LANL '07 TA-21 (SWMU 21-024(j) + 21-024(b))

**TA 21 CLOSURE PROJECT**
**LOS ALAMOS NATIONAL LABORATORY**
**MAIL STOP C 349**
**231-0727**
**FAX 606-1526**

**DATE** 11/28/07

**TO** Katie Roberts **FAX#**

**ORGANIZATION** NMED **PHONE**

**FROM** Mark Thacker **RETURN FAX**

**PHONE** 699-1963

**#PAGES INCL. COVER** 13

**MESSAGE:** Here are the extended suites for 21-024(b) and 21-024(j) for your review.

30291

**Sample ID:** RE21-07-2253 **EPA Method 8290**

| Client Data | | Sample Data | | Laboratory Data | | | |
|---|---|---|---|---|---|---|---|
| Name: | Los Alamos National Laboratory | Matrix: | Soil | Lab Sample: | 29207-001 | Date Received: | 19-Jul-07 |
| Project: | 07-284C | Sample Size: | 10.6 g | QC Batch No: | 9210 | Date Extracted: | 25-Jul-07 |
| Date Collected: | 17-Jul-07 | %Solids: | 95.3 | Date Analyzed DB-5: | 27-Jul-07 | Date Analyzed DB-225: | NA |
| Time Collected: | 1025 | | | | | | |

| Analyte | Conc. (pg/g) | DL [a] | EMPC[b] | Qualifiers |
|---|---|---|---|---|
| 2,3,7,8-TCDD | ND | 0.122 | | |
| 1,2,3,7,8-PeCDD | 0.159 | | | J |
| 1,2,3,4,7,8-HxCDD | ND | 0.267 | | |
| 1,2,3,6,7,8-HxCDD | 0.600 | | | J |
| 1,2,3,7,8,9-HxCDD | 0.426 | | | J |
| 1,2,3,4,6,7,8-HpCDD | 10.8 | | | |
| OCDD | 85.1 | | | |
| 2,3,7,8-TCDF | 0.476 | | | J |
| 1,2,3,7,8-PeCDF | 0.463 | | | J |
| 2,3,4,7,8-PeCDF | 0.350 | | | J |
| 1,2,3,4,7,8-HxCDF | 0.886 | | | J |
| 1,2,3,6,7,8-HxCDF | ND | | 0.407 | |
| 2,3,4,6,7,8-HxCDF | ND | | 0.356 | |
| 1,2,3,7,8,9-HxCDF | 0.175 | | | J |
| 1,2,3,4,6,7,8-HpCDF | 4.43 | | | |
| 1,2,3,4,7,8,9-HpCDF | ND | | 0.428 | |
| OCDF | 10.3 | | | |

| | Labeled Standard | %R | LCL-UCL[d] | Qualifiers |
|---|---|---|---|---|
| IS | 13C-2,3,7,8-TCDD | 99.4 | 40 - 135 | |
| | 13C-1,2,3,7,8-PeCDD | 100 | 40 - 135 | |
| | 13C-1,2,3,4,7,8-HxCDD | 96.5 | 40 - 135 | |
| | 13C-1,2,3,6,7,8-HxCDD | 88.7 | 40 - 135 | |
| | 13C-1,2,3,4,6,7,8-HpCDD | 89.0 | 40 - 135 | |
| | 13C-OCDD | 69.5 | 40 - 135 | |
| | 13C-2,3,7,8-TCDF | 97.3 | 40 - 135 | |
| | 13C-1,2,3,7,8-PeCDF | 98.3 | 40 - 135 | |
| | 13C-2,3,4,7,8-PeCDF | 100 | 40 - 135 | |
| | 13C-1,2,3,4,7,8-HxCDF | 107 | 40 - 135 | |
| | 13C-1,2,3,6,7,8-HxCDF | 83.7 | 40 - 135 | |
| | 13C-2,3,4,6,7,8-HxCDF | 88.0 | 40 - 135 | |
| | 13C-1,2,3,7,8,9-HxCDF | 95.7 | 40 - 135 | |
| | 13C-1,2,3,4,6,7,8-HpCDF | 82.7 | 40 - 135 | |
| | 13C-1,2,3,4,7,8,9-HpCDF | 101 | 40 - 135 | |
| | 13C-OCDF | 74.7 | 40 - 135 | |
| CRS | 37Cl-2,3,7,8-TCDD | 91.1 | 40 - 135 | |

| Totals | | | |
|---|---|---|---|
| Total TCDD | ND | 0.122 | |
| Total PeCDD | 0.159 | | 0.693 |
| Total HxCDD | 4.38 | | |
| Total HpCDD | 20.8 | | |
| Total TCDF | 2.25 | | 2.90 |
| Total PeCDF | 3.50 | | 3.61 |
| Total HxCDF | 4.33 | | 5.09 |
| Total HpCDF | 7.68 | | 8.11 |

**Toxic Equivalent Quotient (TEQ) Data** [e]

**TEQ (Min):** 0.782

a. Sample specific estimated detection limit.

b. Estimated maximum possible concentration.

c. Method detection limit

d. Lower control limit - upper control limit

e. TEQ based on (1989) International Toxic Equivalent Factors (ITEF).

The results are reported in dry weight. The sample size is reported in wet weight.

Analyst: RAS

Approved By: William J. Luksemburg 01-Aug-2007 08:43

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**High Explosives Analysis Data Sheet**

**Lab Name:** General Engineering Laboratories

**Client Sample ID:** RE21-07-2253

**Lab Code:** GEL

**GEL Job No (SDG)** 07-283

**Matrix:** SOIL

**GEL Sample ID:** 189831001

**Sample Amount** 2

**Moisture:** 9.9

**Amount Units** g

**Date Received:** 19-JUL-07

**Extraction Type** Sonication

**Extraction Batch ID:** 653048

**Concentrated Extract Volume (mL)** 10

**Date Extracted:** 25-JUL-07

**Dilution Factor:** 2

**Injection Volume (uL):** 50

**GEL data file:** EXS0802021.wiff

**Date Analyzed:** 02-AUG-07 22:12

**Units:** ug/kg

| Cas No. | Compound | Concentration* | Q |
|---|---|---|---|
| 3058-38-6 | TATB | 1000 | U |
| 59229-75-3 | 2,6-Diamino-4-nitrotoluene | 2000 | U |
| 618-87-1 | 3,5-Dinitroaniline | 1000 | U |
| 6629-29-4 | 2,4-Diamino-6-nitrotoluene | 2000 | U |
| 78-30-8 | tris(o-cresyl) phosphate | 1000 | U |

*Concentration =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

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# High Explosives Analysis Data Sheet

**Lab Name:** General Engineering Laboratories

**Client Sample ID:** RE21-07-2253

**Lab Code:** GEL

**GEL Job No (SDG)** 07-283

**Matrix:** SOIL

**GEL Sample ID:** 189831001

**Sample Amount** 2

**Moisture:** 9.9

**Amount Units** g

**Date Received:** 19-JUL-07

**Extraction Type** Sonication

**Extraction Batch ID:** 653048

**Concentrated Extract Volume (mL)** 10

**Date Extracted:** 25-JUL-07

**Dilution Factor:** 2

**Injection Volume (uL):** 50

**GEL data file:** EXP0730020a

**Date Analyzed:** 30-JUL-07 22:03

**Units:** ug/kg

| Cas No. | Compound | Concentration* | Q |
|---|---|---|---|
| 118-96-7 | 2,4,6-Trinitrotoluene | 500 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 500 | U |
| 121-82-4 | RDX | 500 | U |
| 19406-51-0 | 4-Amino-2,6-dinitrotoluene | 500 | U |
| 2691-41-0 | HMX | 500 | U |
| 35572-78-2 | 2-Amino-4,6-dinitrotoluene | 500 | U |
| 479-45-8 | Tetryl | 500 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 500 | U |
| 78-11-5 | PETN | 1000 | U |
| 88-72-2 | o-Nitrotoluene | 500 | U |
| 98-95-3 | Nitrobenzene | 500 | U |
| 99-08-1 | m-Nitrotoluene | 500 | U |
| 99-35-4 | 1,3,5-Trinitrobenzene | 500 | U |
| 99-65-0 | m-Dinitrobenzene | 500 | U |
| 99-99-0 | p-Nitrotoluene | 500 | U |

*Concentration =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

*GEL Laboratories LLC*

Report Date: August 1, 2007



# PCB
## Certificate of Analysis
## Sample Summary

| | | | | | |
|---|---|---|---|---|---|
| SDG Number: | 07-283 | Date Collected: | 07/17/2007 12:00 | Matrix: | SOIL |
| Lab Sample ID: | 189831001 | Date Received: | 07/19/2007 09:30 | %Moisture: | 9.9 |
| Client Sample: | 1,2 | Client: | LANL006 | Project: | LANL00600 |
| Client ID: | RE21-07-2253 | Method: | SW846 8082 | SOP Ref: | GL-OA-E-040 |
| Batch ID: | 653073 | Inst: | ECD2A.I | Dilution: | 10 |
| Run Date: | 07/27/2007 19:12 | Analyst: | JXM | Inj. Vol: | 1 uL |
| Prep Date: | 07/23/2007 08:00 | Aliquot: | 30 g | Final Volume: | 1 mL |
| Data File: | 045f4501.d | Column: | 1 CLP1 | Level: | LOW |
| | 045b4501.d | | 2 CLP2 | | |

| CAS No. | Parmname | Qualifier | Result | Units | MDL/LOD | PQL/LOQ | Column |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | U | 37.0 | ug/kg | 12.3 | 37.0 | 1 |
| 11104-28-2 | Aroclor-1221 | U | 37.0 | ug/kg | 12.3 | 37.0 | 1 |
| 11141-16-5 | Aroclor-1232 | U | 37.0 | ug/kg | 12.3 | 37.0 | 1 |
| 53469-21-9 | Aroclor-1242 | U | 37.0 | ug/kg | 12.3 | 37.0 | 1 |
| 12672-29-6 | Aroclor-1248 | U | 37.0 | ug/kg | 12.3 | 37.0 | 1 |
| 11097-69-1 | Aroclor-1254 | | 941 | ug/kg | 12.3 | 37.0 | 2 |
| 11096-82-5 | Aroclor-1260 | P | 369 | ug/kg | 12.3 | 37.0 | 1 |

Los Alamos National Laboratory

# SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

**EVENT ID:** 91 **EVENT NAME:** Surface_Subsurface sampling SWMU 21-024(j) DP Site Aggregate Area. Spring 2007.

**SAMPLE ID:** RE21-07-2253

| | AS PLANNED | AS COLLECTED | | AS PLANNED | AS COLLECTED |
|---|---|---|---|---|---|
| DATE COLLECTED(MM/DD/YYYY): | | 07/17/2007 | MEDIA: | ~~ALLH~~ MCO 7/17/07 | QBT3 |
| TIME COLLECTED (HH:MM) | | 10:25 | SUB-MEDIA: | UA | OK |
| PRS ID: | 21-024(j) | OK | SAMPLE TECH CODE: | ~~SS~~ MCO 7/17/07 | HA |
| LOCATION ID: | ~~UNK~~ GET 07/17/07 | 21-600524 | FIELD QC TYPE: | NA | OK |
| LOCATION TYPE: | ~~GENERIC~~ NOV 7/17/07 | BH-2 | FIELD PREP: | NA | ↓ |
| TOP DEPTH: | ~~0~~ GET 7/13/07 | 5.0 ft | SAMPLE USAGE: | INV | |
| BOTTOM DEPTH: | ~~0~~ GET 07/13/07 | 6.0 ft | SCREEN/PORT DESC: | NA | |
| FIELD MATRIX: | NOV 7/17/07 ~~S~~ R | | EXCAVATED: YES / NO / NA | | |

COMPOSITE TYPE: — COMPOSITE TIME INTERVAL: — WATER FLOWING: YES / NO / NA

BOREHOLE: YES / NO / NA BOREHOLE DECLINATION: — BOREHOLE DIRECTION: —

| # | PRIORITY | ORDER | CNTNR | PRESERVATIVE | COLLECTED Y/N | COMMENTS |
|---|---|---|---|---|---|---|
| 2 | | 8082 | 125 ML GLASS | Ice | Y | |
| 2 | | 8290 | 125 ML GLASS | Ice | Y | |
| 1 | | NMED Explosives list | ~~250~~ GET 07/13/07 500 ML AMBER GLASS | Ice | Y | |

**SAMPLE DESC:**

Gray tuff

**LOCATION DESC:**

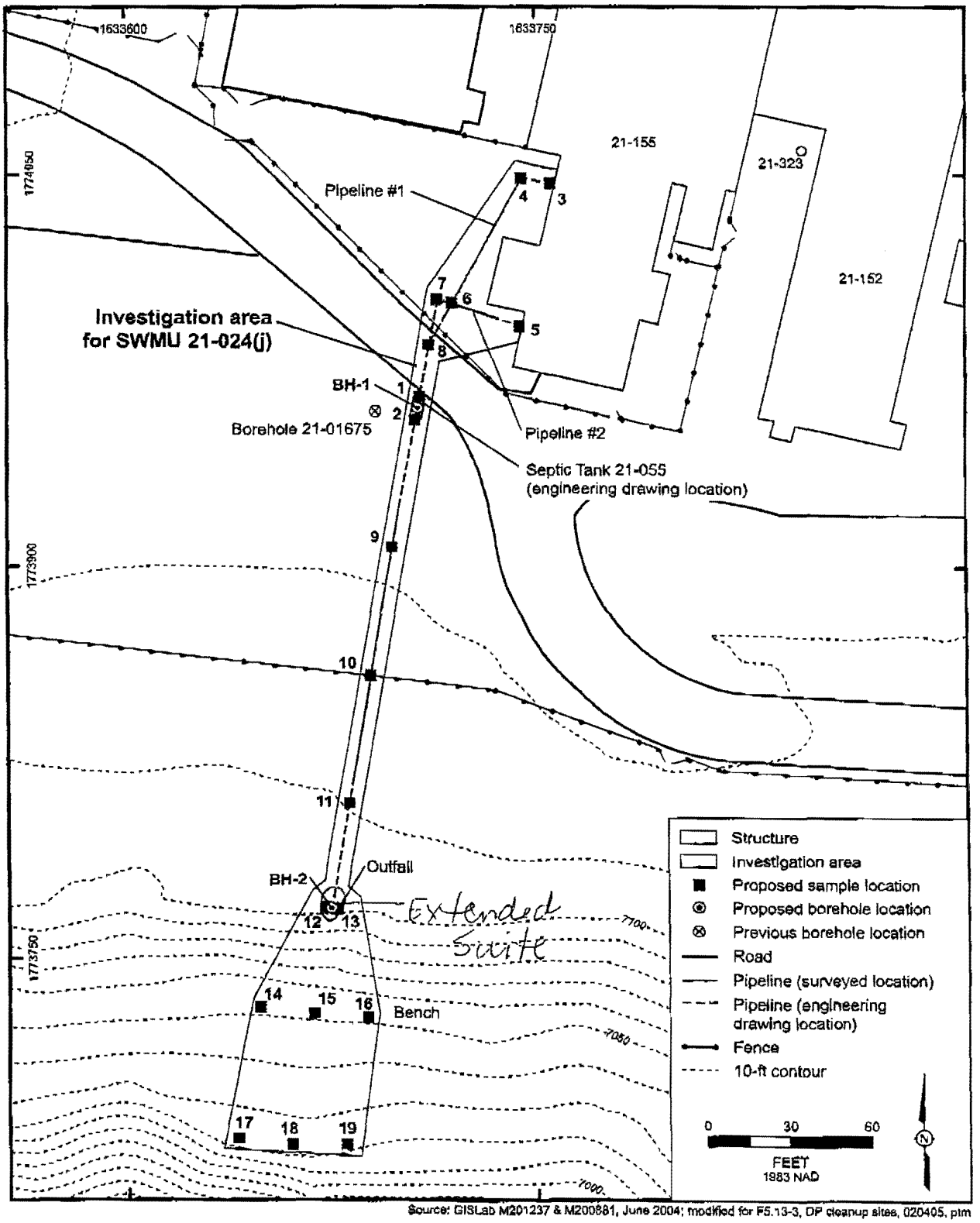
Location Borehole 2 - 0.5 ft downslope of the outfall pipe mou

**FIELD SCREENING/MEASUREMENT RESULTS:**

α - 36 dpm β - 635 dpm PID - 6.1 ppm

**COLLECTED BY (PRINT)** N Whitaker **REVIEWED BY (PRINT)** Antoinette E. Tay

| RELINQUISHED BY | Date/Time | RECEIVED BY | Date/Tim |
|---|---|---|---|
| (Printed Name) | 7/17/07 | (Printed Name) | 7/17/ |
| (Signature) [signature] | 1606 | (Signature) [signature] | 41 |
| **RELINQUISHED BY** | **Date/Time** | **RECEIVED BY** | **Date/Tin** |
| (Printed Name) | | (Printed Name) | |
| (Signature) | | (Signature) | |




Source: GISLab M201237 & M200881, June 2004; modified for F5.13-3, DP cleanup sites, 020405, ptm

**Figure 5.13-3. SWMU 21-024(j) proposed sample locations**

**Sample ID:** **RE21-075176** **EPA Method 8290**

| Client Data | | Sample Data | | Laboratory Data | | | |
|---|---|---|---|---|---|---|---|
| Name: | Los Alamos National Laboratory | Matrix: | Soil | Lab Sample: | 29529-001 | Date Received: | 14-Sep-07 |
| Project: | 07-989C | Sample Size: | 11.0 g | QC Batch No.: | 9450 | Date Extracted: | 5-Oct-07 |
| Date Collected: | 12-Sep-07 | %Solids: | 91.1 | Date Analyzed DB-5: | 9-Oct-07 | Date Analyzed DB-225: | NA |
| Time Collected: | 0915 | | | | | | |

| Analyte | Conc. (pg/g) | DL [a] | EMPC[b] | Qualifiers |
|---|---|---|---|---|
| 2,3,7,8-TCDD | ND | 0.123 | | |
| 1,2,3,7,8-PeCDD | ND | 0.302 | | |
| 1,2,3,4,7,8-HxCDD | ND | 0.356 | | |
| 1,2,3,6,7,8-HxCDD | 0.592 | | | J |
| 1,2,3,7,8,9-HxCDD | ND | 0.436 | | |
| 1,2,3,4,6,7,8-HpCDD | 8.21 | | | |
| OCDD | 74.8 | | | |
| 2,3,7,8-TCDF | 0.522 | | | |
| 1,2,3,7,8-PeCDF | ND | 0.364 | | |
| 2,3,4,7,8-PeCDF | 0.380 | | | J |
| 1,2,3,4,7,8-HxCDF | 0.600 | | | J |
| 1,2,3,6,7,8-HxCDF | 0.324 | | | J |
| 2,3,4,6,7,8-HxCDF | 0.229 | | | J |
| 1,2,3,7,8,9-HxCDF | ND | 0.202 | | |
| 1,2,3,4,6,7,8-HpCDF | 2.07 | | | J |
| 1,2,3,4,7,8,9-HpCDF | ND | 0.340 | | |
| OCDF | 3.49 | | | J |

| | Labeled Standard | %R | LCL-UCL[d] | Qualifiers |
|---|---|---|---|---|
| IS | 13C-2,3,7,8-TCDD | 96.6 | 40 - 135 | |
| | 13C-1,2,3,7,8-PeCDD | 113 | 40 - 135 | |
| | 13C-1,2,3,4,7,8-HxCDD | 93.4 | 40 - 135 | |
| | 13C-1,2,3,6,7,8-HxCDD | 87.2 | 40 - 135 | |
| | 13C-1,2,3,4,6,7,8-HpCDD | 101 | 40 - 135 | |
| | 13C-OCDD | 104 | 40 - 135 | |
| | 13C-2,3,7,8-TCDF | 91.1 | 40 - 135 | |
| | 13C-1,2,3,7,8-PeCDF | 103 | 40 - 135 | |
| | 13C-2,3,4,7,8-PeCDF | 111 | 40 - 135 | |
| | 13C-1,2,3,4,7,8-HxCDF | 98.7 | 40 - 135 | |
| | 13C-1,2,3,6,7,8-HxCDF | 81.9 | 40 - 135 | |
| | 13C-2,3,4,6,7,8-HxCDF | 84.8 | 40 - 135 | |
| | 13C-1,2,3,7,8,9-HxCDF | 94.1 | 40 - 135 | |
| | 13C-1,2,3,4,6,7,8-HpCDF | 84.2 | 40 - 135 | |
| | 13C-1,2,3,4,7,8,9-HpCDF | 105 | 40 - 135 | |
| | 13C-OCDF | 98.9 | 40 - 135 | |
| CRS | 37Cl-2,3,7,8-TCDD | 97.4 | 40 - 135 | |

| Totals | | |
|---|---|---|
| Total TCDD | ND | 0.123 |
| Total PeCDD | ND | 0.302 |
| Total HxCDD | 2.79 | |
| Total HpCDD | 15.3 | |
| Total TCDF | 1.77 | |
| Total PeCDF | 2.11 | |
| Total HxCDF | 3.26 | |
| Total HpCDF | 4.54 | |

**Toxic Equivalent Quotient (TEQ) Data** [e]

**TEQ (Min):** **0.598**

a. Sample specific estimated detection limit

b. Estimated maximum possible concentration.

c. Method detection limit.

d. Lower control limit - upper control limit.

e. TEQ based on (1989) International Toxic Equivalent Factors (ITEF).

The results are reported in dry weight. The sample size is reported in wet weight.

Analyst: MAS

Approved By: William J. Luksemburg 10-Oct-2007 14:44

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# High Explosives Analysis Data Sheet

Lab Name: General Engineering Laboratories

Client Sample ID: RE21-07-5176

Lab Code: GEL

GEL Job No (SDG) 07-990

Matrix: SOIL

GEL Sample ID: 193696001

Sample Amount 2

Moisture: 9.4

Amount Units g

Date Received: 14-SEP-07

Extraction Type Sonication

Extraction Batch ID: 683827

Concentrated Extract Volume (mL) 10

Date Extracted: 25-SEP-07

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS0926079.wiff

Date Analyzed: 27-SEP-07 14:10

Units: ug/kg

| Cas No. | Compound | Concentration* | Q |
|---|---|---|---|
| 3058-38-6 | TATB | 1000 | U |
| 59229-75-3 | 2,6-Diamino-4-nitrotoluene | 2000 | U |
| 618-87-1 | 3,5-Dinitroaniline | 1000 | U |
| 6629-29-4 | 2,4-Diamino-6-nitrotoluene | 2000 | U |
| 78-30-8 | tris(o-cresyl) phosphate | 1000 | U |

*Concentration =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

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# High Explosives Analysis Data Sheet

Lab Name: General Engineering Laboratories

Client Sample ID: RE21-07-5176

Lab Code: GEL

GEL Job No (SDG) 07-990

Matrix: SOIL

GEL Sample ID: 193696001

Sample Amount 2

Moisture: 9.4

Amount Units g

Date Received: 14-SEP-07

Extraction Type Sonication

Extraction Batch ID: 683827

Concentrated Extract Volume (mL) 10

Date Extracted: 25-SEP-07

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP1005062a

Date Analyzed: 07-OCT-07 02:04

Units: ug/kg

| Cas No. | Compound | Concentration* | Q |
|---|---|---|---|
| 118-96-7 | 2,4,6-Trinitrotoluene | 500 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 500 | U |
| 121-82-4 | RDX | 500 | U |
| 19406-51-0 | 4-Amino-2,6-dinitrotoluene | 500 | U |
| 2691-41-0 | HMX | 500 | U |
| 35572-78-2 | 2-Amino-4,6-dinitrotoluene | 500 | U |
| 479-45-8 | Tetryl | 500 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 500 | U |
| 78-11-5 | PETN | 1000 | U |
| 88-72-2 | o-Nitrotoluene | 500 | U |
| 98-95-3 | Nitrobenzene | 500 | U |
| 99-08-1 | m-Nitrotoluene | 500 | U |
| 99-35-4 | 1,3,5-Trinitrobenzene | 500 | U |
| 99-65-0 | m-Dinitrobenzene | 500 | U |
| 99-99-0 | p-Nitrotoluene | 500 | U |

*Concentration =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}} \times \text{Dilution Factor}$$

*GEL Laboratories LLC*

Report Date: October 4, 2007



# PCB
## Certificate of Analysis
## Sample Summary

| | | | | | |
|---|---|---|---|---|---|
| SDG Number: | 07-990 | Date Collected: | 09/12/2007 12:00 | Matrix: | S |
| Lab Sample ID: | 193696001 | Date Received: | 09/14/2007 09:30 | %Moisture: | 9.4 |
| | | Client: | LANL008 | Project: | LANL00800 |
| Client ID: | RE21-07-5176 | Method: | SW846 8082 | SOP Ref: | GL-OA-E-040 |
| Batch ID: | 685661 | Inst: | ECD8A,I | Dilution: | 1 |
| Run Date: | 09/22/2007 17:56 | Analyst: | CAK | Inj. Vol: | 1 uL |
| Prep Date: | 09/21/2007 21:24 | Aliquot: | 30.04 g | Final Volume: | 1 mL |
| Data File: | 030f3001.d | Column: | 1 CLP1 | Level: | LOW |
| | 030b3001.d | | 2 CLP2 | | |

| CAS No. | Parmname | Qualifier | Result | Units | MDL/LOD | PQL/LOQ | Column |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | U | 3.67 | ug/kg | 1.22 | 3.67 | 1 |
| 11104-28-2 | Aroclor-1221 | U | 3.67 | ug/kg | 1.22 | 3.67 | 1 |
| 11141-16-5 | Aroclor-1232 | U | 3.67 | ug/kg | 1.22 | 3.67 | 1 |
| 53469-21-9 | Aroclor-1242 | U | 3.67 | ug/kg | 1.22 | 3.67 | 1 |
| 12672-29-6 | Aroclor-1248 | U | 3.67 | ug/kg | 1.22 | 3.67 | 1 |
| 11097-69-1 | Aroclor-1254 | | 90.9 | ug/kg | 1.22 | 3.67 | 2 |
| 11096-82-5 | Aroclor-1260 | | 51.9 | ug/kg | 1.22 | 3.67 | 2 |

# SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

**EVENT ID:** 184 **EVENT NAME:** SWMU 21-024(b) DP Site Aggregate Area Summer 2007

**SAMPLE ID:** RE21-07-5176

| | AS PLANNED | AS COLLECTED | | AS PLANNED | AS COLLECTED |
|---|---|---|---|---|---|
| DATE COLLECTED(MM/DD/YYYY): | | 9-12-07 | MEDIA: | 9-12-07 | Qbt3 |
| TIME COLLECTED (HH:MM) | | 0915 | SUB-MEDIA: | NA | OK |
| PRS ID: | 21-024(b) | OK | SAMPLE TECH CODE: | 9-12-07 | HA |
| LOCATION ID: | | 21-601089 | FIELD QC TYPE: | | NA |
| LOCATION TYPE: | GENERIC | Loc 6a | FIELD PREP: | NA | OK |
| TOP DEPTH: | 0 | 3.3 ft | SAMPLE USAGE: | INV | |
| BOTTOM DEPTH: | 0 | 4.3 ft | SCREEN/PORT DESC: | NA | |
| FIELD MATRIX: | 9-12-07 | R | EXCAVATED: YES / NO / NA | | |

COMPOSITE TYPE: _____ COMPOSITE TIME INTERVAL: — WATER FLOWING: YES / NO / NA

BOREHOLE: YES / NO / NA BOREHOLE DECLINATION: — BOREHOLE DIRECTION: —

| # | PRIORITY | ORDER | CNTNR | PRESERVATIVE | COLLECTED Y/N | SPECIAL INSTRUCTIONS |
|---|---|---|---|---|---|---|
| 2 | | 8082 | 125 ML GLASS | Ice | Y | |
| 2 | | 8290 | 125 ML GLASS | Ice | Y | |
| 1 | | NMED Explosives list | 250 ML AMBER GLASS | Ice | Y | |

**SAMPLE DESC:**
tuff with overburden
Extended Suite

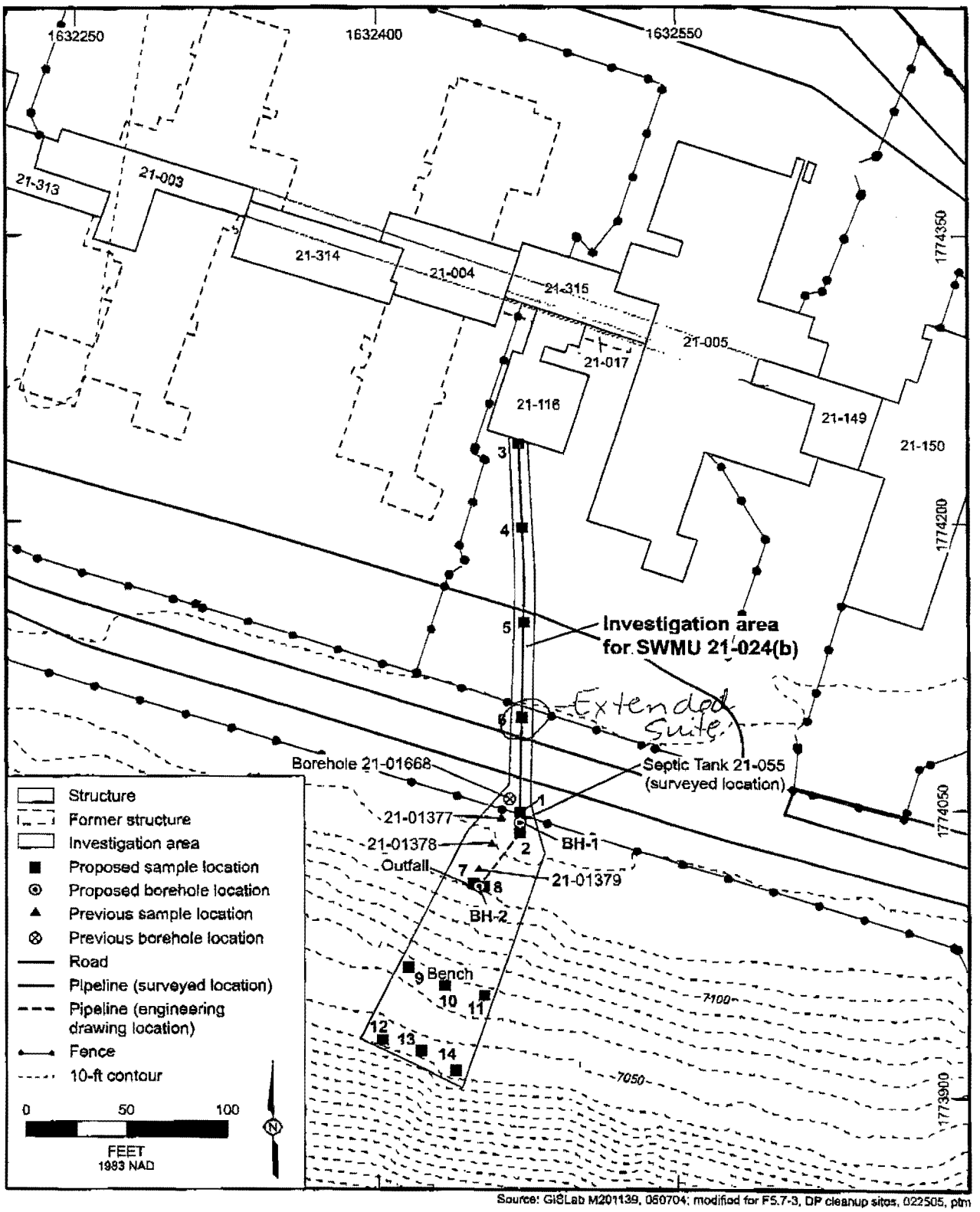
**LOCATION DESC:**
Location 6a

**FIELD SCREENING/MEASUREMENT RESULTS:**

α - .02 dpm β - .9 dpm P.D - 0.1 ppm

**COLLECTED BY (PRINT)** ERIC K TOSA **REVIEWED BY (PRINT)** Antoinette E. Tj

| RELINQUISHED BY | Date/Time | RECEIVED BY | Date/Time |
|---|---|---|---|
| (Printed Name) Anthony Martinez | 9/12/07 1015 | (Printed Name) | 9/12/07 1015 |
| (Signature) | | (Signature) | |
| **RELINQUISHED BY** | **Date/Time** | **RECEIVED BY** | **Date/Time** |
| (Printed Name) | | (Printed Name) | |
| (Signature) | | (Signature) | |




Source: GISLab M201139, 060704; modified for F5.7-3, DP cleanup sites, 022505, ptm

**Figure 5.7-3. SWMU 21-024(b) proposed sample locations**