TA21

ENTERED

Roberts, Kathryn, NMENV

From: Mark S. Thacker [mthacker@lanl.gov]
Sent: Tuesday, November 17, 2009 10:50 AM
To: Roberts, Kathryn, NMENV
Cc: 'Bill Criswell'; 'Day, Emily'; 'Woodworth, Lance A.'
Subject: FW: aoc_C-21-027_dioxin_furan.pdf
Attachments: aoc_C-21-027_dioxin_furan.pdf; C-21-027 D&F.pdf

Katie, as we just discussed, attached are the results from the extended suite sample from the Supplemental Investigation Work Plan Site C-21-027, the sample was chosen based on the highest field screening result, which was just above background. We decided to collect the samples because the site is no longer active and can be included in the Phase II IR. We have also compiled a map showing the spatial distribution of dioxin/furan data in the area. Let me know if you have any questions.

Mark

From: Frank, David [mailto:David.Frank@WestonSolutions.com]
Sent: Wednesday, November 11, 2009 3:17 PM
To: Mark S. Thacker
Cc: Day, Emily
Subject: aoc_C-21-027_dioxin_furan.pdf

Mark - Here is the dioxin/furan figure you need. - Dave

Dave Frank
Weston Solutions, Inc.
1475 Central Ave Suite 200
Los Alamos, NM 87544
Phone: (505) 662-6446
Fax: (505) 662-6635

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C-21-027

Sample ID: **MD21-09-12897** **EPA Method 8290**

Client Data		Sample Data		Laboratory Data			
Name:	Los Alamos National Laboratory	Matrix:	Soil	Lab Sample:	32077-001	Date Received:	24-Sep-09
Project:	09-3311	Sample Size:	10.9 g	QC Batch No.:	2408	Date Extracted:	25-Sep-09
Date Collected:	22-Sep-09	%Solids:	92.1	Date Analyzed DB-5:	28-Sep-09	Date Analyzed DB-225:	NA
Time Collected:	1030						

Analyte	Conc. (pg/g)	DL [a]	EMPC[b]	Qualifiers
2,3,7,8-TCDD	0.392			J
1,2,3,7,8-PeCDD	ND		2.62	
1,2,3,4,7,8-HxCDD	5.81			
1,2,3,6,7,8-HxCDD	43.9			
1,2,3,7,8,9-HxCDD	9.86			
1,2,3,4,6,7,8-HpCDD	1480			
OCDD	19900			B,E
2,3,7,8-TCDF	0.199			J
1,2,3,7,8-PeCDF	0.344			J
2,3,4,7,8-PeCDF	0.931			J
1,2,3,4,7,8-HxCDF	6.19			
1,2,3,6,7,8-HxCDF	3.84			
2,3,4,6,7,8-HxCDF	8.13			
1,2,3,7,8,9-HxCDF	ND	0.607		
1,2,3,4,6,7,8-HpCDF	296			
1,2,3,4,7,8,9-HpCDF	25.3			
OCDF	1450			

	Labeled Standard	%R	LCL-UCL[d]	Qualifiers
IS	13C-2,3,7,8-TCDD	94.6	40 - 135	
	13C-1,2,3,7,8-PeCDD	91.8	40 - 135	
	13C-1,2,3,4,7,8-HxCDD	87.6	40 - 135	
	13C-1,2,3,6,7,8-HxCDD	84.2	40 - 135	
	13C-1,2,3,4,6,7,8-HpCDD	103	40 - 135	
	13C-OCDD	133	40 - 135	
	13C-2,3,7,8-TCDF	93.6	40 - 135	
	13C-1,2,3,7,8-PeCDF	88.0	40 - 135	
	13C-2,3,4,7,8-PeCDF	86.0	40 - 135	
	13C-1,2,3,4,7,8-HxCDF	96.0	40 - 135	
	13C-1,2,3,6,7,8-HxCDF	80.6	40 - 135	
	13C-2,3,4,6,7,8-HxCDF	87.7	40 - 135	
	13C-1,2,3,7,8,9-HxCDF	100	40 - 135	
	13C-1,2,3,4,6,7,8-HpCDF	105	40 - 135	
	13C-1,2,3,4,7,8,9-HpCDF	125	40 - 135	
	13C-OCDF	114	40 - 135	
CRS	37Cl-2,3,7,8-TCDD	95.9	40 - 135	

Totals			
Total TCDD	1.50	1.69	B
Total PeCDD	6.96	12.0	
Total HxCDD	211		
Total HpCDD	3540		
Total TCDF	6.14	6.43	
Total PeCDF	35.9	36.8	P
Total HxCDF	315	316	P
Total HpCDF	1350		

Toxic Equivalent Quotient (TEQ) Data [e]

TEQ (Min): 48.0

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: JMH

Approved By: William J. Luksemburg 29-Sep-2009 15:38

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High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: MD21-09-12897

Lab Code: GEL

GEL Job No (SDG) 09-3310

Matrix: SOIL

GEL Sample ID: 238309001

Sample Amount 2

Moisture: 8.0

Amount Units g

Date Received: 02-OCT-09

Extraction Type Sonication

Extraction Batch ID: 908539

Concentrated Extract Volume (mL) 10

Date Extracted: 06-OCT-09

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXP1008027a

Date Analyzed: 09-OCT-09 05:20

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 =

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

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High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: MD21-09-12897

Lab Code: GEL

GEL Job No (SDG) 09-3310

Matrix: SOIL

GEL Sample ID: 238309001

Sample Amount 2

Moisture: 8.0

Amount Units g

Date Received: 02-OCT-09

Extraction Type Sonication

Extraction Batch ID: 908539

Concentrated Extract Volume (mL) 10

Date Extracted: 06-OCT-09

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS1007028.wiff

Date Analyzed: 07-OCT-09 18:50

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

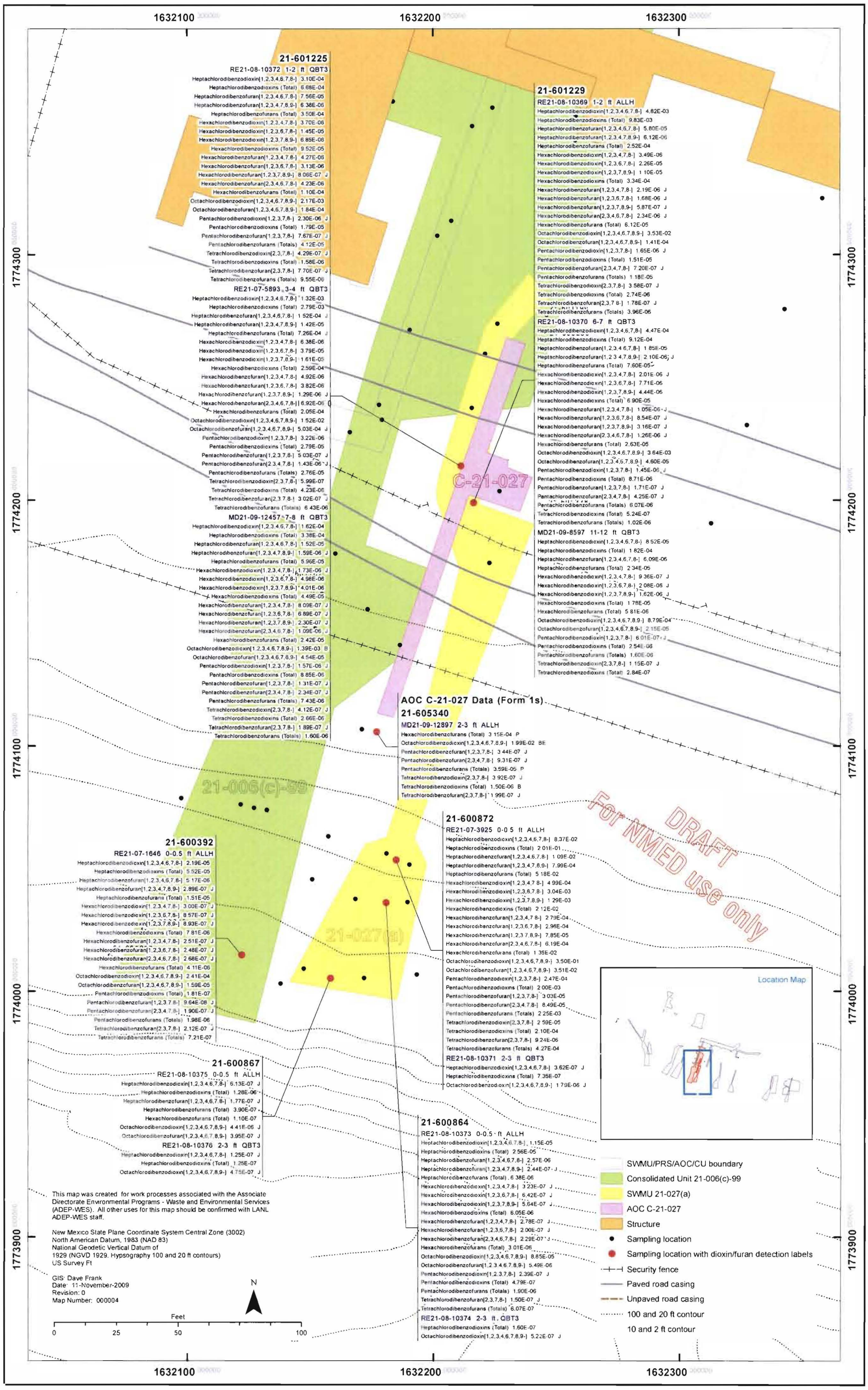
*Concentration =

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

PCB
Certificate of Analysis
Sample Summary

SDG Number:	09-3310	**Date Collected:**	09/22/2009 12:00	**Matrix:**	S
Lab Sample ID:	238309001	**Date Received:**	10/02/2009 09:15	**%Moisture:**	8
		Client:	LANL010	**Project:**	LANL01004
Client ID:	MD21-09-12897	**Method:**	SW846 8082	**SOP Ref:**	GL-OA-E-040
Batch ID:	909398	**Inst:**	ECD1A.1	**Dilution:**	1
Run Date:	10/07/2009 10:56	**Analyst:**	YS1	**Inj. Vol:**	1 uL
Prep Date:	10/06/2009 11:05	**Aliquot:**	30.15 g	**Final Volume:**	1 mL
Data File:	026f2601.d	**Column:**	1 CLP1	**Level:**	LOW
	026b2601.d		2 CLP2		

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ	Column
12674-11-2	Aroclor-1016	U	3.60	ug/kg	1.20	3.60	1
11104-28-2	Aroclor-1221	U	3.60	ug/kg	1.20	3.60	1
11141-16-5	Aroclor-1232	U	3.60	ug/kg	1.20	3.60	1
53469-21-9	Aroclor-1242	U	3.60	ug/kg	1.20	3.60	1
12672-29-6	Aroclor-1248	U	3.60	ug/kg	1.20	3.60	1
11097-69-1	Aroclor-1254	J	2.40	ug/kg	1.20	3.60	1
11096-82-5	Aroclor-1260	J	2.50	ug/kg	1.20	3.60	1


1632100
1632200
1632300
1774300
1774200
1774100
1774000
1773900
21-601225
RE21-08-10372 1-2 ft QBT3
Heptachlorodibenzodioxin[1,2,3,4,6,7,8-] 3.10E-04
Heptachlorodibenzodioxins (Total) 6.68E-04
Heptachlorodibenzofuran[1,2,3,4,6,7,8-] 7.56E-05
Heptachlorodibenzofuran[1,2,3,4,7,8,9-] 6.38E-06
Heptachlorodibenzofurans (Total) 3.50E-04
Hexachlorodibenzodioxin[1,2,3,4,7,8-] 3.70E-06
Hexachlorodibenzodioxin[1,2,3,6,7,8-] 1.45E-05
Hexachlorodibenzodioxin[1,2,3,7,8,9-] 6.85E-06
Hexachlorodibenzodioxins (Total) 9.52E-05
Hexachlorodibenzofuran[1,2,3,4,7,8-] 4.27E-06
Hexachlorodibenzofuran[1,2,3,6,7,8-] 3.13E-06
Hexachlorodibenzofuran[1,2,3,7,8,9-] 8.06E-07 J
Hexachlorodibenzofuran[2,3,4,6,7,8-] 4.23E-06
Hexachlorodibenzofurans (Total) 1.10E-04
Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-] 2.17E-03
Octachlorodibenzofuran[1,2,3,4,6,7,8,9-] 1.84E-04
Pentachlorodibenzodioxin[1,2,3,7,8-] 2.30E-06 J
Pentachlorodibenzodioxins (Total) 1.79E-05
Pentachlorodibenzofuran[1,2,3,7,8-] 7.67E-07 J
Pentachlorodibenzofurans (Totals) 4.12E-05
Tetrachlorodibenzodioxin[2,3,7,8-] 4.29E-07 J
Tetrachlorodibenzodioxins (Total) 1.58E-06
Tetrachlorodibenzofuran[2,3,7,8-] 7.70E-07 J
Tetrachlorodibenzofurans (Totals) 9.55E-06
RE21-07-5893 3-4 ft QBT3
Heptachlorodibenzodioxin[1,2,3,4,6,7,8-] 1.32E-03
Heptachlorodibenzodioxins (Total) 2.79E-03
Heptachlorodibenzofuran[1,2,3,4,6,7,8-] 1.52E-04 J
Heptachlorodibenzofuran[1,2,3,4,7,8,9-] 1.42E-05
Heptachlorodibenzofurans (Total) 7.26E-04 J
Hexachlorodibenzodioxin[1,2,3,4,7,8-] 6.38E-06
Hexachlorodibenzodioxin[1,2,3,6,7,8-] 3.79E-05
Hexachlorodibenzodioxin[1,2,3,7,8,9-] 1.61E-05
Hexachlorodibenzodioxins (Total) 2.59E-04
Hexachlorodibenzofuran[1,2,3,4,7,8-] 4.92E-06
Hexachlorodibenzofuran[1,2,3,6,7,8-] 3.82E-06
Hexachlorodibenzofuran[1,2,3,7,8,9-] 1.29E-06 J
Hexachlorodibenzofuran[2,3,4,6,7,8-] 6.92E-06
Hexachlorodibenzofurans (Total) 2.05E-04
Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-] 1.52E-02
Octachlorodibenzofuran[1,2,3,4,6,7,8,9-] 5.03E-04 J
Pentachlorodibenzodioxin[1,2,3,7,8-] 3.22E-06
Pentachlorodibenzodioxins (Total) 2.79E-05
Pentachlorodibenzofuran[1,2,3,7,8-] 5.03E-07 J
Pentachlorodibenzofuran[2,3,4,7,8-] 1.43E-06 J
Pentachlorodibenzofurans (Totals) 2.76E-05
Tetrachlorodibenzodioxin[2,3,7,8-] 5.99E-07
Tetrachlorodibenzodioxins (Total) 4.23E-06
Tetrachlorodibenzofuran[2,3,7,8-] 3.02E-07 J
Tetrachlorodibenzofurans (Totals) 6.43E-06
MD21-09-12457 7-8 ft QBT3
Heptachlorodibenzodioxin[1,2,3,4,6,7,8-] 1.62E-04
Heptachlorodibenzodioxins (Total) 3.38E-04
Heptachlorodibenzofuran[1,2,3,4,6,7,8-] 1.52E-05
Heptachlorodibenzofuran[1,2,3,4,7,8,9-] 1.59E-06 J
Heptachlorodibenzofurans (Total) 5.96E-05
Hexachlorodibenzodioxin[1,2,3,4,7,8-] 1.73E-06 J
Hexachlorodibenzodioxin[1,2,3,6,7,8-] 4.98E-06
Hexachlorodibenzodioxin[1,2,3,7,8,9-] 4.01E-06
Hexachlorodibenzodioxins (Total) 4.49E-05
Hexachlorodibenzofuran[1,2,3,4,7,8-] 8.09E-07 J
Hexachlorodibenzofuran[1,2,3,6,7,8-] 6.89E-07 J
Hexachlorodibenzofuran[1,2,3,7,8,9-] 2.30E-07 J
Hexachlorodibenzofuran[2,3,4,6,7,8-] 1.09E-06 J
Hexachlorodibenzofurans (Total) 2.42E-05
Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-] 1.39E-03 B
Octachlorodibenzofuran[1,2,3,4,6,7,8,9-] 4.54E-05
Pentachlorodibenzodioxin[1,2,3,7,8-] 1.57E-06 J
Pentachlorodibenzodioxins (Total) 8.85E-06
Pentachlorodibenzofuran[1,2,3,7,8-] 1.31E-07 J
Pentachlorodibenzofuran[2,3,4,7,8-] 2.34E-07 J
Pentachlorodibenzofurans (Totals) 7.43E-06
Tetrachlorodibenzodioxin[2,3,7,8-] 4.12E-07 J
Tetrachlorodibenzodioxins (Total) 2.66E-06
Tetrachlorodibenzofuran[2,3,7,8-] 1.89E-07 J
Tetrachlorodibenzofurans (Totals) 1.60E-06
21-601229
RE21-08-10369 1-2 ft ALLH
Heptachlorodibenzodioxin[1,2,3,4,6,7,8-] 4.82E-03
Heptachlorodibenzodioxins (Total) 9.83E-03
Heptachlorodibenzofuran[1,2,3,4,6,7,8-] 5.80E-05
Heptachlorodibenzofuran[1,2,3,4,7,8,9-] 6.12E-06
Heptachlorodibenzofurans (Total) 2.52E-04
Hexachlorodibenzodioxin[1,2,3,4,7,8-] 3.49E-06
Hexachlorodibenzodioxin[1,2,3,6,7,8-] 2.26E-05
Hexachlorodibenzodioxin[1,2,3,7,8,9-] 1.10E-05
Hexachlorodibenzodioxins (Total) 3.34E-04
Hexachlorodibenzofuran[1,2,3,4,7,8-] 2.19E-06 J
Hexachlorodibenzofuran[1,2,3,6,7,8-] 1.68E-06 J
Hexachlorodibenzofuran[1,2,3,7,8,9-] 5.87E-07 J
Hexachlorodibenzofuran[2,3,4,6,7,8-] 2.34E-06 J
Hexachlorodibenzofurans (Total) 6.12E-05
Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-] 3.53E-02
Octachlorodibenzofuran[1,2,3,4,6,7,8,9-] 1.41E-04
Pentachlorodibenzodioxin[1,2,3,7,8-] 1.65E-06 J
Pentachlorodibenzodioxins (Total) 1.51E-05
Pentachlorodibenzofuran[2,3,4,7,8-] 7.20E-07 J
Pentachlorodibenzofurans (Totals) 1.18E-05
Tetrachlorodibenzodioxin[2,3,7,8-] 3.58E-07 J
Tetrachlorodibenzodioxins (Total) 2.74E-06
Tetrachlorodibenzofuran[2,3,7,8-] 1.78E-07 J
Tetrachlorodibenzofurans (Totals) 3.96E-06
RE21-08-10370 6-7 ft QBT3
Heptachlorodibenzodioxin[1,2,3,4,6,7,8-] 4.47E-04
Heptachlorodibenzodioxins (Total) 9.12E-04
Heptachlorodibenzofuran[1,2,3,4,6,7,8-] 1.85E-05
Heptachlorodibenzofuran[1,2,3,4,7,8,9-] 2.10E-06 J
Heptachlorodibenzofurans (Total) 7.60E-05
Hexachlorodibenzodioxin[1,2,3,4,7,8-] 2.01E-06 J
Hexachlorodibenzodioxin[1,2,3,6,7,8-] 7.71E-06
Hexachlorodibenzodioxin[1,2,3,7,8,9-] 4.44E-06
Hexachlorodibenzodioxins (Total) 6.90E-05
Hexachlorodibenzofuran[1,2,3,4,7,8-] 1.05E-06 J
Hexachlorodibenzofuran[1,2,3,6,7,8-] 8.54E-07 J
Hexachlorodibenzofuran[1,2,3,7,8,9-] 3.16E-07 J
Hexachlorodibenzofuran[2,3,4,6,7,8-] 1.26E-06 J
Hexachlorodibenzofurans (Total) 2.63E-05
Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-] 3.64E-03
Octachlorodibenzofuran[1,2,3,4,6,7,8,9-] 4.60E-05
Pentachlorodibenzodioxin[1,2,3,7,8-] 1.45E-06 J
Pentachlorodibenzodioxins (Total) 8.71E-06
Pentachlorodibenzofuran[1,2,3,7,8-] 1.71E-07 J
Pentachlorodibenzofuran[2,3,4,7,8-] 4.25E-07 J
Pentachlorodibenzofurans (Totals) 6.07E-06
Tetrachlorodibenzodioxins (Total) 5.24E-07
Tetrachlorodibenzofurans (Totals) 1.02E-06
MD21-09-8597 11-12 ft QBT3
Heptachlorodibenzodioxin[1,2,3,4,6,7,8-] 8.52E-05
Heptachlorodibenzodioxins (Total) 1.82E-04
Heptachlorodibenzofuran[1,2,3,4,6,7,8-] 6.09E-06
Heptachlorodibenzofurans (Total) 2.34E-05
Hexachlorodibenzodioxin[1,2,3,4,7,8-] 9.36E-07 J
Hexachlorodibenzodioxin[1,2,3,6,7,8-] 2.08E-06 J
Hexachlorodibenzodioxin[1,2,3,7,8,9-] 1.62E-06 J
Hexachlorodibenzodioxins (Total) 1.78E-05
Hexachlorodibenzofurans (Total) 5.81E-06
Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-] 8.79E-04
Octachlorodibenzofuran[1,2,3,4,6,7,8,9-] 2.15E-05
Pentachlorodibenzodioxin[1,2,3,7,8-] 6.01E-07 J
Pentachlorodibenzodioxins (Total) 2.54E-06
Pentachlorodibenzofurans (Totals) 1.60E-06
Tetrachlorodibenzodioxin[2,3,7,8-] 1.15E-07 J
Tetrachlorodibenzodioxins (Total) 2.84E-07
C-21-027
AOC C-21-027 Data (Form 1s)
21-605340
MD21-09-12897 2-3 ft ALLH
Hexachlorodibenzofurans (Total) 3.15E-04 P
Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-] 1.99E-02 BE
Pentachlorodibenzofuran[1,2,3,7,8-] 3.44E-07 J
Pentachlorodibenzofuran[2,3,4,7,8-] 9.31E-07 J
Pentachlorodibenzofurans (Totals) 3.59E-05 P
Tetrachlorodibenzodioxin[2,3,7,8-] 3.92E-07 J
Tetrachlorodibenzodioxins (Total) 1.50E-06 B
Tetrachlorodibenzofuran[2,3,7,8-] 1.99E-07 J
21-006(c)-99
21-027(a)
DRAFT
For NMED use only
21-600872
RE21-07-3925 0-0.5 ft ALLH
Heptachlorodibenzodioxin[1,2,3,4,6,7,8-] 8.37E-02
Heptachlorodibenzodioxins (Total) 2.01E-01
Heptachlorodibenzofuran[1,2,3,4,6,7,8-] 1.09E-02
Heptachlorodibenzofuran[1,2,3,4,7,8,9-] 7.99E-04
Heptachlorodibenzofurans (Total) 5.18E-02
Hexachlorodibenzodioxin[1,2,3,4,7,8-] 4.99E-04
Hexachlorodibenzodioxin[1,2,3,6,7,8-] 3.04E-03
Hexachlorodibenzodioxin[1,2,3,7,8,9-] 1.29E-03
Hexachlorodibenzodioxins (Total) 2.12E-02
Hexachlorodibenzofuran[1,2,3,4,7,8-] 2.79E-04
Hexachlorodibenzofuran[1,2,3,6,7,8-] 2.96E-04
Hexachlorodibenzofuran[1,2,3,7,8,9-] 7.85E-05
Hexachlorodibenzofuran[2,3,4,6,7,8-] 6.19E-04
Hexachlorodibenzofurans (Total) 1.35E-02
Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-] 3.50E-01
Octachlorodibenzofuran[1,2,3,4,6,7,8,9-] 3.51E-02
Pentachlorodibenzodioxin[1,2,3,7,8-] 2.47E-04
Pentachlorodibenzodioxins (Total) 2.00E-03
Pentachlorodibenzofuran[1,2,3,7,8-] 3.03E-05
Pentachlorodibenzofuran[2,3,4,7,8-] 8.49E-05
Pentachlorodibenzofurans (Totals) 2.25E-03
Tetrachlorodibenzodioxin[2,3,7,8-] 2.59E-05
Tetrachlorodibenzodioxins (Total) 2.10E-04
Tetrachlorodibenzofuran[2,3,7,8-] 9.24E-06
Tetrachlorodibenzofurans (Totals) 4.27E-04
RE21-08-10371 2-3 ft QBT3
Heptachlorodibenzodioxin[1,2,3,4,6,7,8-] 3.62E-07 J
Heptachlorodibenzodioxins (Total) 7.35E-07
Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-] 1.79E-06 J
21-600392
RE21-07-1646 0-0.5 ft ALLH
Heptachlorodibenzodioxin[1,2,3,4,6,7,8-] 2.19E-05
Heptachlorodibenzodioxins (Total) 5.52E-05
Heptachlorodibenzofuran[1,2,3,4,6,7,8-] 5.17E-06
Heptachlorodibenzofuran[1,2,3,4,7,8,9-] 2.89E-07 J
Heptachlorodibenzofurans (Total) 1.51E-05
Hexachlorodibenzodioxin[1,2,3,4,7,8-] 3.00E-07 J
Hexachlorodibenzodioxin[1,2,3,6,7,8-] 8.57E-07 J
Hexachlorodibenzodioxin[1,2,3,7,8,9-] 8.93E-07 J
Hexachlorodibenzodioxins (Total) 7.81E-06
Hexachlorodibenzofuran[1,2,3,4,7,8-] 2.51E-07 J
Hexachlorodibenzofuran[1,2,3,6,7,8-] 2.48E-07 J
Hexachlorodibenzofuran[2,3,4,6,7,8-] 2.68E-07 J
Hexachlorodibenzofurans (Total) 4.11E-06
Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-] 2.41E-04
Octachlorodibenzofuran[1,2,3,4,6,7,8,9-] 1.59E-05
Pentachlorodibenzodioxins (Total) 1.81E-07
Pentachlorodibenzofuran[1,2,3,7,8-] 9.64E-08 J
Pentachlorodibenzofuran[2,3,4,7,8-] 1.90E-07 J
Pentachlorodibenzofurans (Totals) 1.98E-06
Tetrachlorodibenzofuran[2,3,7,8-] 2.12E-07 J
Tetrachlorodibenzofurans (Totals) 7.21E-07
21-600867
RE21-08-10375 0-0.5 ft ALLH
Heptachlorodibenzodioxin[1,2,3,4,6,7,8-] 6.13E-07 J
Heptachlorodibenzodioxins (Total) 1.28E-06
Heptachlorodibenzofuran[1,2,3,4,6,7,8-] 1.77E-07 J
Heptachlorodibenzofurans (Total) 3.90E-07
Hexachlorodibenzofurans (Total) 1.10E-07
Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-] 4.41E-06 J
Octachlorodibenzofuran[1,2,3,4,6,7,8,9-] 3.95E-07 J
RE21-08-10376 2-3 ft QBT3
Heptachlorodibenzodioxin[1,2,3,4,6,7,8-] 1.25E-07 J
Heptachlorodibenzodioxins (Total) 1.25E-07
Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-] 4.75E-07 J
21-600864
RE21-08-10373 0-0.5 ft ALLH
Heptachlorodibenzodioxin[1,2,3,4,6,7,8-] 1.15E-05
Heptachlorodibenzodioxins (Total) 2.56E-05
Heptachlorodibenzofuran[1,2,3,4,6,7,8-] 2.57E-06
Heptachlorodibenzofuran[1,2,3,4,7,8,9-] 2.44E-07 J
Heptachlorodibenzofurans (Total) 6.38E-06
Hexachlorodibenzodioxin[1,2,3,4,7,8-] 3.23E-07 J
Hexachlorodibenzodioxin[1,2,3,6,7,8-] 6.42E-07 J
Hexachlorodibenzodioxin[1,2,3,7,8,9-] 5.64E-07 J
Hexachlorodibenzodioxins (Total) 6.05E-06
Hexachlorodibenzofuran[1,2,3,4,7,8-] 2.78E-07 J
Hexachlorodibenzofuran[1,2,3,6,7,8-] 2.00E-07 J
Hexachlorodibenzofuran[2,3,4,6,7,8-] 2.29E-07 J
Hexachlorodibenzofurans (Total) 3.01E-06
Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-] 8.85E-05
Octachlorodibenzofuran[1,2,3,4,6,7,8,9-] 5.49E-06
Pentachlorodibenzodioxin[1,2,3,7,8-] 2.39E-07 J
Pentachlorodibenzodioxins (Total) 4.79E-07
Pentachlorodibenzofurans (Totals) 1.90E-06
Tetrachlorodibenzofuran[2,3,7,8-] 1.50E-07 J
Tetrachlorodibenzofurans (Totals) 6.07E-07
RE21-08-10374 2-3 ft QBT3
Heptachlorodibenzodioxins (Total) 1.60E-07
Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-] 5.22E-07 J
Location Map
This map was created for work processes associated with the Associate Directorate Environmental Programs - Waste and Environmental Services (ADEP-WES). All other uses for this map should be confirmed with LANL ADEP-WES staff.
New Mexico State Plane Coordinate System Central Zone (3002)
North American Datum, 1983 (NAD 83)
National Geodetic Vertical Datum of
1929 (NGVD 1929. Hypsography 100 and 20 ft contours)
US Survey Ft
GIS: Dave Frank
Date: 11-November-2009
Revision: 0
Map Number: 000004
N
Feet
0
25
50
100
SWMU/PRS/AOC/CU boundary
Consolidated Unit 21-006(c)-99
SWMU 21-027(a)
AOC C-21-027
Structure
Sampling location
Sampling location with dioxin/furan detection labels
Security fence
Paved road casing
Unpaved road casing
100 and 20 ft contour
10 and 2 ft contour