29/04 | | |
| LCS1S | IPJ065SL | 91.8 | 1 | NA | 1 | .2 | 11/03/0413:27 | 10/29/0408:10 | 131K004011 | 131K004008 | IPJ065S | NA | 10/29/04 | | |
| LCD1S | IPJ065SC | 92.3 | 1 | NA | 1 | .2 | 11/03/0413:32 | 10/29/0408:10 | 131K004012 | 131K004008 | IPJ065S | NA | 10/29/04 | | |
| SN0001 | J207-01 | 2780 | 1 | 11.2 | 1.13 | .225 | 11/03/0413:39 | 10/29/0408:10 | 131K004013 | 131K004008 | IPJ065S | 10/15/04 | 10/28/04 | | |
| SN0002 | J207-02 | 3700 | 1 | 13.2 | 1.15 | .23 | 11/03/0413:44 | 10/29/0408:10 | 131K004014 | 131K004008 | IPJ065S | 10/14/04 | 10/28/04 | | |
| SN0003 | J207-03 | 766 | 1 | 11.1 | 1.12 | .225 | 11/03/0413:49 | 10/29/0408:10 | 131K004015 | 131K004008 | IPJ065S | 10/14/04 | 10/28/04 | | |
| SN0004 | J207-04 | 521 | 1 | 10.1 | 1.11 | .222 | 11/03/0413:54 | 10/29/0408:10 | 131K004016 | 131K004008 | IPJ065S | 10/15/04 | 10/28/04 | | |
| SN0005 | J207-05 | 127 | 1 | 9.8 | 1.11 | .222 | 11/03/0414:00 | 10/29/0408:10 | 131K004017 | 131K004008 | IPJ065S | 10/13/04 | 10/28/04 | | |
| SN0006 | J207-06 | 355 | 1 | 10.9 | 1.12 | .224 | 11/03/0414:05 | 10/29/0408:10 | 131K004018 | 131K004008 | IPJ065S | 10/15/04 | 10/28/04 | | |
| SN0007 | J207-07 | 356 | 1 | 24.0 | 1.32 | .263 | 11/03/0414:10 | 10/29/0408:10 | 131K004019 | 131K004008 | IPJ065S | 10/21/04 | 10/28/04 | | |
| SN0008 | J207-08 | 89.8 | 1 | 21.9 | 1.28 | .256 | 11/03/0414:25 | 10/29/0408:10 | 131K004022 | 131K004020 | IPJ065S | 10/20/04 | 10/28/04 | | |
| SN0009 | J207-09 | 36.4 | 1 | 8.8 | 1.1 | .219 | 11/03/0414:30 | 10/29/0408:10 | 131K004023 | 131K004020 | IPJ065S | 10/18/04 | 10/28/04 | | |
| SN0010 | J207-10 | 84.6 | 1 | 19.7 | 1.25 | .249 | 11/03/0414:35 | 10/29/0408:10 | 131K004024 | 131K004020 | IPJ065S | 10/20/04 | 10/28/04 | | |
| SN0011 | J207-11 | 104 | 1 | 11.4 | 1.13 | .226 | 11/03/0414:40 | 10/29/0408:10 | 131K004025 | 131K004020 | IPJ065S | 10/18/04 | 10/28/04 | | |
| SN0012 | J207-12 | 39.3 | 1 | 14.4 | 1.17 | .234 | 11/03/0414:45 | 10/29/0408:10 | 131K004026 | 131K004020 | IPJ065S | 10/20/04 | 10/28/04 | | |
| SN0013 | J207-13 | 20.6 | 1 | 14.1 | 1.16 | .233 | 11/03/0414:51 | 10/29/0408:10 | 131K004027 | 131K004020 | IPJ065S | 10/18/04 | 10/28/04 | | |
| SN0014 | J207-14 | 31.8 | 1 | 16.2 | 1.19 | .239 | 11/03/0414:56 | 10/29/0408:10 | 131K004028 | 131K004020 | IPJ065S | 10/20/04 | 10/28/04 | | |
| SN0015AS | J207-15A | 146 | 1 | 19.4 | 1.24 | .248 | 11/03/0415:01 | 10/29/0408:10 | 131K004029 | 131K004020 | IPJ065S | 10/20/04 | 10/28/04 | | |
| SN0015MS | J207-15M | 142 | 1 | 19.4 | 1.24 | .248 | 11/03/0415:06 | 10/29/0408:10 | 131K004030 | 131K004020 | IPJ065S | 10/20/04 | 10/28/04 | | |
| SN0015MSD | J207-15S | 142 | 1 | 19.4 | 1.24 | .248 | 11/03/0415:11 | 10/29/0408:10 | 131K004031 | 131K004020 | IPJ065S | 10/20/04 | 10/28/04 | | |
| SN0015JL | J207-15T | 31.2 | 5 | 19.4 | 6.2 | 1.24 | 11/03/0415:26 | 10/29/0408:10 | 131K004034 | 131K004032 | IPJ065S | 10/20/04 | 10/28/04 | | |
| SN0015 | J207-15 | 29.4 | 1 | 19.4 | 1.24 | .248 | 11/03/0415:31 | 10/29/0408:10 | 131K004035 | 131K004032 | IPJ065S | 10/20/04 | 10/28/04 | | |

RL: Reporting Limit

1008



LABORATORIES, INC.

1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 11-09-2004
Client Batch No.: IMR-001
EMAX Batch No.: 04K048

Attn: Randy McBride

Shaw E&I
312 Directors Dr.
Knoxville TN 37923-4799

Subject: Laboratory Report
Project: Fort McClellan

Enclosed is the Laboratory report for samples received on 11/05/04. The data reported include :

| Sample ID | Control # | Col Date | Matrix | Analysis |
|-----------|-----------|----------|--------|-----------------------------|
| SN1000 | K048-01 | 11/04/04 | SOIL | METALS TCLP MERCURY TCLP |

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Kam Y. Pang, Ph.D.
Laboratory Director

REPORTING CONVENTIONS

DATA QUALIFIERS:

| Lab Qualifier | AFCEE Qualifier | Description |
|---------------|-----------------|--|
| J | F | Indicates that the analyte is positively identified and the result is less than RL but greater than MDL. |
| N | | Indicates presumptive evidence of a compound. |
| B | B | Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level. |
| E | J | Indicates that the result is above the maximum calibration range. |
| * | * | Out of QC limit. |

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

| | |
|------|-----------------------------------|
| CRDL | Contract Required Detection Limit |
| RL | Reporting Limit |
| MRL | Method Reporting Limit |
| PQL | Practical Quantitation Limit |
| MDL | Method Detection Limit |
| DO | Diluted out |

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

CASE NARRATIVE

CLIENT: SHAW E&I
PROJECT: FORT MCCLELLAN
CLIENT SDG: IMR-001
EMAX SDG: 04K048

METHOD 1311/3010A/6010B TCLP METALS BY ICP

One (1) soil sample was received on 11/05/04 for TCLP Metals analysis by Method 1311/3010A/6010B in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW846, 3rd edition.

1. Holding Time
Analysis met holding time criteria.
2. Method Blank
Method blanks were free of contamination at the reporting limit.
3. Lab Control Sample/Lab Control Sample Duplicate
Lab control results were within QC limit.
4. Serial Dilution / Post-Analytical Spike
Sample K048-01 was analyzed for serial dilution and post-analytical spike. All QC requirements were met.
5. Matrix Spike/Matrix Spike Duplicate
Sample K048-01 was spiked. All recoveries were within QC limit.
6. Sample Analysis
Sample was analyzed according to the prescribed QC procedures. All criteria were met.

CASE NARRATIVE

CLIENT: SHAW E&I
PROJECT: FORT MCCLELLAN
CLIENT SDG: IMR-001
EMAX SDG: 04K048

METHOD 1311/7470A TCLP MERCURY

One (1) soil sample was received on 11/05/04 for TCLP Mercury analysis by Method 1311/7470A in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW846, 3rd edition.

1. Holding Time
Analysis met holding time criteria.
2. Method Blank
Method blanks were free of contamination at the reporting limit.
3. Lab Control Sample/Lab Control Sample Duplicate
Lab control results were within QC limit.
4. Serial Dilution / Post-Analytical Spike
Sample K048-01 was analyzed for serial dilution and post-analytical spike. All QC requirements were met.
5. Matrix Spike/Matrix Spike Duplicate
Sample K048-01 was spiked. All recoveries were within QC limit.
6. Sample Analysis
Sample was analyzed according to the prescribed QC procedures. All criteria were met.

RESULT SUMMARIES

METHOD 1311/3010A/6010B
 TCLP METALS BY ICP

```

=====
Client      : SHAW E&I                Date Collected: 11/04/04
Project     : FORT MCCLELLAN          Date Received: 11/05/04
SDG NO.    : 04K048                  Date Extracted: 11/08/04 09:00
Sample ID   : SN1000                  Date Analyzed: 11/08/04 16:08
Lab Samp ID: K048-01                  Dilution Factor: 5
Lab File ID: I73K017017               Matrix          : WATER
Ext Btch ID: IPK013W                   % Moisture     : NA
Calib. Ref.: I73K017009               Instrument ID   : EMAXT173
=====
  
```

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|------------|-------------------|--------------|---------------|
| Arsenic | ND | .05 | .0145 |
| Barium | .782 | .05 | .005 |
| Cadmium | .00816J | .05 | .008 |
| Chromium | .137 | .1 | .022 |
| Lead | ND | .05 | .011 |
| Selenium | .0282J | .05 | .0255 |
| Silver | ND | .1 | .042 |

TCLP EXTRACTION DATE: 11/05/04 13:00

METHOD 1311/7470A
TCLP MERCURY

Client : SHAW E&I
Project : FORT MCCLELLAN
Batch No. : 04K048

Matrix : WATER
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/L) | DLF | MOIST | RL (ug/L) | MDL (ug/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|-----------|-------------------|-------------------|-----|-------|--------------|---------------|----------------------|------------------------|------------|------------|------------|------------------------|----------------------|
| MBLK1W | HGK006WB | ND | 1 | NA | .5 | .15 | 11/08/0415:26 | 11/08/0411:30 | M47K006010 | M47K006008 | HGK006W | NA | 11/08/04 |
| LCS1W | HGK006WL | 5 | 1 | NA | .5 | .15 | 11/08/0415:28 | 11/08/0411:30 | M47K006011 | M47K006008 | HGK006W | NA | 11/08/04 |
| LCD1W | HGK006WC | 4.86 | 1 | NA | .5 | .15 | 11/08/0415:30 | 11/08/0411:30 | M47K006012 | M47K006008 | HGK006W | NA | 11/08/04 |
| MBLK1S | TXK001SB | ND | 10 | NA | 5 | 1.5 | 11/08/0415:33 | 11/08/0411:30 | M47K006013 | M47K006008 | HGK006W | NA | 11/08/04 |
| SN1000AS | K048-01A | 18.6 | 10 | NA | 5 | 1.5 | 11/08/0415:35 | 11/08/0411:30 | M47K006014 | M47K006008 | HGK006W | 11/04/04 | 11/05/04 |
| SN1000 | K048-01 | ND | 10 | NA | 5 | 1.5 | 11/08/0415:37 | 11/08/0411:30 | M47K006015 | M47K006008 | HGK006W | 11/04/04 | 11/05/04 |
| SN1000DL | K048-01T | ND | 50 | NA | 25 | 7.5 | 11/08/0415:39 | 11/08/0411:30 | M47K006016 | M47K006008 | HGK006W | 11/04/04 | 11/05/04 |
| SN1000MS | K048-01M | 49.8 | 10 | NA | 5 | 1.5 | 11/08/0415:42 | 11/08/0411:30 | M47K006017 | M47K006008 | HGK006W | 11/04/04 | 11/05/04 |
| SN1000MSD | K048-01S | 48.7 | 10 | NA | 5 | 1.5 | 11/08/0415:44 | 11/08/0411:30 | M47K006018 | M47K006008 | HGK006W | 11/04/04 | 11/05/04 |

RL: Reporting Limit
TCLP Extraction Date: 11/05/04 11:30

1009



LABORATORIES, INC.

1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 11-09-2004
Client SDG.: IMR-002
EMAX Batch No.: 04K057

Attn: Randy McBride

Shaw E&I
312 Directors Dr.
Knoxville TN 37923-4799

Subject: Laboratory Report
Project: Fort McClellan

Enclosed is the Laboratory report for samples received on 11/06/04. The data reported include :

| Sample ID | Control # | Col Date | Matrix | Analysis |
|-----------|-----------|----------|--------|-----------------------------|
| SN1001 | K057-01 | 11/05/04 | SOIL | METALS TCLP MERCURY TCLP |

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Kam Y. Pang, Ph.D.
Laboratory Director

REPORTING CONVENTIONS

DATA QUALIFIERS:

| Lab Qualifier | AFCEE Qualifier | Description |
|---------------|-----------------|--|
| J | F | Indicates that the analyte is positively identified and the result is less than RL but greater than MDL. |
| N | | Indicates presumptive evidence of a compound. |
| B | B | Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level. |
| E | J | Indicates that the result is above the maximum calibration range. |
| * | * | Out of QC limit. |

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

| | |
|------|-----------------------------------|
| CRDL | Contract Required Detection Limit |
| RL | Reporting Limit |
| MRL | Method Reporting Limit |
| PQL | Practical Quantitation Limit |
| MDL | Method Detection Limit |
| DO | Diluted out |

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

CASE NARRATIVE

CLIENT: SHAW E&I
CLIENT SDG: IMR-002
PROJECT: FORT MCCLELLAN
EMAX SDG: 04K057

METHOD 1311/3010A/6010B TCLP METALS BY ICP

One (1) soil sample was received on 11/06/04 for TCLP Metals analysis by Method 1311/3010A/6010B in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW846, 3rd edition.

1. Holding Time
Analysis met holding time criteria.
2. Method Blank
Method blanks were free of contamination at the reporting limit.
3. Lab Control Sample/Lab Control Sample Duplicate
Lab control results were within QC limit.
4. Serial Dilution / Post-Analytical Spike
Sample K057-01 was analyzed for serial dilution and post-analytical spike. All QC requirements were met.
5. Matrix Spike/Matrix Spike Duplicate
Sample K057-01 was spiked. All recoveries were within QC limit.
6. Sample Analysis
Sample was analyzed according to the prescribed QC procedures. All criteria were met.

CASE NARRATIVE

CLIENT: SHAW E&I
CLIENT SDG: IMR-002
PROJECT: FORT MCCLELLAN
EMAX SDG: 04K057

METHOD 1311/7470A TCLP MERCURY

One (1) soil sample was received on 11/06/04 for TCLP Mercury analysis by Method 1311/7470A in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW846, 3rd edition.

1. Holding Time
Analysis met holding time criteria.
2. Method Blank
Method blanks were free of contamination at the reporting limit.
3. Lab Control Sample/Lab Control Sample Duplicate
Lab control results were within QC limit.
4. Serial Dilution / Post-Analytical Spike
Sample from another SDG K048-01 was analyzed for serial dilution and post-analytical spike. All QC requirements were met.
5. Matrix Spike/Matrix Spike Duplicate
Sample K057-01 was spiked. All recoveries were within QC limit.
6. Sample Analysis
Sample was analyzed according to the prescribed QC procedures. All criteria were met.

RESULT SUMMARIES

METHOD 1311/3010A/6010B
TCLP METALS BY ICP

```
=====
Client      : SHAW E&I                      Date Collected: 11/05/04
Project     : FORT MCCLELLAN                Date Received: 11/06/04
SDG NO.    : 04K057                        Date Extracted: 11/08/04 09:00
Sample ID: SN1001                          Date Analyzed: 11/09/04 11:39
Lab Samp ID: K057-01                       Dilution Factor: 5
Lab File ID: I73K021017                    Matrix          : WATER
Ext Btch ID: IPK013W                       % Moisture     : NA
Calib. Ref.: I73K021009                    Instrument ID  : EMAXI173
=====
```

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|------------|-------------------|--------------|---------------|
| Arsenic | ND | .05 | .0145 |
| Barium | .541 | .05 | .005 |
| Cadmium | .00968J | .05 | .008 |
| Chromium | .205 | .1 | .022 |
| Lead | ND | .05 | .011 |
| Selenium | ND | .05 | .0255 |
| Silver | ND | .1 | .042 |

TCLP EXTRACTION DATE: 11/06/04 13:30

METHOD 1311/7470A
TCLP MERCURY

Client : SHAW E&I
Project : FORT MCCLELLAN
Batch No. : 04K057

Matrix : WATER
Instrument ID : T1047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/L) | DLF | MOIST | RL (ug/L) | MDL (ug/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|-----------|-------------------|-------------------|-----|-------|--------------|---------------|----------------------|------------------------|------------|------------|------------|------------------------|----------------------|
| MBLK1w | HGK006WB | ND | 1 | NA | .5 | .15 | 11/08/0415:26 | 11/08/0411:30 | M47K006010 | M47K006008 | HGK006W | NA | 11/08/04 |
| LCS1W | HGK006WL | 5 | 1 | NA | .5 | .15 | 11/08/0415:28 | 11/08/0411:30 | M47K006011 | M47K006008 | HGK006W | NA | 11/08/04 |
| LCD1W | HGK006WC | 4.86 | 1 | NA | .5 | .15 | 11/08/0415:30 | 11/08/0411:30 | M47K006012 | M47K006008 | HGK006W | NA | 11/08/04 |
| MBLK1s | TXK002SB | ND | 10 | NA | 5 | 1.5 | 11/08/0415:46 | 11/08/0411:30 | M47K006019 | M47K006008 | HGK006W | NA | 11/08/04 |
| SN1001 | K057-01 | ND | 10 | NA | 5 | 1.5 | 11/08/0415:52 | 11/08/0411:30 | M47K006022 | M47K006020 | HGK006W | 11/05/04 | 11/06/04 |
| SN1001MS | K057-01M | 44.4 | 10 | NA | 5 | 1.5 | 11/08/0415:54 | 11/08/0411:30 | M47K006023 | M47K006020 | HGK006W | 11/05/04 | 11/06/04 |
| SN1001MSD | K057-01S | 49.4 | 10 | NA | 5 | 1.5 | 11/08/0415:57 | 11/08/0411:30 | M47K006024 | M47K006020 | HGK006W | 11/05/04 | 11/06/04 |

RL: Reporting Limit
TCLP Extraction Date: 11/06/04 13:30

1009



LABORATORIES, INC.

1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 11-16-2004
Client Batch No.: IMR-003
EMAX Batch No.: 04K101

Attn: Randy McBride

Shaw E&I
312 Directors Dr.
Knoxville TN 37923-4799

Subject: Laboratory Report
Project: Fort McClellan

Enclosed is the Laboratory report for samples received on 11/11/04. The data reported include :

| Sample ID | Control # | Col Date | Matrix | Analysis |
|-----------|-----------|----------|--------|-----------------------------|
| SN1002 | K101-01 | 11/10/04 | SOIL | METALS TCLP MERCURY TCLP |
| SN0016 | K101-02 | 11/02/04 | SOIL | LEAD |
| SN0017 | K101-03 | 11/08/04 | SOIL | LEAD |
| SN0018 | K101-04 | 11/08/04 | SOIL | LEAD |
| SN0019 | K101-05 | 11/08/04 | SOIL | LEAD |
| SN0020 | K101-06 | 11/08/04 | SOIL | LEAD |
| SN0021 | K101-07 | 11/02/04 | SOIL | LEAD |
| SN0022 | K101-08 | 11/02/04 | SOIL | LEAD |
| SN0023 | K101-09 | 11/08/04 | SOIL | LEAD |
| SN1003 | K101-10 | 11/10/04 | SOIL | METALS TCLP MERCURY TCLP |

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Kam Y. Pang, Ph.D.
Laboratory Director

REPORTING CONVENTIONS

DATA QUALIFIERS:

| Lab Qualifier | AFCEE Qualifier | Description |
|---------------|-----------------|--|
| J | F | Indicates that the analyte is positively identified and the result is less than RL but greater than MDL. |
| N | | Indicates presumptive evidence of a compound. |
| B | B | Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level. |
| E | J | Indicates that the result is above the maximum calibration range. |
| * | * | Out of QC limit. |

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

| | |
|------|-----------------------------------|
| CRDL | Contract Required Detection Limit |
| RL | Reporting Limit |
| MRL | Method Reporting Limit |
| PQL | Practical Quantitation Limit |
| MDL | Method Detection Limit |
| DO | Diluted out |

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

CASE NARRATIVE

CLIENT: SHAW E&I
PROJECT: FORT MCCLELLAN
CLIENT SDG: IMR-003
EMAX SDG: 04K101

METHOD 3050B/6010B LEAD BY TRACE ICP

Eight (8) soil samples were received on 11/11/04 for Lead analysis by Method 3050B/6010B in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW846, 3rd edition.

1. Holding Time
Analysis met holding time criteria.
2. Method Blank
Method blank was free of contamination at the reporting limit.
3. Lab Control Sample/Lab Control Sample Duplicate
Lab control results were within QC limit.
4. Serial Dilution / Post-Analytical Spike
Sample K101-02 was analyzed for serial dilution and post-analytical spike. All QC requirements were met.
5. Matrix Spike/Matrix Spike Duplicate
MS/MSD sample was not designated in this SDG.
6. Sample Analysis
Samples were analyzed according to the prescribed QC procedures. All criteria were met.

CASE NARRATIVE

CLIENT: SHAW E&I
PROJECT: FORT MCCLELLAN
CLIENT SDG: IMR-003
EMAX SDG: 04K101

METHOD 1311/3010A/6010B TCLP METALS BY ICP

Two (2) soil samples were received on 11/11/04 for TCLP Metals analysis by Method 1311/3010A/6010B in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW846, 3rd edition.

1. Holding Time
Analysis met holding time criteria.
2. Method Blank
Method blanks were free of contamination at the reporting limit.
3. Lab Control Sample/Lab Control Sample Duplicate
Lab control results were within QC limit.
4. Serial Dilution / Post-Analytical Spike
Sample K101-01 was analyzed for serial dilution and post-analytical spike. All QC requirements were met.
5. Matrix Spike/Matrix Spike Duplicate
Sample K101-01 was spiked. All recoveries were within QC limit.
6. Sample Analysis
Samples were analyzed according to the prescribed QC procedures. All criteria were met.

CASE NARRATIVE

CLIENT: SHAW E&I
PROJECT: FORT MCCLELLAN
CLIENT SDG: IMR-003
EMAX SDG: 04K101

METHOD 1311/7470A TCLP MERCURY

Two (2) soil samples were received on 11/11/04 for TCLP Mercury analysis by Method 1311/7470A in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW846, 3rd edition.

1. Holding Time

Analysis met the holding time criteria.

2. Method Blank

Method blanks were free of contamination at the reporting limit.

3. Lab Control Sample/Lab Control Sample Duplicate

Lab control results were within the QC limit.

4. Serial Dilution/Post Analytical Spike

Sample K101-01 was analyzed for serial dilution and post analytical spike. All QC requirements were met.

5. Matrix Spike/Matrix Spike Duplicate

Sample K101-01 was spiked. %Recoveries were within the QC limit.

6. Sample Analysis

Samples were analyzed according to the prescribed QC procedures. All criteria were met.

RESULT SUMMARIES

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client : SHAW E&I
Project : FORT MCCLELLAN
Batch No. : 04K101

Matrix : SOIL
Instrument ID : T-131

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | RL | | | MDL (mg/kg) | Analysis DATETIME | Extraction | | | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|-----------|-------------------|--------------------|-----|-------|---------|----------------|----------------------|---------------|------------|------------|---------|------------|------------------------|----------------------|
| | | | DLF | MOIST | (mg/kg) | | | DATETIME | DATETIME | LFID | | | | |
| MBLK1S | IPK022SB | ND | 1 | NA | 1 | .2 | 11/15/0409:31 | 11/11/0411:25 | I31K013010 | I31K013008 | IPK022S | NA | 11/11/04 | |
| LCS1S | IPK022SL | 86.6 | 1 | NA | 1 | .2 | 11/15/0409:36 | 11/11/0411:25 | I31K013011 | I31K013008 | IPK022S | NA | 11/11/04 | |
| LCD1S | IPK022SC | 87 | 1 | NA | 1 | .2 | 11/15/0409:41 | 11/11/0411:25 | I31K013012 | I31K013008 | IPK022S | NA | 11/11/04 | |
| SN0016AS | K101-02A | 176 | 1 | 12.4 | 1.14 | .228 | 11/15/0409:47 | 11/11/0411:25 | I31K013013 | I31K013008 | IPK022S | 11/02/04 | 11/11/04 | |
| SN0016 | K101-02 | 82.1 | 1 | 12.4 | 1.14 | .228 | 11/15/0409:54 | 11/11/0411:25 | I31K013014 | I31K013008 | IPK022S | 11/02/04 | 11/11/04 | |
| SN0016DL | K101-02T | 93.5 | 5 | 12.4 | 5.71 | 1.14 | 11/15/0409:59 | 11/11/0411:25 | I31K013015 | I31K013008 | IPK022S | 11/02/04 | 11/11/04 | |
| SN0017 | K101-03 | 11.1 | 1 | 17.3 | 1.21 | .242 | 11/15/0410:04 | 11/11/0411:25 | I31K013016 | I31K013008 | IPK022S | 11/08/04 | 11/11/04 | |
| SN0018 | K101-04 | 18.4 | 1 | 15.2 | 1.18 | .236 | 11/15/0410:10 | 11/11/0411:25 | I31K013017 | I31K013008 | IPK022S | 11/08/04 | 11/11/04 | |
| SN0019 | K101-05 | 25.6 | 1 | 14.8 | 1.17 | .235 | 11/15/0410:15 | 11/11/0411:25 | I31K013018 | I31K013008 | IPK022S | 11/08/04 | 11/11/04 | |
| SN0020 | K101-06 | 11.7 | 1 | 13.4 | 1.15 | .231 | 11/15/0410:20 | 11/11/0411:25 | I31K013019 | I31K013008 | IPK022S | 11/08/04 | 11/11/04 | |
| SN0021 | K101-07 | 1310 | 1 | 12.2 | 1.14 | .228 | 11/15/0410:36 | 11/11/0411:25 | I31K013022 | I31K013020 | IPK022S | 11/02/04 | 11/11/04 | |
| SN0022 | K101-08 | 2720 | 1 | 12.7 | 1.15 | .229 | 11/15/0410:41 | 11/11/0411:25 | I31K013023 | I31K013020 | IPK022S | 11/02/04 | 11/11/04 | |
| SN0023 | K101-09 | 65.8 | 1 | 15.8 | 1.19 | .238 | 11/15/0410:47 | 11/11/0411:25 | I31K013024 | I31K013020 | IPK022S | 11/08/04 | 11/11/04 | |

RL: Reporting Limit

1010

METHOD 1311/3010A/6010B
TCLP METALS BY ICP

```
=====
Client      : SHAW E&I                Date Collected: 11/10/04
Project     : FORT MCCLELLAN          Date Received: 11/11/04
SDG NO.    : 04K101                  Date Extracted: 11/12/04 09:00
Sample ID   : SN1002                  Date Analyzed: 11/13/04 14:28
Lab Samp ID: K101-01                  Dilution Factor: 5
Lab File ID: I73K027017              Matrix          : WATER
Ext Btch ID: IPK024W                  % Moisture      : NA
Calib. Ref.: I73K027009              Instrument ID   : EMAXI173
=====
```

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|------------|-------------------|--------------|---------------|
| Arsenic | ND | .05 | .0145 |
| Barium | .605 | .05 | .005 |
| Cadmium | ND | .05 | .008 |
| Chromium | .362 | .1 | .022 |
| Lead | ND | .05 | .011 |
| Selenium | ND | .05 | .0255 |
| Silver | ND | .1 | .042 |

TCLP EXTRACTION DATE: 11/11/04 13:00

METHOD 1311/3010A/6010B
TCLP METALS BY ICP

```
=====
Client      : SHAW E&I                Date Collected: 11/10/04
Project     : FORT MCCLELLAN          Date Received: 11/11/04
SDG NO.    : 04K101                  Date Extracted: 11/12/04 09:00
Sample ID   : SN1003                  Date Analyzed: 11/13/04 14:41
Lab Samp ID: K101-10                  Dilution Factor: 5
Lab File ID: I73K027019              Matrix          : WATER
Ext Btch ID: IPK024W                  % Moisture      : NA
Calib. Ref.: I73K027009              Instrument ID   : EMAXT173
=====
```

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|------------|-------------------|--------------|---------------|
| Arsenic | ND | .05 | .0145 |
| Barium | .626 | .05 | .005 |
| Cadmium | ND | .05 | .008 |
| Chromium | .408 | .1 | .022 |
| Lead | ND | .05 | .011 |
| Selenium | ND | .05 | .0255 |
| Silver | ND | .1 | .042 |

TCLP EXTRACTION DATE: 11/11/04 13:00

METHOD 1311/7470A
TCLP MERCURY

Client : SHAW E&I
Project : FORT MCCLELLAN
Batch No. : 04K101

Matrix : WATER
Instrument ID : T1047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/L) | DLF | MOIST | RL (ug/L) | MDL (ug/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|-----------|-------------------|-------------------|-----|-------|--------------|---------------|----------------------|------------------------|------------|------------|------------|------------------------|----------------------|
| MBLK1W | HGK011WB | ND | 1 | NA | .5 | .15 | 11/12/0417:23 | 11/12/0412:00 | M47K014010 | M47K014008 | HGK011W | NA | 11/12/04 |
| LCS1W | HGK011WL | 5.04 | 1 | NA | .5 | .15 | 11/12/0417:26 | 11/12/0412:00 | M47K014011 | M47K014008 | HGK011W | NA | 11/12/04 |
| LCD1W | HGK011WC | 4.98 | 1 | NA | .5 | .15 | 11/12/0417:28 | 11/12/0412:00 | M47K014012 | M47K014008 | HGK011W | NA | 11/12/04 |
| MBLK1S | TXK003SB | ND | 10 | NA | 5 | 1.5 | 11/12/0417:30 | 11/12/0412:00 | M47K014013 | M47K014008 | HGK011W | NA | 11/12/04 |
| SN1002AS | K101-01A | 18.6 | 10 | NA | 5 | 1.5 | 11/12/0417:32 | 11/12/0412:00 | M47K014014 | M47K014008 | HGK011W | 11/10/04 | 11/11/04 |
| SN1002 | K101-01 | ND | 10 | NA | 5 | 1.5 | 11/12/0417:34 | 11/12/0412:00 | M47K014015 | M47K014008 | HGK011W | 11/10/04 | 11/11/04 |
| SN1002DL | K101-01T | ND | 50 | NA | 25 | 7.5 | 11/12/0417:37 | 11/12/0412:00 | M47K014016 | M47K014008 | HGK011W | 11/10/04 | 11/11/04 |
| SN1002MS | K101-01M | 53.4 | 10 | NA | 5 | 1.5 | 11/12/0417:39 | 11/12/0412:00 | M47K014017 | M47K014008 | HGK011W | 11/10/04 | 11/11/04 |
| SN1002MSD | K101-01S | 48.8 | 10 | NA | 5 | 1.5 | 11/12/0417:41 | 11/12/0412:00 | M47K014018 | M47K014008 | HGK011W | 11/10/04 | 11/11/04 |
| SN1003 | K101-10 | ND | 10 | NA | 5 | 1.5 | 11/12/0417:43 | 11/12/0412:00 | M47K014019 | M47K014008 | HGK011W | 11/10/04 | 11/11/04 |

RL: Reporting Limit
TCLP Extraction Date: 11/11/04 13:00

1013



LABORATORIES, INC.

1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 11-24-2004
Client SDG.: IMR-004
EMAX Batch No.: 04K146

Attn: Randy McBride

Shaw E&I
312 Directors Dr.
Knoxville TN 37923-4799

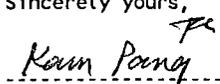
Subject: Laboratory Report
Project: Fort McClellan

Enclosed is the Laboratory report for samples received on
11/16/04. The data reported include :

| Sample ID | Control # | Col Date | Matrix | Analysis |
|-----------|-----------|----------|--------|-----------------------------|
| SN1004 | K146-01 | 11/15/04 | SOIL | MERCURY TCLP METALS TCLP |

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning
these results.

Sincerely yours,


Kam Y. Pang, Ph.D.
Laboratory Director

REPORTING CONVENTIONS

DATA QUALIFIERS:

| Lab Qualifier | AFCEE Qualifier | Description |
|---------------|-----------------|--|
| J | F | Indicates that the analyte is positively identified and the result is less than RL but greater than MDL. |
| N | | Indicates presumptive evidence of a compound. |
| B | B | Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level. |
| E | J | Indicates that the result is above the maximum calibration range. |
| * | * | Out of QC limit. |

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

| | |
|------|-----------------------------------|
| CRDL | Contract Required Detection Limit |
| RL | Reporting Limit |
| MRL | Method Reporting Limit |
| PQL | Practical Quantitation Limit |
| MDL | Method Detection Limit |
| DO | Diluted out |

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

CASE NARRATIVE

CLIENT: SHAW E&I
CLIENT SDG: IMR-004
PROJECT: FORT MCCLELLAN
EMAX SDG: 04K146

METHOD 1311/3010A/6010B TCLP METALS BY ICP

One (1) soil sample was received on 11/16/04 for TCLP Metals analysis by Method 1311/3010A/6010B in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW846, 3rd edition.

1. Holding Time
Analysis met holding time criteria.
2. Method Blank
Method blanks were free of contamination at the reporting limit.
3. Lab Control Sample/Lab Control Sample Duplicate
Lab control results were within QC limit.
4. Serial Dilution / Post-Analytical Spike
Sample K146-01 was analyzed for serial dilution and post-analytical spike. All QC requirements were met.
5. Matrix Spike/Matrix Spike Duplicate
Sample K146-01 was spiked. All recoveries were within QC limit.
6. Sample Analysis
Sample was analyzed according to the prescribed QC procedures. All criteria were met.

CASE NARRATIVE

CLIENT: SHAW E&I
CLIENT SDG: IMR-004
PROJECT: FORT MCCLELLAN
EMAX SDG: 04K146

METHOD 1311/7470A TCLP MERCURY

One (1) soil sample was received on 11/16/04 for TCLP Mercury Analysis by Method 1311/7470A in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW846, 3rd edition.

1. Holding Time
Analysis met the holding time criteria.
2. Method Blank
Method blanks were free of contamination at the reporting limit.
3. Lab Control Sample/Lab Control Sample Duplicate
Lab control results were within the QC limit.
4. Serial Dilution/Post Analytical Spike
Sample K136-01 from another SDG was analyzed for serial dilution and post analytical spike. All QC requirements were met.
5. Matrix Spike/Matrix Spike Duplicate
Sample K146-01 was spiked. The recoveries were within the QC limit.
6. Sample Analysis
Sample was analyzed according to the prescribed QC procedures. All criteria were met.

RESULT SUMMARIES

METHOD 1311/3010A/6010B
 TCLP METALS BY ICP

```

=====
Client      : SHAW E&I                      Date Collected: 11/15/04
Project     : FORT MCCLELLAN                Date Received: 11/16/04
SDG NO.    : 04K146                        Date Extracted: 11/17/04 10:00
Sample ID   : SN1004                        Date Analyzed: 11/18/04 03:03
Lab Samp ID: K146-01                        Dilution Factor: 5
Lab File ID: I73K031024                    Matrix          : WATER
Ext Btch ID: IPK037W                       % Moisture      : NA
Calib. Ref.: I73K031021                    Instrument ID   : EMAXI173
=====
  
```

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|------------|-------------------|--------------|---------------|
| Arsenic | ND | .05 | .0145 |
| Barium | .922 | .05 | .005 |
| Cadmium | ND | .05 | .008 |
| Chromium | .255 | .1 | .022 |
| Lead | .0711 | .05 | .011 |
| Selenium | ND | .05 | .0255 |
| Silver | ND | .1 | .042 |

TCLP EXTRACTION DATE: 11/15/04 15:00

METHOD 1311/7470A
TCLP MERCURY

=====
Client : SHAW E&I
Project : FORT MCCLELLAN
Batch No. : 04K146
=====

Matrix : WATER
Instrument ID : TIO47
=====

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/L) | DLF | MOIST | RL (ug/L) | MDL (ug/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|-----------|-------------------|-------------------|-----|-------|--------------|---------------|----------------------|------------------------|------------|------------|------------|------------------------|----------------------|
| MBL<1W | HGK016WB | ND | 1 | NA | .5 | .15 | 11/18/0416:07 | 11/17/0416:00 | M47K019010 | M47K019008 | HGK016W | NA | 11/17/04 |
| LCS1W | HGK016WL | 4.96 | 1 | NA | .5 | .15 | 11/18/0416:09 | 11/17/0416:00 | M47K019011 | M47K019008 | HGK016W | NA | 11/17/04 |
| LCD1W | HGK016WC | 4.94 | 1 | NA | .5 | .15 | 11/18/0416:11 | 11/17/0416:00 | M47K019012 | M47K019008 | HGK016W | NA | 11/17/04 |
| MBL<1S | TXK005SB | ND | 1 | NA | .5 | .15 | 11/18/0416:27 | 11/17/0416:00 | M47K019019 | M47K019008 | HGK016W | NA | 11/16/04 |
| SN1J04 | K146-01 | ND | 10 | NA | 5 | 1.5 | 11/18/0416:34 | 11/17/0416:00 | M47K019022 | M47K019020 | HGK016W | 11/15/04 | 11/16/04 |
| SN1J04MS | K146-01M | 49.2 | 10 | NA | 5 | 1.5 | 11/18/0416:36 | 11/17/0416:00 | M47K019023 | M47K019020 | HGK016W | 11/15/04 | 11/16/04 |
| SN1J04MSD | K146-01S | 50.2 | 10 | NA | 5 | 1.5 | 11/18/0416:38 | 11/17/0416:00 | M47K019024 | M47K019020 | HGK016W | 11/15/04 | 11/16/04 |

RL: Reporting Limit
TCLP Extraction Date: 11/15/04 15:00

1009



LABORATORIES, INC.

1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 11-24-2004
Client SDG.: IMR-005
EMAX Batch No.: 04K160

Attn: Randy McBride

Shaw E&I
312 Directors Dr.
Knoxville TN 37923-4799

Subject: Laboratory Report
Project: Fort McClellan

Enclosed is the Laboratory report for samples received on
11/17/04. The data reported include :

| Sample ID | Control # | Col Date | Matrix | Analysis |
|-----------|-----------|----------|--------|-----------------------------|
| SN1005 | K160-01 | 11/16/04 | SOIL | MERCURY TCLP METALS TCLP |

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning
these results.

Sincerely yours,

Kam Y. Pang, Ph.D.
Laboratory Director

REPORTING CONVENTIONS

DATA QUALIFIERS:

| Lab Qualifier | AFCEE Qualifier | Description |
|---------------|-----------------|--|
| J | F | Indicates that the analyte is positively identified and the result is less than RL but greater than MDL. |
| N | | Indicates presumptive evidence of a compound. |
| B | B | Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level. |
| E | J | Indicates that the result is above the maximum calibration range. |
| * | * | Out of QC limit. |

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

| | |
|------|-----------------------------------|
| CRDL | Contract Required Detection Limit |
| RL | Reporting Limit |
| MRL | Method Reporting Limit |
| PQL | Practical Quantitation Limit |
| MDL | Method Detection Limit |
| DO | Diluted out |

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

CASE NARRATIVE

CLIENT: SHAW E&I
CLIENT SDG: IMR-005
PROJECT: FORT MCCLELLAN
EMAX SDG: 04K160

METHOD 1311/3010A/6010B TCLP METALS BY ICP

One (1) soil sample was received on 11/17/04 for TCLP Metals analysis by Method 1311/3010A/6010B in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW846, 3rd edition.

1. Holding Time
Analysis met holding time criteria.
2. Method Blank
Method blanks were free of contamination at the reporting limit.
3. Lab Control Sample/Lab Control Sample Duplicate
Lab control results were within QC limit.
4. Serial Dilution / Post-Analytical Spike
Sample K160-01 was analyzed for serial dilution and post-analytical spike. All QC requirements were met.
5. Matrix Spike/Matrix Spike Duplicate
Sample K160-01 was spiked. All recoveries were within QC limit.
6. Sample Analysis
Sample was analyzed according to the prescribed QC procedures. All criteria were met.

CASE NARRATIVE

CLIENT: SHAW E&I
CLIENT SDG: IMR-005
PROJECT: FORT MCCLELLAN
EMAX SDG: 04K160

METHOD 1311/7470A TCLP MERCURY

One (1) soil sample was received on 11/17/04 for TCLP Mercury analysis by Method 1311/7470A in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW846, 3rd edition.

1. Holding Time
Analysis met holding time criteria.
2. Method Blank
Method blanks were free of contamination at the reporting limit.
3. Lab Control Sample/Lab Control Sample Duplicate
Lab control results were within QC limit.
4. Serial Dilution / Post-Analytical Spike
Sample K160-01 was analyzed for serial dilution and post-analytical spike. All QC requirements were met.
5. Matrix Spike/Matrix Spike Duplicate
Sample K160-01 was spiked. All recoveries were within QC limit.
6. Sample Analysis
Sample was analyzed according to the prescribed QC procedures. All criteria were met.

RESULT SUMMARIES

METHOD 1311/3010A/6010B
 TCLP METALS BY ICP

```

=====
Client      : SHAW E&I                      Date Collected: 11/16/04
Project     : FORT MCCLELLAN                Date Received: 11/17/04
SDG NO.    : 04K160                        Date Extracted: 11/18/04 09:10
Sample ID   : SN1005                        Date Analyzed: 11/18/04 18:54
Lab Samp ID: K160-01                        Dilution Factor: 5
Lab File ID: 173K032020                    Matrix          : WATER
Ext Btch ID: IPK038W                        % Moisture     : NA
Calib. Ref.: 173K032012                    Instrument ID   : EMAXTI73
=====
  
```

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|------------|-------------------|--------------|---------------|
| Arsenic | .0263J | .05 | .0145 |
| Barium | 1.4 | .05 | .005 |
| Cadmium | ND | .05 | .008 |
| Chromium | .0259J | .1 | .022 |
| Lead | 32.4 | .05 | .011 |
| Selenium | ND | .05 | .0255 |
| Silver | ND | .1 | .042 |

TCLP EXTRACTION DATE: 11/17/04 15:30

METHOD 1311/7470A
TCLP MERCURY

Client : SHAW E&I
Project : FORT MCCLELLAN
Batch No. : 04K160

Matrix : WATER
Instrument ID : T1047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/L) | DLF | MOIST | RL (ug/L) | MDL (ug/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|-----------|-------------------|-------------------|-----|-------|--------------|---------------|----------------------|------------------------|------------|------------|------------|------------------------|----------------------|
| MBLK1W | HGK018WB | ND | 1 | NA | .5 | .15 | 11/19/0419:30 | 11/19/0414:00 | M47K020041 | M47K020032 | HGK018W | NA | 11/19/04 |
| LCS1W | HGK018WL | 5.12 | 1 | NA | .5 | .15 | 11/19/0419:32 | 11/19/0414:00 | M47K020042 | M47K020032 | HGK018W | NA | 11/19/04 |
| LCD1W | HGK018WC | 5.08 | 1 | NA | .5 | .15 | 11/19/0419:34 | 11/19/0414:00 | M47K020043 | M47K020032 | HGK018W | NA | 11/19/04 |
| MBLK1S | TXK006SB | ND | 10 | NA | 5 | 1.5 | 11/19/0420:37 | 11/19/0414:00 | M47K020071 | M47K020068 | HGK018W | NA | 11/19/04 |
| SN1005AS | K160-01A | 21.3 | 10 | NA | 5 | 1.5 | 11/19/0420:39 | 11/19/0414:00 | M47K020072 | M47K020068 | HGK018W | 11/16/04 | 11/17/04 |
| SN1005 | K160-01 | ND | 10 | NA | 5 | 1.5 | 11/19/0420:41 | 11/19/0414:00 | M47K020073 | M47K020068 | HGK018W | 11/16/04 | 11/17/04 |
| SN1005DL | K160-01T | ND | 50 | NA | 25 | 7.5 | 11/19/0420:43 | 11/19/0414:00 | M47K020074 | M47K020068 | HGK018W | 11/16/04 | 11/17/04 |
| SN1005MS | K160-01M | 46.8 | 10 | NA | 5 | 1.5 | 11/19/0420:46 | 11/19/0414:00 | M47K020075 | M47K020068 | HGK018W | 11/16/04 | 11/17/04 |
| SN1005MSD | K160-01S | 46 | 10 | NA | 5 | 1.5 | 11/19/0420:48 | 11/19/0414:00 | M47K020076 | M47K020068 | HGK018W | 11/16/04 | 11/17/04 |

RL: Reporting Limit

TCLP Extraction Date: 11/17/04 15:30

1009



LABORATORIES, INC.

1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 12-02-2004
Client Batch No.: IMR-006
EMAX Batch No.: 04K214

Attn: Randy McBride

Shaw E&I
312 Directors Dr.
Knoxville TN 37923-4799

Subject: Laboratory Report
Project: Fort McClellan

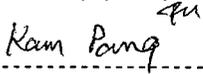
Enclosed is the Laboratory report for samples received on
11/23/04. The data reported include :

| Sample ID | Control # | Col Date | Matrix | Analysis |
|-----------|-----------|----------|--------|-----------------------------|
| SN1006 | K214-01 | 11/22/04 | SOIL | MERCURY TCLP METALS TCLP |
| SN0024 | K214-02 | 11/15/04 | SOIL | LEAD |
| SN0025 | K214-03 | 11/15/04 | SOIL | LEAD |
| SN0026 | K214-04 | 11/15/04 | SOIL | LEAD |
| SN0027 | K214-05 | 11/15/04 | SOIL | LEAD |
| SN0028 | K214-06 | 11/15/04 | SOIL | LEAD |
| SN0029 | K214-07 | 11/15/04 | SOIL | LEAD |
| SN0030 | K214-08 | 11/15/04 | SOIL | LEAD |
| SN0031 | K214-09 | 11/15/04 | SOIL | LEAD |
| SN0032 | K214-10 | 11/15/04 | SOIL | LEAD |
| SN0033 | K214-11 | 11/15/04 | SOIL | LEAD |
| SN0034 | K214-12 | 11/15/04 | SOIL | LEAD |
| SN0035 | K214-13 | 11/16/04 | SOIL | LEAD |
| SN0036 | K214-14 | 11/16/04 | SOIL | LEAD |
| SN0037 | K214-15 | 11/16/04 | SOIL | LEAD |
| SN0038 | K214-16 | 11/16/04 | SOIL | LEAD |
| SN0039 | K214-17 | 11/16/04 | SOIL | LEAD |
| SN0040 | K214-18 | 11/16/04 | SOIL | LEAD |

| Sample ID | Control # | Col Date | Matrix | Analysis |
|-----------|-----------|----------|--------|----------|
| SN0041 | K214-19 | 11/16/04 | SOIL | LEAD |
| SN0042 | K214-20 | 11/16/04 | SOIL | LEAD |
| SN0043 | K214-21 | 11/16/04 | SOIL | LEAD |
| SN0044 | K214-22 | 11/16/04 | SOIL | LEAD |
| SN0044MS | K214-22M | 11/16/04 | SOIL | LEAD |
| SN0044MSD | K214-22S | 11/16/04 | SOIL | LEAD |
| SN0045 | K214-23 | 11/16/04 | SOIL | LEAD |
| SN0046 | K214-24 | 11/18/04 | SOIL | LEAD |
| SN0047 | K214-25 | 11/18/04 | SOIL | LEAD |
| SN0048 | K214-26 | 11/18/04 | SOIL | LEAD |
| SN0049 | K214-27 | 11/18/04 | SOIL | LEAD |
| SN0050 | K214-28 | 11/18/04 | SOIL | LEAD |

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,


Kam Y. Pang, Ph.D.
Laboratory Director

REPORTING CONVENTIONS

DATA QUALIFIERS:

| Lab Qualifier | AFCEE Qualifier | Description |
|---------------|-----------------|--|
| J | F | Indicates that the analyte is positively identified and the result is less than RL but greater than MDL. |
| N | | Indicates presumptive evidence of a compound. |
| B | B | Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level. |
| E | J | Indicates that the result is above the maximum calibration range. |
| * | * | Out of QC limit. |

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

| | |
|------|-----------------------------------|
| CRDL | Contract Required Detection Limit |
| RL | Reporting Limit |
| MRL | Method Reporting Limit |
| PQL | Practical Quantitation Limit |
| MDL | Method Detection Limit |
| DO | Diluted out |

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

CASE NARRATIVE

CLIENT: SHAW E&I
PROJECT: FORT MCCLELLAN
CLIENT SDG: IMR-006
EMAX SDG: 04K214

METHOD 3050B/6010B LEAD BY TRACE ICP

Twenty-seven (27) soil samples were received on 11/23/04 for Lead analysis by Method 3050B/6010B in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW846, 3rd edition.

1. Holding Time

Analysis met holding time criteria.

2. Method Blank

Method blanks were free of contamination at the reporting limit.

3. Lab Control Sample/Lab Control Sample Duplicate

Lab control results were within QC limit.

4. Serial Dilution

Samples K214-21 and K214-22 were analyzed for serial dilution. All QC requirements were met.

5. Matrix Spike/Matrix Spike Duplicate

Sample K214-22 was spiked. All recoveries were out of the QC limit.

6. Sample Analysis

Samples were analyzed according to the prescribed QC procedures. All criteria were met with the aforementioned exception.

CASE NARRATIVE

CLIENT: SHAW E&I
PROJECT: FORT MCCLELLAN
CLIENT SDG: IMR-006
EMAX SDG: 04K214

METHOD 1311/3010A/6010B TCLP METALS BY ICP

One (1) soil sample was received on 11/23/04 for TCLP Metals analysis by Method 1311/3010A/6010B in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW846, 3rd edition.

1. Holding Time
Analysis met holding time criteria.
2. Method Blank
Method blanks were free of contamination at the reporting limit.
3. Lab Control Sample/Lab Control Sample Duplicate
Lab control results were within QC limit.
4. Serial Dilution / Post-Analytical Spike
Sample K214-01 was analyzed for serial dilution and post-analytical spike. All QC requirements were met.
5. Matrix Spike/Matrix Spike Duplicate
Sample K214-01 was spiked. All recoveries were within QC limit.
6. Sample Analysis
Sample was analyzed according to the prescribed QC procedures. All criteria were met.

CASE NARRATIVE

CLIENT: SHAW E&I
PROJECT: FORT MCCLELLAN
CLIENT SDG: IMR-006
EMAX SDG: 04K214

METHOD 1311/7470A TCLP MERCURY

One (1) soil sample was received on 11/23/04 for TCLP Mercury analysis by Method 1311/7470A in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW846, 3rd edition.

1. Holding Time
Analysis met holding time criteria.
2. Method Blank
Method blanks were free of contamination at the reporting limit.
3. Lab Control Sample/Lab Control Sample Duplicate
Lab control results were within QC limit.
4. Serial Dilution / Post-Analytical Spike
Sample K214-01 was analyzed for serial dilution and post-analytical spike. All QC requirements were met.
5. Matrix Spike/Matrix Spike Duplicate
Sample K214-01 was spiked. All recoveries were within QC limit.
6. Sample Analysis
Sample was analyzed according to the prescribed QC procedures. All criteria were met.

RESULT SUMMARIES

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client : SHAW E&I
Project : FORT MCCLELLAN
Batch No. : 04K214

Matrix : SOIL
Instrument ID : T-131

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | RL | | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME | |
|-----------|-------------------|--------------------|-----|---------------|----------------|----------------------|------------------------|---------------|------------|------------|------------------------|----------------------|----------|
| | | | DLF | MOIST (mg/kg) | | | | | | | | | |
| MBLK1S | IPK047SB | .759J | 1 | NA | 1 | .2 | 11/29/0411:48 | 11/23/0412:40 | I31K036017 | I31K036009 | IPK047S | NA | 11/23/04 |
| LCS1S | IPK047SL | 87.4 | 1 | NA | 1 | .2 | 11/24/0417:18 | 11/23/0412:40 | I31K035011 | I31K035008 | IPK047S | NA | 11/23/04 |
| LCD1S | IPK047SC | 87.5 | 1 | NA | 1 | .2 | 11/24/0417:23 | 11/23/0412:40 | I31K035012 | I31K035008 | IPK047S | NA | 11/23/04 |
| SN0024 | K214-02 | 946 | 1 | 15.6 | 1.18 | .237 | 11/24/0417:30 | 11/23/0412:40 | I31K035013 | I31K035008 | IPK047S | 11/15/04 | 11/23/04 |
| SN0025 | K214-03 | 72.6 | 1 | 12.6 | 1.14 | .229 | 11/24/0417:36 | 11/23/0412:40 | I31K035014 | I31K035008 | IPK047S | 11/15/04 | 11/23/04 |
| SN0026 | K214-04 | 779 | 1 | 10.5 | 1.12 | .223 | 11/24/0417:41 | 11/23/0412:40 | I31K035015 | I31K035008 | IPK047S | 11/15/04 | 11/23/04 |
| SN0027 | K214-05 | 530 | 1 | 13.6 | 1.16 | .231 | 11/24/0417:46 | 11/23/0412:40 | I31K035016 | I31K035008 | IPK047S | 11/15/04 | 11/23/04 |
| SN0028 | K214-06 | 6800 | 1 | 17.0 | 1.2 | .241 | 11/24/0417:51 | 11/23/0412:40 | I31K035017 | I31K035008 | IPK047S | 11/15/04 | 11/23/04 |
| SN0029 | K214-07 | 857 | 1 | 13.4 | 1.15 | .231 | 11/24/0417:57 | 11/23/0412:40 | I31K035018 | I31K035008 | IPK047S | 11/15/04 | 11/23/04 |
| SN0030 | K214-08 | 2820 | 1 | 12.7 | 1.15 | .229 | 11/24/0418:02 | 11/23/0412:40 | I31K035019 | I31K035008 | IPK047S | 11/15/04 | 11/23/04 |
| SN0031 | K214-09 | 25.1 | 1 | 10.9 | 1.12 | .224 | 11/24/0418:19 | 11/23/0412:40 | I31K035022 | I31K035020 | IPK047S | 11/15/04 | 11/23/04 |
| SN0032 | K214-10 | 591 | 1 | 11.6 | 1.13 | .226 | 11/24/0418:25 | 11/23/0412:40 | I31K035023 | I31K035020 | IPK047S | 11/15/04 | 11/23/04 |
| SN0033 | K214-11 | 5450 | 1 | 13.5 | 1.16 | .231 | 11/24/0418:30 | 11/23/0412:40 | I31K035024 | I31K035020 | IPK047S | 11/15/04 | 11/23/04 |
| SN0034 | K214-12 | 24.5 | 1 | 12.8 | 1.15 | .229 | 11/24/0418:35 | 11/23/0412:40 | I31K035025 | I31K035020 | IPK047S | 11/15/04 | 11/23/04 |
| SN0035 | K214-13 | 1680 | 1 | 14.3 | 1.17 | .233 | 11/24/0418:40 | 11/23/0412:40 | I31K035026 | I31K035020 | IPK047S | 11/16/04 | 11/23/04 |
| SN0036 | K214-14 | 1160 | 1 | 11.4 | 1.13 | .226 | 11/24/0418:46 | 11/23/0412:40 | I31K035027 | I31K035020 | IPK047S | 11/16/04 | 11/23/04 |
| SN0037 | K214-15 | 1330 | 1 | 28.1 | 1.39 | .278 | 11/24/0418:51 | 11/23/0412:40 | I31K035028 | I31K035020 | IPK047S | 11/16/04 | 11/23/04 |
| SN0038 | K214-16 | 586 | 1 | 12.4 | 1.14 | .228 | 11/24/0418:56 | 11/23/0412:40 | I31K035029 | I31K035020 | IPK047S | 11/16/04 | 11/23/04 |
| SN0039 | K214-17 | 2230 | 1 | 20.6 | 1.26 | .252 | 11/24/0419:01 | 11/23/0412:40 | I31K035030 | I31K035020 | IPK047S | 11/16/04 | 11/23/04 |
| SN0040 | K214-18 | 1220 | 1 | 16.7 | 1.2 | .24 | 11/24/0419:07 | 11/23/0412:40 | I31K035031 | I31K035020 | IPK047S | 11/16/04 | 11/23/04 |
| SN0041 | K214-19 | 255 | 1 | 12.4 | 1.14 | .228 | 11/24/0419:24 | 11/23/0412:40 | I31K035034 | I31K035032 | IPK047S | 11/16/04 | 11/23/04 |
| SN0042 | K214-20 | 1260 | 1 | 12.0 | 1.14 | .227 | 11/24/0419:30 | 11/23/0412:40 | I31K035035 | I31K035032 | IPK047S | 11/16/04 | 11/23/04 |
| SN0044 | K214-22 | 100 | 1 | 13.6 | 1.16 | .231 | 11/24/0419:35 | 11/23/0412:40 | I31K035036 | I31K035032 | IPK047S | 11/16/04 | 11/23/04 |
| SN0044DL | K214-22T | 106 | 5 | 13.6 | 5.79 | 1.16 | 11/24/0419:40 | 11/23/0412:40 | I31K035037 | I31K035032 | IPK047S | 11/16/04 | 11/23/04 |
| SN0044MS | K214-22M | 189 | 1 | 13.6 | 1.16 | .231 | 11/24/0419:51 | 11/23/0412:40 | I31K035039 | I31K035032 | IPK047S | 11/16/04 | 11/23/04 |
| SN0044MSD | K214-22S | 191 | 1 | 13.6 | 1.16 | .231 | 11/24/0419:56 | 11/23/0412:40 | I31K035040 | I31K035032 | IPK047S | 11/16/04 | 11/23/04 |
| MBLK2S | IPK048SB | ND | 1 | NA | 1 | .2 | 11/30/0400:54 | 11/23/0412:04 | I31K037019 | I31K037010 | IPK048S | NA | 11/23/04 |
| LCS2S | IPK048SL | 87 | 1 | NA | 1 | .2 | 11/30/0400:59 | 11/23/0412:04 | I31K037020 | I31K037010 | IPK048S | NA | 11/23/04 |
| LCD2S | IPK048SC | 84.7 | 1 | NA | 1 | .2 | 11/30/0401:05 | 11/23/0412:04 | I31K037021 | I31K037010 | IPK048S | NA | 11/23/04 |
| SN0043 | K214-21 | 1310 | 1 | 11.8 | 1.13 | .227 | 11/30/0401:20 | 11/23/0412:04 | I31K037024 | I31K037022 | IPK048S | 11/16/04 | 11/23/04 |
| SN0043DL | K214-21T | 1380 | 5 | 11.8 | 5.67 | 1.13 | 11/30/0401:25 | 11/23/0412:04 | I31K037025 | I31K037022 | IPK048S | 11/16/04 | 11/23/04 |
| SN0045 | K214-23 | 693 | 1 | 10.7 | 1.12 | .224 | 11/30/0401:37 | 11/23/0412:04 | I31K037027 | I31K037022 | IPK048S | 11/16/04 | 11/23/04 |
| SN0046 | K214-24 | 414 | 1 | 14.4 | 1.17 | .234 | 11/30/0401:42 | 11/23/0412:04 | I31K037028 | I31K037022 | IPK048S | 11/18/04 | 11/23/04 |
| SN0047 | K214-25 | 165 | 1 | 14.8 | 1.17 | .235 | 11/30/0401:47 | 11/23/0412:04 | I31K037029 | I31K037022 | IPK048S | 11/18/04 | 11/23/04 |
| SN0048 | K214-26 | 160 | 1 | 15.7 | 1.19 | .237 | 11/30/0401:52 | 11/23/0412:04 | I31K037030 | I31K037022 | IPK048S | 11/18/04 | 11/23/04 |
| SN0049 | K214-27 | 530 | 1 | 12.0 | 1.14 | .227 | 11/30/0401:57 | 11/23/0412:04 | I31K037031 | I31K037022 | IPK048S | 11/18/04 | 11/23/04 |
| SN0050 | K214-28 | 66.4 | 1 | 10.2 | 1.11 | .223 | 11/30/0402:02 | 11/23/0412:04 | I31K037032 | I31K037022 | IPK048S | 11/18/04 | 11/23/04 |

RL: Reporting Limit

1012

METHOD 1311/3010A/6010B
TCLP METALS BY ICP

```
=====
Client      : SHAW E&I                      Date Collected: 11/22/04
Project     : FORT MCCLELLAN                Date Received: 11/23/04
SDG NO.    : 04K214                         Date Extracted: 11/24/04 10:15
Sample ID   : SN1006                         Date Analyzed: 11/25/04 00:07
Lab Samp ID: K214-01                         Dilution Factor: 5
Lab File ID: I73K036017                     Matrix          : WATER
Ext Btch ID: IPK050W                         % Moisture     : NA
Calib. Ref.: I73K036009                     Instrument ID  : EMAXT173
=====
```

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|------------|-------------------|--------------|---------------|
| Arsenic | ND | .05 | .0145 |
| Barium | .516 | .05 | .005 |
| Cadmium | ND | .05 | .008 |
| Chromium | .299 | .1 | .022 |
| Lead | ND | .05 | .011 |
| Selenium | ND | .05 | .0255 |
| Silver | ND | .1 | .042 |

TCLP EXTRACTION DATE: 11/23/04 16:45

METHOD 1311/7470A
TCLP MERCURY

Client : SHAW E&I
Project : FORT MCCLELLAN
Batch No. : 04K214

Matrix : WATER
Instrument ID : T1047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/L) | DLF | MOIST | RL (ug/L) | MDL (ug/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|-----------|-------------------|-------------------|-----|-------|--------------|---------------|----------------------|------------------------|------------|------------|------------|------------------------|----------------------|
| MBLK1W | HGK023WB | ND | 1 | NA | .5 | .15 | 11/24/0419:18 | 11/24/0415:30 | M47K024010 | M47K024008 | HGK023W | NA | 11/24/04 |
| LCS1W | HGK023WL | 5.12 | 1 | NA | .5 | .15 | 11/24/0419:20 | 11/24/0415:30 | M47K024011 | M47K024008 | HGK023W | NA | 11/24/04 |
| LCD1W | HGK023WC | 4.99 | 1 | NA | .5 | .15 | 11/24/0419:23 | 11/24/0415:30 | M47K024012 | M47K024008 | HGK023W | NA | 11/24/04 |
| MBLK1S | TXK008SB | ND | 10 | NA | 5 | 1.5 | 11/24/0419:25 | 11/12/0415:30 | M47K024013 | M47K024008 | HGK023W | NA | 11/12/04 |
| SN1006AS | K214-01A | 21.3 | 10 | NA | 5 | 1.5 | 11/24/0419:27 | 11/24/0415:30 | M47K024014 | M47K024008 | HGK023W | 11/22/04 | 11/23/04 |
| SN1006 | K214-01 | ND | 10 | NA | 5 | 1.5 | 11/24/0419:29 | 11/24/0415:30 | M47K024015 | M47K024008 | HGK023W | 11/22/04 | 11/23/04 |
| SN1006DL | K214-01T | ND | 50 | NA | 25 | 7.5 | 11/24/0419:32 | 11/24/0415:30 | M47K024016 | M47K024008 | HGK023W | 11/22/04 | 11/23/04 |
| SN1006MS | K214-01M | 52.3 | 10 | NA | 5 | 1.5 | 11/24/0419:34 | 11/24/0415:30 | M47K024017 | M47K024008 | HGK023W | 11/22/04 | 11/23/04 |
| SN1006MSD | K214-01S | 52.8 | 10 | NA | 5 | 1.5 | 11/24/0419:36 | 11/24/0415:30 | M47K024018 | M47K024008 | HGK023W | 11/22/04 | 11/23/04 |

RL: Reporting Limit

TCLP Extraction Date: 11/23/04 16:45

1014



LABORATORIES, INC.

1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 12-17-2004
Client SDG.: IMR - 007
EMAX Batch No.: 04L057

Attn: Randy McBride

Shaw E&I
312 Directors Dr.
Knoxville TN 37923-4799

Subject: Laboratory Report
Project: Fort McClellan

Enclosed is the Laboratory report for samples received on
12/08/04. The data reported include :

| Sample ID | Control # | Col Date | Matrix | Analysis |
|-----------|-----------|----------|--------|-----------------------------|
| SN1007 | L057-01 | 12/07/04 | SOIL | METALS TCLP MERCURY TCLP |

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning
these results.

Sincerely yours,

Kam Y. Pang, Ph.D.
Laboratory Director

REPORTING CONVENTIONS

DATA QUALIFIERS:

| Lab Qualifier | AFCEE Qualifier | Description |
|---------------|-----------------|--|
| J | F | Indicates that the analyte is positively identified and the result is less than RL but greater than MDL. |
| N | | Indicates presumptive evidence of a compound. |
| B | B | Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level. |
| E | J | Indicates that the result is above the maximum calibration range. |
| * | * | Out of QC limit. |

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

| | |
|------|-----------------------------------|
| CRDL | Contract Required Detection Limit |
| RL | Reporting Limit |
| MRL | Method Reporting Limit |
| PQL | Practical Quantitation Limit |
| MDL | Method Detection Limit |
| DO | Diluted out |

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

CASE NARRATIVE

CLIENT: SHAW E&I
CLIENT SDG: IMR - 007
PROJECT: FORT MCCLELLAN
EMAX SDG: 04L057

METHOD 1311/3010A/6010B TCLP METALS BY ICP

One (1) soil sample was received on 12/08/04 for TCLP Metals analysis by Method 1311/3010A/6010B in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW846, 3rd edition.

1. Holding Time
Analysis met holding time criteria.
2. Method Blank
Method blanks were free of contamination at the reporting limit.
3. Lab Control Sample/Lab Control Sample Duplicate
Lab control results were within QC limit.
4. Serial Dilution / Post-Analytical Spike
Sample L057-01 was analyzed for serial dilution and post-analytical spike. All QC requirements were met.
5. Matrix Spike/Matrix Spike Duplicate
Sample L057-01 was spiked. Recoveries were within QC limit.
6. Sample Analysis
Sample was analyzed according to the prescribed QC procedure. All criteria were met.

RESULT SUMMARIES

METHOD 1311/3010A/6010B
TCLP METALS BY ICP

=====
Client : SHAW E&I Date Collected: 12/07/04
Project : FORT MCCLELLAN Date Received: 12/08/04
SDG NO. : 04L057 Date Extracted: 12/09/04 08:00
Sample ID: SN1007 Date Analyzed: 12/10/04 14:48
Lab Samp ID: L057-01 Dilution Factor: 5
Lab File ID: I07L025049 Matrix : WATER
Ext Btch ID: IPL017W % Moisture : NA
Calib. Ref.: I07L025045 Instrument ID : EMAXTI07
=====

| PARAMETERS | RESULTS | RL | MDL |
|------------|---------|--------|--------|
| ----- | (mg/L) | (mg/L) | (mg/L) |
| ----- | ----- | ----- | ----- |
| Barium | .284 | .05 | .01 |
| Cadmium | ND | .05 | .01 |
| Chromium | .203 | .1 | .03 |
| Silver | ND | .1 | .055 |

TCLP EXTRACTION DATE: 12/08/04 12:00

METHOD 1311/3010A/6010B
TCLP METALS BY TRACE ICP

=====
Client : SHAW E&I Date Collected: 12/07/04
Project : FORT MCCLELLAN Date Received: 12/08/04
SDG NO. : 04L057 Date Extracted: 12/09/04 09:00
Sample ID: SN1007 Date Analyzed: 12/09/04 17:49
Lab Samp ID: L057-01 Dilution Factor: 5
Lab File ID: I31L012023 Matrix : WATER
Ext Btch ID: IPL017W % Moisture : NA
Calib. Ref.: I31L012020 Instrument ID : EMAXT131
=====

| PARAMETERS | RESULTS | RL | MDL |
|------------|---------|--------|--------|
| ----- | (mg/L) | (mg/L) | (mg/L) |
| Arsenic | ND | .05 | .02 |
| Lead | ND | .05 | .01 |
| Selenium | ND | .05 | .025 |

TCLP EXTRACTION DATE: 12/08/04 12:00

METHOD 1311/7470A
TCLP MERCURY

Client : SHAW E&I
Project : FORT MCCLELLAN
Batch No. : 04L057

Matrix : WATER
Instrument ID : T1047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/L) | DLF | MOIST | RL (ug/L) | MDL (ug/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|-----------|-------------------|-------------------|-----|-------|--------------|---------------|----------------------|------------------------|------------|------------|------------|------------------------|----------------------|
| MBLK1W | HGL010WB | ND | 1 | NA | .5 | .15 | 12/10/0414:18 | 12/09/0414:00 | M47L011010 | M47L011008 | HGL010W | NA | 12/09/04 |
| LCS1W | HGL010WL | 4.99 | 1 | NA | .5 | .15 | 12/10/0414:20 | 12/09/0414:00 | M47L011011 | M47L011008 | HGL010W | NA | 12/09/04 |
| LCD1W | HGL010WC | 4.94 | 1 | NA | .5 | .15 | 12/10/0414:22 | 12/09/0414:00 | M47L011012 | M47L011008 | HGL010W | NA | 12/09/04 |
| MBLK1S | TXL001SB | ND | 10 | NA | 5 | 1.5 | 12/10/0415:12 | 12/09/0414:00 | M47L011035 | M47L011032 | HGL010W | NA | 12/08/04 |
| SN1007AS | L057-01A | 20.1 | 10 | NA | 5 | 1.5 | 12/10/0415:15 | 12/09/0414:00 | M47L011036 | M47L011032 | HGL010W | 12/07/04 | 12/08/04 |
| SN1007 | L057-01 | ND | 10 | NA | 5 | 1.5 | 12/10/0415:17 | 12/09/0414:00 | M47L011037 | M47L011032 | HGL010W | 12/07/04 | 12/08/04 |
| SN1007DL | L057-01T | ND | 50 | NA | 25 | 7.5 | 12/10/0415:19 | 12/09/0414:00 | M47L011038 | M47L011032 | HGL010W | 12/07/04 | 12/08/04 |
| SN1007MS | L057-01M | 48.1 | 10 | NA | 5 | 1.5 | 12/10/0415:21 | 12/09/0414:00 | M47L011039 | M47L011032 | HGL010W | 12/07/04 | 12/08/04 |
| SN1007MSD | L057-01S | 47.7 | 10 | NA | 5 | 1.5 | 12/10/0415:23 | 12/09/0414:00 | M47L011040 | M47L011032 | HGL010W | 12/07/04 | 12/08/04 |

RL: Reporting Limit
TCLP Extraction Date: 12/08/04 12:00



LABORATORIES, INC.

1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 12-23-2004
Client SDG.: IMR-008
EMAX Batch No.: 04L101

Attn: Randy McBride

Shaw E&I
312 Directors Dr.
Knoxville TN 37923-4799

Subject: Laboratory Report
Project: Fort McClellan

Enclosed is the Laboratory report for samples received on
12/14/04. The data reported include :

| Sample ID | Control # | Col Date | Matrix | Analysis |
|-----------|-----------|----------|--------|-----------------------------|
| SN1008 | L101-01 | 12/13/04 | SOIL | METALS TCLP MERCURY TCLP |

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning
these results.

Sincerely yours,

Kam Y. Pang, Ph.D.
Laboratory Director

REPORTING CONVENTIONS

DATA QUALIFIERS:

| Lab Qualifier | AFCEE Qualifier | Description |
|---------------|-----------------|--|
| J | F | Indicates that the analyte is positively identified and the result is less than RL but greater than MDL. |
| N | | Indicates presumptive evidence of a compound. |
| B | B | Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level. |
| E | J | Indicates that the result is above the maximum calibration range. |
| * | * | Out of QC limit. |

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

| | |
|------|-----------------------------------|
| CRDL | Contract Required Detection Limit |
| RL | Reporting Limit |
| MRL | Method Reporting Limit |
| PQL | Practical Quantitation Limit |
| MDL | Method Detection Limit |
| DO | Diluted out |

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

LABORATORY REPORT FOR

SHAW E&I

FORT MCCLELLAN

METHOD 1311/3010A/6010B
TCLP METALS BY ICP

CLIENT SDG#: IMR- 008

EMAX SDG#: 04L101

7000

CASE NARRATIVE

CLIENT: SHAW E&I
CLIENT SDG: IMR - 008
PROJECT: FORT MCCLELLAN
EMAX SDG: 04L101

METHOD 1311/3010A/6010B TCLP METALS BY ICP

One (1) soil sample was received on 12/14/04 for TCLP Metals analysis by Method 1311/3010A/6010B in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW846, 3rd edition.

1. Holding Time
Analysis met holding time criteria.
2. Method Blank
Method blanks were free of contamination at the reporting limit.
3. Lab Control Sample/Lab Control Sample Duplicate
Lab control results were within QC limit.
4. Serial Dilution / Post-Analytical Spike
Sample L101-01 was analyzed for serial dilution and post-analytical spike. All QC requirements were met.
5. Matrix Spike/Matrix Spike Duplicate
Sample L101-01 was spiked. Recoveries were within QC limit.
6. Sample Analysis
Sample was analyzed according to the prescribed QC procedure. All criteria were met.

METHOD 1311/3010A/6010B
TCLP METALS BY ICP

=====
Client : SHAW E&I Date Collected: 12/13/04
Project : FORT MCCLELLAN Date Received: 12/14/04
SDG NO. : 04L101 Date Extracted: 12/15/04 10:00
Sample ID: SN1008 Date Analyzed: 12/16/04 13:38
Lab Samp ID: L101-01 Dilution Factor: 5
Lab File ID: I73L007017 Matrix : WATER
Ext Btch ID: IPL030W % Moisture : NA
Calib. Ref.: I73L007009 Instrument ID : EMAXTI73
=====

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|------------|-------------------|--------------|---------------|
| Arsenic | ND | .05 | .0145 |
| Barium | 1.01 | .05 | .005 |
| Cadmium | ND | .05 | .008 |
| Chromium | .156 | .1 | .022 |
| Lead | .144 | .05 | .011 |
| Seelenium | ND | .05 | .0255 |
| Silver | ND | .1 | .042 |

TCLP EXTRACTION DATE: 12/14/04 13:00

METHOD 1311/3010A/6010B
TCLP METALS BY ICP

```
=====
Client   : SHAW E&I           Date Collected: NA
Project  : FORT MCCLELLAN     Date Received: 12/15/04
SDG NO. : 04L101             Date Extracted: 12/15/04 10:00
Sample ID: MBLK1S            Date Analyzed: 12/16/04 13:50
Lab Samp ID: TXL002SB        Dilution Factor: 5
Lab File ID: I73L007019      Matrix : WATER
Ext Btch ID: IPL030W         % Moisture : NA
Calib. Ref.: I73L007009      Instrument ID : EMAXTI73
=====
```

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|------------|-------------------|--------------|---------------|
| Arsenic | ND | .05 | .0145 |
| Barium | ND | .05 | .005 |
| Cadmium | ND | .05 | .008 |
| Chromium | ND | .1 | .022 |
| Lead | ND | .05 | .011 |
| Selenium | ND | .05 | .0255 |
| Silver | ND | .1 | .042 |

TCLP EXTRACTION DATE: 12/14/04 13:00

METHOD 1311/3010A/6010B
 TCLP METALS BY ICP

```

=====
Client      : SHAW E&I                      Date Collected: NA
Project     : FORT MCCLELLAN                Date Received: 12/15/04
SDG NO.    : 04L101                         Date Extracted: 12/15/04 10:00
Sample ID   : MBLK1W                         Date Analyzed: 12/16/04 12:59
Lab Samp ID: IPL030WB                       Dilution Factor: 1
Lab File ID: 173L007011                     Matrix          : WATER
Exp Btch ID: IPL030W                         % Moisture     : NA
Carib. Ref.: 173L007009                     Instrument ID  : EMAXT173
=====
  
```

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|------------|-------------------|--------------|---------------|
| Arsonic | ND | .01 | .0029 |
| Barium | ND | .01 | .001 |
| Cadmium | ND | .01 | .0016 |
| Chromium | ND | .02 | .0044 |
| Copper | ND | .01 | .0022 |
| Lead | ND | .01 | .0051 |
| Manganese | ND | .02 | .0084 |

CASE NARRATIVE

CLIENT: SHAW E&I
CLIENT SDG: IMR - 008
PROJECT: FORT MCCLELLAN
EMAX SDG: 04L101

METHOD 1311/7470A TCLP MERCURY

One (1) soil sample was received on 12/14/04 for TCLP Mercury analysis by Method 7470A in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW846, 3rd edition.

1. Holding Time
Analysis met holding time criteria.
2. Method Blank
Method blanks were free of contamination at the reporting limit.
3. Lab Control Sample/Lab Control Sample Duplicate
Lab control results were within QC limit.
4. Serial Dilution / Post-Analytical Spike
Sample L101-01 was analyzed for serial dilution and post-analytical spike. All QC requirements were met.
5. Matrix Spike/Matrix Spike Duplicate
Sample L101-01 was spiked. All recoveries were within QC limit.
6. Sample Analysis
Sample was analyzed according to the prescribed QC procedures. All criteria were met.

METHOD 1311/7470A
TCLP MERCURY

Client : SHAW E&I
Project : FORT MCCLELLAN
Batch No. : 04L101

Matrix : WATER
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/L) | DLF | MOIST | RL (ug/L) | MDL (ug/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|-----------|-------------------|-------------------|-----|-------|--------------|---------------|----------------------|------------------------|------------|------------|------------|------------------------|----------------------|
| MBLK1W | HGL018WB | ND | 1 | NA | .5 | .15 | 12/16/0417:11 | 12/15/0415:30 | M47L019010 | M47L019008 | HGL018W | NA | 12/15/04 |
| LCS1W | HGL018WL | 5.09 | 1 | NA | .5 | .15 | 12/16/0417:14 | 12/15/0415:30 | M47L019011 | M47L019008 | HGL018W | NA | 12/15/04 |
| LCD1W | HGL018WC | 5.13 | 1 | NA | .5 | .15 | 12/16/0417:16 | 12/15/0415:30 | M47L019012 | M47L019008 | HGL018W | NA | 12/15/04 |
| MBLK1S | TXL002SB | ND | 1 | NA | .5 | .15 | 12/16/0417:58 | 12/15/0415:30 | M47L019031 | M47L019020 | HGL018W | NA | 12/14/04 |
| SN1008AS | L101-01A | 19.7 | 10 | NA | 5 | 1.5 | 12/16/0418:05 | 12/15/0415:30 | M47L019034 | M47L019032 | HGL018W | 12/13/04 | 12/14/04 |
| SN1008 | L101-01 | ND | 10 | NA | 5 | 1.5 | 12/16/0418:07 | 12/15/0415:30 | M47L019035 | M47L019032 | HGL018W | 12/13/04 | 12/14/04 |
| SN1008DL | L101-01T | ND | 50 | NA | 25 | 7.5 | 12/16/0418:09 | 12/15/0415:30 | M47L019036 | M47L019032 | HGL018W | 12/13/04 | 12/14/04 |
| SN1008MS | L101-01M | 51 | 10 | NA | 5 | 1.5 | 12/16/0418:11 | 12/15/0415:30 | M47L019037 | M47L019032 | HGL018W | 12/13/04 | 12/14/04 |
| SN1008MSD | L101-01S | 50.8 | 10 | NA | 5 | 1.5 | 12/16/0418:14 | 12/15/0415:30 | M47L019038 | M47L019032 | HGL018W | 12/13/04 | 12/14/04 |

RL: Reporting Limit

TCLP Extraction Date: 12/14/04 13:00

7060



LABORATORIES, INC.

1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 01-10-2005
Client SDG.: IMR-009
EMAX Batch No.: 05A020

Attn: Randy McBride

Shaw E&I
312 Directors Dr.
Knoxville TN 37923-4799

Subject: Laboratory Report
Project: Fort McClellan

Enclosed is the Laboratory report for samples received on
01/06/05. The data reported include :

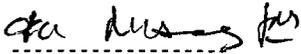
| Sample ID | Control # | Col Date | Matrix | Analysis |
|-----------|-----------|----------|--------|----------|
| SN0051 | A020-01 | 12/15/04 | SOIL | LEAD |
| SN0052 | A020-02 | 01/04/05 | SOIL | LEAD |
| SN0053 | A020-03 | 01/04/05 | SOIL | LEAD |
| SN0054 | A020-04 | 01/04/05 | SOIL | LEAD |
| SN0055 | A020-05 | 01/04/05 | SOIL | LEAD |
| SN0056 | A020-06 | 01/04/05 | SOIL | LEAD |
| SN0057 | A020-07 | 01/04/05 | SOIL | LEAD |
| SN0058 | A020-08 | 01/04/05 | SOIL | LEAD |
| SN0059 | A020-09 | 01/04/05 | SOIL | LEAD |
| SN0060 | A020-10 | 01/04/05 | SOIL | LEAD |
| SN0061 | A020-11 | 01/04/05 | SOIL | LEAD |
| SN0062 | A020-12 | 01/04/05 | SOIL | LEAD |
| SN0063 | A020-13 | 01/05/05 | SOIL | LEAD |
| SN0064 | A020-14 | 01/05/05 | SOIL | LEAD |
| SN0065 | A020-15 | 01/05/05 | SOIL | LEAD |
| SN0066 | A020-16 | 01/05/05 | SOIL | LEAD |
| SN0067 | A020-17 | 01/05/05 | SOIL | LEAD |
| SN0068 | A020-18 | 01/05/05 | SOIL | LEAD |
| SN0069 | A020-19 | 01/05/05 | SOIL | LEAD |

| Sample ID | Control # | Col Date | Matrix | Analysis |
|-----------|-----------|----------|--------|----------|
| SN0059MS | A020-09M | 01/04/05 | SOIL | LEAD |
| SN0059MSD | A020-09S | 01/04/05 | SOIL | LEAD |

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,



Kam Y. Pang, Ph.D.
Laboratory Director

REPORTING CONVENTIONS

DATA QUALIFIERS:

| Lab Qualifier | AFCEE Qualifier | Description |
|---------------|-----------------|--|
| J | F | Indicates that the analyte is positively identified and the result is less than RL but greater than MDL. |
| N | | Indicates presumptive evidence of a compound. |
| B | B | Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level. |
| E | J | Indicates that the result is above the maximum calibration range. |
| * | * | Out of QC limit. |

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

| | |
|------|-----------------------------------|
| CRDL | Contract Required Detection Limit |
| RL | Reporting Limit |
| MRL | Method Reporting Limit |
| PQL | Practical Quantitation Limit |
| MDL | Method Detection Limit |
| DO | Diluted out |

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

RESULT SUMMARIES

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client : SHAW E&I
Project : FORT MCCLELLAN
Batch No. : 05A020

Matrix : SOIL
Instrument ID : T-131

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | RL | | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection | | Received DATETIME |
|-----------|-------------------|--------------------|-----|-------|----------------|----------------------|------------------------|---------------|------------|------------|------------|----------|----------------------|
| | | | DLF | MOIST | | | | | | | DATETIME | DATETIME | |
| MBLK1S | IPA011SB | ND | 1 | NA | 1 | .2 | 01/07/0511:41 | 01/06/0510:15 | I31A003012 | I31A003010 | IPA011S | NA | 01/06/05 |
| LCS1S | IPA011SL | 97.1 | 1 | NA | 1 | .2 | 01/07/0511:46 | 01/06/0510:15 | I31A003013 | I31A003010 | IPA011S | NA | 01/06/05 |
| LCD1S | IPA011SC | 101 | 1 | NA | 1 | .2 | 01/07/0511:51 | 01/06/0510:15 | I31A003014 | I31A003010 | IPA011S | NA | 01/06/05 |
| SN0051 | A020-01 | 90.5 | 1 | 19.4 | 1.24 | .248 | 01/07/0511:57 | 01/06/0510:15 | I31A003015 | I31A003010 | IPA011S | 12/15/04 | 01/06/05 |
| SN0052 | A020-02 | 232 | 1 | 11.2 | 1.13 | .225 | 01/07/0512:02 | 01/06/0510:15 | I31A003016 | I31A003010 | IPA011S | 01/04/05 | 01/06/05 |
| SN0053 | A020-03 | 5650 | 1 | 12.4 | 1.14 | .228 | 01/07/0512:07 | 01/06/0510:15 | I31A003017 | I31A003010 | IPA011S | 01/04/05 | 01/06/05 |
| SN0054 | A020-04 | 1650 | 1 | 13.3 | 1.15 | .231 | 01/07/0512:12 | 01/06/0510:15 | I31A003018 | I31A003010 | IPA011S | 01/04/05 | 01/06/05 |
| SN0055 | A020-05 | 1330 | 1 | 13.2 | 1.15 | .23 | 01/07/0512:17 | 01/06/0510:15 | I31A003019 | I31A003010 | IPA011S | 01/04/05 | 01/06/05 |
| SN0056 | A020-06 | 2990 | 1 | 9.6 | 1.11 | .221 | 01/07/0512:22 | 01/06/0510:15 | I31A003020 | I31A003010 | IPA011S | 01/04/05 | 01/06/05 |
| SN0057 | A020-07 | 294 | 1 | 13.2 | 1.15 | .23 | 01/07/0512:27 | 01/06/0510:15 | I31A003021 | I31A003010 | IPA011S | 01/04/05 | 01/06/05 |
| SN0058 | A020-08 | 1020 | 1 | 12.9 | 1.15 | .23 | 01/07/0512:41 | 01/06/0510:15 | I31A003024 | I31A003022 | IPA011S | 01/04/05 | 01/06/05 |
| SN0059 | A020-09 | 65.9 | 1 | 12.2 | 1.14 | .228 | 01/07/0512:46 | 01/06/0510:15 | I31A003025 | I31A003022 | IPA011S | 01/04/05 | 01/06/05 |
| SN0059DL | A020-09T | 67.6 | 5 | 12.2 | 5.69 | 1.14 | 01/07/0512:51 | 01/06/0510:15 | I31A003026 | I31A003022 | IPA011S | 01/04/05 | 01/06/05 |
| SN0059AS | A020-09A | 169 | 1 | 12.2 | 1.14 | .228 | 01/07/0512:56 | 01/06/0510:15 | I31A003027 | I31A003022 | IPA011S | 01/04/05 | 01/06/05 |
| SN0059MS | A020-09M | 164 | 1 | 12.2 | 1.14 | .228 | 01/07/0513:01 | 01/06/0510:15 | I31A003028 | I31A003022 | IPA011S | 01/04/05 | 01/06/05 |
| SN0059MSD | A020-09S | 165 | 1 | 12.2 | 1.14 | .228 | 01/07/0513:06 | 01/06/0510:15 | I31A003029 | I31A003022 | IPA011S | 01/04/05 | 01/06/05 |
| SN0060 | A020-10 | 489 | 1 | 12.4 | 1.14 | .228 | 01/07/0513:12 | 01/06/0510:15 | I31A003030 | I31A003022 | IPA011S | 01/04/05 | 01/06/05 |
| SN0061 | A020-11 | 2120 | 1 | 10.8 | 1.12 | .224 | 01/07/0513:17 | 01/06/0510:15 | I31A003031 | I31A003022 | IPA011S | 01/04/05 | 01/06/05 |
| SN0062 | A020-12 | 61.8 | 1 | 11.1 | 1.12 | .225 | 01/07/0513:22 | 01/06/0510:15 | I31A003032 | I31A003022 | IPA011S | 01/04/05 | 01/06/05 |
| SN0063 | A020-13 | 718 | 1 | 13.0 | 1.15 | .23 | 01/07/0513:27 | 01/06/0510:15 | I31A003033 | I31A003022 | IPA011S | 01/05/05 | 01/06/05 |
| SN0064 | A020-14 | 905 | 1 | 12.6 | 1.14 | .229 | 01/07/0513:43 | 01/06/0510:15 | I31A003036 | I31A003034 | IPA011S | 01/05/05 | 01/06/05 |
| SN0065 | A020-15 | 880 | 1 | 12.7 | 1.15 | .229 | 01/07/0513:48 | 01/06/0510:15 | I31A003037 | I31A003034 | IPA011S | 01/05/05 | 01/06/05 |
| SN0066 | A020-16 | 577 | 1 | 8.3 | 1.09 | .218 | 01/07/0513:53 | 01/06/0510:15 | I31A003038 | I31A003034 | IPA011S | 01/05/05 | 01/06/05 |
| SN0067 | A020-17 | 193 | 1 | 12.7 | 1.15 | .229 | 01/07/0513:58 | 01/06/0510:15 | I31A003039 | I31A003034 | IPA011S | 01/05/05 | 01/06/05 |
| SN0068 | A020-18 | 838 | 1 | 12.5 | 1.14 | .229 | 01/07/0514:03 | 01/06/0510:15 | I31A003040 | I31A003034 | IPA011S | 01/05/05 | 01/06/05 |
| SN0069 | A020-19 | 857 | 1 | 11.9 | 1.14 | .227 | 01/07/0514:08 | 01/06/0510:15 | I31A003041 | I31A003034 | IPA011S | 01/05/05 | 01/06/05 |

RL: Reporting Limit

1008



LABORATORIES, INC.

1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 03-11-2005
Client SDG.: IMR-010
EMAX Batch No.: 05C009

Attn: Randy McBride

Shaw E&I
312 Directors Dr.
Knoxville TN 37923-4799

Subject: Laboratory Report
Project: Fort McClellan

Enclosed is the Laboratory report for samples received on
03/02/05. The data reported include :

| Sample ID | Control # | Col Date | Matrix | Analysis |
|-----------|-----------|----------|--------|-----------------------------|
| SN0070 | C009-01 | 02/24/05 | SOIL | LEAD |
| SN0071 | C009-02 | 02/23/05 | SOIL | LEAD |
| SN0072 | C009-03 | 02/23/05 | SOIL | LEAD |
| SN0073 | C009-04 | 02/23/05 | SOIL | LEAD |
| SN0074 | C009-05 | 02/23/05 | SOIL | LEAD |
| SN0075 | C009-06 | 02/23/05 | SOIL | LEAD |
| SN1009 | C009-07 | 02/24/05 | SOIL | METALS TCLP MERCURY TCLP |

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning
these results.

Sincerely yours,

Kam Y. Pang, Ph.D.
Laboratory Director

REPORTING CONVENTIONS

DATA QUALIFIERS:

| Lab Qualifier | AFCEE Qualifier | Description |
|---------------|-----------------|--|
| J | F | Indicates that the analyte is positively identified and the result is less than RL but greater than MDL. |
| N | | Indicates presumptive evidence of a compound. |
| B | B | Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level. |
| E | J | Indicates that the result is above the maximum calibration range. |
| * | * | Out of QC limit. |

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

| | |
|------|-----------------------------------|
| CRDL | Contract Required Detection Limit |
| RL | Reporting Limit |
| MRL | Method Reporting Limit |
| PQL | Practical Quantitation Limit |
| MDL | Method Detection Limit |
| DO | Diluted out |

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

CASE NARRATIVE

CLIENT: SHAW E&I
PROJECT: FORT MCCLELLAN
CLIENT SDG: IMR-010
EMAX SDG: 05C009

METHOD 3050B/6010B LEAD BY TRACE ICP

Seven (7) soil samples were received on 03/02/05 for Lead analysis by Method 3050B/6010B in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW846, 3rd edition.

1. Holding Time

Analysis met holding time criteria.

2. Method Blank

Method blank was free of contamination at the reporting limit.

3. Lab Control Sample/Lab Control Sample Duplicate

Lab control results were within QC limit.

4. Serial Dilution / Post-Analytical Spike

Sample C130-03 from another SDG was analyzed for serial dilution and post-analytical spike. All QC requirements were met.

5. Matrix Spike/Matrix Spike Duplicate

MS/MSD sample was not designated in this SDG.

6. Sample Analysis

Samples were analyzed according to the prescribed QC procedure. All criteria were met.

CASE NARRATIVE

CLIENT: SHAW E&I
PROJECT: FORT MCCLELLAN
CLIENT SDG: IMR-010
EMAX SDG: 05C009

METHOD 1311/3010A/6010B TCLP METALS BY ICP

One (1) soil sample was received on 03/02/05 for TCLP Metals analysis by Method 1311/3010A/6010B in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW846, 3rd edition.

1. Holding Time

Analysis met holding time criteria.

2. Method Blank

Method blanks were free of contamination at the reporting limit.

3. Lab Control Sample/Lab Control Sample Duplicate

Lab control results were within QC limit.

4. Serial Dilution / Post-Analytical Spike

Sample B148-27 from another SDG was analyzed for serial dilution and post-analytical spike. All QC requirements were met.

5. Matrix Spike/Matrix Spike Duplicate

Sample C009-07 was spiked. Recoveries were within QC limit.

6. Sample Analysis

Sample was analyzed according to the prescribed QC procedure. All criteria were met.

CASE NARRATIVE

CLIENT: SHAW E&I
PROJECT: FORT MCCLELLAN
CLIENT SDG: IMR-010
EMAX SDG: 05C009

METHOD 1311/7470A TCLP MERCURY BY COLD VAPOR

One (1) soil sample was received on 03/02/05 for TCLP Mercury analysis by Method 1311/7470A in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW846, 3rd edition.

1. Holding Time

Analysis met holding time criteria.

2. Method Blank

Method blanks were free of contamination at the reporting limit.

3. Lab Control Sample/Lab Control Sample Duplicate

Lab control results were within QC limit.

4. Serial Dilution / Post-Analytical Spike

Sample C009-07 was analyzed for serial dilution and post-analytical spike. All QC requirements were met.

5. Matrix Spike/Matrix Spike Duplicate

Sample C009-07 was spiked. All recoveries were within QC limit.

6. Sample Analysis

Sample was analyzed according to the prescribed QC procedures. All criteria were met.

RESULT SUMMARIES

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client : SHAW E&I
Project : FORT MCCLELLAN
Batch No. : 05C009

Matrix : SOIL
Instrument ID : T-131

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF MOIST | | RL | MDL | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|-----------|-------------------|--------------------|-----------|---------|---------|---------|----------------------|------------------------|------------|------------|------------|------------------------|----------------------|
| | | | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | | | | | | | |
| MBLK1S | IPC005SB | ND | 1 | NA | 1 | .2 | 03/03/0518:08 | 03/02/0511:35 | I31C012010 | I31C012008 | IPC005S | NA | 03/02/05 |
| LCS1S | IPC005SL | 89.6 | 1 | NA | 1 | .2 | 03/03/0518:13 | 03/02/0511:35 | I31C012011 | I31C012008 | IPC005S | NA | 03/02/05 |
| LCD1S | IPC005SC | 87.9 | 1 | NA | 1 | .2 | 03/03/0518:17 | 03/02/0511:35 | I31C012012 | I31C012008 | IPC005S | NA | 03/02/05 |
| SN0070 | C009-01 | 503 | 1 | 12.7 | 1.15 | .229 | 03/03/0519:53 | 03/02/0511:35 | I31C012031 | I31C012020 | IPC005S | 02/24/05 | 03/02/05 |
| SN0071 | C009-02 | 532 | 1 | 12.5 | 1.14 | .229 | 03/04/0514:36 | 03/02/0511:35 | I31C010064 | I31C010056 | IPC005S | 02/23/05 | 03/02/05 |
| SN0072 | C009-03 | 4450 | 1 | 12.8 | 1.15 | .229 | 03/04/0514:41 | 03/02/0511:35 | I31C010065 | I31C010056 | IPC005S | 02/23/05 | 03/02/05 |
| SN0073 | C009-04 | 55.5 | 1 | 14.2 | 1.17 | .233 | 03/04/0514:46 | 03/02/0511:35 | I31C010066 | I31C010056 | IPC005S | 02/23/05 | 03/02/05 |
| SN0074 | C009-05 | 44.6 | 1 | 13.3 | 1.15 | .231 | 03/04/0514:51 | 03/02/0511:35 | I31C010067 | I31C010056 | IPC005S | 02/23/05 | 03/02/05 |
| SN0075 | C009-06 | 66.3 | 1 | 14.3 | 1.17 | .233 | 03/04/0515:07 | 03/02/0511:35 | I31C010070 | I31C010068 | IPC005S | 02/23/05 | 03/02/05 |

RL: Reporting Limit

1009

METHOD 1311/3010A/6010B
TCLP METALS BY ICP

```
=====
Client      : SHAW E&I                Date Collected: 02/24/05
Project     : FORT MCCLELLAN          Date Received: 03/02/05
SDG NO.    : 05C009                  Date Extracted: 03/03/05 11:35
Sample ID   : SN1009                  Date Analyzed: 03/04/05 14:54
Lab Samp ID: C009-07                  Dilution Factor: 5
Lab File ID: I07C015016               Matrix          : WATER
Ext Btch ID: IPC007W                  % Moisture      : NA
Calib. Ref.: I07C015008               Instrument ID   : EMAXTI07
=====
```

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|------------|-------------------|--------------|---------------|
| Barium | .594 | .05 | .01 |
| Cadmium | ND | .05 | .01 |
| Chromium | .113 | .1 | .03 |
| Silver | ND | .1 | .055 |

TCLP EXTRACTION DATE: 03/02/05 15:30

METHOD 1311/3010A/6010B
TCLP METALS BY TRACE ICP

```
=====
Client      : SHAW E&I                Date Collected: 02/24/05
Project     : FORT MCCLELLAN          Date Received: 03/02/05
SDG NO.    : 05C009                  Date Extracted: 03/03/05 11:35
Sample ID   : SN1009                  Date Analyzed: 03/04/05 14:16
Lab Samp ID: C009-07                  Dilution Factor: 5
Lab File ID: I31C010061               Matrix          : WATER
Ext Btch ID: IPC007W                  % Moisture      : NA
Calib. Ref.: I31C010056               Instrument ID   : EMAXTI31
=====
```

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|------------|-------------------|--------------|---------------|
| Arsenic | .0253J | .05 | .02 |
| Lead | .0758 | .05 | .01 |
| Selenium | ND | .05 | .025 |

TCLP EXTRACTION DATE: 03/02/05 15:30

METHOD 1311/7470A
TCLP MERCURY

Client : SHAW E&I
Project : FORT MCCLELLAN
Batch No. : 05C009

Matrix : WATER
Instrument ID : T1047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/L) | DLF | MOIST | RL (ug/L) | MDL (ug/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|-----------|-------------------|-------------------|-----|-------|--------------|---------------|----------------------|------------------------|------------|------------|------------|------------------------|----------------------|
| MBLK1W | HGC003WB | ND | 1 | NA | .5 | .15 | 03/04/0515:50 | 03/03/0515:30 | M47C004010 | M47C004008 | HGC003W | NA | 03/03/05 |
| LCS1W | HGC003WL | 5.1 | 1 | NA | .5 | .15 | 03/04/0515:52 | 03/03/0515:30 | M47C004011 | M47C004008 | HGC003W | NA | 03/03/05 |
| LCD1W | HGC003WC | 5.06 | 1 | NA | .5 | .15 | 03/04/0515:55 | 03/03/0515:30 | M47C004012 | M47C004008 | HGC003W | NA | 03/03/05 |
| SN1009AS | C009-07A | 21.7 | 10 | NA | 5 | 1.5 | 03/04/0517:03 | 03/03/0515:30 | M47C004041 | M47C004034 | HGC003W | 02/24/05 | 03/02/05 |
| SN1009 | C009-07 | ND | 10 | NA | 5 | 1.5 | 03/04/0517:05 | 03/03/0515:30 | M47C004042 | M47C004034 | HGC003W | 02/24/05 | 03/02/05 |
| SN1009DL | C009-07T | ND | 50 | NA | 25 | 7.5 | 03/04/0517:07 | 03/03/0515:30 | M47C004043 | M47C004034 | HGC003W | 02/24/05 | 03/02/05 |
| SN1009MS | C009-07M | 44.3 | 10 | NA | 5 | 1.5 | 03/04/0517:10 | 03/03/0515:30 | M47C004044 | M47C004034 | HGC003W | 02/24/05 | 03/02/05 |
| SN1009MSD | C009-07S | 45.1 | 10 | NA | 5 | 1.5 | 03/04/0517:12 | 03/03/0515:30 | M47C004045 | M47C004034 | HGC003W | 02/24/05 | 03/02/05 |
| MELK1S | TXC003SB | ND | 10 | NA | 5 | 1.5 | 03/04/0517:33 | 03/03/0515:30 | M47C004054 | M47C004046 | HGC003W | NA | 03/02/05 |

RL: Reporting Limit

TCLP Extraction Date: 03/02/05 15:30

1012



LABORATORIES, INC.

1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 02-16-2006
Client SDG: R12(EC)-01
EMAX Batch No.: 06B008

Attn: Randy McBride

Shaw E&I
312 Directors Dr.
Knoxville TN 37923-4799

Subject: Laboratory Report
Project: Fort McClellan

Enclosed is the Laboratory report for samples received on 02/02/06.
The data reported include :

| Sample ID | Control # | Col Date | Matrix | Analysis |
|-----------|-----------|----------|--------|-----------------------------|
| SN0076 | B008-01 | 02/01/06 | SOIL | LEAD |
| SN0077 | B008-02 | 02/01/06 | SOIL | LEAD |
| SN1010 | B008-03 | 02/01/06 | SOIL | METALS TCLP MERCURY TCLP |

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Kam Y. Pang, Ph.D.
Laboratory Director

REPORTING CONVENTIONS

DATA QUALIFIERS:

| Lab Qualifier | AFCEE Qualifier | Description |
|---------------|-----------------|--|
| J | F | Indicates that the analyte is positively identified and the result is less than RL but greater than MDL. |
| N | | Indicates presumptive evidence of a compound. |
| B | B | Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level. |
| E | J | Indicates that the result is above the maximum calibration range. |
| * | * | Out of QC limit. |

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

| | |
|------|-----------------------------------|
| CRDL | Contract Required Detection Limit |
| RL | Reporting Limit |
| MRL | Method Reporting Limit |
| PQL | Practical Quantitation Limit |
| MDL | Method Detection Limit |
| DO | Diluted out |

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

CASE NARRATIVE

CLIENT: SHAW E&I
PROJECT: FORT MCCLELLAN
CLIENT SDG: R12(EC)-01
EMAX SDG: 06B008

METHOD 3050B/6010B LEAD BY TRACE ICP

Two (2) soil samples were received on 02/02/06 for Lead analysis by Method 3050B/6010B in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW846, 3rd edition.

1. Holding Time

Analysis met holding time criteria.

2. Method Blank

Method blank was free of contamination at the reporting limit.

3. Lab Control Sample/Lab Control Sample Duplicate

Lab control results were within QC limit.

4. Serial Dilution

Sample B008-01 was analyzed for serial dilution. All QC requirements were met.

5. Matrix Spike/Matrix Spike Duplicate

No MS/MSD sample was designated in this SDG.

6. Sample Analysis

Samples were analyzed according to the prescribed QC procedures. All criteria were met.

CASE NARRATIVE

CLIENT: SHAW E&I
PROJECT: FORT MCCLELLAN
CLIENT SDG: R12(EC)-01
EMAX SDG: 06B008

METHOD 1311/3010A/6010B TCLP METALS BY ICP

One (1) soil sample was received on 02/02/06 for TCLP Metals analysis by Method 1311/3010A/6010B in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW846, 3rd edition.

1. Holding Time

Analysis met holding time criteria.

2. Method Blank

Method blanks were free of contamination at the reporting limit.

3. Lab Control Sample/Lab Control Sample Duplicate

Lab control results were within QC limit.

4. Serial Dilution / Post-Analytical Spike

Sample B008-03 was analyzed for serial dilution and post-analytical spike. All QC requirements were met.

5. Matrix Spike/Matrix Spike Duplicate

Sample B008-03 was spiked. All recoveries were within QC limit.

6. Sample Analysis

Sample was analyzed according to the prescribed QC procedures. All criteria were met.

CASE NARRATIVE

CLIENT: SHAW E&I
PROJECT: FORT MCCLELLAN
CLIENT SDG: R12(EC)-01
EMAX SDG: 06B008

METHOD 1311/7470A TCLP MERCURY BY COLD VAPOR

One (1) soil sample was received on 02/02/06 for TCLP Mercury analysis by Method 1311/7470A in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW846, 3rd edition.

1. Holding Time

Analysis met holding time criteria.

2. Method Blank

Method blanks were free of contamination at the reporting limit.

3. Lab Control Sample/Lab Control Sample Duplicate

Lab control results were within QC limit.

4. Serial Dilution / Post-Analytical Spike

Sample B008-03 was analyzed for serial dilution and post-analytical spike. All QC requirements were met.

5. Matrix Spike/Matrix Spike Duplicate

Sample B008-03 was spiked. All recoveries were within QC limit.

6. Sample Analysis

Sample was analyzed according to the prescribed QC procedures. All criteria were met.

RESULT SUMMARIES

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client : SHAW E&I
Project : FORT MCCLELLAN
Batch No. : 06B008

Matrix : SOIL
Instrument ID : T-173

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | RL | | | MDL (mg/kg) | Analysis DATETIME | Extraction | | | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|-----------|-------------------|--------------------|-----|-------|---------|----------------|----------------------|---------------|------------|------------|---------|------------|------------------------|----------------------|
| | | | DLF | MOIST | (mg/kg) | | | DATETIME | DATETIME | LFID | | | | |
| MBLK1S | IPB002SB | ND | 1 | NA | 1 | .2 | 02/02/0620:09 | 02/02/0611:00 | 1738003027 | 1738003021 | IPB002S | NA | 02/02/06 | |
| LCS1S | IPB002SL | 98.8 | 1 | NA | 1 | .2 | 02/02/0620:16 | 02/02/0611:00 | 1738003028 | 1738003021 | IPB002S | NA | 02/02/06 | |
| LCD1S | IPB002SC | 99.8 | 1 | NA | 1 | .2 | 02/02/0620:22 | 02/02/0611:00 | 1738003029 | 1738003021 | IPB002S | NA | 02/02/06 | |
| SN0076 | B008-01 | 538 | 1 | 12.6 | 1.14 | .229 | 02/02/0620:36 | 02/02/0611:00 | 1738003031 | 1738003021 | IPB002S | 02/01/06 | 02/02/06 | |
| SN0076DL | B008-01J | 559 | 5 | 12.6 | 5.72 | 1.14 | 02/02/0620:42 | 02/02/0611:00 | 1738003032 | 1738003021 | IPB002S | 02/01/06 | 02/02/06 | |
| SN0077 | B008-02 | 446 | 1 | 14.1 | 1.16 | .233 | 02/02/0621:00 | 02/02/0611:00 | 1738003035 | 1738003033 | IPB002S | 02/01/06 | 02/02/06 | |

RL: Reporting Limit

METHOD 1311/3010A/6010B
TCLP METALS BY ICP

```
=====  
ient      : SHAW E&I           Date Collected: 02/01/06  
oject     : FORT MCCLELLAN     Date Received: 02/02/06  
G NO.     : 06B008            Date Extracted: 02/03/06 16:55  
mple ID:  SN1010             Date Analyzed: 02/04/06 12:29  
b Samp ID: B008-03          Dilution Factor: 5  
b File ID: I73B005017      Matrix          : WATER  
t Btch ID: IPB003W         % Moisture     : NA  
lib. Ref.: I73B005009     Instrument ID  : EMAXT173  
=====
```

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|------------|-------------------|--------------|---------------|
| arsenic | ND | .05 | .0145 |
| chromium | .586 | .05 | .005 |
| cadmium | ND | .05 | .008 |
| barium | .0752J | .1 | .022 |
| lead | .387 | .05 | .011 |
| mercury | ND | .05 | .0255 |
| silver | ND | .1 | .042 |

LP EXTRACTION DATE: 02/02/06 11:00

METHOD 1311/7470A
TCLP MERCURY

Client : SHAW E&I
Project : FORT MCCLELLAN
Batch No. : 06B008

Matrix : WATER
Instrument ID : T1047

| SAMPLE ID | EMAX | RESULTS | | | RL | MDL | Analysis | Extraction | | | Collection | Received | |
|-----------|-----------|---------|-----|-------|--------|--------|---------------|---------------|------------|------------|------------|----------|----------|
| | SAMPLE ID | (ug/L) | DLF | MOIST | (ug/L) | (ug/L) | DATETIME | DATETIME | LFID | CAL REF | PREP BATCH | DATETIME | DATETIME |
| MBLK1W | HGB006WB | ND | 1 | NA | .5 | .15 | 02/06/0614:48 | 02/06/0611:00 | M47B006010 | M47B006008 | HGB006W | NA | 02/06/06 |
| LCS1W | HGB006WL | 4.98 | 1 | NA | .5 | .15 | 02/06/0614:50 | 02/06/0611:00 | M47B006011 | M47B006008 | HGB006W | NA | 02/06/06 |
| LCD1W | HGB006WC | 5 | 1 | NA | .5 | .15 | 02/06/0614:52 | 02/06/0611:00 | M47B006012 | M47B006008 | HGB006W | NA | 02/06/06 |
| MBLK1S | TXB001SB | ND | 10 | NA | 5 | 1.5 | 02/06/0614:54 | 02/06/0611:00 | M47B006013 | M47B006008 | HGB006W | NA | 02/06/06 |
| SN1010AS | B008-03A | 19.7 | 10 | NA | 5 | 1.5 | 02/06/0614:56 | 02/06/0611:00 | M47B006014 | M47B006008 | HGB006W | 02/01/06 | 02/02/06 |
| SN1010 | B008-03 | ND | 10 | NA | 5 | 1.5 | 02/06/0614:58 | 02/06/0611:00 | M47B006015 | M47B006008 | HGB006W | 02/01/06 | 02/02/06 |
| SN1010DL | B008-03J | ND | 50 | NA | 25 | 7.5 | 02/06/0615:01 | 02/06/0611:00 | M47B006016 | M47B006008 | HGB006W | 02/01/06 | 02/02/06 |
| SN1010MS | B008-03M | 48.2 | 10 | NA | 5 | 1.5 | 02/06/0615:03 | 02/06/0611:00 | M47B006017 | M47B006008 | HGB006W | 02/01/06 | 02/02/06 |
| SN1010MSD | B008-03S | 50.5 | 10 | NA | 5 | 1.5 | 02/06/0615:05 | 02/06/0611:00 | M47B006018 | M47B006008 | HGB006W | 02/01/06 | 02/02/06 |

RL: Reporting Limit
TCLP Extraction Date: 02/02/06 11:00

1011