SITE: Brown's Dump
BREAK: 3.10
OTHER:

Brown's Dump Site Remedial Investigation Report Revision 3, July 2003

3 10 0329

Volume II of III

CITY OF JACKSONVILLE, FLORIDA

CH2M HILL Team

CH2M HILL

Engineering Inc. & Miller, Inc.

Associated Environmental Services, Inc.

July 2003

10224228

E072003004JAX

3 10 0330

Appendix C

Thompson Engineering

3 10 0331

LETTER OF TRANSMITTAL

To: STL Savannah Laboratories	Date: 07/06/00	Job No. 2000-00-0580
5102 LaRoche Avenue	Re: Savannah # S0-03940	
Savannah, Ga. 31404		
Attention: Gloria Fulwood		

We Are Sending You X Attached _ Under Separate cover via ___ the following items

COPIES	DATE	NO.	DESCRIPTION
1	07/06/00	2	Particle Size Distribution Test Report (ASTM D 422)
1	06/19/00	1	Chain of Custody

These are Transmitted as checked below

___ For approval ___ For your use X As requested ___ For review and comment

Remarks Thompson Engineering Testing, Inc. appreciates the opportunity to be of continued service to STL Savannah Laboratories. If there are any questions regarding this submittal, please feel free to call.

B. Dwayne Smith
Project Engineer
Alabama Registration No. 22779

Dale Nobles
Materials Laboratory Manager

RECEIVED
OCT 1 6 2000

Corporate Office: 3707 Cottage Hill Rd. • P.O. Box 9637 • Mobile, AL 36691 • 334-666-2443 • Fax 334-666-6422

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Savannah Laboratories
a division of Seven Trent Laboratories, Inc

P000-CC-0580

5102 LaRoche Avenue, Savannah, GA 31404 — Phone: (912) 354-7858 — Fax: (912) 352-0165
2846 Industrial Plaza Drive, Tallahassee, FL 32301 — Phone: (850) 878-3994 — Fax: (850) 878-9504
900 Lakeside Drive, Mobile, AL 36693 — Phone: (334) 666-6633 — Fax: (334) 666-6696
6712 Benjamin Rd., Suite 100, Tampa, FL 33634 — Phone: (813) 885-7427 — Fax: (813) 885-7049

PROJECT REFERENCE	PROJECT NO. 50-03940	PROJECT LOCATION (STATE) FL	PAGE 1 OF 1
STL (LAB) PROJECT MANAGER	P.O. NUMBER 50590	CONTRACT NO.	STANDARD REPORT DELIVERY ✓
CLIENT (SITE) PM Glenn Talwood	CLIENT PHONE 912 354-7858	CLIENT FAX 912 352 0165	DATE DUE 7/6
CLIENT NAME STL Savannah	CLIENT EMAIL		EXPEDITED REPORT DELIVERY (SURCHARGE) ○
CLIENT ADDRESS 5102 LaRoche Ave Savh GA 31404			DATE DUE
COMPANY CONTRACTING THIS WORK (if applicable):			NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSES: Grain Size; Trace Metals

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ETC)	NUMBER OF CONTAINERS SUBMITTED	REMARKS
6-19	1145	DDC 034			✓				
6-19	1125	DDC 036			✓				

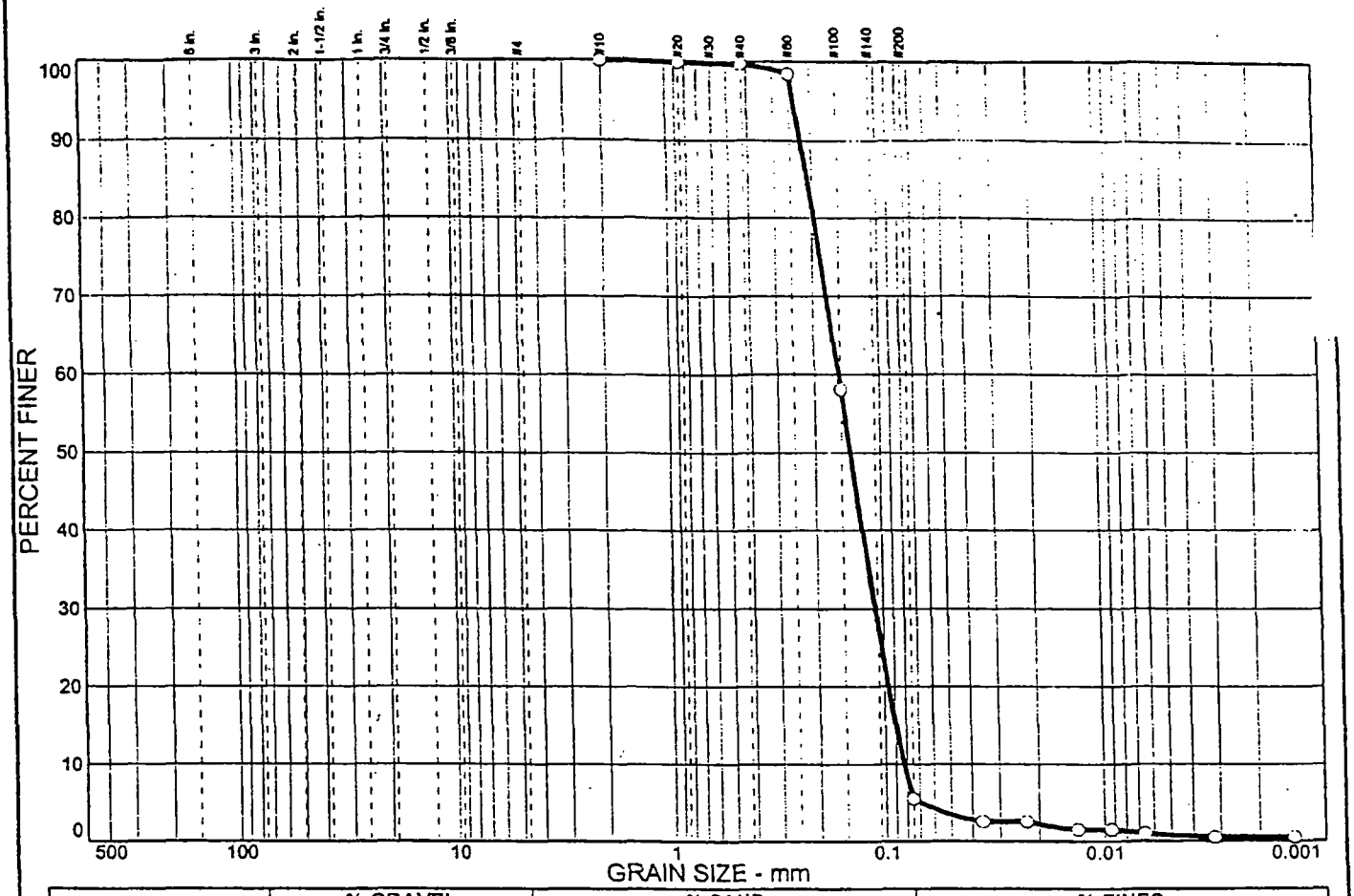
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
						K Conner	6/19/00	[illegible]
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**
						[illegible]	6/20/00	1700

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	STL-SL LOG NO.	LABORATORY REMARKS

3 10 0332

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.0	0.0	0.3	94.2	4.8	0.7

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#10	100.0		
#20	99.9		
#40	99.7		
#60	98.4		
#100	58.1		
#200	5.5		

* (no specification provided)

Soil Description

FINE SAND

Atterberg Limits

PL= --- LL= --- PI= ---

Coefficients

D_{85}= 0.209 D_{60}= 0.153 D_{50}= 0.137
D_{30}= 0.109 D_{15}= 0.0893 D_{10}= 0.0823
C_u= 1.86 C_c= 0.94

Classification

USCS= --- AASHTO= ---

Remarks

Sample No.: BDC034 **Source of Sample:** **Date:** 7/6/00
Location: **Elev./Depth:**

Thompson Engineering

Client: STL SAVANNAH LABORATORIES
Project: SAVANNAH #: S0-03940
Project No: 2000-00-0580 **Plate**

3 10 .0333

GRAIN SIZE DISTRIBUTION TEST DATA

Client: STL SAVANNAH LABORATORIES
Project: SAVANNAH #: S0-03940
Project Number: 2000-00-0580

Sample Data

Source:
Sample No.: BDC034
Elev. or Depth: Sample Length (in./cm.):
Location:
Description: FINE SAND
Date: 7/6/00 PL: - - - LL: - - - PI: - - -
USCS Classification: - - - AASHTO Classification: - - -
Testing Remarks:

Mechanical Analysis Data

	Initial
Dry sample and tare=	214.99
Tare =	0.00
Dry sample weight =	214.99

Sample split on number 10 sieve
Split sample data:
Sample and tare = 99.86 Tare = .00 Sample weight = 99.86
Cumulative weight retained tare= .00
Tare for cumulative weight retained= .00

Sieve	Cumul. Wt. retained	Percent finer
# 10	0.00	100.0
# 20	0.10	99.9
# 40	0.31	99.7
# 60	1.61	98.4
# 100	41.80	58.1
# 200	94.36	5.5

Hydrometer Analysis Data

Separation sieve is #10
Percent -#10 based upon complete sample= 100.0
Weight of hydrometer sample: 100.10
Hygroscopic moisture correction:
Moist weight & tare = 36.78
Dry weight & tare = 36.72
Tare = 11.43
Hygroscopic moisture= 0.2 %
Calculated biased weight= 99.86
Table of composite correction values:

Temp, deg C:	19.5	23.5
Comp. corr:	-8.0	-8.0

Meniscus correction only= 0
Specific gravity of solids= 2.65
Specific gravity correction factor= 1.000
Hydrometer type: 152H
Effective depth L= 16.294964 - 0.164 x Rm

3 10 0334

Elapsed time, min	Temp, deg C	Actual reading	Corrected reading	K	Rm	Eff. depth	Diameter mm	Perc fine
2.00	21.9	10.5	2.5	0.0133	10.5	14.6	0.0360	2.
5.00	21.9	10.5	2.5	0.0133	10.5	14.6	0.0228	2.
15.00	22.0	9.5	1.5	0.0133	9.5	14.7	0.0132	1.
30.00	22.0	9.5	1.5	0.0133	9.5	14.7	0.0093	1.
60.00	22.1	9.0	1.0	0.0133	9.0	14.8	0.0066	1.
250.00	23.3	8.5	0.5	0.0131	8.5	14.9	0.0032	0.
1440.00	19.9	8.5	0.5	0.0137	8.5	14.9	0.0014	0.

Fractional Components

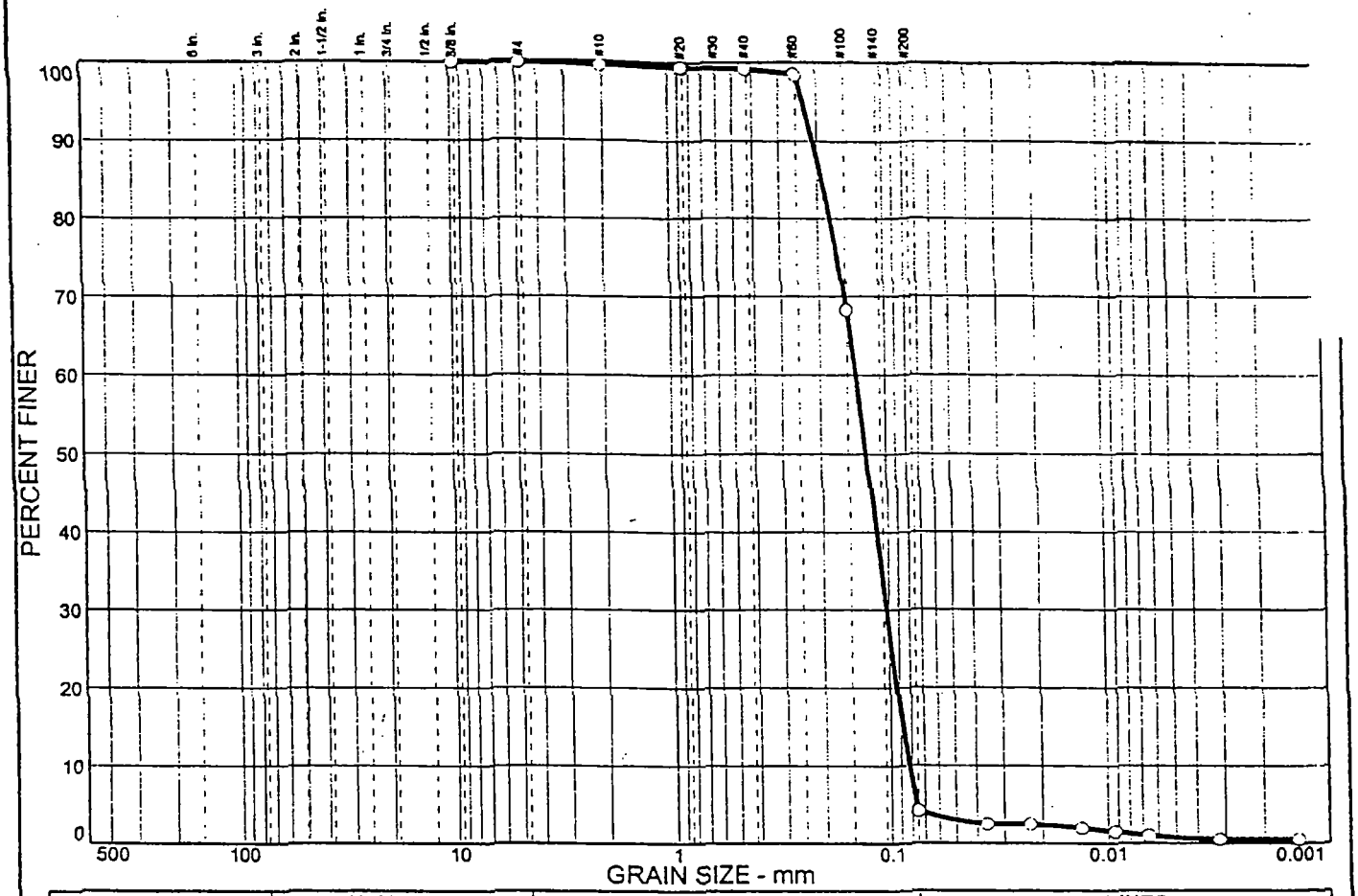
Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = % GRAVEL =
% SAND = 94.5 (% coarse = % medium = 0.3 % fine = 94.2)
% SILT = 4.8 % CLAY = 0.7

D_{85}= 0.21 D_{60}= 0.15 D_{50}= 0.14
D_{30}= 0.11 D_{15}= 0.09 D_{10}= 0.08
C_c= 0.9383 C_u= 1.8635

3 10 0335

MATERIALS ENGINEERING LABORATORY

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.2	0.3	0.3	95.0	3.5	0.7

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.375 in.	100.0		
#4	99.8		
#10	99.5		
#20	99.4		
#40	99.2		
#60	98.5		
#100	68.2		
#200	4.2		

* (no specification provided)

Soil Description

FINE SAND

Atterberg Limits

PL= --- LL= --- PI= ---

Coefficients

D_{85}= 0.191 D_{60}= 0.137 D_{50}= 0.124
D_{30}= 0.103 D_{15}= 0.0875 D_{10}= 0.0821
C_u= 1.67 C_c= 0.93

Classification

USCS= --- AASHTO= ---

Remarks

Sample No.: BDC036 **Source of Sample:** **Date:** 7/6/00
Location: **Elev./Depth:**

Thompson Engineering

Client: STL SAVANNAH LABORATORIES
Project: SAVANNAH #: S0-03940
Project No: 2000-00-0580 **Plate**

3 10 0336

GRAIN SIZE DISTRIBUTION TEST DATA

Client: STL SAVANNAH LABORATORIES
Project: SAVANNAH #: S0-03940
Project Number: 2000-00-0580

Sample Data

Source:
Sample No.: BDC036
Elev. or Depth: **Sample Length (in./cm.):**
Location:
Description: FINE SAND
Date: 7/6/00 **PL:** - - - **LL:** - - - **PI:** - - -
USCS Classification: - - - **AASHTO Classification:** - - -
Testing Remarks:

Mechanical Analysis Data

	Initial
Dry sample and tare=	189.01
Tare =	0.00
Dry sample weight =	189.01

Sample split on number 10 sieve
Split sample data:
Sample and tare = 100.31 Tare = .00 Sample weight = 100.31
Cumulative weight retained tare= .00
Tare for cumulative weight retained= .00

Sieve	Cumul. Wt. retained	Percent finer
.375 inch	0.00	100.0
# 4	0.38	99.8
# 10	0.90	99.5
# 20	0.11	99.4
# 40	0.30	99.2
# 60	0.99	98.5
# 100	31.54	68.2
# 200	96.08	4.2

Hydrometer Analysis Data

Separation sieve is #10
Percent -#10 based upon complete sample= 99.5
Weight of hydrometer sample: 100.79
Hygroscopic moisture correction:
Moist weight & tare = 27.61
Dry weight & tare = 27.53
Tare = 10.64
Hygroscopic moisture= 0.5 %
Calculated biased weight= 100.82
Table of composite correction values:

Temp, deg C:	19.5	24.0
Comp. corr:	-8.0	-8.0

Meniscus correction only= 0
Specific gravity of solids= 2.65
Specific gravity correction factor= 1.000

3 10 0337

Hydrometer type: 152H
Effective depth L= 16.294964 - 0.164 x Rm

Elapsed time, min	Temp, deg C	Actual reading	Corrected reading	K	Rm	Eff. depth	Diameter mm	Perc fine
2.00	21.9	10.5	2.5	0.0133	10.5	14.6	0.0360	2.
5.00	21.9	10.5	2.5	0.0133	10.5	14.6	0.0228	2.
15.00	22.0	10.0	2.0	0.0133	10.0	14.7	0.0132	2.
30.00	22.0	9.5	1.5	0.0133	9.5	14.7	0.0093	1.
60.00	22.2	9.0	1.0	0.0133	9.0	14.8	0.0066	1.
250.00	23.6	8.5	0.5	0.0131	8.5	14.9	0.0032	0.
1440.00	19.8	8.5	0.5	0.0137	8.5	14.9	0.0014	0.

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = % GRAVEL = 0.2 (% coarse = % fine = 0.2)
% SAND = 95.6 (% coarse = 0.3 % medium = 0.3 % fine = 95.0)
% SILT = 3.5 % CLAY = 0.7

D_{85}= 0.19 D_{60}= 0.14 D_{50}= 0.12
D_{30}= 0.10 D_{15}= 0.09 D_{10}= 0.08
C_c= 0.9343 C_u= 1.6694

MATERIALS ENGINEERING LABORATORY

Thompson Engineering

LETTER OF TRANSMITTAL

To: STL Savannah Laboratories	Date: 07/06/00	Job No. 2000-00-0579
5102 LaRoche Avenue	Re: Savannah # S0-03979	
Savannah, Ga. 31404		
Attention: Gloria Fulwood		

We Are Sending You X Attached __ Under Separate cover via ___ the following items

COPIES	DATE	NO.	DESCRIPTION
1	07/06/00	3	Particle Size Distribution Test Report (ASTM D 422)
1	06/19/00	1	Chain of Custody

These are Transmitted as checked below

__ For approval __ For your use X As requested __ For review and comment

Remarks Thompson Engineering Testing, Inc. appreciates the opportunity to be of continued service to STL Savannah Laboratories. If there are any questions regarding this submittal, please feel free to call.

JAD

B. Dwayne Smith
Project Engineer
Alabama Registration No. 22779

Dale Nobles
Materials Laboratory Manager

Corporate Office: 3707 Cottage Hill Rd. • P.O. Box 9637 • Mobile, AL 36691 • 334-666-2443 • Fax 334-666-6422

Serial Number 016135

Savannah Laboratories
a division of Severn Trent Laboratories, Inc.

ANALYSIS REQUEST AND CHAIN OF COSTODY RECORD

2000-00-0579

○ 5102 LaRoche Avenue, Savannah, GA 31404 Phone: (912) 354-7858 Fax: (912) 352-0165
○ 2846 Industrial Plaza Drive, Tallahassee, FL 32301 Phone: (850) 878-3994 Fax: (850) 878-9504
○ 900 Lakeside Drive, Mobile, AL 36693 Phone: (334) 666-6633 Fax: (334) 666-6696
○ 6712 Benjamin Rd., Suite 100, Tampa, FL 33634 Phone: (813) 885-7427 Fax: (813) 885-7049

PROJECT REFERENCE	
PROJECT NO.	60-03979
PROJECT LOCATION (STATE)	FL
STL (LAB) PROJECT MANAGER	
P.O. NUMBER	510586
CONTRACT NO.	
CLIENT (SITE) PM	Gloria Fulwood
CLIENT PHONE	9123547858
CLIENT FAX	9123520165
CLIENT NAME	STL Savannah
CLIENT EMAIL	
CLIENT ADDRESS	5102 La Roche Ave Sav'h GA 31404
COMPANY CONTRACTING THIS WORK (if applicable):	
PAGE	1 OF 1
STANDARD REPORT DELIVERY	○ DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE)	○ DATE DUE
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:	

MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT, ETC)

REQUIRED ANALYSES: Grain Size

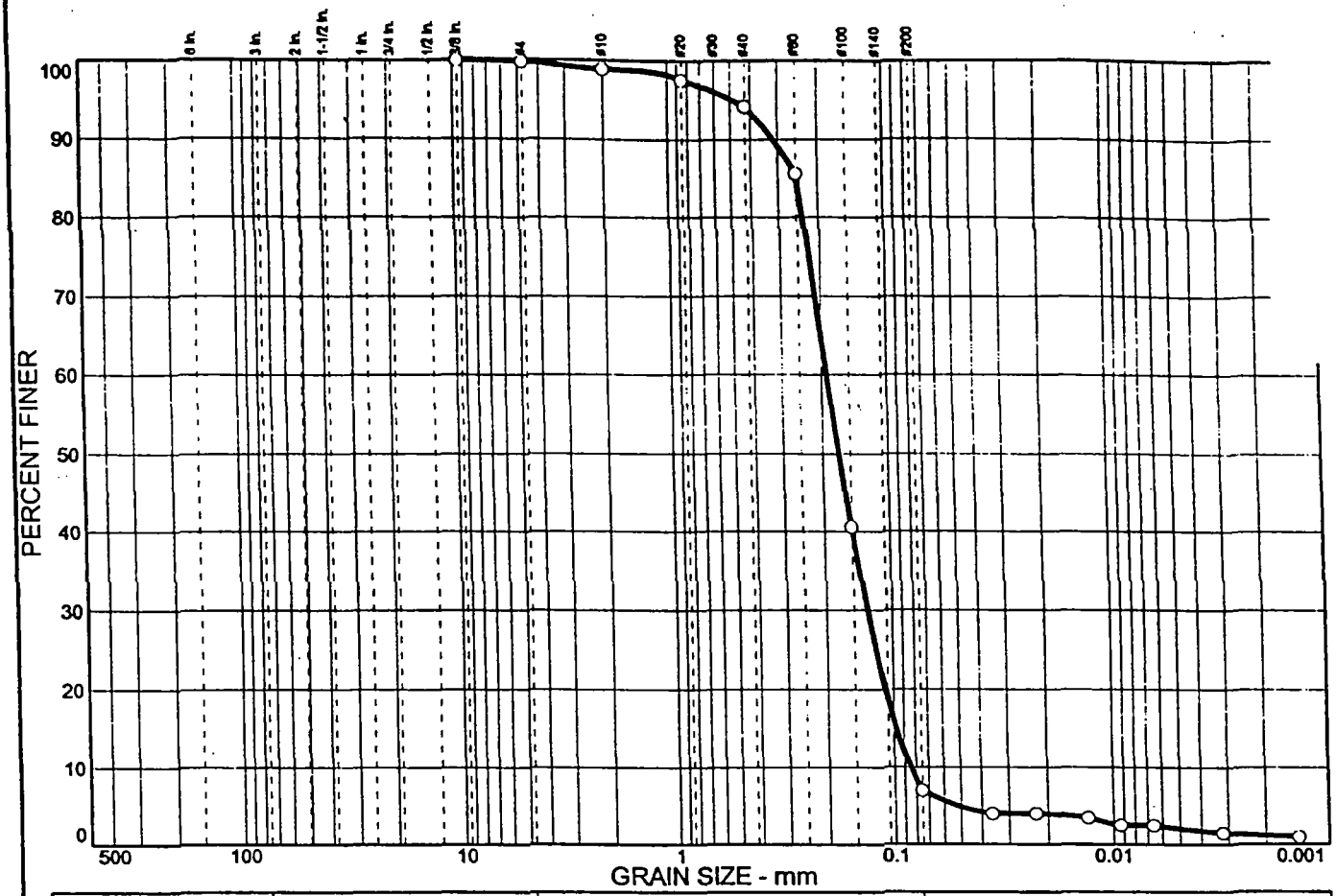
SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	C/G	AQUEOUS	SOLID	AIR	NONAQUEOUS	Grain Size (NUMBER OF CONTAINERS SUBMITTED)									REMARKS
6/15	9:15	BDC040			✓			✓									
6/15	11:10	BDC044			✓			✓									
6/15	13:50	BDC046			✓			✓									

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS						K Corm	6/19/00	500
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**
EMPTY CONTAINERS						[signature]	6/21/00	1700

LABORATORY USE ONLY

RECEIVED BY	DATE	TIME	CUSTODY INTACT	CUSTODY	STL-SL LOG NO.	LABORATORY REMARKS:

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.2	0.9	4.6	87.3	4.9	2.1

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.375 in.	100.0		
#4	99.8		
#10	98.9		
#20	97.6		
#40	94.3		
#60	85.6		
#100	40.6		
#200	7.0		

* (no specification provided)

Soil Description

FINE SAND

Atterberg Limits

PL= --- LL= --- PI= ---

Coefficients

D_{85}= 0.248 D_{60}= 0.189 D_{50}= 0.169
D_{30}= 0.129 D_{15}= 0.0969 D_{10}= 0.0842
C_u= 2.25 C_c= 1.04

Classification

USCS= --- AASHTO= ---

Remarks

Sample No.: BCD040 **Source of Sample:** **Date:** 7/6/00
Location: **Elev./Depth:**

Thompson Engineering

Client: STL SAVANNAH LABORATORIES
Project: SAVANNAH #: S0-03979
Project No: 2000-00-0579 **Plate**

3 10 0341

GRAIN SIZE DISTRIBUTION TEST DATA

Client: STL SAVANNAH LABORATORIES
Project: SAVANNAH #: S0-03979
Project Number: 2000-00-0579

Sample Data

Source:
Sample No.: BCD040
Elev. or Depth: **Sample Length (in./cm.):**
Location:
Description: FINE SAND
Date: 7/6/00 **PL:** - - - **LL:** - - - **PI:** - - -
USCS Classification: - - - **AASHTO Classification:** - - -
Testing Remarks:

Mechanical Analysis Data

	Initial
Dry sample and tare=	169.44
Tare =	0.00
Dry sample weight =	169.44

Sample split on number 10 sieve
Split sample data:
Sample and tare = 100.18 Tare = .00 Sample weight = 100.18
Cumulative weight retained tare= .00
Tare for cumulative weight retained= .00

Sieve	Cumul. Wt. retained	Percent finer
.375 inch	0.00	100.0
# 4	0.35	99.8
# 10	1.88	98.9
# 20	1.29	97.6
# 40	4.65	94.3
# 60	13.52	85.6
# 100	59.08	40.6
# 200	93.12	7.0

Hydrometer Analysis Data

Separation sieve is #10
Percent -#10 based upon complete sample= 98.9
Weight of hydrometer sample: 100.57
Hygroscopic moisture correction:
Moist weight & tare = 37.76
Dry weight & tare = 37.66
Tare = 11.91
Hygroscopic moisture= 0.4 %
Calculated biased weight= 101.30
Table of composite correction values:

Temp, deg C:	19.5	24.0
Comp. corr:	-8.0	-8.0

Meniscus correction only= 0
Specific gravity of solids= 2.65
Specific gravity correction factor= 1.000

Hydrometer type: 152H

Effective depth L= 16.294964 - 0.164 x Rm

Elapsed time, min	Temp, deg C	Actual reading	Corrected reading	K	Rm	Eff. depth	Diameter mm	Per fin
2.00	21.9	12.0	4.0	0.0133	12.0	14.3	0.0357	[illegible]
5.00	21.9	12.0	4.0	0.0133	12.0	14.3	0.0226	[illegible]
15.00	22.0	11.5	3.5	0.0133	11.5	14.4	0.0130	[illegible]
30.00	22.1	10.5	2.5	0.0133	10.5	14.6	0.0093	[illegible]
60.00	22.1	10.5	2.5	0.0133	10.5	14.6	0.0066	[illegible]
250.00	23.6	9.5	1.5	0.0131	9.5	14.7	0.0032	[illegible]
1440.00	19.8	9.0	1.0	0.0137	9.0	14.8	0.0014	[illegible]

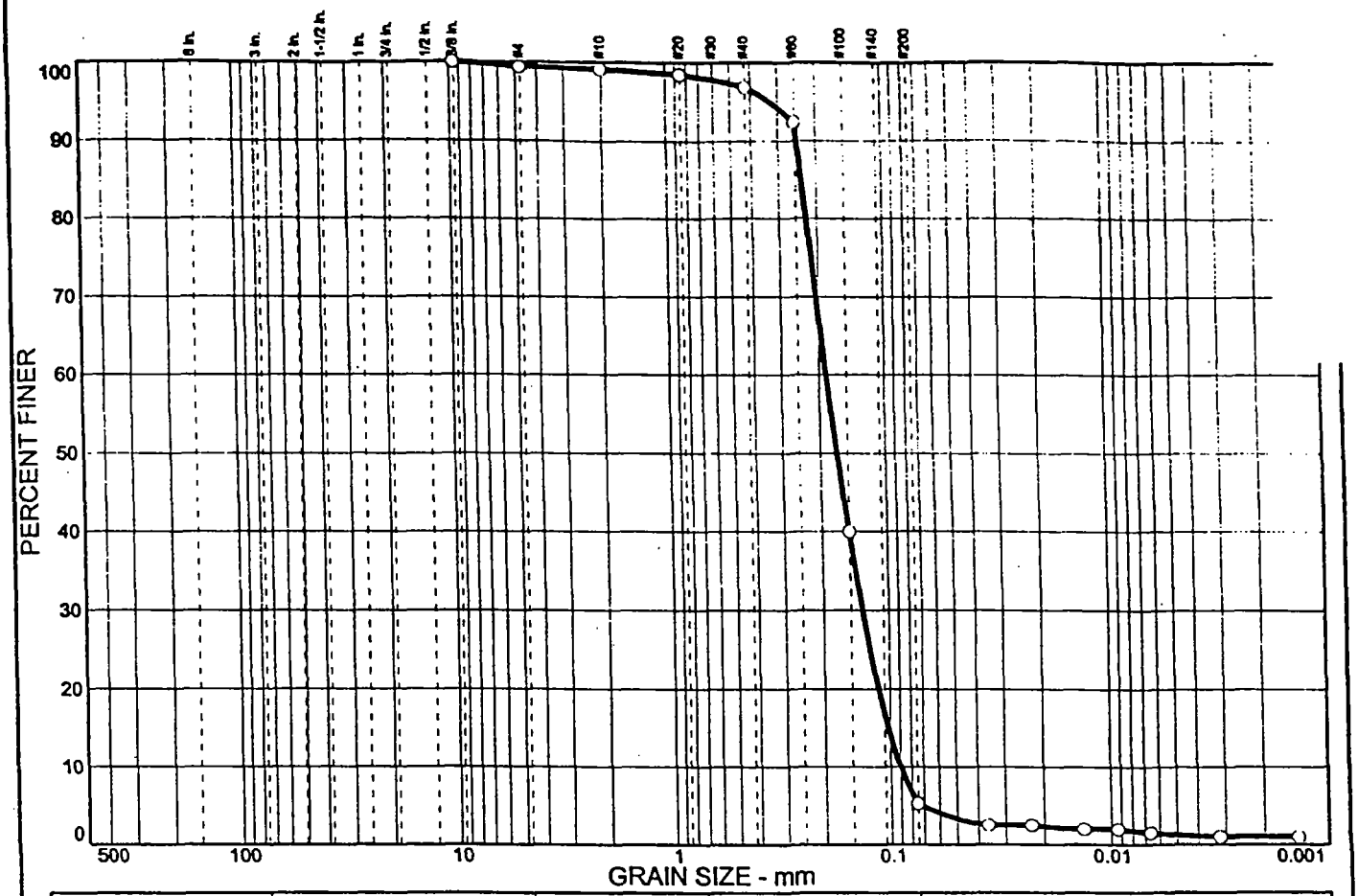
Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = % GRAVEL = 0.2 (% coarse = % fine = 0.2)
% SAND = 92.8 (% coarse = 0.9 % medium = 4.6 % fine = 87.3)
% SILT = 4.9 % CLAY = 2.1

D_{85}= 0.25 D_{60}= 0.19 D_{50}= 0.17
D_{30}= 0.13 D_{15}= 0.10 D_{10}= 0.08
C_c= 1.0426 C_u= 2.2459

MATERIALS ENGINEERING LABORATORY
3 10 0343

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.6	0.3	2.2	91.6	4.1	1.2

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.375 in.	100.0		
#4	99.4		
#10	99.1		
#20	98.5		
#40	96.9		
#60	92.4		
#100	40.0		
#200	5.3		

* (no specification provided)

Soil Description

FINE SAND

Atterberg Limits

PL= --- LL= --- PI= ---

Coefficients

D_{85}= 0.234 D_{60}= 0.185 D_{50}= 0.168
D_{30}= 0.132 D_{15}= 0.101 D_{10}= 0.0893
C_u= 2.08 C_c= 1.05

Classification

USCS= --- AASHTO= ---

Remarks

Sample No.: BDC044 **Source of Sample:** **Date:** 7/6/00
Location: **Elev./Depth:**

Thompson Engineering

Client: STL SAVANNAH LABORATORIES
Project: SAVANNAH #: S0-03979
Project No: 2000-00-0579 **Plate**

3 10 0344

GRAIN SIZE DISTRIBUTION TEST DATA

Client: STL SAVANNAH LABORATORIES
Project: SAVANNAH #: S0-03979
Project Number: 2000-00-0579

Sample Data

Source:
Sample No.: BDC044
Elev. or Depth: **Sample Length (in./cm.):**
Location:
Description: FINE SAND
Date: 7/6/00 **PL:** - - - **LL:** - - - **PI:** - - -
USCS Classification: - - - **AASHTO Classification:** - - -
Testing Remarks:

Mechanical Analysis Data

	Initial
Dry sample and tare=	206.88
Tare =	0.00
Dry sample weight =	206.88

Sample split on number 10 sieve
Split sample data:
Sample and tare = 100.22 Tare = .00 Sample weight = 100.22
Cumulative weight retained tare= .00
Tare for cumulative weight retained= .00

Sieve	Cumul. Wt. retained	Percent finer
.375 inch	0.00	100.0
# 4	1.17	99.4
# 10	1.97	99.1
# 20	0.57	98.5
# 40	2.18	96.9
# 60	6.78	92.4
# 100	59.81	40.0
# 200	94.84	5.3

Hydrometer Analysis Data

Separation sieve is #10
Percent -#10 based upon complete sample= 99.1
Weight of hydrometer sample: 100.62
Hygroscopic moisture correction:
Moist weight & tare = 49.25
Dry weight & tare = 49.10
Tare = 11.05
Hygroscopic moisture= 0.4 %
Calculated biased weight= 101.14
Table of composite correction values:

Temp, deg C:	19.5	24.0
Comp. corr:	-8.0	-8.0

Meniscus correction only= 0
Specific gravity of solids= 2.65
Specific gravity correction factor= 1.000

Hydrometer type: 152H

Effective depth L= 16.294964 - 0.164 x Rm

Elapsed time, min	Temp, deg C	Actual reading	Corrected reading	K	Rm	Eff. depth	Diameter mm	Per fir
2.00	21.9	10.5	2.5	0.0133	10.5	14.6	0.0360	:
5.00	21.9	10.5	2.5	0.0133	10.5	14.6	0.0228	:
15.00	21.9	10.0	2.0	0.0133	10.0	14.7	0.0132	:
30.00	22.1	10.0	2.0	0.0133	10.0	14.7	0.0093	:
60.00	22.1	9.5	1.5	0.0133	9.5	14.7	0.0066	:
250.00	23.6	9.0	1.0	0.0131	9.0	14.8	0.0032	:
1440.00	19.9	9.0	1.0	0.0137	9.0	14.8	0.0014	:

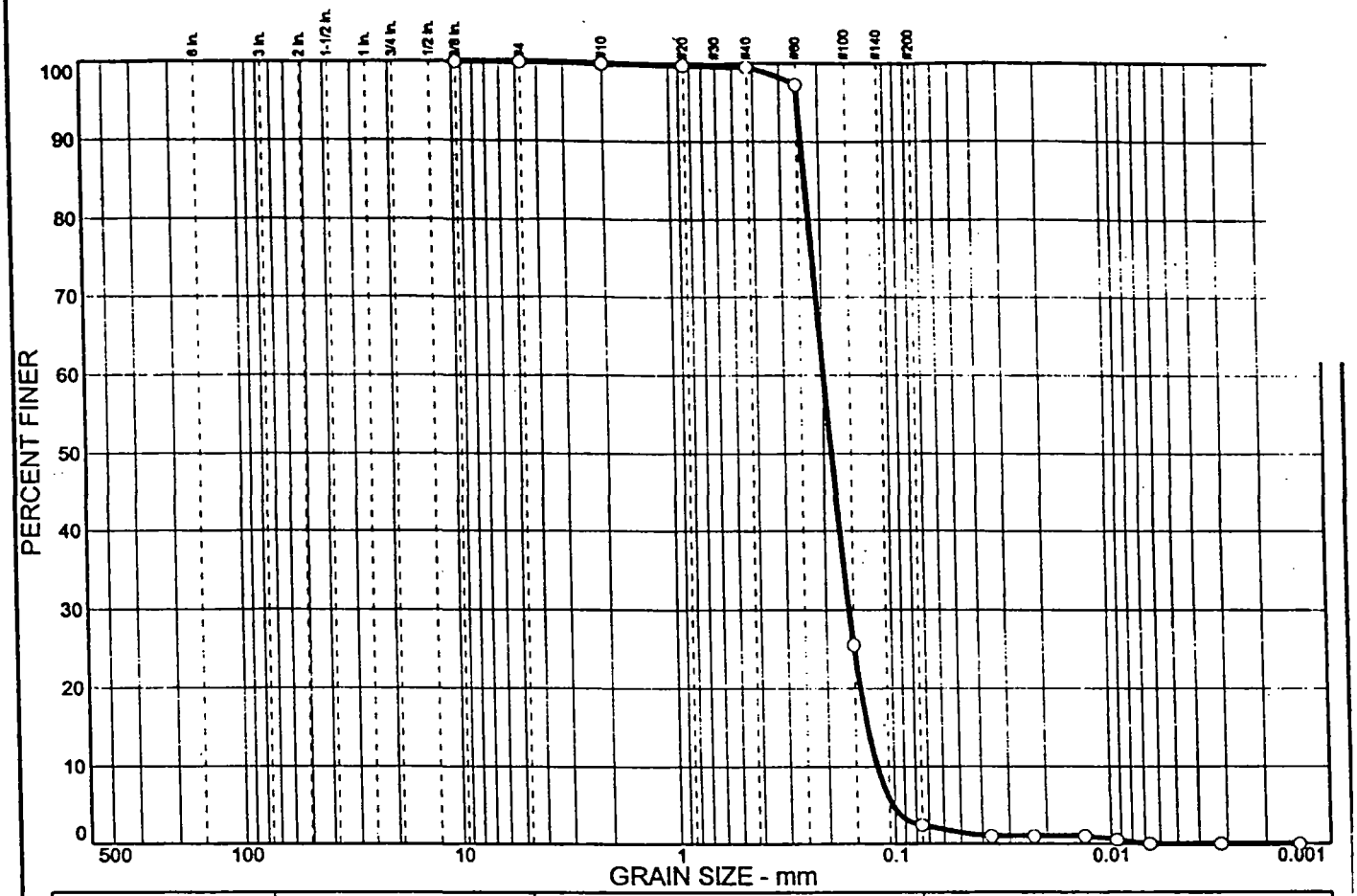
Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = % GRAVEL = 0.6 (% coarse = % fine = 0.6)
% SAND = 94.1 (% coarse = 0.3 % medium = 2.2 % fine = 91.6)
% SILT = 4.1 % CLAY = 1.2

D_{85}= 0.23 D_{60}= 0.19 D_{50}= 0.17
D_{30}= 0.13 D_{15}= 0.10 D_{10}= 0.09
C_c= 1.049 C_u= 2.0753

MATERIALS ENGINEERING LABORATORY

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.0	0.1	0.4	97.1	2.4	0.0

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.375 in.	100.0		
#4	100.0		
#10	99.9		
#20	99.7		
#40	99.5		
#60	97.3		
#100	25.6		
#200	2.4		

* (no specification provided)

Soil Description

FINE SAND

Atterberg Limits

PL= --- LL= --- PI= ---

Coefficients

D_{85}= 0.232 D_{60}= 0.197 D_{50}= 0.184
D_{30}= 0.157 D_{15}= 0.131 D_{10}= 0.119
C_u= 1.66 C_c= 1.04

Classification

USCS= --- AASHTO= ---

Remarks

Sample No.: BDC046 **Source of Sample:** **Date:** 7/6/00
Location: **Elev./Depth:**

Thompson Engineering

Client: STL SAVANNAH LABORATORIES
Project: SAVANNAH #: S0-03979
Project No: 2000-00-0579 **Plate**

3 10 .0347

GRAIN SIZE DISTRIBUTION TEST DATA

Client: STL SAVANNAH LABORATORIES
Project: SAVANNAH #: S0-03979
Project Number: 2000-00-0579

Sample Data

Source:
Sample No.: BDC046
Elev. or Depth: **Sample Length (in./cm.):**
Location:
Description: FINE SAND
Date: 7/6/00 **PL:** - - - **LL:** - - - **PI:** - - -
USCS Classification: - - - **AASHTO Classification:** - - -
Testing Remarks:

Mechanical Analysis Data

	Initial
Dry sample and tare=	205.17
Tare =	0.00
Dry sample weight =	205.17

Sample split on number 10 sieve
Split sample data:
Sample and tare = 100.41 Tare = .00 Sample weight = 100.41
Cumulative weight retained tare= .00
Tare for cumulative weight retained= .00

Sieve	Cumul. Wt. retained	Percent finer
.375 inch	0.00	100.0
# 4	0.11	100.0
# 10	0.19	99.9
# 20	0.18	99.7
# 40	0.45	99.5
# 60	2.59	97.3
# 100	74.67	25.6
# 200	98.02	2.4

Hydrometer Analysis Data

Separation sieve is #10
Percent -#10 based upon complete sample= 99.9
Weight of hydrometer sample: 100.58
Hygroscopic moisture correction:
Moist weight & tare = 41.32
Dry weight & tare = 41.27
Tare = 11.39
Hygroscopic moisture= 0.2 %
Calculated biased weight= 100.51
Table of composite correction values:

Temp, deg C:	19.5	23.5
Comp. corr:	-8.0	-8.0

Meniscus correction only= 0
Specific gravity of solids= 2.65
Specific gravity correction factor= 1.000

Hydrometer type: 152H
Effective depth L= 16.294964 - 0.164 x Rm

Elapsed time, min	Temp, deg C	Actual reading	Corrected reading	K	Rm	Eff. depth	Diameter mm	Pe fi
2.00	21.8	9.0	1.0	0.0133	9.0	14.8	0.0363	
5.00	21.9	9.0	1.0	0.0133	9.0	14.8	0.0229	
15.00	21.9	9.0	1.0	0.0133	9.0	14.8	0.0132	
30.00	22.1	8.5	0.5	0.0133	8.5	14.9	0.0094	
60.00	22.1	8.0	0.0	0.0133	8.0	15.0	0.0066	
250.00	23.5	8.0	0.0	0.0131	8.0	15.0	0.0032	
1440.00	19.8	8.0	0.0	0.0137	8.0	15.0	0.0014	

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = % GRAVEL =
% SAND = 97.6 (% coarse = 0.1 % medium = 0.4 % fine = 97.1)
% FINES = 2.4

D_{85}= 0.23 D_{60}= 0.20 D_{50}= 0.18
D_{30}= 0.16 D_{15}= 0.13 D_{10}= 0.12
C_c= 1.0429 C_u= 1.6551

MATERIALS ENGINEERING LABORATORY

Thompson Engineering

LETTER OF TRANSMITTAL

To: STL Savannah Laboratories	Date: 07/09/00	Job No. 2000-00-0592
5102 LaRoche Avenue	Re: Savannah # S0-04035	
Savannah, Ga. 31404		
Attention: Gloria Fulwood		

We Are Sending You X Attached _ Under Separate cover via ___ the following items

COPIES	DATE	NO.	DESCRIPTION
1	07/09/00	2	Particle Size Distribution Test Report (ASTM D 422)
1	06/23/00	1	Chain of Custody

These are Transmitted as checked below

__ For approval __ For your use X As requested __ For review and comment

Remarks Thompson Engineering Testing, Inc. appreciates the opportunity to be of continued service to STL Savannah Laboratories. If there are any questions regarding this submittal, please feel free to call.

B. Dwayne Smith
Project Engineer
Alabama Registration No. 22779

Dale Nobles
Materials Laboratory Manager

JAD40

Corporate Office: 3707 Cottage Hill Rd. • P.O. Box 9637 • Mobile, AL 36691 • 334-666-2443 • Fax 334-666-6422

3 10 0350

Serial Number U16136

STL Savannah Laboratories
a division of Severn Trent Laboratories, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

5102 LaRoche Avenue, Savannah, GA 31404 — Phone: (912) 354-7858 — Fax: (912) 352-0165
2846 Industrial Plaza Drive, Tallahassee, FL 32301 — Phone: (850) 878-3994 — Fax: (850) 878-9504
900 Lakeside Drive, Mobile, AL 36693 — Phone: (334) 666-6633 — Fax: (334) 666-6696
6712 Benjamin Rd., Suite 100, Tampa, FL 33634 — Phone: (813) 885-7427 — Fax: (813) 885-7049

PROJECT REFERENCE	PROJECT NO. SO-04035	PROJECT LOCATION (STATE) FL
STL (LAB) PROJECT MANAGER C. FULWOOD	P.O. NUMBER S10587	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE 912 354 7959	CLIENT FAX 352.0165 912 ~~354 7930~~
CLIENT NAME STL Savannah	CLIENT EMAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable):		

PAGE ___ OF ___

STANDARD REPORT DELIVERY ○
DATE DUE ___
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE ___
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ETC)	Grain Size	REMARKS
6/20	0900	BDC052 Bowl#XX			✓			✓	
6/20	1115	BDC056 Bowl# 945			✓			✓	

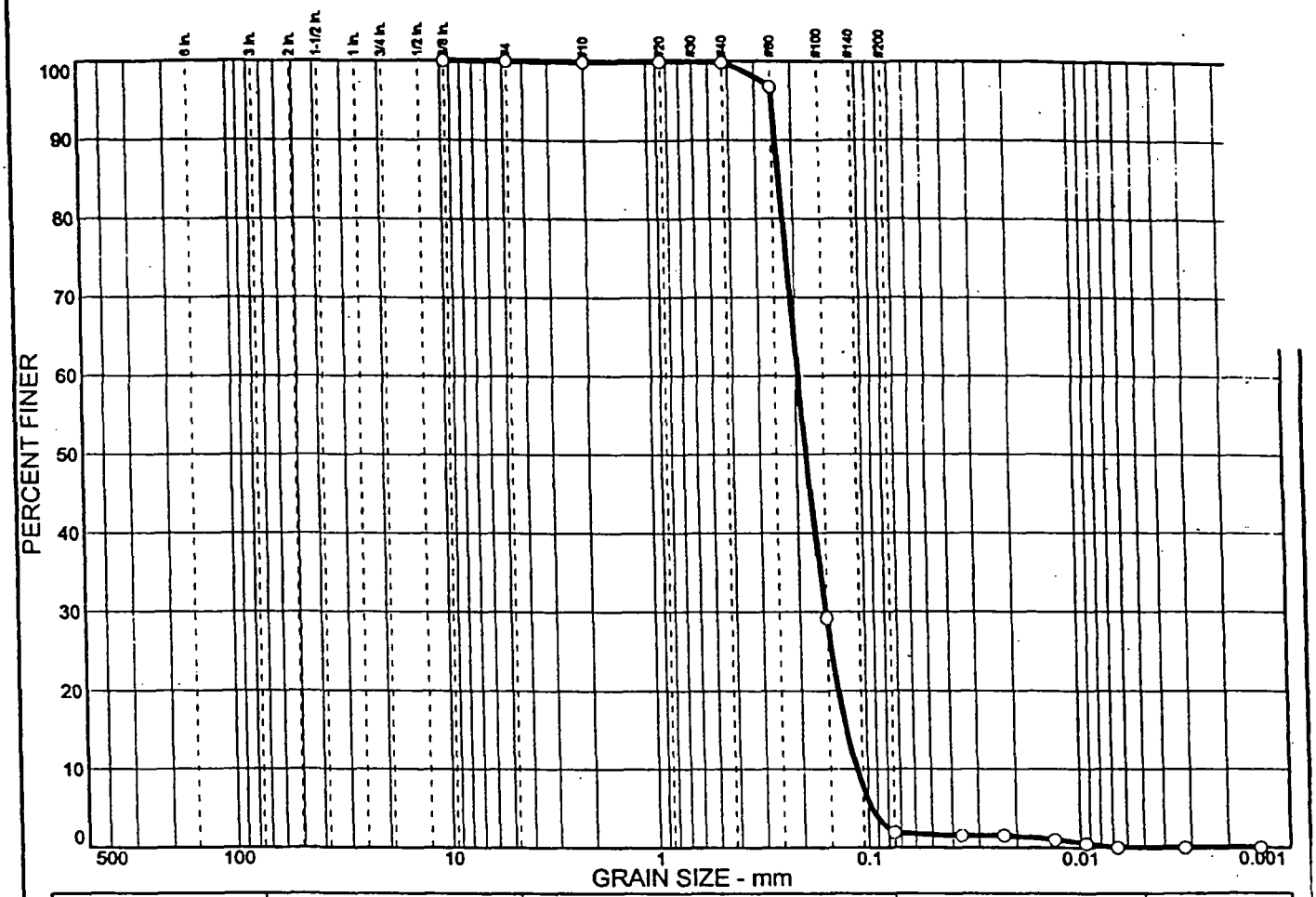
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS						K Conner	6/21/00	315
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**
EMPTY CONTAINERS						[illegible]	6/23/00	1700

LABORATORY USE ONLY

TIME | CUSTODY INTACT | CUSTODY | STL-SL LOG NO. | LABORATORY REMARKS:

3 10 0351

Particle Size Distribution Report



% COBBLES	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	98.1	1.9	0.0

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.375 in.	100.0		
#4	100.0		
#10	100.0		
#20	100.0		
#40	99.8		
#60	96.8		
#100	29.2		
#200	1.9		

* (no specification provided)

Soil Description

FINE SAND

Atterberg Limits

PL= --- LL= --- PI= ---

Coefficients

D_{85}= 0.231 D_{60}= 0.194 D_{50}= 0.180
D_{30}= 0.151 D_{15}= 0.124 D_{10}= 0.112
C_u= 1.73 C_c= 1.05

Classification

USCS= AASHTO=

Remarks

Sample No.: BDC052 **Source of Sample:** **Date:**
Location: **Elev./Depth:**

Thompson Engineering

Client: STL SAVANNAH LABORATORIES
Project: SAVANNAH #: S0-04035
Project No: 2000-00-0592 **Plate**

3 10 0352

GRAIN SIZE DISTRIBUTION TEST DATA

Client: STL SAVANNAH LABORATORIES
Project: SAVANNAH #: S0-04035
Project Number: 2000-00-0592

Sample Data

Source:
Sample No.: BDC052
Elev. or Depth: **Sample Length (in./cm.):**
Location:
Description: FINE SAND
Date: **PL:** - - - **LL:** - - - **PI:** - - -
USCS Classification: **AASHTO Classification:**
Testing Remarks:

Mechanical Analysis Data

	Initial
Dry sample and tare=	184.24
Tare =	0.00
Dry sample weight =	184.24

Sample split on number 10 sieve
Split sample data:
Sample and tare = 101.61 Tare = .00 Sample weight = 101.61
Cumulative weight retained tare= .00
Tare for cumulative weight retained= .00

Sieve	Cumul. Wt. retained	Percent finer
.375 inch	0.00	100.0
# 4	0.00	100.0
# 10	0.00	100.0
# 20	0.02	100.0
# 40	0.22	99.8
# 60	3.21	96.8
# 100	71.97	29.2
# 200	99.66	1.9

Hydrometer Analysis Data

Separation sieve is #10
Percent -#10 based upon complete sample= 100.0
Weight of hydrometer sample: 101.73
Hygroscopic moisture correction:
Moist weight & tare = 36.92
Dry weight & tare = 36.89
Tare = 11.53
Hygroscopic moisture= 0.1 %
Calculated biased weight= 101.61
Table of composite correction values:

Temp, deg C:	19.0	24.0
Comp. corr:	-8.0	-8.0

Meniscus correction only= 0
Specific gravity of solids= 2.65
Specific gravity correction factor= 1.000

Hydrometer type: 152H
Effective depth L= 16.294964 - 0.164 x Rm

Elapsed time, min	Temp, deg C	Actual reading	Corrected reading	K	Rm	Eff. depth	Diameter mm	Per fin
2.00	22.0	9.5	1.5	0.0133	9.5	14.7	0.0361	1
5.00	21.9	9.5	1.5	0.0133	9.5	14.7	0.0229	1
15.00	22.0	9.0	1.0	0.0133	9.0	14.8	0.0132	1
30.00	22.0	8.5	0.5	0.0133	8.5	14.9	0.0094	0
60.00	22.1	8.0	0.0	0.0133	8.0	15.0	0.0066	0
250.00	23.4	8.0	0.0	0.0131	8.0	15.0	0.0032	0
1440.00	19.9	8.0	0.0	0.0137	8.0	15.0	0.0014	0

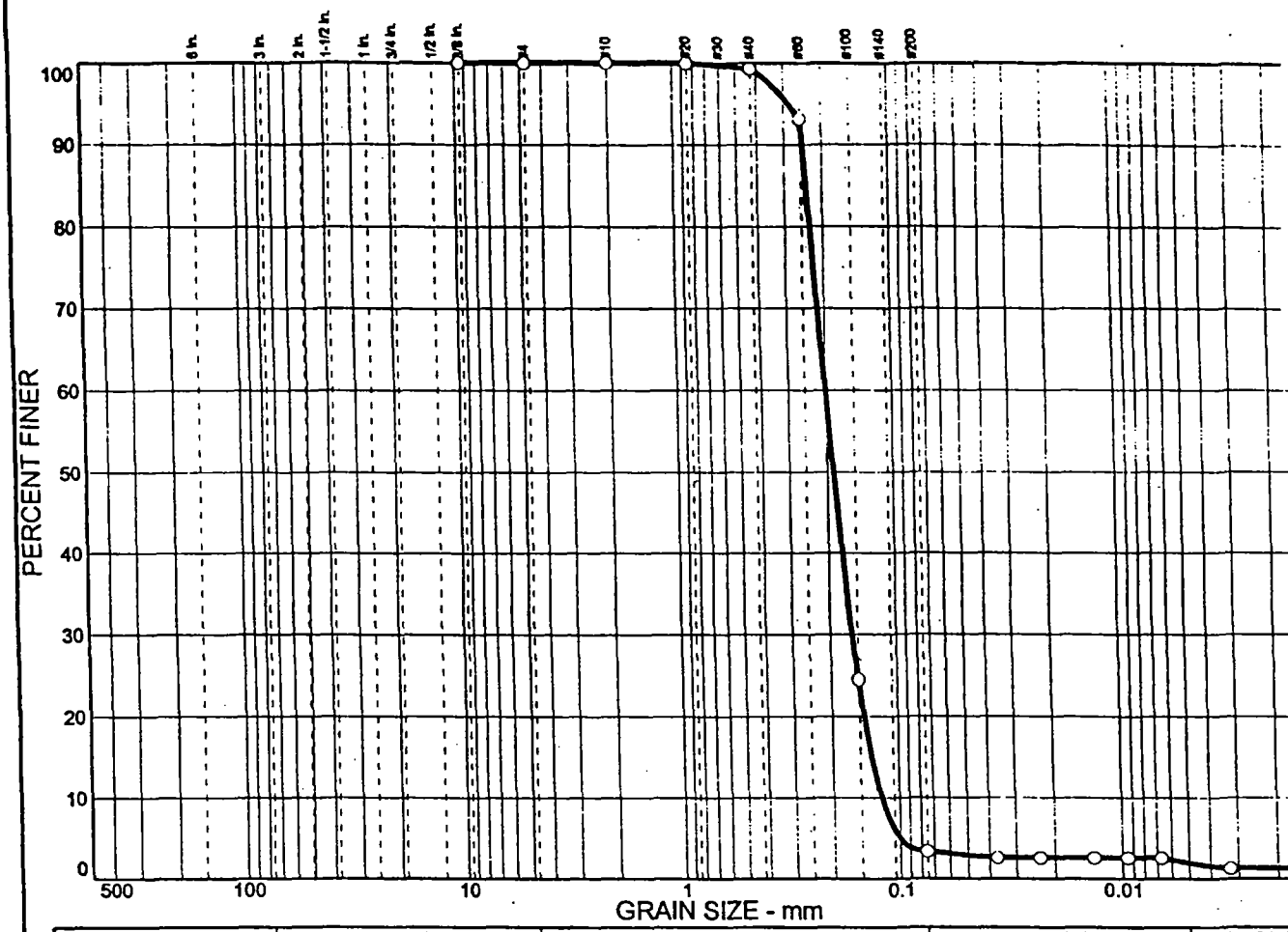
Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = % GRAVEL = % SAND = 98.1
% FINES = 1.9

D_{85}= 0.23 D_{60}= 0.19 D_{50}= 0.18
D_{30}= 0.15 D_{15}= 0.12 D_{10}= 0.11
C_c= 1.0496 C_u= 1.7336

Leroy Bailey
MATERIALS ENGINEERING LABORATORY

Particle Size Distribution Report



% COBBLES	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	96.6	1.4	2.0

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.375 in.	100.0		
#4	100.0		
#10	100.0		
#20	99.9		
#40	99.3		
#60	93.2		
#100	24.6		
#200	3.4		

* (no specification provided)

Soil Description

FINE SAND

Atterberg Limits

PL= --- LL= --- PI= ---

Coefficients

D_{85}= 0.237 D_{60}= 0.201 D_{50}= 0.187
D_{30}= 0.159 D_{15}= 0.132 D_{10}= 0.120
C_u= 1.68 C_c= 1.05

Classification

USCS= AASHTO=

Remarks

Sample No.: BDC056 **Source of Sample:** **Date:**
Location: **Elev./Depth:**

Thompson Engineering

Client: STL SAVANNAH LABORATORIES
Project: SAVANNAH #: S0-04035
Project No: 2000-00-0592 **Plate**

3 10 .0355

GRAIN SIZE DISTRIBUTION TEST DATA

Client: STL SAVANNAH LABORATORIES
Project: SAVANNAH #: S0-04035
Project Number: 2000-00-0592

Sample Data

Source:
Sample No.: BDC056
Elev. or Depth: **Sample Length (in./cm.):**
Location:
Description: FINE SAND
Date: **PL:** - - - **LL:** - - - **PI:** - - -
USCS Classification: **AASHTO Classification:**
Testing Remarks:

Mechanical Analysis Data

	Initial
Dry sample and tare=	229.52
Tare =	0.00
Dry sample weight =	229.52

Sample split on number 10 sieve
Split sample data:
Sample and tare = 76.60 Tare = .00 Sample weight = 76.60
Cumulative weight retained tare= .00
Tare for cumulative weight retained= .00

Sieve	Cumul. Wt. retained	Percent finer
.375 inch	0.00	100.0
# 4	0.00	100.0
# 10	0.00	100.0
# 20	0.11	99.9
# 40	0.54	99.3
# 60	5.20	93.2
# 100	57.75	24.6
# 200	74.01	3.4

Hydrometer Analysis Data

Separation sieve is #10
Percent -#10 based upon complete sample= 100.0
Weight of hydrometer sample: 76.72
Hygroscopic moisture correction:
Moist weight & tare = 61.07
Dry weight & tare = 60.99
Tare = 10.98
Hygroscopic moisture= 0.2 %
Calculated biased weight= 76.60
Table of composite correction values:

Temp, deg C:	19.0	22.0
Comp. corr:	-8.0	-8.0

Meniscus correction only= 0
Specific gravity of solids= 2.65
Specific gravity correction factor= 1.000

3 10 0356

Hydrometer type: 152H
Effective depth L= 16.294964 - 0.164 x Rm

Elapsed time, min	Temp, deg C	Actual reading	Corrected reading	K	Rm	Eff. depth	Diameter mm	Pe fi
2.00	20.5	10.0	2.0	0.0136	10.0	14.7	0.0367	
5.00	20.7	10.0	2.0	0.0135	10.0	14.7	0.0232	
15.00	20.7	10.0	2.0	0.0135	10.0	14.7	0.0134	
30.00	20.6	10.0	2.0	0.0135	10.0	14.7	0.0095	
60.00	21.0	10.0	2.0	0.0135	10.0	14.7	0.0067	
250.00	21.8	9.0	1.0	0.0133	9.0	14.8	0.0032	
1440.00	19.2	9.0	1.0	0.0138	9.0	14.8	0.0014	

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = % GRAVEL = % SAND = 96.6
% SILT = 1.4 % CLAY = 2.0

D_{85}= 0.24 D_{60}= 0.20 D_{50}= 0.19
D_{30}= 0.16 D_{15}= 0.13 D_{10}= 0.12
C_c= 1.0463 C_u= 1.6779

Leroy Bailey
MATERIALS ENGINEERING LABORATOR

Thompson Engineering

RECEIVED

OCT 17 2000

LETTER OF TRANSMITTAL

To: STL Savannah Laboratories	Date: 07/09/00	Job No. 2000-00-0600
5102 LaRoche Avenue	Re: Savannah # S0-04126	
Savannah, Ga. 31404		
Attention: Gloria Fulwood		

We Are Sending You X Attached __ Under Separate cover via ___ the following items

COPIES	DATE	NO.	DESCRIPTION
1	07/09/00	2	Particle Size Distribution Test Report (ASTM D 422)
1	06/28/00	1	Chain of Custody

These are Transmitted as checked below

__ For approval __ For your use X As requested __ For review and comment

Remarks Thompson Engineering Testing, Inc. appreciates the opportunity to be of continued service to STL Savannah Laboratories. If there are any questions regarding this submittal, please feel free to call.

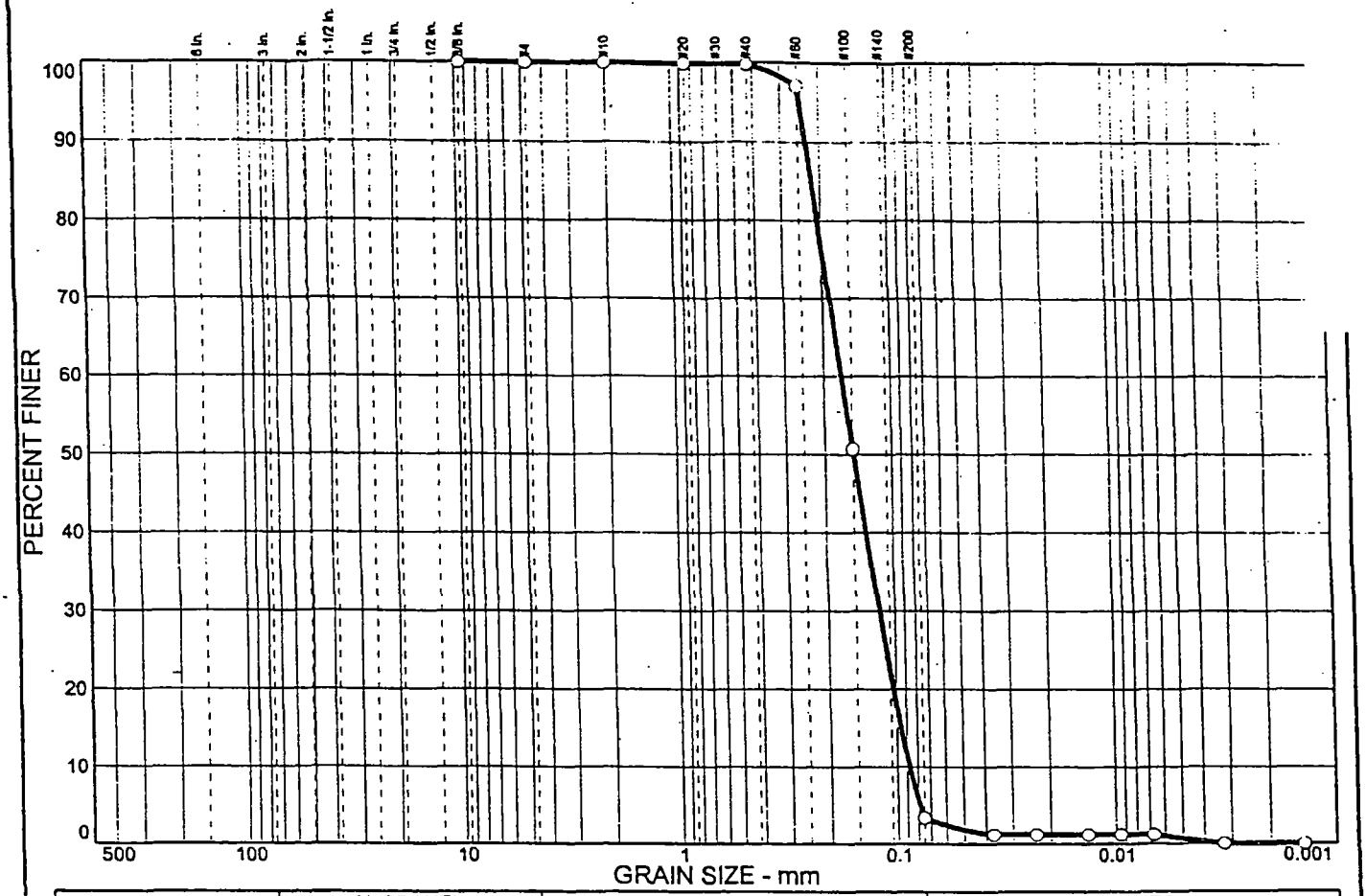
B. Dwayne Smith
Project Engineer
Alabama Registration No. 22779

Dale Nobles
Materials Laboratory Manager

3 10 0358

Corporate Office: 3707 Cottage Hill Rd. • P.O. Box 9637 • Mobile, AL 36691 • 334-666-2443 • Fax 334-666-6422

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.0	0.1	0.1	96.4	2.8	0.6

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.375 in.	100.0		
#4	100.0		
#10	99.9		
#20	99.9		
#40	99.8		
#60	97.1		
#100	50.7		
#200	3.4		

* (no specification provided)

Soil Description

FINE SAND

Atterberg Limits

PL= - - - LL= - - - PI= - - -

Coefficients

D_{85}= 0.219 D_{60}= 0.166 D_{50}= 0.149
D_{30}= 0.118 D_{15}= 0.0953 D_{10}= 0.0874
C_u= 1.90 C_c= 0.95

Classification

USCS= - - - AASHTO= - - -

Remarks

Sample No.: BDC065 **Source of Sample:** **Date:** 07/09/00
Location: **Elev./Depth:**

Thompson Engineering

Client: STL SAVANNAH LABORATORIES
Project: SAVANNAH #:S0-04126
3 10 0359
Project No: 2000-00-0600 **Plate**

GRAIN SIZE DISTRIBUTION TEST DATA

Client: STL SAVANNAH LABORATORIES
Project: SAVANNAH #:S0-04126
Project Number: 2000-00-0600

Sample Data

Source:
Sample No.: BDC065
Elev. or Depth: Sample Length (in./cm.):
Location:
Description: FINE SAND
Date: 07/09/00 PL: - - - LL: - - - PI: - - -
USCS Classification: - - - AASHTO Classification: - - -
Testing Remarks:

Mechanical Analysis Data

	Initial
Dry sample and tare=	208.00
Tare =	0.00
Dry sample weight =	208.00

Sample split on number 10 sieve
Split sample data:
Sample and tare = 86.64 Tare = .00 Sample weight = 86.64
Cumulative weight retained tare= .00
Tare for cumulative weight retained= .00

Sieve	Cumul. Wt. retained	Percent finer
.375 inch	0.00	100.0
# 4	0.01	100.0
# 10	0.12	99.9
# 20	0.02	99.9
# 40	0.12	99.8
# 60	2.40	97.1
# 100	42.71	50.7
# 200	83.67	3.4

Hydrometer Analysis Data

Separation sieve is #10
Percent -#10 based upon complete sample= 99.9
Weight of hydrometer sample: 86.74
Hygroscopic moisture correction:
Moist weight & tare = 46.60
Dry weight & tare = 46.56
Tare = 11.07
Hygroscopic moisture= 0.1 %
Calculated biased weight= 86.73
Table of composite correction values:

Temp, deg C:	19.0	23.0
Comp. corr:	-8.0	-8.0

Meniscus correction only= 0
Specific gravity of solids= 2.65
Specific gravity correction factor= 1.000

3 10 0360

Hydrometer type: 152H
Effective depth L= 16.294964 - 0.164 x Rm

Elapsed time, min	Temp, deg C	Actual reading	Corrected reading	K	Rm	Eff. depth	Diameter mm	Per fin
2.00	20.8	9.0	1.0	0.0135	9.0	14.8	0.0368	1
5.00	20.8	9.0	1.0	0.0135	9.0	14.8	0.0233	1
15.00	20.8	9.0	1.0	0.0135	9.0	14.8	0.0134	1
30.00	20.8	9.0	1.0	0.0135	9.0	14.8	0.0095	1
60.00	20.6	9.0	1.0	0.0135	9.0	14.8	0.0067	1
250.00	22.1	8.0	0.0	0.0133	8.0	15.0	0.0033	0
1440.00	19.2	8.0	0.0	0.0138	8.0	15.0	0.0014	0

Fractional Components

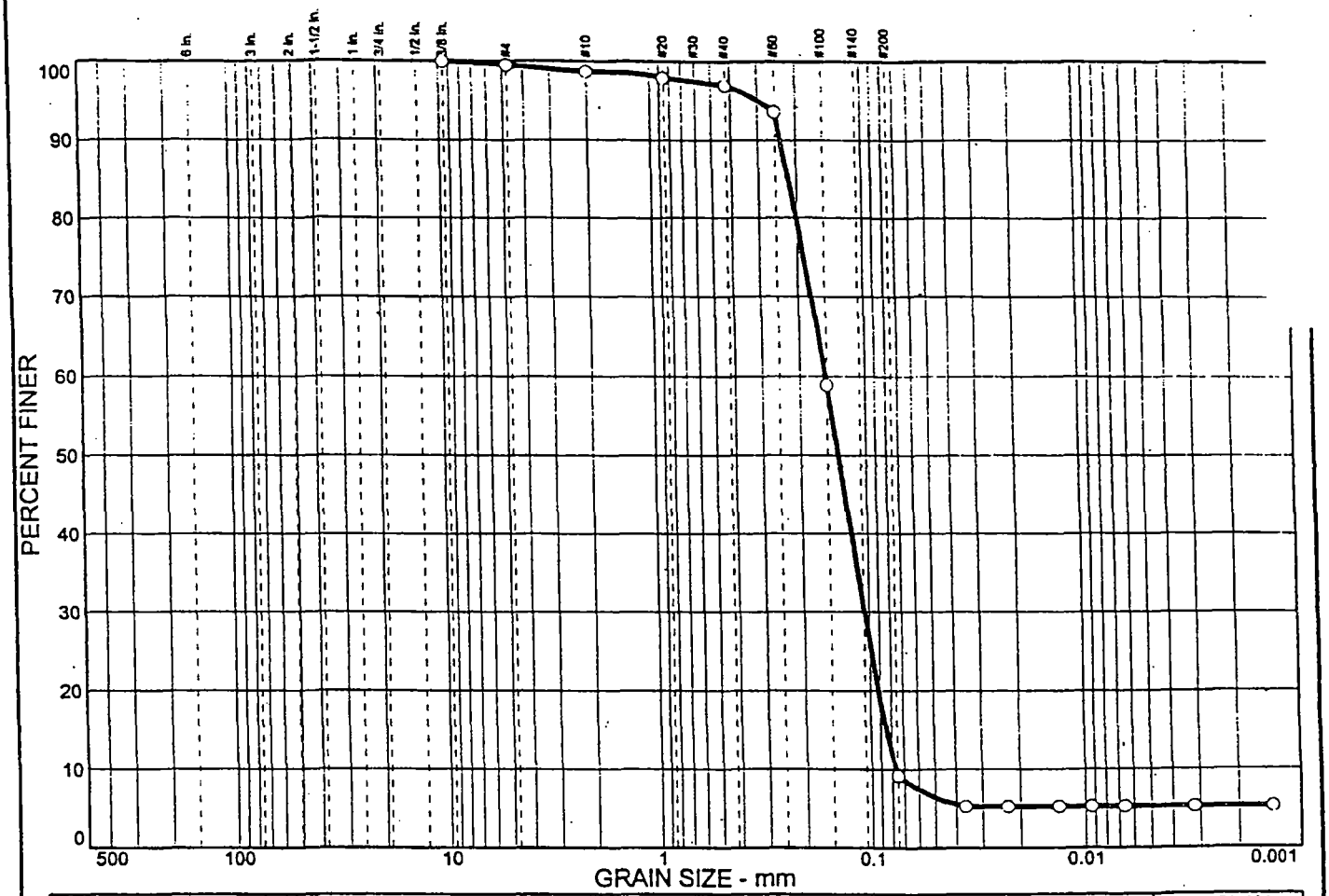
Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = % GRAVEL =
% SAND = 96.6 (% coarse = 0.1 % medium = 0.1 % fine = 96.4)
% SILT = 2.8 % CLAY = 0.6 (% CLAY COLLOIDS = 0.0)

D_{85}= 0.22 D_{60}= 0.17 D_{50}= 0.15
D_{30}= 0.12 D_{15}= 0.10 D_{10}= 0.09
C_c= 0.9503 C_u= 1.905

MATERIALS ENGINEERING LABORATORY

Thompson Engineering

Particle Size Distribution Report



% COBBLES	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.5	90.3	3.9	5.3

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.375 in.	100.0		
#4	99.5		
#10	98.7		
#20	97.9		
#40	97.0		
#60	93.6		
#100	58.9		
#200	9.2		

* (no specification provided)

Soil Description

FINE SAND

Atterberg Limits

PL= --- LL= --- PI= ---

Coefficients

D_{85}= 0.218 D_{60}= 0.152 D_{50}= 0.134
D_{30}= 0.105 D_{15}= 0.0844 D_{10}= 0.0764
C_u= 1.99 C_c= 0.95

Classification

USCS= --- AASHTO= ---

Remarks

Sample No.: BDC071 **Source of Sample:** **Date:** 07/09/00
Location: **Elev./Depth:**

Thompson Engineering

Client: STL SAVANNAH LABORATORIES
Project: SAVANNAH #:S0-04126
Project No: 2000-00-0600 **Plate**

3 10 0362

GRAIN SIZE DISTRIBUTION TEST DATA

Client: STL SAVANNAH LABORATORIES
Project: SAVANNAH #:S0-04126
Project Number: 2000-00-0600

Sample Data

Source:
Sample No.: BDC071
Elev. or Depth: **Sample Length (in./cm.):**
Location:
Description: FINE SAND
Date: 07/09/00 **PL:** - - - **LL:** - - - **PI:** - - -
USCS Classification: - - - **AASHTO Classification:** - - -
Testing Remarks:

Mechanical Analysis Data

	Initial
Dry sample and tare=	187.66
Tare =	0.00
Dry sample weight =	187.66

Sample split on number 10 sieve
Split sample data:
Sample and tare = 75.05 Tare = .00 Sample weight = 75.05
Cumulative weight retained tare= .00
Tare for cumulative weight retained= .00

Sieve	Cumul. Wt. retained	Percent finer
.375 inch	0.00	100.0
# 4	0.90	99.5
# 10	2.53	98.7
# 20	0.65	97.9
# 40	1.30	97.0
# 60	3.90	93.6
# 100	30.24	58.9
# 200	68.05	9.2

Hydrometer Analysis Data

Separation sieve is #10
Percent -#10 based upon complete sample= 98.7
Weight of hydrometer sample: 76.73
Hygroscopic moisture correction:
Moist weight & tare = 46.40
Dry weight & tare = 45.64
Tare = 11.72
Hygroscopic moisture= 2.2 %
Calculated biased weight= 76.04
Table of composite correction values:

Temp, deg C:	19.0	23.0
Comp. corr:	-8.0	-8.0

Meniscus correction only= 0
Specific gravity of solids= 2.65
Specific gravity correction factor= 1.000

Hydrometer type: 152H
Effective depth L= 16.294964 - 0.164 x Rm

3 10 0364

Elapsed time, min	Temp, deg C	Actual reading	Corrected reading	K	Rm	Eff. depth	Diameter mm	Perc fine
2.00	20.8	12.0	4.0	0.0135	12.0	14.3	0.0362	5
5.00	20.5	12.0	4.0	0.0136	12.0	14.3	0.0230	5
15.00	20.7	12.0	4.0	0.0135	12.0	14.3	0.0132	5
30.00	20.7	12.0	4.0	0.0135	12.0	14.3	0.0093	5
60.00	20.7	12.0	4.0	0.0135	12.0	14.3	0.0066	5
250.00	22.0	12.0	4.0	0.0133	12.0	14.3	0.0032	5
1440.00	19.0	12.0	4.0	0.0138	12.0	14.3	0.0014	5

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = % GRAVEL = 0.5 % SAND = 90.3
% SILT = 3.9 % CLAY = 5.3

D_{85}= 0.22 D_{60}= 0.15 D_{50}= 0.13
D_{30}= 0.10 D_{15}= 0.08 D_{10}= 0.08
C_c= 0.9478 C_u= 1.9902

Leroy Bailey
MATERIALS ENGINEERING LABORATORY

Thompson Engineering

3 10 0365

LETTER OF TRANSMITTAL

To: STL Savannah Laboratories	Date: 07/09/00	Job No. 2000-00-0596
5102 LaRoche Avenue	Re: Savannah # S0-04088	
Savannah, Ga. 31404		
Attention: Gloria Fulwood		

We Are Sending You X Attached _ Under Separate cover via ___ the following items

COPIES	DATE	NO.	DESCRIPTION
1	07/09/00	4	Particle Size Distribution Test Report (ASTM D 422)
1	06/26/00	1	Chain of Custody

These are Transmitted as checked below

___ For approval ___ For your use X As requested ___ For review and comment

Remarks Thompson Engineering Testing, Inc. appreciates the opportunity to be of continued service to STL Savannah Laboratories. If there are any questions regarding this submittal, please feel free to call.

B. Dwayne Smith
Project Engineer
Alabama Registration No. 22779

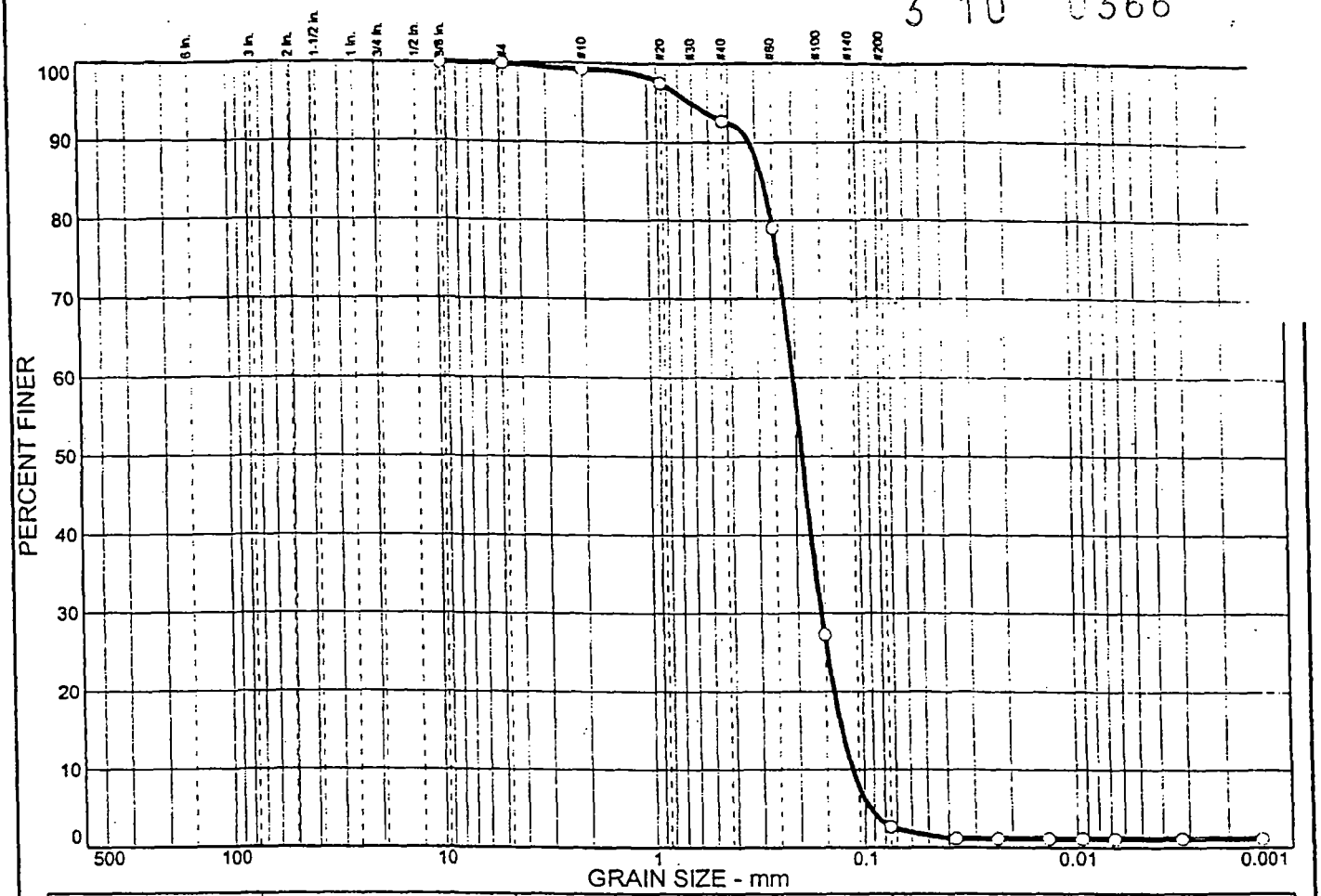
Dale Nobles
Materials Laboratory Manager

RECEIVED
OCT 16 2000

Corporate Office: 3707 Cottage Hill Rd. • P.O. Box 9637 • Mobile, AL 36691 • 334-666-2443 • Fax 334-666-6422

Particle Size Distribution Report

3 10 0366



% COBBLES	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.1	97.3	1.5	1.1

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.375 in.	100.0		
#4	99.9		
#10	99.2		
#20	97.6		
#40	92.7		
#60	79.1		
#100	27.3		
#200	2.6		

* (no specification provided)

Soil Description

FINE SAND

Atterberg Limits

PL= --- LL= --- PI= ---

Coefficients

D_{85}= 0.276 D_{60}= 0.204 D_{50}= 0.187
D_{30}= 0.155 D_{15}= 0.126 D_{10}= 0.113
C_u= 1.81 C_c= 1.04

Classification

USCS= --- AASHTO= ---

Remarks

Sample No.: BDC058 Source of Sample: Date: 07/09/00
Location: Elev./Depth:

Thompson Engineering

Client: STL SAVANNAH LABORATORIES
Project: SAVANNAH #: S0-04088
Project No: 2000-00-0596 Plate

GRAIN SIZE DISTRIBUTION TEST DATA

Client: STL SAVANNAH LABORATORIES
Project: SAVANNAH #: S0-04088
Project Number: 2000-00-0596

3 10 .367

Sample Data

Source:
Sample No.: BDC058
Elev. or Depth: Sample Length (in./cm.):
Location:
Description: FINE SAND
Date: 07/09/00 PL: - - - LL: - - - PI: - - -
USCS Classification: - - - AASHTO Classification: - - -
Testing Remarks:

Mechanical Analysis Data

	Initial
Dry sample and tare=	193.34
Tare =	0.00
Dry sample weight =	193.34

Sample split on number 10 sieve
Split sample data:
Sample and tare = 90.05 Tare = .00 Sample weight = 90.05
Cumulative weight retained tare= .00
Tare for cumulative weight retained= .00

Sieve	Cumul. Wt. retained	Percent finer
.375 inch	0.00	100.0
# 4	0.27	99.9
# 10	1.58	99.2
# 20	1.48	97.6
# 40	5.89	92.7
# 60	18.26	79.1
# 100	65.23	27.3
# 200	87.70	2.6

Hydrometer Analysis Data

Separation sieve is #10
Percent -#10 based upon complete sample= 99.2
Weight of hydrometer sample: 90.16
Hygroscopic moisture correction:
Moist weight & tare = 51.46
Dry weight & tare = 51.41
Tare = 11.64
Hygroscopic moisture= 0.1 %
Calculated biased weight= 90.77
Table of composite correction values:

Temp, deg C:	19.0	23.0
Comp. corr:	-8.0	-8.0

Meniscus correction only= 0
Specific gravity of solids= 2.65
Specific gravity correction factor= 1.000

Hydrometer type: 152H
Effective depth L= 16.294964 - 0.164 x Rm

3 10 0368

Elapsed time, min	Temp, deg C	Actual reading	Corrected reading	K	Rm	Eff. depth	Diameter mm	Perc fine
2.00	20.6	9.0	1.0	0.0135	9.0	14.8	0.0369	1.
5.00	20.6	9.0	1.0	0.0135	9.0	14.8	0.0233	1.
15.00	20.6	9.0	1.0	0.0135	9.0	14.8	0.0135	1.
30.00	20.8	9.0	1.0	0.0135	9.0	14.8	0.0095	1.
60.00	20.8	9.0	1.0	0.0135	9.0	14.8	0.0067	1.
250.00	22.0	9.0	1.0	0.0133	9.0	14.8	0.0032	1.
1440.00	19.2	9.0	1.0	0.0138	9.0	14.8	0.0014	1.

Fractional Components

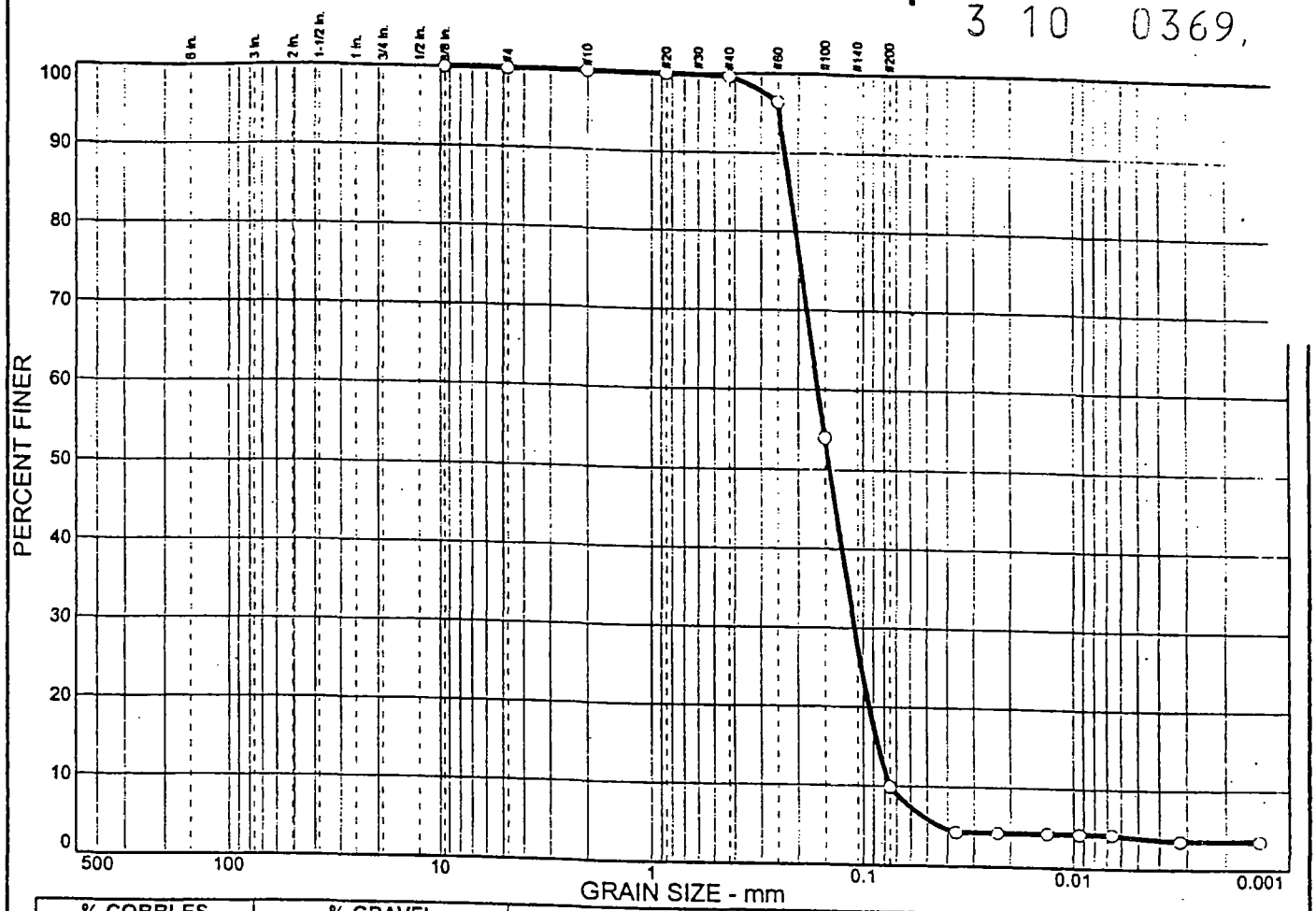
Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = % GRAVEL = 0.1 % SAND = 97.3
% SILT = 1.5 % CLAY = 1.1

D_{85}= 0.28 D_{60}= 0.20 D_{50}= 0.19
D_{30}= 0.15 D_{15}= 0.13 D_{10}= 0.11
C_c= 1.0357 C_u= 1.8077

Leroy Bailey
MATERIALS ENGINEERING LABORATORY

Particle Size Distribution Report

3 10 0369,



% COBBLES	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.1	90.0	5.9	4.0

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.375 in.	100.0		
#4	99.9		
#10	99.9		
#20	99.9		
#40	99.6		
#60	96.5		
#100	54.0		
#200	9.9		

* (no specification provided)

Soil Description

FINE SAND

Atterberg Limits

PL= --- LL= --- PI= ---

Coefficients

D_{85}= 0.218 D_{60}= 0.161 D_{50}= 0.143
D_{30}= 0.109 D_{15}= 0.0849 D_{10}= 0.0752
C_u= 2.15 C_c= 0.99

Classification

USCS= --- AASHTO= ---

Remarks

Sample No.: BDC063 **Source of Sample:** **Date:** 07/09/00
Location: **Elev./Depth:**

Thompson Engineering

Client: STL SAVANNAH LABORATORIES
Project: SAVANNAH #: S0-04088
Project No: 2000-00-0596 **Plate**

GRAIN SIZE DISTRIBUTION TEST DATA

Client: STL SAVANNAH LABORATORIES
Project: SAVANNAH #: S0-04088
Project Number: 2000-00-0596

3 10 0370

Sample Data

Source:
Sample No.: BDC063
Elev. or Depth:
Sample Length (in./cm.):
Location:
Description: FINE SAND
Date: 07/09/00 PL: - - - LL: - - - PI: - - -
USCS Classification: - - - AASHTO Classification: - - -
Testing Remarks:

Mechanical Analysis Data

	Initial
Dry sample and tare=	312.13
Tare =	0.00
Dry sample weight =	312.13

Sample split on number 10 sieve
Split sample data:
Sample and tare = 69.23 Tare = .00 Sample weight = 69.23
Cumulative weight retained tare= .00
Tare for cumulative weight retained= .00

Sieve	Cumul. Wt. retained	Percent finer
.375 inch	0.00	100.0
# 4	0.19	99.9
# 10	0.37	99.9
# 20	0.02	99.9
# 40	0.22	99.6
# 60	2.37	96.5
# 100	31.79	54.0
# 200	62.35	9.9

Hydrometer Analysis Data

Separation sieve is #10
Percent -#10 based upon complete sample= 99.9
Weight of hydrometer sample: 69.47
Hygroscopic moisture correction:
Moist weight & tare = 48.48
Dry weight & tare = 48.35
Tare = 11.05
Hygroscopic moisture= 0.4 %
Calculated biased weight= 69.30
Table of composite correction values:

Temp, deg C:	19.0	23.0
Comp. corr:	-8.0	-8.0

Meniscus correction only= 0
Specific gravity of solids= 2.65
Specific gravity correction factor= 1.000

Hydrometer type: 152H
Effective depth L= 16.294964 - 0.164 x Rm

3 10 0371

Elapsed time, min	Temp, deg C	Actual reading	Corrected reading	K	Rm	Eff. depth	Diameter mm	Perc fine
2.00	20.8	11.0	3.0	0.0135	11.0	14.5	0.0364	4.
5.00	20.8	11.0	3.0	0.0135	11.0	14.5	0.0230	4.
15.00	20.8	11.0	3.0	0.0135	11.0	14.5	0.0133	4.
30.00	20.9	11.0	3.0	0.0135	11.0	14.5	0.0094	4.
60.00	20.9	11.0	3.0	0.0135	11.0	14.5	0.0066	4.
250.00	21.9	10.5	2.5	0.0133	10.5	14.6	0.0032	3.
1440.00	19.0	10.5	2.5	0.0138	10.5	14.6	0.0014	3.

Fractional Components

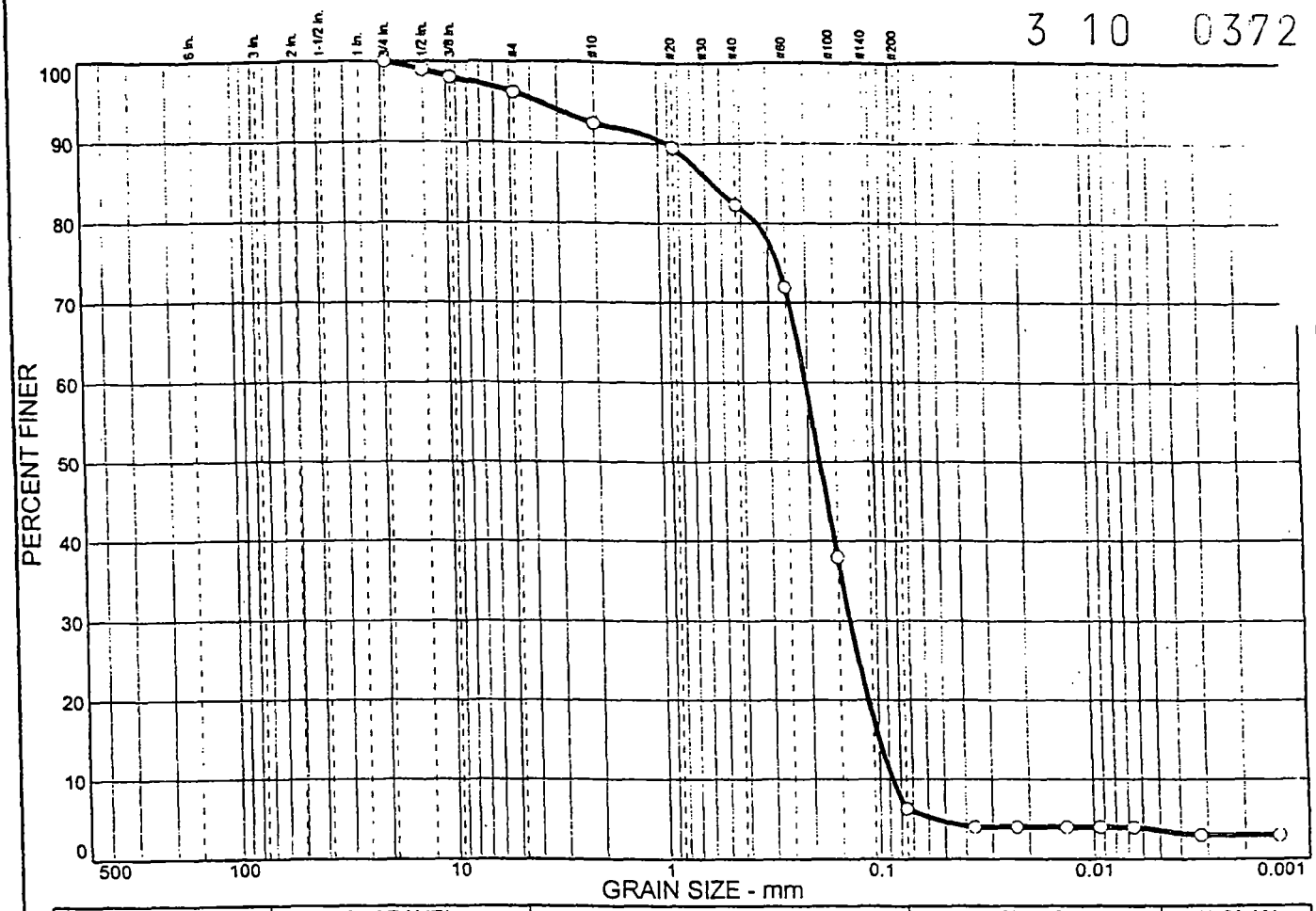
Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = % GRAVEL = 0.1 % SAND = 90.0
% SILT = 5.9 % CLAY = 4.0

D_{85}= 0.22 D_{60}= 0.16 D_{50}= 0.14
D_{30}= 0.11 D_{15}= 0.08 D_{10}= 0.08
C_c= 0.9862 C_u= 2.1462

Leroy Bailey
MATERIALS ENGINEERING LABORATORY

Particle Size Distribution Report

3 10 0372



% COBBLES	% GRAVEL	% SAND	% SILT	% CLAY
0.0	3.7	90.0	2.8	3.5

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.75 in.	100.0		
.5 in.	99.0		
.375 in.	98.1		
#4	96.3		
#10	92.5		
#20	89.5		
#40	82.3		
#60	72.0		
#100	38.0		
#200	6.3		

* (no specification provided)

Soil Description

MEDIUM TO FINE SAND, TRACE GRAVEL

Atterberg Limits

PL= --- LL= --- PI= ---

Coefficients

D_{85}= 0.552 D_{60}= 0.204 D_{50}= 0.177
D_{30}= 0.133 D_{15}= 0.0993 D_{10}= 0.0865
C_u= 2.35 C_c= 1.00

Classification

USCS= --- AASHTO= ---

Remarks

Sample No.: BDC067 **Source of Sample:** **Date:** 07/09/00
Location: **Elev./Depth:**

Thompson Engineering

Client: STL SAVANNAH LABORATORIES
Project: SAVANNAH #: S0-04088
Project No: 2000-00-0596 **Plate**

GRAIN SIZE DISTRIBUTION TEST DATA

Client: STL SAVANNAH LABORATORIES
Project: SAVANNAH #: S0-04088
Project Number: 2000-00-0596

3 10 0373

Sample Data

Source:
Sample No.: BDC067
Elev. or Depth: Sample Length (in./cm.):
Location:
Description: MEDIUM TO FINE SAND, TRACE GRAVEL
Date: 07/09/00 PL: - - - LL: - - - PI: - - -
USCS Classification: - - - AASHTO Classification: - - -
Testing Remarks:

Mechanical Analysis Data

	Initial
Dry sample and tare=	233.78
Tare =	0.00
Dry sample weight =	233.78

Sample split on number 10 sieve
Split sample data:
Sample and tare = 92.46 Tare = .00 Sample weight = 92.46
Cumulative weight retained tare= .00
Tare for cumulative weight retained= .00

Sieve	Cumul. Wt. retained	Percent finer
.75 inch	0.00	100.0
.5 inch	2.32	99.0
.375 inch	4.39	98.1
# 4	8.61	96.3
# 10	17.66	92.5
# 20	3.01	89.5
# 40	10.16	82.3
# 60	20.50	72.0
# 100	54.50	38.0
# 200	86.20	6.3

Hydrometer Analysis Data

Separation sieve is #10
Percent -#10 based upon complete sample= 92.5
Weight of hydrometer sample: 92.82
Hygroscopic moisture correction:
Moist weight & tare = 52.17
Dry weight & tare = 52.01
Tare = 10.99
Hygroscopic moisture= 0.4 %
Calculated biased weight= 99.96
Table of composite correction values:

Temp, deg C:	19.0	23.0
Comp. corr:	-8.0	-8.0

Meniscus correction only= 0

Specific gravity of solids= 2.65
Specific gravity correction factor= 1.000
Hydrometer type: 152H
Effective depth L= 16.294964 - 0.164 x Rm

3 10 0374

Elapsed time, min	Temp, deg C	Actual reading	Corrected reading	K	Rm	Eff. depth	Diameter mm	Perc fine
2.00	20.6	12.0	4.0	0.0135	12.0	14.3	0.0363	4.
5.00	20.6	12.0	4.0	0.0135	12.0	14.3	0.0229	4.
15.00	20.7	12.0	4.0	0.0135	12.0	14.3	0.0132	4.
30.00	20.8	12.0	4.0	0.0135	12.0	14.3	0.0093	4.
60.00	20.8	12.0	4.0	0.0135	12.0	14.3	0.0066	4.
250.00	21.9	11.0	3.0	0.0133	11.0	14.5	0.0032	3.
1440.00	19.0	11.0	3.0	0.0138	11.0	14.5	0.0014	3.0

Fractional Components

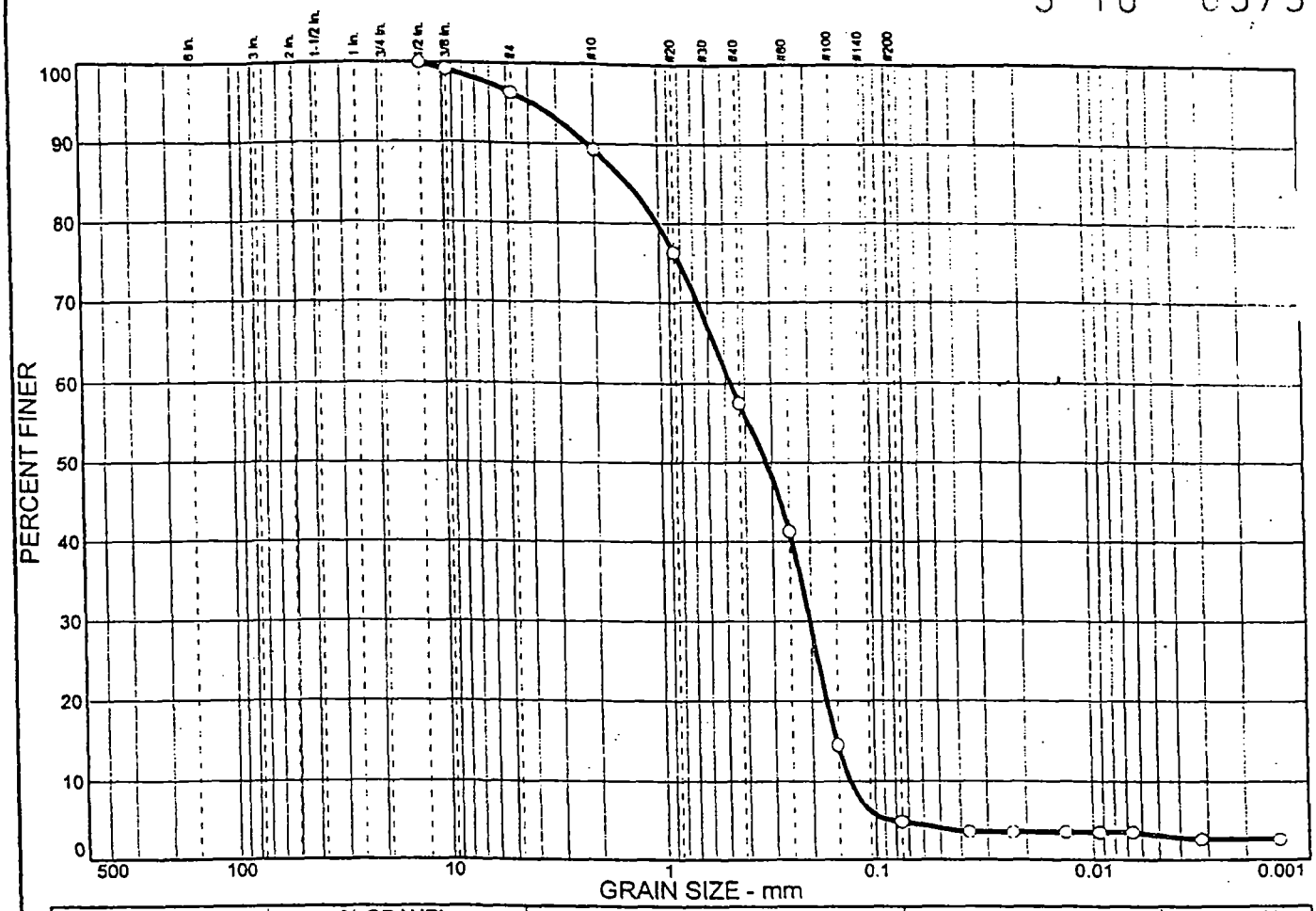
Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = % GRAVEL = 3.7 % SAND = 90.0
% SILT = 2.8 % CLAY = 3.5

D_{85}= 0.55 D_{60}= 0.20 D_{50}= 0.18
D_{30}= 0.13 D_{15}= 0.10 D_{10}= 0.09
C_c= 1.0 C_u= 2.3519

Leroy Bailey
MATERIALS ENGINEERING LABORATORY

Particle Size Distribution Report

3 10 0375



% COBBLES	% GRAVEL	% SAND	% SILT	% CLAY
0.0	3.7	91.5	1.7	3.1

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.5 in.	100.0		
.375 in.	99.1		
#4	96.3		
#10	89.3		
#20	76.4		
#40	57.5		
#60	41.3		
#100	14.5		
#200	4.8		

* (no specification provided)

Soil Description

MEDIUM TO FINE SAND, TRACE GRAVEL

Atterberg Limits

PL= --- LL= --- PI= ---

Coefficients

D_{85}= 1.37 D_{60}= 0.467 D_{50}= 0.318
D_{30}= 0.202 D_{15}= 0.152 D_{10}= 0.131
C_u= 3.56 C_c= 0.67

Classification

USCS= --- AASHTO= ---

Remarks

Sample No.: BDC069 **Source of Sample:** **Date:** 07/09/00
Location: **Elev./Depth:**

Thompson Engineering

Client: STL SAVANNAH LABORATORIES
Project: SAVANNAH #: S0-04088
Project No: 2000-00-0596 **Plate**

GRAIN SIZE DISTRIBUTION TEST DATA

Client: STL SAVANNAH LABORATORIES
Project: SAVANNAH #: S0-04088
Project Number: 2000-00-0596

3 10 0376

Sample Data

Source:
Sample No.: BDC069
Elev. or Depth: **Sample Length (in./cm.):**
Location:
Description: MEDIUM TO FINE SAND, TRACE GRAVEL
Date: 07/09/00 **PL:** - - - **LL:** - - - **PI:** - - -
USCS Classification: - - - **AASHTO Classification:** - - -
Testing Remarks:

Mechanical Analysis Data

	Initial
Dry sample and tare=	269.63
Tare =	0.00
Dry sample weight =	269.63

Sample split on number 10 sieve
Split sample data:
Sample and tare = 101.50 Tare = .00 Sample weight = 101.50
Cumulative weight retained tare= .00
Tare for cumulative weight retained= .00

Sieve	Cumul. Wt. retained	Percent finer
.5 inch	0.00	100.0
.375 inch	2.57	99.1
# 4	10.08	96.3
# 10	28.84	89.3
# 20	14.66	76.4
# 40	36.15	57.5
# 60	54.52	41.3
# 100	85.05	14.5
# 200	96.09	4.8

Hydrometer Analysis Data

Separation sieve is #10
Percent -#10 based upon complete sample= 89.3
Weight of hydrometer sample: 102.16
Hygroscopic moisture correction:
Moist weight & tare = 54.95
Dry weight & tare = 54.67
Tare = 11.55
Hygroscopic moisture= 0.7 %
Calculated biased weight= 113.66
Table of composite correction values:

Temp, deg C:	19.0	23.0
Comp. corr:	-8.0	-8.0

Meniscus correction only= 0
Specific gravity of solids= 2.65

Specific gravity correction factor= 1.000
Hydrometer type: 152H
Effective depth L= 16.294964 - 0.164 x Rm

3 10 0377

Elapsed time, min	Temp, deg C	Actual reading	Corrected reading	K	Rm	Eff. depth	Diameter mm	Perc fine
2.00	20.6	12.0	4.0	0.0135	12.0	14.3	0.0363	3.
5.00	20.6	12.0	4.0	0.0135	12.0	14.3	0.0229	3.
15.00	20.6	12.0	4.0	0.0135	12.0	14.3	0.0132	3.
30.00	20.6	12.0	4.0	0.0135	12.0	14.3	0.0094	3.
60.00	20.8	12.0	4.0	0.0135	12.0	14.3	0.0066	3.
250.00	22.0	11.0	3.0	0.0133	11.0	14.5	0.0032	2.
1440.00	19.0	11.0	3.0	0.0138	11.0	14.5	0.0014	2.

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = % GRAVEL = 3.7 % SAND = 91.5
% SILT = 1.7 % CLAY = 3.1

D_{85}= 1.37 D_{60}= 0.47 D_{50}= 0.32
D_{30}= 0.20 D_{15}= 0.15 D_{10}= 0.13
C_c= 0.6673 C_u= 3.565

Leroy Bailey
MATERIALS ENGINEERING LABORATORY

Thompson Engineering

LETTER OF TRANSMITTAL

To: STL Savannah Laboratories	Date: 08/25/00	Job No. 2000-00-0767
5102 LaRoche Avenue	Re: Savannah # S0-05416	
Savannah, Ga. 31404		
Attention: Gloria Fulwood		

We Are Sending You X Attached _ Under Separate cover via ___ the following items

COPIES	DATE	NO.	DESCRIPTION
1	08/25/00	3	Particle Size Distribution Test Report (ASTM D 422)
1	08/10/00	1	Chain of Custody

These are Transmitted as checked below

__ For approval __ For your use X As requested __ For review and comment

Remarks Thompson Engineering Testing, Inc. appreciates the opportunity to be of continued service to STL Savannah Laboratories. If there are any questions regarding this submittal, please feel free to call.

for Brad C Reff
B. Dwayne Smith
Project Engineer
Alabama Registration No. 22779

Dale Nobles
Materials Laboratory Manager

JAD84

Corporate Office: 3707 Cottage Hill Rd. • P.O. Box 9637 • Mobile, AL 36691 • 334-666-2443 • Fax 334-666-6422

Serial Number 02635

STL Savannah Laboratories
a division of Severn Trent Laboratories, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

7000-00-0767

5102 LaRoche Avenue, Savannah, GA 31404 — Phone: (912) 354-7858 — Fax: (912) 352-0165
2846 Industrial Plaza Drive, Tallahassee, FL 32301 — Phone: (850) 878-3994 — Fax: (850) 878-9504
900 Lakeside Drive, Mobile, AL 36693 — Phone: (334) 666-6633 — Fax: (334) 666-6696
6712 Benjamin Rd., Suite 100, Tampa, FL 33634 — Phone: (813) 885-7427 — Fax: (813) 885-7049

PROJECT REFERENCE	PROJECT NO. 50-[illegible]416	PROJECT LOCATION (STATE)	PAGE 1 OF 1
STL (LAB) PROJECT MANAGER	P.O. NUMBER 34024	CONTRACT NO.	STANDARD REPORT DELIVERY ✓
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX	DATE DUE
CLIENT NAME	CLIENT EMAIL		EXPEDITED REPORT DELIVERY (SURCHARGE) ○
CLIENT ADDRESS			DATE DUE
COMPANY CONTRACTING THIS WORK (if applicable):			NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT, ETC)

REQUIRED ANALYSES: Gross Site

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ETC)	NUMBER OF CONTAINERS SUBMITTED (Gross Site)	REMARKS
8-8	8:55	BDD156			✓			✓	
8-8	10:50	BDD168			✓			✓	
8-8	13:40	BDD189			✓			✓	

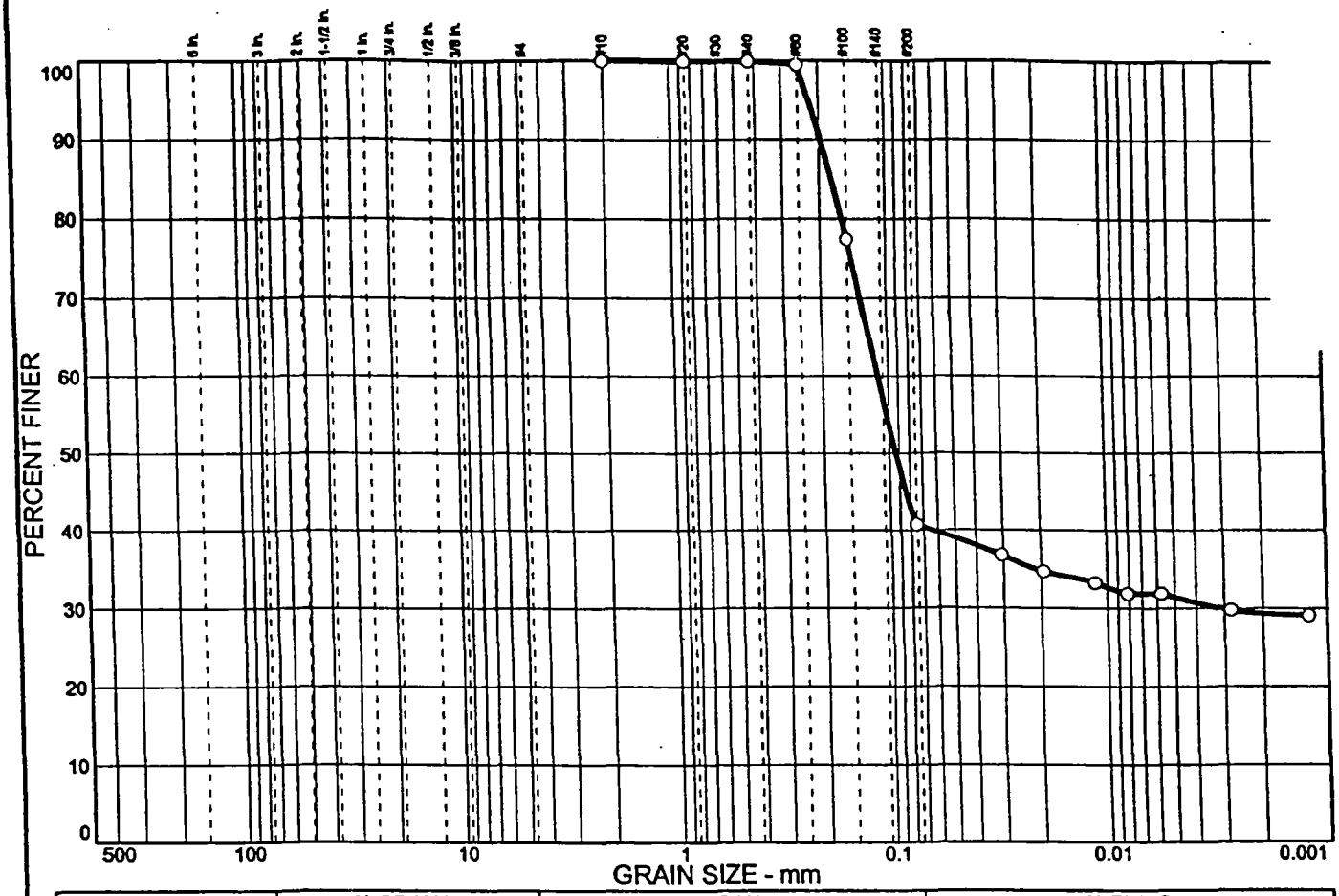
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS						Comer	8/10/00	450
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**
EMPTY CONTAINERS						[illegible] Barbert	8/14/00	15:03

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	CUSTODY INTACT	CUSTODY	STL-SL LOG NO.	LABORATORY REMARKS:

3 10 0379

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.0	0.0	0.1	59.2	9.3	31.4

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#10	100.0		
#20	100.0		
#40	99.9		
#60	99.5		
#100	77.4		
#200	40.7		

* (no specification provided)

Soil Description

CLAYEY FINE SAND

Atterberg Limits

PL= --- LL= --- PI= ---

Coefficients

D_{85}= 0.175 D_{60}= 0.111 D_{50}= 0.0930
D_{30}= 0.0031 D_{15}= D_{10}=
C_u= C_c=

Classification

USCS= --- AASHTO= ---

Remarks

Sample No.: BDD156 **Source of Sample:** **Date:** 08/25/00
Location: **Elev./Depth:**

Thompson Engineering

Client: STL SAVANNAH LABORATORIES
Project: SAVANNAH #: S0-05416
Project No: 2000-00-0767 **Plate**

3 10 0380

GRAIN SIZE DISTRIBUTION TEST DATA

Client: STL SAVANNAH LABORATORIES
Project: SAVANNAH #: S0-05416
Project Number: 2000-00-0767

Sample Data

Source:
Sample No.: BDD156
Elev. or Depth: **Sample Length (in./cm.):**
Location:
Description: CLAYEY FINE SAND
Date: 08/25/00 **PL:** - - - **LL:** - - - **PI:** - - -
USCS Classification: - - - **AASHTO Classification:** - - -
Testing Remarks:

Mechanical Analysis Data

	Initial
Dry sample and tare=	624.86
Tare =	0.00
Dry sample weight =	624.86

Sample split on number 10 sieve
Split sample data:
Sample and tare = 72.06 Tare = .00 Sample weight = 72.06
Cumulative weight retained tare= .00
Tare for cumulative weight retained= .00

Sieve	Cumul. Wt. retained	Percent finer
# 10	0.00	100.0
# 20	0.02	100.0
# 40	0.06	99.9
# 60	0.36	99.5
# 100	16.32	77.4
# 200	42.72	40.7

Hydrometer Analysis Data

Separation sieve is #10
Percent -#10 based upon complete sample= 100.0
Weight of hydrometer sample: 73.78
Hygroscopic moisture correction:
Moist weight & tare = 36.36
Dry weight & tare = 35.78
Tare = 11.55
Hygroscopic moisture= 2.4 %
Calculated biased weight= 72.06
Table of composite correction values:

Temp, deg C:	20.5	24.5
Comp. corr:	-8.0	-8.0

Meniscus correction only= 0
Specific gravity of solids= 2.65
Specific gravity correction factor= 1.000
Hydrometer type: 152H
Effective depth L= 16.294964 - 0.164 x Rm

3 10 0381

Elapsed time, min	Temp, deg C	Actual reading	Corrected reading	K	Rm	Eff. depth	Diameter mm	Pe fi
2.00	22.5	34.5	26.5	0.0132	34.5	10.6	0.0305	3
5.00	22.5	33.0	25.0	0.0132	33.0	10.9	0.0195	3
15.00	22.5	32.0	24.0	0.0132	32.0	11.0	0.0114	3
30.00	22.4	31.0	23.0	0.0132	31.0	11.2	0.0081	3
60.00	22.4	31.0	23.0	0.0132	31.0	11.2	0.0057	3
250.00	24.0	29.5	21.5	0.0130	29.5	11.5	0.0028	2
1440.00	20.5	29.0	21.0	0.0136	29.0	11.5	0.0012	2

Fractional Components

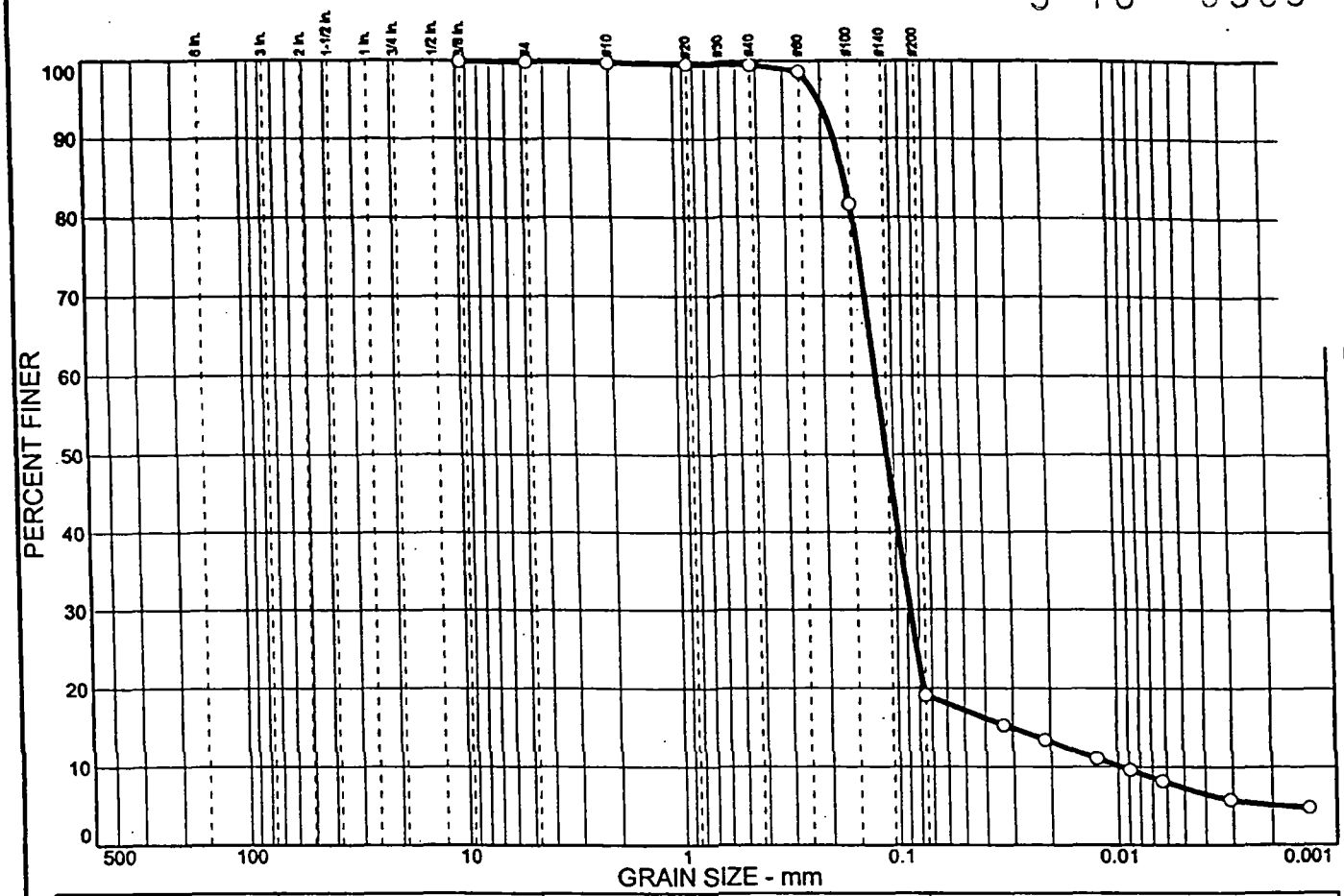
Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = % GRAVEL =
% SAND = 59.3 (% coarse = % medium = 0.1 % fine = 59.2)
% SILT = 9.3 % CLAY = 31.4

D_{85}= 0.18 D_{60}= 0.11 D_{50}= 0.09
D_{30}= 0.00

MATERIALS ENGINEERING LABORATORY

Particle Size Distribution Report

3 10 0383



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.1	0.1	0.3	80.4	11.8	7.3

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.375 in.	100.0		
#4	99.9		
#10	99.8		
#20	99.7		
#40	99.5		
#60	98.6		
#100	81.7		
#200	19.1		

* (no specification provided)

Soil Description

SILTY FINE SAND

Atterberg Limits

PL= --- LL= --- PI= ---

Coefficients

D_{85}= 0.158 D_{60}= 0.117 D_{50}= 0.107
D_{30}= 0.0868 D_{15}= 0.0299 D_{10}= 0.0097
C_u= 12.12 C_c= 6.63

Classification

USCS= --- AASHTO= ---

Remarks

Sample No.: BDD168 **Source of Sample:** **Date:** 08/25/00
Location: **Elev./Depth:**

Thompson Engineering

Client: STL SAVANNAH LABORATORIES
Project: SAVANNAH #: S0-05416
Project No: 2000-00-0767 **Plate**

GRAIN SIZE DISTRIBUTION TEST DATA

Client: STL SAVANNAH LABORATORIES
Project: SAVANNAH #: S0-05416
Project Number: 2000-00-0767

3 10 0384

Sample Data

Source:
Sample No.: BDD168
Elev. or Depth: **Sample Length (in./cm.):**
Location:
Description: SILTY FINE SAND
Date: 08/25/00 **PL:** - - - **LL:** - - - **PI:** - - -
USCS Classification: - - - **AASHTO Classification:** - - -
Testing Remarks:

Mechanical Analysis Data

	Initial
Dry sample and tare=	523.40
Tare =	0.00
Dry sample weight =	523.40

Sample split on number 10 sieve
Split sample data:
Sample and tare = 103.65 Tare = .00 Sample weight = 103.65
Cumulative weight retained tare= .00
Tare for cumulative weight retained= .00

Sieve	Cumul. Wt. retained	Percent finer
.375 inch	0.00	100.0
# 4	0.32	99.9
# 10	0.99	99.8
# 20	0.12	99.7
# 40	0.32	99.5
# 60	1.24	98.6
# 100	18.82	81.7
# 200	83.82	19.1

Hydrometer Analysis Data

Separation sieve is #10
Percent -#10 based upon complete sample= 99.8
Weight of hydrometer sample: 104.15
Hygroscopic moisture correction:
Moist weight & tare = 32.78
Dry weight & tare = 32.67
Tare = 9.89
Hygroscopic moisture= 0.5 %
Calculated biased weight= 103.86
Table of composite correction values:

Temp, deg C:	20.5	24.5
Comp. corr:	-8.0	-8.0

Meniscus correction only= 0
Specific gravity of solids= 2.65
Specific gravity correction factor= 1.000

Hydrometer type: 152H
Effective depth L= 16.294964 - 0.164 x Rm

3 10 0385

Elapsed time, min	Temp, deg C	Actual reading	Corrected reading	K	Rm	Eff. depth	Diameter mm	Per fin
2.00	22.5	24.0	16.0	0.0132	24.0	12.4	0.0329	15
5.00	22.5	22.0	14.0	0.0132	22.0	12.7	0.0211	13
15.00	22.4	19.5	11.5	0.0132	19.5	13.1	0.0124	11
30.00	22.4	18.0	10.0	0.0132	18.0	13.3	0.0088	9
60.00	22.5	16.5	8.5	0.0132	16.5	13.6	0.0063	8
250.00	24.0	14.0	6.0	0.0130	14.0	14.0	0.0031	5
1440.00	20.7	13.0	5.0	0.0135	13.0	14.2	0.0013	4

Fractional Components

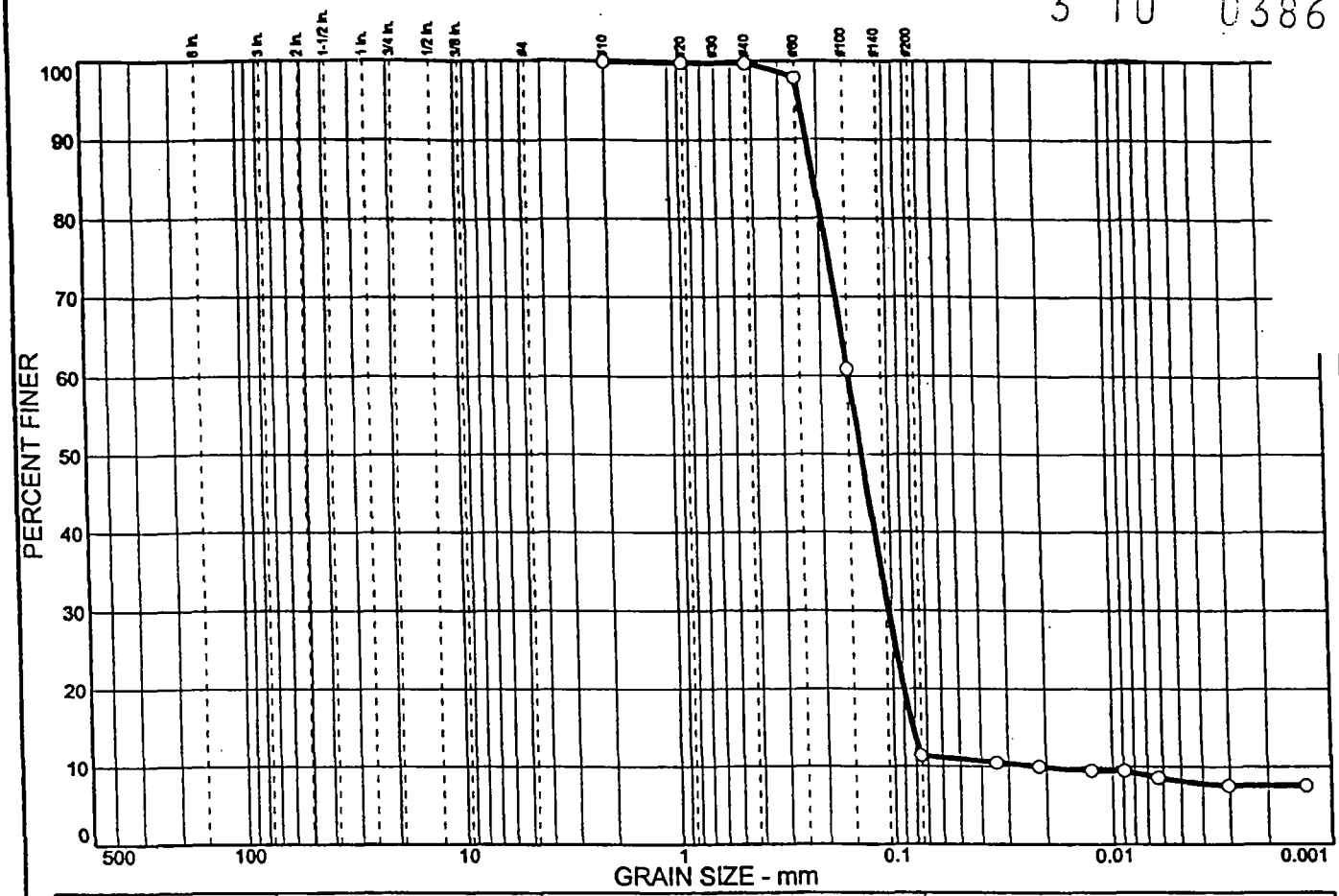
Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = % GRAVEL = 0.1 (% coarse = % fine = 0.1)
% SAND = 80.8 (% coarse = 0.1 % medium = 0.3 % fine = 80.4)
% SILT = 11.8 % CLAY = 7.3

D_{85}= 0.16 D_{60}= 0.12 D_{50}= 0.11
D_{30}= 0.09 D_{15}= 0.03 D_{10}= 0.01
C_c= 6.6269 C_u= 12.1213

MATERIALS ENGINEERING LABORATORY

Particle Size Distribution Report

3 10 0386



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.0	0.0	0.3	88.3	3.3	8.1

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#10	100.0		
#20	99.9		
#40	99.7		
#60	97.9		
#100	60.9		
#200	11.4		

* (no specification provided)

Soil Description

FINE SAND

Atterberg Limits

PL= --- LL= --- PI= ---

Coefficients

D_{85}= 0.207 D_{60}= 0.148 D_{50}= 0.131
D_{30}= 0.103 D_{15}= 0.0813 D_{10}= 0.0216
C_u= 6.88 C_c= 3.30

Classification

USCS= --- AASHTO= ---

Remarks

Sample No.: BDD189 **Source of Sample:** **Date:** 08/25/00
Location: **Elev./Depth:**

Thompson Engineering

Client: STL SAVANNAH LABORATORIES
Project: SAVANNAH #: S0-05416
Project No: 2000-00-0767 **Plate**

GRAIN SIZE DISTRIBUTION TEST DATA

Client: STL SAVANNAH LABORATORIES
Project: SAVANNAH #: S0-05416
Project Number: 2000-00-0767

3 10 0387

Sample Data

Source:
Sample No.: BDD189
Elev. or Depth: **Sample Length (in./cm.):**
Location:
Description: FINE SAND
Date: 08/25/00 **PL:** - - - **LL:** - - - **PI:** - - -
USCS Classification: - - - **AASHTO Classification:** - - -
Testing Remarks:

Mechanical Analysis Data

	Initial
Dry sample and tare=	325.73
Tare =	0.00
Dry sample weight =	325.73

Sample split on number 10 sieve
Split sample data:
Sample and tare = 104.91 Tare = .00 Sample weight = 104.91
Cumulative weight retained tare= .00
Tare for cumulative weight retained= .00

Sieve	Cumul. Wt. retained	Percent finer
# 10	0.00	100.0
# 20	0.07	99.9
# 40	0.30	99.7
# 60	2.23	97.9
# 100	41.01	60.9
# 200	92.93	11.4

Hydrometer Analysis Data

Separation sieve is #10
Percent -#10 based upon complete sample= 100.0
Weight of hydrometer sample: 105.31
Hygroscopic moisture correction:
Moist weight & tare = 30.73
Dry weight & tare = 30.66
Tare = 12.26
Hygroscopic moisture= 0.4 %
Calculated biased weight= 104.91
Table of composite correction values:

Temp, deg C:	20.5	24.5
Comp. corr:	-8.0	-8.0

Meniscus correction only= 0
Specific gravity of solids= 2.65
Specific gravity correction factor= 1.000
Hydrometer type: 152H
Effective depth L= 16.294964 - 0.164 x Rm

Elapsed time, min	Temp, deg C	Actual reading	Corrected reading	K	Rm	Eff. depth	Diameter mm	Per fin
2.00	22.5	19.0	11.0	0.0132	19.0	13.2	0.0340	10
5.00	22.5	18.5	10.5	0.0132	18.5	13.3	0.0216	10
15.00	22.6	18.0	10.0	0.0132	18.0	13.3	0.0125	9
30.00	22.4	18.0	10.0	0.0132	18.0	13.3	0.0088	9
60.00	22.5	17.0	9.0	0.0132	17.0	13.5	0.0063	8
250.00	24.3	16.0	8.0	0.0130	16.0	13.7	0.0030	7
1440.00	20.8	16.0	8.0	0.0135	16.0	13.7	0.0013	7

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = % GRAVEL =
% SAND = 88.6 (% coarse = % medium = 0.3 % fine = 88.3)
% SILT = 3.3 % CLAY = 8.1

D_{85}= 0.21 D_{60}= 0.15 D_{50}= 0.13
D_{30}= 0.10 D_{15}= 0.08 D_{10}= 0.02
C_c= 3.2992 C_u= 6.8832

3 10 0388

MATERIALS ENGINEERING LABORATORY

Thompson Engineering

LETTER OF TRANSMITTAL

To: STL Savannah Laboratories	Date: 08/25/00	Job No. 2000-00-0756
5102 LaRoche Avenue	Re: Savannah # S0-05377	
Savannah, Ga. 31404		
Attention: Gloria Fulwood		

We Are Sending You X Attached __ Under Separate cover via ___ the following items

COPIES	DATE	NO.	DESCRIPTION
1	08/25/00	2	Particle Size Distribution Test Report (ASTM D 422)
1	08/09/00	1	Chain of Custody

These are Transmitted as checked below

__ For approval __ For your use X As requested __ For review and comment

Remarks Thompson Engineering Testing, Inc. appreciates the opportunity to be of continued service to STL Savannah Laboratories. If there are any questions regarding this submittal, please feel free to call.

FOR B. Dwayne Smith
Project Engineer
Alabama Registration No. 22779

Dale Nobles
Materials Laboratory Manager

Corporate Office: 3707 Cottage Hill Rd. • P.O. Box 9637 • Mobile, AL 36691 • 334-666-2443 • Fax 334-666-6422

Serial Number U26380

STL Savannah Laboratories
a division of Severn Trent Laboratories, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

7000-00-0756

5102 LaRoche Avenue, Savannah, GA 31404 — Phone: (912) 354-7858 — Fax: (912) 352-0165
2846 Industrial Plaza Drive, Tallahassee, FL 32301 — Phone: (850) 878-3994 — Fax: (850) 878-9504
900 Lakeside Drive, Mobile, AL 36693 — Phone: (334) 666-6633 — Fax: (334) 666-6696
6712 Benjamin Rd., Suite 100, Tampa, FL 33634 — Phone: (813) 885-7427 — Fax: (813) 885-7049

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
	SU-05377	
STL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
G. FULWOOD	54023	
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
CLIENT NAME	CLIENT EMAIL	
STL SAV		
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable):		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ✓

DATE DUE

EXPEDITED REPORT DELIVERY (SURCHARGE)

DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ETC)	Grain Size									REMARKS
								NUMBER OF CONTAINERS SUBMITTED									
8/7	1054	BDD112			✓			✓									
8/7	1415	BDD137			✓			✓									

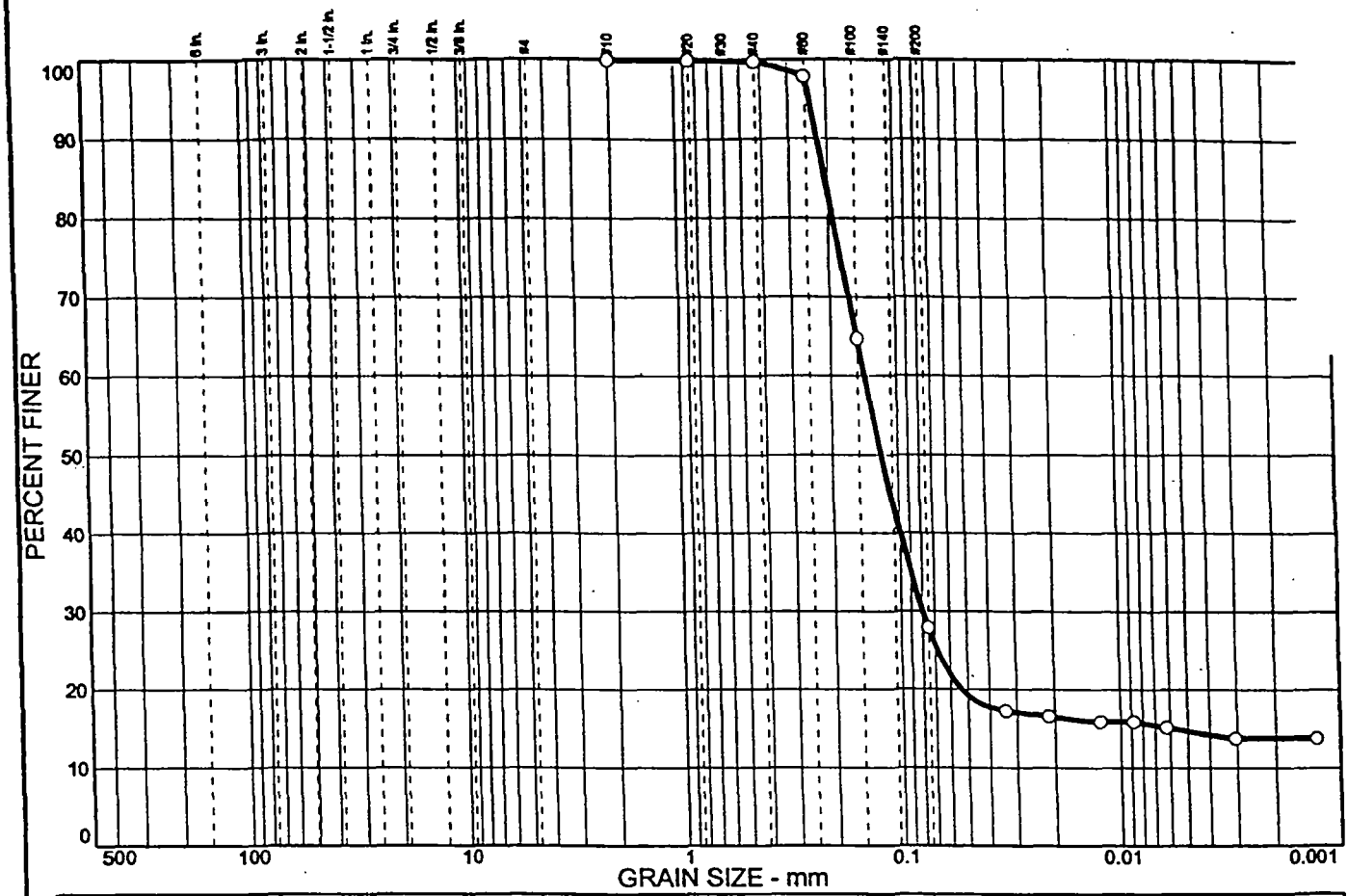
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS						K. Conner	8/9/00	427
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**
EMPTY CONTAINERS						[illegible]	8/11/00	13:10

LABORATORY USE ONLY

RECEIVED BY	DATE	TIME	CUSTODY INTACT	CUSTODY	STL-SL LOG NO.	LABORATORY REMARKS:

5 10 5350

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.0	0.0	0.3	71.8	13.2	14.7

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#10	100.0		
#20	100.0		
#40	99.7		
#60	97.9		
#100	64.7		
#200	27.9		

* (no specification provided)

Soil Description

CLAYEY FINE SAND

Atterberg Limits

PL= --- LL= --- PI= ---

Coefficients

D_{85}= 0.205 D_{60}= 0.139 D_{50}= 0.118
D_{30}= 0.0794 D_{15}= 0.0057 D_{10}=
C_u= C_c=

Classification

USCS= --- AASHTO= ---

Remarks

Sample No.: BDD112 **Source of Sample:** **Date:** 08/25/00
Location: **Elev./Depth:**

Thompson Engineering

Client: STL SAVANNAH LABORATORIES
Project: SAVANNAH #: S0-05377
Project No: 2000-00-0756 **Plate**

3 10 0391

GRAIN SIZE DISTRIBUTION TEST DATA

Client: STL SAVANNAH LABORATORIES
Project: SAVANNAH #: S0-05377
Project Number: 2000-00-0756

Sample Data

Source:
Sample No.: BDD112
Elev. or Depth: **Sample Length (in./cm.):**
Location:
Description: CLAYEY FINE SAND
Date: 08/25/00 **PL:** - - - **LL:** - - - **PI:** - - -
USCS Classification: - - - **AASHTO Classification:** - - -
Testing Remarks:

Mechanical Analysis Data

	Initial
Dry sample and tare=	285.30
Tare =	0.00
Dry sample weight =	285.30

Sample split on number 10 sieve
Split sample data:
Sample and tare = 72.45 Tare = .00 Sample weight = 72.45
Cumulative weight retained tare= .00
Tare for cumulative weight retained= .00

Sieve	Cumul. Wt. retained	Percent finer
# 10	0.00	100.0
# 20	0.02	100.0
# 40	0.24	99.7
# 60	1.50	97.9
# 100	25.57	64.7
# 200	52.27	27.9

Hydrometer Analysis Data

Separation sieve is #10
Percent -#10 based upon complete sample= 100.0
Weight of hydrometer sample: 73.74
Hygroscopic moisture correction:
Moist weight & tare = 62.35
Dry weight & tare = 61.46
Tare = 11.51
Hygroscopic moisture= 1.8 %
Calculated biased weight= 72.45
Table of composite correction values:

Temp, deg C:	21.0	23.0
Comp. corr:	-8.0	-8.0

Meniscus correction only= 0
Specific gravity of solids= 2.65
Specific gravity correction factor= 1.000
Hydrometer type: 152H
Effective depth L= 16.294964 - 0.164 x Rm

3 10 0392

Elapsed time, min	Temp, deg C	Actual reading	Corrected reading	K	Rm	Eff. depth	Diameter mm	Per fin
2.00	22.5	20.5	12.5	0.0132	20.5	12.9	0.0337	17
5.00	22.5	20.0	12.0	0.0132	20.0	13.0	0.0213	16
15.00	22.5	19.5	11.5	0.0132	19.5	13.1	0.0124	15
30.00	22.5	19.5	11.5	0.0132	19.5	13.1	0.0087	15
60.00	22.3	19.0	11.0	0.0133	19.0	13.2	0.0062	15
250.00	22.6	18.0	10.0	0.0132	18.0	13.3	0.0031	13
1440.00	21.4	18.0	10.0	0.0134	18.0	13.3	0.0013	13

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = % GRAVEL =
% SAND = 72.1 (% coarse = % medium = 0.3 % fine = 71.8)
% SILT = 13.2 % CLAY = 14.7

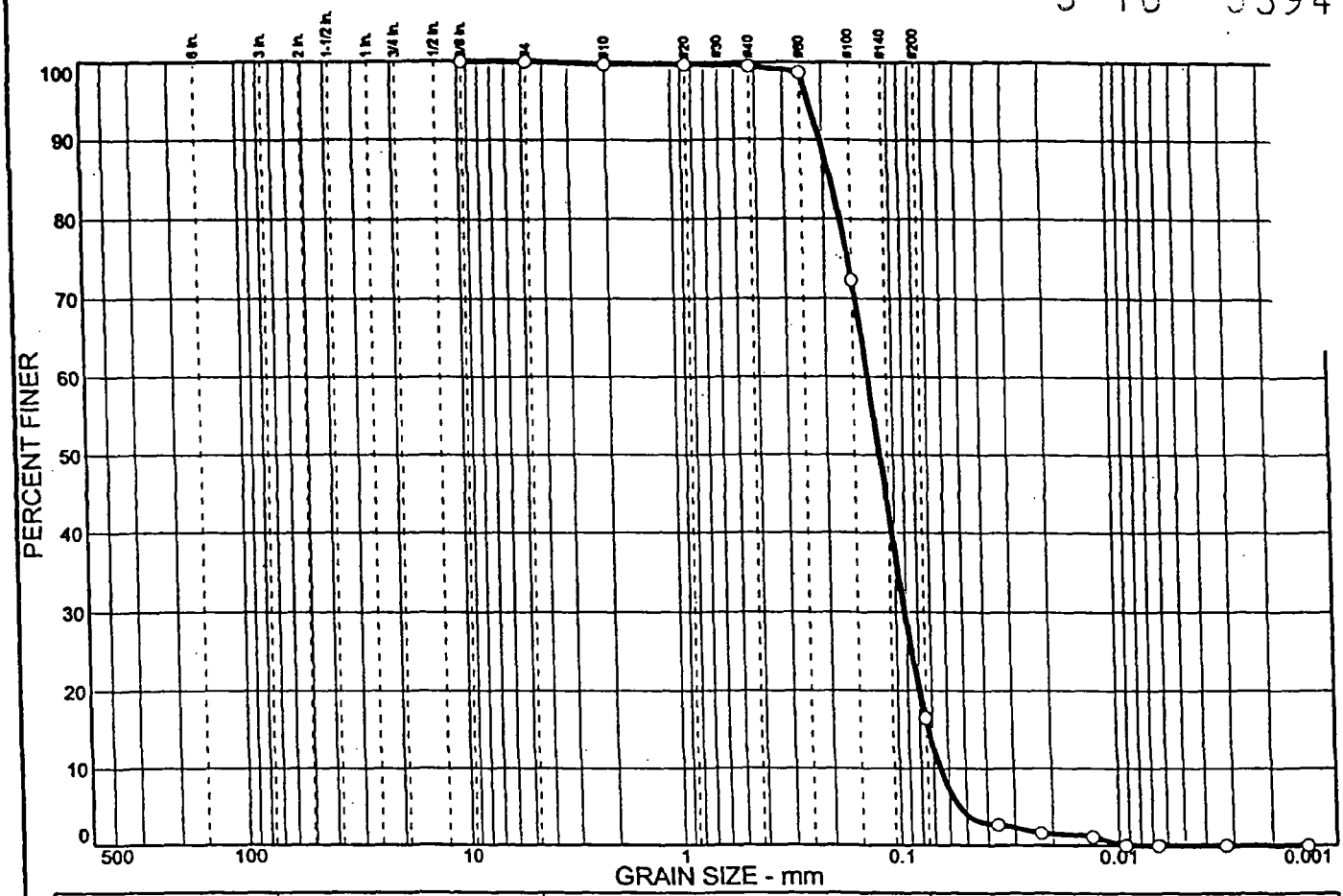
D_{85}= 0.21 D_{60}= 0.14 D_{50}= 0.12
D_{30}= 0.08 D_{15}= 0.01

3 10 0393

MATERIALS ENGINEERING LABORATORY

Particle Size Distribution Report

3 10 0394



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.0	0.2	0.3	83.0	16.5	0.0

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.375 in.	100.0		
#4	100.0		
#10	99.8		
#20	99.7		
#40	99.5		
#60	98.7		
#100	72.3		
#200	16.5		

* (no specification provided)

Soil Description

SILTY FINE SAND

Atterberg Limits

PL= --- LL= --- PI= ---

Coefficients

D_{85}= 0.185 D_{60}= 0.128 D_{50}= 0.115
D_{30}= 0.0910 D_{15}= 0.0730 D_{10}= 0.0652
C_u= 1.97 C_c= 0.99

Classification

USCS= --- AASHTO= ---

Remarks

Sample No.: BDD137 **Source of Sample:** **Date:** 08/25/00
Location: **Elev./Depth:**

Thompson Engineering

Client: STL SAVANNAH LABORATORIES
Project: SAVANNAH #: S0-05377
Project No: 2000-00-0756 **Plate**

GRAIN SIZE DISTRIBUTION TEST DATA

Client: STL SAVANNAH LABORATORIES
Project: SAVANNAH #: S0-05377
Project Number: 2000-00-0756

3 10 0395

Sample Data

Source:
Sample No.: BDD137
Elev. or Depth:
Sample Length (in./cm.):
Location:
Description: SILTY FINE SAND
Date: 08/25/00 **PL:** - - - **LL:** - - - **PI:** - - -
USCS Classification: - - - **AASHTO Classification:** - - -
Testing Remarks:

Mechanical Analysis Data

	Initial
Dry sample and tare=	371.26
Tare =	0.00
Dry sample weight =	371.26

Sample split on number 10 sieve
Split sample data:
Sample and tare = 93.40 Tare = .00 Sample weight = 93.40
Cumulative weight retained tare= .00
Tare for cumulative weight retained= .00

Sieve	Cumul. Wt. retained	Percent finer
.375 inch	0.00	100.0
# 4	0.15	100.0
# 10	0.69	99.8
# 20	0.13	99.7
# 40	0.30	99.5
# 60	1.01	98.7
# 100	25.72	72.3
# 200	77.95	16.5

Hydrometer Analysis Data

Separation sieve is #10
Percent -#10 based upon complete sample= 99.8
Weight of hydrometer sample: 94.09
Hygroscopic moisture correction:
Moist weight & tare = 53.82
Dry weight & tare = 53.51
Tare = 11.26
Hygroscopic moisture= 0.7 %
Calculated biased weight= 93.59
Table of composite correction values:

Temp, deg C:	21.0	23.0
Comp. corr:	-8.0	-8.0

Meniscus correction only= 0
Specific gravity of solids= 2.65
Specific gravity correction factor= 1.000

Hydrometer type: 152H
Effective depth L= 16.294964 - 0.164 x Rm

3 10 0396

Elapsed time, min	Temp, deg C	Actual reading	Corrected reading	K	Rm	Eff. depth	Diameter mm	Pe f:
2.00	22.6	10.5	2.5	0.0132	10.5	14.6	0.0357	
5.00	22.9	9.5	1.5	0.0132	9.5	14.7	0.0226	
15.00	22.9	9.0	1.0	0.0132	9.0	14.8	0.0131	
30.00	22.8	8.0	0.0	0.0132	8.0	15.0	0.0093	
60.00	22.8	8.0	0.0	0.0132	8.0	15.0	0.0066	
250.00	22.6	8.0	0.0	0.0132	8.0	15.0	0.0032	
1440.00	21.5	8.0	0.0	0.0134	8.0	15.0	0.0014	

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = % GRAVEL =
% SAND = 83.5 (% coarse = 0.2 % medium = 0.3 % fine = 83.0)
% FINES = 16.5

D_{85}= 0.18 D_{60}= 0.13 D_{50}= 0.11
D_{30}= 0.09 D_{15}= 0.07 D_{10}= 0.07
C_c= 0.9876 C_u= 1.9701

MATERIALS ENGINEERING LABORATOR

Report of Analytical Results

Client Sample ID: BDD012
Sample Description: BDD012
Sample Matrix: Soil
Site: N/A

Date Collected: 04/13/00 09:20 (Thu)
Date Received: 04/15/00 10:35 (Sat)

Reference No: D2779
Lab Sample ID: D2779001

CATEGORY NAME Analytical Parameter	Result	Units	Reporting Level	Date/Time of Analysis	Analytical Method(s)
GENERAL					
pH	6.94	units		04/25/00 00:00	SW9045
AGRICULTURAL					
Cation Exchange Capacity	1.7	meq/100g	0.8	04/30/00 00:00	SW9080
Moisture	31.3	%		04/20/00 00:00	ASTM D2216

(15348

Soils Analysis

PARTICLE SIZE ANALYSIS
ASTM D-422

3 10 0398

Proj. Desc.:	BROWNS DUMP SITE	Sample I.D.:	D2779-1
Proj. Number:	155440.JA.30	Client Sample I.D.:	BDD012
Attention:		Date Analyzed:	04/29/00
		Sample Desc:	SOIL

INITIAL SAMPLE MASS	Units			HYGROSCOPIC MOISTURE CON	Units	
Mass Dry Sample	g	50.00		Can No.	--	[
Moisture Cont	%	0.00		Gross Wet Mass	g	50.0
Corr. Dry Mass	g	50.00	(M)	Gross Dry Mass	g	50.0
Pass #10 sieve	%	100.00	(B)	Moisture Mass	g	0.0
Mass of total sample represented				Tare Mass	g	0.0
by mass used in hydrometer test				Dry Soil Mass	g	50.0
W = (M/B) x 100 =		50.00	g	Moisture Content	%	0.0

Hydrometer No.: 87026 Type: 152H

Dispersing Agent: Sodium Hexametaphosphate

Amount Used: 50 ml

Specific Gravity: 2.64

Material Retained On 75 um Sieve After Washing

STD Sieve #	Gross Mass	Tare Mass	Net Mass Indiv.	Retained Accumulative	Percent Retained Individual	Percent Retained Accumulative	STD Sieve	Accum. Percent Passing
20#	428.34	428.34	0.0	--	0.0	0.0	0.850mm	100.0
40#	394.79	394.69	0.1	0.1	0.2	0.2	0.425mm	99.8
80#	340.75	337.12	3.6	3.7	7.3	7.5	0.180mm	92.5
100#	365.07	357.52	7.6	11.3	15.1	22.6	0.150mm	77.4
200#	398.16	368.12	30.0	41.3	60.1	82.6	0.075mm	17.4
<200#	368.46	367.65	0.8	42.1	1.6	84.3	<0.075mm	15.7

Reading Time Day	Hr	Min	Elapsed Time (min)	Hydrom Reading	Temp °C	Corr. Hydrom Reading	Particle Diam. (mm)	Pct Soil Susp.
27	7	3	0	--	21.9	--	--	--
27	7	4	0.67	15.0	21.9	10.0	0.0609	20.1
27	7	34	30	11.5	21.9	6.5	0.0093	13.0
27	8	4	60	11.0	21.9	6.0	0.0066	12.0
27	11	4	240	10.0	21.9	5.0	0.0033	10.0
27	3	4	480	9.5	21.9	4.5	0.0023	9.0
28	7	4	1440	9.5	21.8	4.4	0.0014	8.8

Approved By: Ricky Jensen

Ricky Jensen
Resource Chemist

Date: 5/2/00

Report of Analytical Results

Client Sample ID: BDD013
Sample Description: BDD013
Sample Matrix: Soil
Site: N/A

Date Collected: 04/13/00 14:10 (Thu)
Date Received: 04/15/00 10:35 (Sat)

Reference No: D2778
Lab Sample ID: D2778003

CATEGORY NAME Analytical Parameter	Result	Units	Reporting Level	Date/Time of Analysis	Analytical Method(s)
GENERAL					
pH	6.82	units		04/25/00 00:00	SW9045
AGRICULTURAL					
Cation Exchange Capacity	4.9	meq/100g	0.8	04/30/00 00:00	SW9080
Moisture	27.2	%		04/20/00 00:00	ASTM D2216

(15347)

PARTICLE SIZE ANALYSIS
ASTM D-422

3 10 0400

Proj. Desc.:	BROWNS DUMP SITE	Sample I.D.:	D2778-3
Proj. Number:	155440.JA.30	Client Sample I.D.:	BDD013
Attention:		Date Analyzed:	04/29/00
		Sample Desc:	SOIL

INITIAL SAMPLE MASS	Units			HYGROSCOPIC MOISTURE CO	Units	
Mass Dry Sample	g	50.00		Can No.	–	
Moisture Cont	%	0.00		Gross Wet Mass	g	
Corr. Dry Mass	g	50.00	(M)	Gross Dry Mass	g	50
Pass #10 sieve	%	100.00	(B)	Moisture Mass	g	0
Mass of total sample represented				Tare Mass	g	0
by mass used in hydrometer test				Dry Soil Mass	g	50
W = (M/B) x 100 =		50.00 g		Moisture Content	%	0

Hydrometer No.: 87026 Type: 152H

Dispersing Agent: Sodium Hexametaphosphate

Amount Used: 50 ml

Specific Gravity: 2.66

Material Retained On 75 um Sieve After Washing

STD Sieve #	Gross Mass	Tare Mass	Net Mass Indiv.	Retained Accumulative	Percent Retained Individual	Percent Retained Accumulative	STD Sieve	Accum. Percent Passing
20#	414.21	414.20	0.0	–	0.0	0.0	0.850mm	100.0
40#	395.03	394.96	0.1	0.1	0.1	0.2	0.425mm	99.8
80#	356.90	353.07	3.8	3.9	7.7	7.8	0.180mm	92.2
100#	379.03	366.85	12.2	16.1	24.4	32.2	0.150mm	67.8
200#	395.74	366.02	29.7	45.8	59.4	91.6	0.075mm	8.4
<200#	369.91	369.41	0.5	46.3	1.0	92.6	<0.075mm	7.4

Reading Time Day	Hr	Min	Elapsed Time (min)	Hydrom Reading	Temp °C	Corr. Hydrom Reading	Particle Diam. (mm)	Pct Soil Susp.
27	7	2	0	–	21.9	–	–	–
27	7	3	0.67	12.0	21.9	7.0	0.0616	14.0
27	7	33	30	11.0	21.9	6.0	0.0093	12.0
27	8	3	60	10.0	21.9	5.0	0.0066	10.0
27	11	3	240	10.0	21.9	5.0	0.0033	10.0
27	3	3	480	9.5	21.9	4.5	0.0023	9.0
28	7	3	1440	9.5	21.8	4.4	0.0013	8.8

Approved By: Ricky Jensen
Ricky Jensen
Resource Chemist

Date: 5/2/00

Report of Analytical Results

Client Sample ID: BDD009
Sample Description: BDD009
Sample Matrix: Soil
Site: N/A

Date Collected: 04/13/00 17:25 (Thu)
Date Received: 04/15/00 10:35 (Sat)

Reference No: D2778
Lab Sample ID: D2778002

CATEGORY NAME Analytical Parameter	Result	Units	Reporting Level	Date/Time of Analysis	Analytical Method(s)
GENERAL					
pH	6.00	units		04/25/00 00:00	SW9045
AGRICULTURAL					
Cation Exchange Capacity	6.2	meq/100g	0.8	04/30/00 00:00	SW9080
Moisture	21.2	%		04/20/00 00:00	ASTM D2216

(15347)

PARTICLE SIZE ANALYSIS
ASTM D-422

3 10 0402

Proj. Desc.:	BROWNS DUMP SITE	Sample I.D.:	D2778-2
Proj. Number:	155440.JA.30	Client Sample I.D.:	BDD009
Attention:		Date Analyzed:	04/29/00
		Sample Desc:	SOIL

INITIAL SAMPLE MASS	Units			HYGROSCOPIC MOISTURE CO	Units	
Mass Dry Sample	g	50.00		Can No.	–	
Moisture Cont	%	0.00		Gross Wet Mass	g	
Corr. Dry Mass	g	50.00	(M)	Gross Dry Mass	g	50
Pass #10 sieve	%	100.00	(B)	Moisture Mass	g	0
Mass of total sample represented				Tare Mass	g	0
by mass used in hydrometer test				Dry Soil Mass	g	50
W = (M/B) x 100 =		50.00	g	Moisture Content	%	0

Hydrometer No.: 87026 Type: 152H

Dispersing Agent: Sodium Hexametaphosphate

Amount Used: 50 ml

Specific Gravity: 2.65

Material Retained On 75 um Sieve After Washing

STD Sieve #	Gross Mass	Tare Mass	Net Mass Indiv.	Retained Accumulative	Percent Retained Individual	Percent Retained Accumulative	STD Sieve	Accum. Percent Passing
20#	428.40	428.37	0.0	–	0.1	0.1	0.850mm	99.9
40#	394.70	394.70	0.0	0.0	0.0	0.1	0.425mm	99.9
80#	338.01	337.10	0.9	0.9	1.8	1.9	0.180mm	98.1
100#	364.58	357.53	7.1	8.0	14.1	16.0	0.150mm	84.0
200#	399.36	368.03	31.3	39.3	62.7	78.6	0.075mm	21.4
<200#	368.24	367.68	0.6	39.9	1.1	79.8	<0.075mm	20.2

Reading Time Day	Hr	Min	Elapsed Time (min)	Hydrom Reading	Temp °C	Corr. Hydrom Reading	Particle Diam. (mm)	Pct Soil Susp.
27	7	1	0	–	21.9	–	–	–
27	7	2	0.67	18.0	21.9	13.0	0.0596	26.0
27	7	32	30	17.0	21.9	12.0	0.0090	24.0
27	8	2	60	16.0	21.9	11.0	0.0064	22.0
27	11	2	240	16.0	21.9	11.0	0.0032	22.0
27	3	2	480	15.5	21.9	10.5	0.0023	21.0
28	7	2	1440	15.0	21.8	9.9	0.0013	19.8

Approved By: Ricky Jensen

Ricky Jensen
Resource Chemist

Date: 5/2/00

Report of Analytical Results

Client Sample ID: BDD001
Sample Description: BDD001
Sample Matrix: Soil
Site: N/A

Date Collected: 04/14/00 08:30 (Fri)
Date Received: 04/15/00 10:35 (Sat)

Reference No: D2778
Lab Sample ID: D2778001

CATEGORY NAME Analytical Parameter	Result	Units	Reporting Level	Date/Time of Analysis	Analytical Method(s)
GENERAL					
pH	7.63	units		04/25/00 00:00	SW9045
AGRICULTURAL					
Cation Exchange Capacity	1.7	meq/100g	0.8	04/30/00 00:00	SW9080
Moisture	20.5	%		04/20/00 00:00	ASTM D2216

(15347)

PARTICLE SIZE ANALYSIS
ASTM D-422

3 10 0404

Proj. Desc.:	BROWNS DUMP SITE	Sample I.D.:	D2778-1
Proj. Number:	155440.JA.30	Client Sample I.D.:	BDD001
Attention:		Date Analyzed:	04/29/00
		Sample Desc:	SOIL

INITIAL SAMPLE MASS	Units			HYGROSCOPIC MOISTURE CO	Units	
Mass Dry Sample	g	50.00		Can No.	–	
Moisture Cont	%	0.00		Gross Wet Mass	g	
Corr. Dry Mass	g	50.00	(M)	Gross Dry Mass	g	50
Pass #10 sieve	%	100.00	(B)	Moisture Mass	g	0
Mass of total sample represented				Tare Mass	g	0
by mass used in hydrometer test				Dry Soil Mass	g	50
W = (M/B) x 100 =		50.00 g		Moisture Content	%	0

Hydrometer No.: 87026 Type: 152H

Dispersing Agent: Sodium Hexametaphosphate

Amount Used: 50 ml

Specific Gravity: 2.56

Material Retained On 75 um Sieve After Washing

STD Sieve #	Gross Mass	Tare Mass	Net Mass Indiv.	Retained Accumulative	Percent Retained Individual	Percent Retained Accumulative	STD Sieve	Accum. Percent Passing
20#	414.33	414.23	0.1	–	0.2	0.2	0.850mm	99.8
40#	395.60	395.01	0.6	0.7	1.2	1.4	0.425mm	98.6
80#	356.26	353.09	3.2	3.9	6.3	7.7	0.180mm	92.3
100#	374.36	366.77	7.6	11.5	15.2	22.9	0.150mm	77.1
200#	394.41	366.04	28.4	39.8	56.7	79.6	0.075mm	20.4
<200#	369.49	369.49	0.0	39.8	0.0	79.6	<0.075mm	20.4

Reading Time Day	Hr	Min	Elapsed Time (min)	Hydrom Reading	Temp °C	Corr. Hydrom Reading	Particle Diam. (mm)	Pct Soil Susp.
27	7	0	0	–	21.9	–	–	–
27	7	1	0.67	17.5	21.9	12.5	0.0615	25.5
27	7	31	30	13.0	21.9	8.0	0.0094	16.3
27	8	1	60	12.5	21.9	7.5	0.0067	15.3
27	11	1	240	12.0	21.9	7.0	0.0034	14.3
27	3	1	480	11.5	21.9	6.5	0.0024	13.3
28	7	1	1440	11.0	21.8	5.9	0.0014	12.0

Approved By: Ricky Jensen

Ricky Jensen
Resource Chemist

Date: 5/2/00

Report of Analytical Results

Client Sample ID: BDD002
Sample Description: BDD002
Sample Matrix: Soil
Site: N/A

Date Collected: 04/17/00 09:55 (Mon)
Date Received: 04/19/00 09:15 (Wed)

Reference No: D2791
Lab Sample ID: D2791001

CATEGORY NAME Analytical Parameter	Result	Units	Reporting Level	Date/Time of Analysis	Analytical Method(s)
GENERAL					
pH	5.89	units		04/25/00 00:00	SW9045
AGRICULTURAL					
Cation Exchange Capacity	7.6	meq/100g	0.8	04/30/00 00:00	SW9080
Moisture	17.8	%		05/02/00 00:00	ASTM D2216

(15351)

PARTICLE SIZE ANALYSIS
ASTM D-422

3 10 0406

Proj. Desc.:	BROWNS DUMP SITE	Sample I.D.:	D2791-1
Proj. Number:	155440.JA.30	Client Sample I.D.:	BDD002
Attention:		Date Analyzed:	04/29/00
		Sample Desc:	SOIL

INITIAL SAMPLE MASS	Units			HYGROSCOPIC MOISTURE C	Units
Mass Dry Sample	g	50.00		Can No.	–
Moisture Cont	%	0.00		Gross Wet Mass	g
Corr. Dry Mass	g	50.00	(M)	Gross Dry Mass	g
Pass #10 sieve	%	100.00	(B)	Moisture Mass	g
Mass of total sample represented				Tare Mass	g
by mass used in hydrometer test				Dry Soil Mass	g
W = (M/B) x 100 =		50.00 g		Moisture Content	%

Hydrometer No.: 87026 Type: 152H

Dispersing Agent: Sodium Hexametaphosphate

Amount Used: 50 ml

Specific Gravity: 2.64

Material Retained On 75 um Sieve After Washing

STD Sieve #	Gross Mass	Tare Mass	Net Mass Indiv.	Retained Accumulative	Percent Retained Individual	Percent Retained Accumulative	STD Sieve	Accum. Percent Passing
20#	414.26	414.24	0.0	–	0.0	0.0	0.850mm	100.0
40#	395.13	394.98	0.1	0.2	0.3	0.3	0.425mm	99.7
80#	359.50	353.08	6.4	6.6	12.8	13.2	0.180mm	86.8
100#	378.79	366.82	12.0	18.6	23.9	37.1	0.150mm	62.9
200#	387.23	366.06	21.2	39.7	42.3	79.5	0.075mm	20.5
<200#	369.76	369.47	0.3	40.0	0.6	80.0	<0.075mm	20.0

Reading Time Day	Hr	Min	Elapsed Time (min)	Hydrom Reading	Temp °C	Corr. Hydrom Reading	Particle Diam. (mm)	Pct Soil Susp.
27	7	4	0	--	21.9	--	--	--
27	7	5	0.67	18.0	21.9	13.0	0.0598	26.1
27	7	35	30	17.0	21.9	12.0	0.0090	24.1
27	8	5	60	17.0	21.9	12.0	0.0064	24.1
27	11	5	240	16.5	21.9	11.5	0.0032	23.1
27	3	5	480	16.5	21.9	11.5	0.0023	23.1
28	7	5	1440	16.5	21.8	11.4	0.0013	22.9

Approved By: Ricky Jensen
Ricky Jensen
Resource Chemist

Date: 5/2/00

PARTICLE SIZE ANALYSIS
ASTM D-422

3 10 0407

Proj. Desc.:	Browns Dump Site	Sample I.D.:	042900LC
Proj. Number:	155440.JA.30	Client Sample I.D.:	LCS
Attention:		Date Analyzed:	04/29/00
		Sample Desc:	SOIL

INITIAL SAMPLE MASS	Units			HYGROSCOPIC MOISTURE CC	Units	
Mass Dry Sample	g	50.00		Can No.	–	
Moisture Cont	%	0.00		Gross Wet Mass	g	--
Corr. Dry Mass	g	50.00	(M)	Gross Dry Mass	g	5(
Pass #10 sieve	%	100.00	(B)	Moisture Mass	g	(
Mass of total sample represented				Tare Mass	g	(
by mass used in hydrometer test				Dry Soil Mass	g	5(
W = (M/B) x 100 =		50.00 g		Moisture Content	%	(

Hydrometer No.: 87026 Type: 152H
Dispersing Agent: Sodium Hexametaphosphate
Amount Used: 50 ml

Specific Gravity: 2.66

Material Retained On 75 um Sieve After Washing

STD Sieve #	Gross Mass	Tare Mass	Net Mass Indiv.	Retained Accumulative	Percent Retained Individual	Percent Retained Accumulative	STD Sieve	Accum. Percent Passing
20#	428.22	428.12	0.1	–	0.2	0.2	0.850mm	99.8
40#	395.06	394.47	0.6	0.7	1.2	1.4	0.425mm	98.6
80#	352.70	336.96	15.7	16.4	31.5	32.9	0.180mm	67.1
100#	362.11	357.30	4.8	21.2	9.6	42.5	0.150mm	57.5
200#	377.62	367.81	9.8	31.1	19.6	62.1	0.075mm	37.9
<200#	368.33	367.45	0.9	31.9	1.8	63.9	<0.075mm	36.1

Reading Time Day	Hr	Min	Elapsed Time (min)	Hydrom Reading	Temp °C	Corr. Hydrom Reading	Particle Diam. (mm)	Pct Soil Susp.
27	7	14	0	–	21.9	–	–	–
27	7	15	0.67	25.5	21.9	20.5	0.0566	41.0
27	7	45	30	16.5	21.9	11.5	0.0090	23.0
27	8	15	60	15.0	21.9	10.0	0.0064	20.0
27	11	15	240	13.0	21.9	8.0	0.0032	16.0
27	3	15	480	12.5	21.9	7.5	0.0023	15.0
28	7	15	1440	12.0	21.8	6.9	0.0013	13.8

Approved By: Ricky Jensen
Ricky Jensen
Resource Chemist

Date: 5/2/00

QC Summary

Initial and Continuing Calibration Verification
GENERAL CHEMISTRY

3 10 0409

Lab Reference No./SDG: D2778

Analytical Parameter	Conc. Units	INITIAL CALIBRATION True	INITIAL CALIBRATION Found	INITIAL CALIBRATION % Rec.	CONTINUING CALIBRATION True	CONTINUING CALIBRATION Found	CONTINUING CALIBRATION % Rec.	CONTINUING CALIBRATION True	CONTINUING CALIBRATION Found	CONTINUING CALIBRATION % Rec
Cations Exchange Capacity	meq/100g									NR
Moisture	%									NR
pH (Soil)	Units	7.00	6.99	99.9	7.00	6.99	99.9	7.00	6.98	99.7

Comments: Control Limits are 90-110% (except where noted).

Columbia Analytical Services -- Redding
Form II

Blanks
GENERAL CHEMISTRY

Lab Reference No./SDG: D2778

Method Blank matrix: Soil

Method Blank Units: meq/100g

Analytical Parameter	Initial Cal. Blank	Continuing Cal. Blank 1	Continuing Cal. Blank 2	Method Blank	Conc. Units
Cations Exchange Capacity	N/A	N/A		<0.8	meq/100g
Moisture					NR
pH (Soil)					NR

COMMENTS:
The Concentration Units pertain only to the Initial Calibration Blank and the Continuing Calibration Blanks.
The Concentration Units for the Method Blank can be located at the top of the page.

Laboratory Control Sample
GENERAL CHEMISTRY

3 10 0411

Lab Reference No./SDG: D2778

Analytical Parameter	Conc. Units	Nonaqueous True	Nonaqueous Found	Nonaqueous % Rec	Aqueous True	Aqueous Found	Aqueous % Rec	Li
Cations Exchange Capacity	Meq/100g	7.2	7.7	106.9				83.3
Moisture	%	0.8	0.9	112.5				25.0
pH (Soil)	Units	5.66	5.59	98.8				94.7

COMMENTS:

Columbia Analytical Services -- Redding
Form VII

3 10 0412

Appendix D

3 10 .0413

DATA QUALITY EVALUATION
PHASE 1

MEMORANDUM CH2MHILL

Browns Dump Site - Data Quality Evaluation

TO: Norm Hatch/JAX

David Lane/GNV

FROM: Herb Kelly/GNV

DATE: October 17, 2000

This technical memorandum (TM) presents the Data Quality Evaluation (DQE) completed for RI/FS Investigation at the Browns Dump Site in Jacksonville, Florida.

1.0 DQE Process

The purpose of the data quality evaluation process is to assess the effect of the overall analytical process on the usability of the data. The two major categories of data evaluation are laboratory performance and matrix interferences. Evaluation of laboratory performance is a check for compliance whether the laboratory analyzed the samples within the analytical method requirements. Evaluation of matrix interferences is more subtle and involves the analysis of several types of results, including surrogate spike recoveries, matrix spike recoveries, and duplicate sample results.

Introduction

Before the analytical results were released by the laboratory, both the sample and QC data were carefully reviewed to verify sample identity, instrument calibration, detection limits, dilution factors, numerical computations, accuracy of transcriptions, and chemical interpretations. Additionally, the QC data were reduced and the resulting data were reviewed to ascertain whether they were within the laboratory-defined limits for accuracy and precision. Any non-conforming data were discussed in the data package cover letter and case narrative.

All of the data packages were reviewed by the project chemists using the process outlined in two U.S. Environmental Protection Agency (EPA) guidance documents for evaluating data:

- *Contract Laboratory Program National Functional Guidelines for Organic Data Review* (EPA, 1994a); and
- *Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (EPA, 1994b).

The data validation and review process is independent of the laboratory's checks and focuses on the usability of the data to support the project data interpretation and decision-making processes. Areas of review included holding time compliance, surrogate recoveries, matrix spiked sample results, method blank results, initial and continuing calibrations, laboratory control samples, internal standard response and retention times, instrument

tuning criteria, laboratory duplicate sample results and field sample duplicate results. A data review worksheet was completed for each of these data packages.

In those instances where multiple analyses were performed, the analytical run with the lowest reporting limits was used, if the QC criteria were met for that analysis. If a sample was analyzed more than one time due to a target parameter concentration above the calibration range, the results for all parameters from the lowest dilution were used, except for those parameters exceeding the calibration range. The results for those parameters exceeding the calibration range in the initial analysis, were then reported from the diluted analysis. In those instances where multiple analyses were performed with QC criteria out in all analyses, the analytical run with the least number of exceptions or best possible QC was chosen for reporting purposes.

Sample results that were not within the acceptance limits (indicated by the query process) were appended with a qualifying flag, which consisted of a single- or double-letter code that indicated a possible problem with the data. The qualifying flags originated during the data review, validation, and database query processes. Although the qualifying flags are appended to data records during the database query process, they are included in the final data summary tables deliverable so that the data will not be used indiscriminately. These also include the secondary, or the two-digit "sub-qualifier" flags, that are entered into the comments field of the database. The secondary qualifiers provide the reasoning behind the assignment of a qualifier flag to the data. The secondary qualifiers are presented and defined in Table 1. The following primary flags were used to qualify the data:

- **U** Undetected. Samples were analyzed for this analyte, but it was not detected above the method detection limit (MDL) or instrument detection limit (IDL). Additionally, the "U" qualifier was used in those instances where a value was flagged as not detected due to blank contamination.
- **UJ** Detection limit estimated. Samples were analyzed for this analyte, but the results were qualified as not detected. The result is estimated.
- **J** Estimated. The analyte was present, but the reported value may not be accurate or precise.
- **R** Rejected. The data are unusable. (NOTE: Analyte/compound may or may not be present.)
- **=** Detected. Target parameter detected at the concentration reported.

Numerical sample results that were greater than the method detection limit but less than the Reporting limit (RL) were qualified with a "J" for estimated, as recommended by the EPA guidance documents.

Once the data validation review and processes were completed, the entire data set was reviewed for chemical compound frequencies of detection, dilution factors that might affect data usability, and patterns of target compounds distribution. The data set was also evaluated to identify potential data limitations, uncertainties, or both in the analytical results. Table 2 lists the changes in data qualifiers due to the validation process.

2.0 Analysis Summary

The analytical methods used and the number of soil, sediment, surface water, and groundwater samples are summarized in Table 3. In general, samples were analyzed using the following analytical methods:

- Selected metals by SW-846 methods 6010 or the 7000 series
- Organochlorine Pesticides by SW-846 8081
- Polychlorinated Biphenyl Compounds by SW-846 8082
- GC/MS volatile organic compounds (VOCs) by SW-846 method 8260
- GC/MS semivolatile organic compounds (SVOCs) by SW-846 method 8270
- GC/MS Dioxins by method SW-846 8290
- Low-level polyaromatic hydrocarbons (PAHs) by SW-846 method 8310
- Dioxin screening by EPA method SW-846 4425 (Draft)

Investigation derived waste samples were evaluated as a characteristic toxic waste by first extracting the samples using the Toxicity Characteristic Leaching Procedure (TCLP) and then analyzing the "leachate" for metals. The target parameter list for each analytical method and the required reporting limits are included in the project Quality Assurance Project Plan (QAPP).

Field QC samples were also collected as part of the field investigation and submitted to the laboratory for analysis, including ambient blanks (or field blank), equipment rinsate blanks, and trip blanks. Additional sample volumes were also collected for Matrix Spike/Matrix Spike Duplicate (MS/MSD) and Field Duplicate (FD) samples and submitted with the primary soil samples. Field QC samples were analyzed for "total" methods only and were not analyzed with the TCLP extracted samples. Selected groundwater and surface water samples were filtered in the field and the samples submitted to the laboratory for analysis of the "dissolved" metals.

Prior to collecting field samples, several laboratories were audited and evaluated for their ability to perform the analytical services in support of the Brown's Dump and Jacksonville Ash Sites projects. Initially, Columbia Analytical Laboratories, Inc. (CAS) was selected to perform most of the analytical work; two other laboratories, STL Savannah Laboratories and PEL Laboratories, were contracted to provide back-up services. CAS is a full-service laboratory system with more than 11 fixed laboratory locations, including additional service centers. The analytical services were to be distributed among the CAS laboratories.

At the beginning of the sampling event, the CAS Jacksonville Laboratory encountered significant problems with the equipment used for the metals analyses. For this reason, STL Savannah Laboratories in Savannah, Georgia, was tasked with performing all of the metals analyses. CAS Jacksonville Laboratory also experienced capacity issues with respect to the organic analyses. As a result, STL Savannah Laboratories was also tasked with performing all other analyses except the dioxin screening method 4425 and the confirmatory

dioxin/furan analysis, SW-846 8290. Prior to the transition from CAS to STL Savannah, PCB contamination was observed at the CAS Laboratory. PCB contamination affected the pesticide and PCB fractions, requiring re-extraction of all samples affected.

2.1 Holding Times

Holding times for each of the analytical methods is presented in the QAPP. The holding times for each parameter were evaluated according to SW-846 methodology. All samples were analyzed within holding times, with the exception of those samples listed in Table 4. The majority of samples exceeding holding times fall into 2 categories. The remaining samples were re-analyzed due to low surrogate recoveries or low internal standard areas.

The first group of samples involves those requiring SW-846 8081 and 8082 analyses. As discussed in the section above, PCB contamination was observed in several laboratory method blank and laboratory control spiked samples, in the CAS Jacksonville Laboratory. All of the original extractions met the method required holding times. While some of the holding times for the re-extractions were slightly exceeded, most of the re-extractions were performed within 30 days of sample collection, and the results of both extractions and analyses were provided by the CAS laboratory.

The second group of samples involves those requiring the dioxin screening method 4425. While evaluating the correlation between the results of the dioxin screening method 4425 and the confirmatory method SW-846 8290, it was determined that the correlation was not consistent with that which the laboratory had observed in other matrices. The laboratory investigated the inconsistency and determined that the extraction solvent of methylene chloride was not the best selection. Consequently, all samples were re-extracted using toluene as the extraction solvent, and the correlation was significantly improved.

2.2 Calibration

The majority of calibration criteria pertaining to all methods were met for these samples. Table 5 reflects data that were qualified due to initial or continuing calibration deficiencies. No results were rejected, and the affected results were qualified as estimated (J/UJ).

2.3 Potential Field Sampling and Laboratory Contamination

Four types of blank samples were used to monitor potential contamination introduced during field sampling, sample handling, shipping activities, as well as sample preparation and analysis in the laboratory.

- **Trip Blank (TB)**: A sample of ASTM Type II water that is prepared in the laboratory prior to the sampling event. The water is stored in VOC sample containers; it is not opened in the field, and travels back to the laboratory with the other samples for VOC analysis. This blank is used to monitor the potential for sample contamination during the sample container trip. One trip blank should be included in each sample cooler that contained samples for VOC analysis.

- **Equipment Rinsate Blank (ERB)**: A sample of the target-free water used for the final rinse during the equipment decontamination process. This blank sample is collected by rinsing the sampling equipment after decontamination and is analyzed for the same

analytical parameters as the corresponding samples. This blank is used to monitor potential contamination caused by incomplete equipment decontamination. One equipment rinsate blank should be collected per day of sampling, per type of sampling equipment.

- **Field Blank or Ambient Blank (FB or AB)**: The field blank is an aliquot of the source water used for equipment decontamination. This blank monitors contamination that may be introduced from the water used for decontamination. One field blank should be collected from each source of decontamination water and analyzed for the same parameters as the associated samples.
- **Laboratory Method Blank or Method Blank (MB)**: A laboratory method blank is ASTM Type II water that is treated as a sample in that it undergoes the same analytical process as the corresponding field samples. Method blanks are used to monitor laboratory performance and contamination introduced during the analytical procedure. One method blank was prepared and analyzed for every twenty samples or per analytical batch, whichever was more frequent.

According to the *EPA National Functional Guidelines*, concentrations of common organic contaminants detected in samples at less than ten times the concentration of the associated blanks can be attributed to field sampling and laboratory contamination rather than environmental site conditions. Common organic contaminants include acetone, methylene chloride, 2-butanone, and the phthalate compounds. For inorganic and non-common organic contaminants, five times the concentration detected in the associated blank samples is used to qualify results as potential field and/or laboratory contamination rather than environmental contamination. The five or ten times rule was applied on a sample delivery group (SDG) basis, and not globally. Target parameters reported in the samples at levels less than the 5 or 10 times the concentration in the associated blanks were qualified as not detected.

2.4 Data Quality Effects from Potential Field Sampling and Laboratory Contamination

A comprehensive list of all detects in each blank is provided in Table 6A. Table 6B contrasts the frequency and magnitude of detection between normal field samples and blanks. Moreover, many results reported in blanks (especially metals) are well below any practical quantitation limit (PQL) and may represent Type I or II errors when associated with a matrix. A Type I (or alpha error) occurs when the value reported is dismissed as a biased high or false positive result, and a Type II (or beta error) is considered as a biased low or false negative result.

As stated above, the *EPA National Functional Guidelines*, concentrations of common organic contaminants detected in samples at less than ten times the concentration of the associated blanks can be attributed to field sampling and laboratory contamination rather than environmental site conditions.

When evaluating any significant amount of data such as this, there may be instances in which common laboratory contaminants are reported at low levels in samples, but are not detected in any associated blank samples. Acetone and methylene chloride, are used as

extraction solvents in the laboratory and are common laboratory contaminants. Acetone is also often associated with equipment rinsate solvents, such as isopropanol, as a solvent contaminant. Phthalates are used as plasticizers, the most common of which is bis(2-ethylhexyl)phthalate (BEHP), and are often introduced into samples during handling. The field samplers often wear latex gloves during the field sampling process, and latex gloves are coated with plasticizers such as BEHP and di-n-butylphthalate to facilitate release of the gloves from the skin. Laboratory personnel also wear latex gloves during sample extraction and handling.

A short summary of the results presented in Table 6B are outlined below.

2.4.1 VOCs

Ten volatile compounds were reported in laboratory and /or field blanks. Chloroform and chloromethane were reported in field samples, but were not detected in any of the associated blank samples. Chlorobenzene was detected in two Trip Blank samples, and styrene was detected in one laboratory method blank, but these compounds were not detected in any other blank sample or field samples. Acetone was detected in one out of seven equipment blanks at a concentration of 19 ug/L, and in only one laboratory method blank at concentration of 5 ug/L. Concentrations in the associated field samples ranged from 8 ug/kg to 540 ug/kg. Only eight sample results were qualified due to possible blank contamination. Although methylene chloride is a common contaminant, it was only reported in 3 out of 28 field samples at concentrations of 5 and 100 ug/kg. These results are most likely due to field or laboratory blank contamination. Another common contaminant, 2-Butanone, was detected in a single laboratory method blank at a concentration of 6 ug/kg, but was reported in 9 out of 31 soil samples at concentrations from 3 ug/kg to 32 ug/kg. Carbon Disulfide was reported in 9 out of 28 field samples at concentrations ranging from 0.8 to 14 ug/kg, while being detected in only one soil method blank at a concentration of 0.2 ug/kg. Five samples were qualified as not detected, due to possible blank contamination. Toluene was detected in two soil laboratory method blanks at concentrations of 0.3 and 0.6 ug/kg respectively. The field samples reported toluene at concentrations ranging from 0.3 to 60 ug/kg.

2.4.2 SVOCs

Twelve semivolatile compounds were detected in blanks. Three of the compounds were common phthalate contaminants, bis(2-ethylhexyl)phthalate, di-n-butyl phthalate, and di-n-octyl phthalate. Di-n-octyl phthalate was detected in a single water laboratory method blank, but it was not reported in any water samples; and it was reported in a single subsurface soil sample, but not in any soil method blank sample. Di-n-butyl phthalate was reported in a single groundwater sample at a concentration of 0.35 ug/L; and detected in one equipment blank at a concentration of 0.75 ug/L and in a single laboratory method blank at a concentration of 0.85 ug/L. Bis(2-ethylhexyl)phthalate was reported in 21 of 65 samples at concentrations ranging from 54 to 790 ug/kg, and detected in 3 out of 16 soil blanks at concentrations between 34 and 88 ug/kg.

The remaining nine compounds are polyaromatic hydrocarbons, the majority of which are associated with six laboratory method blanks. All of the compound concentrations are below one third of the reporting limits, with the exception of two compounds that are about

one half of the reporting limits. The concentrations in the associated field samples were generally above the level associated with blank contamination.

2.4.3 Pesticides/PCBs

As stated previously, CAS Jacksonville Laboratory encountered Pesticide/PCB contamination at significant concentrations. All of the samples were re-extracted and reanalyzed, and the data from both analyses provided. The parameters that were reported as not detected from the initial analysis were used, and any reported concentrations were rejected as possible laboratory contamination. The results for these parameters from the re-extractions and re-analyses were used. In greater than 95 percent of the cases where a result was originally reported as a detection, the re-analysis was reported as a non-detect.

The only compound reported from STL Savannah was 4,4'-DDT in a single laboratory method blank at a concentration of 0.6 ug/kg. All reported concentrations in soil samples were above nine times this amount, with the lowest reported concentration at 5.5 ug/kg.

2.4.4 Dioxins

Three dioxin and four furan compounds were reported in either laboratory method or equipment rinsate blanks. Table 6B contrasts these compounds in the blanks and the field samples by concentration and units. The table indicates that a single rinsate blank was reported to contain 1277 pg/L of octachlorodibenzo-p-dioxin. This compound is ubiquitous and is detected at low levels in samples and blanks. Two samples (BDB417 and BDB418FD) were associated with this blank and were qualified as non-detects (U) due to blank contamination. There were no other dioxins or furans qualified for blank contamination as any other detections were orders or magnitude below sample results.

2.4.5 Metals

As detailed in Table 6B, twenty-one metals and cyanide were reported in either the laboratory method, equipment rinsate, and/or ambient field blanks. Sample results less than five times the concentration found in the blanks associated with that SDG were attributed to field sampling or laboratory contamination and are not considered to be indicative of environmental contamination. Additionally, several values reported were at or near the method detection limit and could be Type I or Type II errors associated with instrument noise and the lack of precision and accuracy at this level. Samples reflecting this condition were qualified as not detected (182 metals and 2 cyanide results) and are presented in Table 2.

The number of samples qualified as not detected (U/UJ) per element were: eight total and one dissolved aluminum, one arsenic, eight beryllium, six cadmium, four chromium, twenty-two total and four dissolved copper, six iron, eleven lead, fifteen magnesium, one total and two dissolved manganese, eight nickel, one potassium, fourteen selenium, forty-nine sodium, five thallium, ten total and one dissolved zinc.

Many of these metals are ubiquitous at low levels (aluminum, chromium, copper, iron, lead, magnesium, manganese, nickel, potassium, sodium, and zinc). Chromium, iron, nickel, and manganese are associated with alloys of steel. Aluminum and copper are the primary metals used in conduits, tubing, and some electrical wiring. Lead is associated with many alloys or solder combinations. Zinc is a common metal and is often used as a catalyst in many

manufacturing processes. Elements associated with salts such as sodium, magnesium, and potassium are also common contaminants at low levels. Other metals such as arsenic, beryllium, cadmium, thallium, and selenium are not common contaminants and generally are quantitated just above the MDL and are often Type I errors associated with instrument noise and matrix effects.

2.5 Matrix Effects

2.5.1 Surrogate Spike Recovery

Surrogate spike compounds were added to every sample analyzed for the organic parameters including field and laboratory blanks as well as field environmental samples. Surrogate spikes consist of organic compounds which are similar to the method targets in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.

Surrogate spike recoveries were used to monitor both laboratory performance and matrix interferences. Surrogate spike recoveries from field and laboratory blanks were used to evaluate laboratory performance because the blanks should represent an "ideal" sample matrix. Surrogate spike recoveries for field samples were used to evaluate the potential for matrix interferences. According to EPA *National Functional Guidelines*, data are not qualified with respect to surrogate recoveries unless one or more volatile surrogates are out of specifications. Semivolatiles are not qualified unless two or more surrogates, within the same fraction (base/neutral or acid fraction), are out of specification.

Per SW-846, the laboratory should develop in-house performance criteria for surrogate recoveries. Once established, control limits and warning limits for surrogates should be updated at least semi-annually.

Target acceptance limits for surrogate spike recoveries are presented in Table 7. All reported surrogate spike recoveries for field and QC samples are presented by each analytical fraction in Table 8. (Although some results indicate a "zero percent" recovery, the majority were associated with dilutions, while some were associated with a matrix interferant. In either situation, the laboratory did not calculate the surrogate recoveries.)

The only sample results that were qualified due to surrogate recoveries as listed in Table 2, were associated with the Pesticide/PCB fractions of selected samples.

In general, surrogate recoveries were well within method acceptance ranges. Overall, these data indicate that the specific sample matrix did not greatly influence the overall analytical process or the final numerical sample result.

2.5.2 Matrix Spike/Matrix Spike Duplicate Precision and Accuracy

A matrix spike (MS) is an aliquot of sample spiked with a known concentration of target analyte(s). The sample is spiked with the solution containing target compounds prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix. The matrix spike duplicate (MSD) is an intra-laboratory-split sample spiked with identical concentrations of target analyte(s), and treated just as the matrix spike sample. Accuracy is evaluated from the spike recoveries, while precision is evaluated from comparison of the percent recoveries of the MS and MSD. Target acceptance

limits for MS and MSD recovery and precision are presented in Table 9. Samples with MS and MSD recoveries and precision results outside the method target acceptance limits are summarized in Table 10.

Organic results are not qualified upon the results of MS/MSD results alone. Evaluation is in conjunction with surrogate, LCS, and internal standard (if applicable) results. Additionally, many MS/MSD samples require dilution and thus the spike compounds added are diluted out and unable to be evaluated.

Inorganic results may be qualified solely upon the results of the matrix spike/matrix spike duplicate precision and accuracy. Instances where the native sample concentration for a given element exceeds the spike added concentration by a factor of four or more are not evaluated as the spike added would be masked by the native concentration. Metals with recoveries of greater than 30% and outside the 75-125% recovery control limits were flagged as estimated. Precision requirements for waters are at 20 relative percent difference (RPD), and for soils, the RPD is 35 percent.

A total of 876 results were evaluated for recovery and precision criteria, with 41 results out of acceptance limits. Twenty-two of the results out of acceptance limits were associated with three samples. The samples and the number of results out of criteria in criteria are BDA022 (5 metals), BDA278 (8 results), and BDC014FD (9 SVOC – all SVOC RPDs).

The majority of the accuracy and precision results were well within established criteria, indicating that the specific sample matrix did not greatly influence the overall analytical process or the final numerical sample result.

2.5.3 Field Duplicate Sample Results

Duplicate field samples were collected and submitted to the laboratory for analysis. Both the native and duplicate samples were analyzed for the same parameters. Field duplicate analyses measure both field and laboratory precision and can also be affected by the homogeneity of the samples. Therefore the results may have more variability than laboratory duplicates, which measure only laboratory performance. Duplicate samples are not spiked; therefore, evaluation of duplicate sample results can only be performed on the comparison of positive sample results. Sample results are not qualified based on duplicate sample results; instead, the information is used to support the overall assessment of precision. According to the EPA *National Functional Guidelines,* there are no qualification criteria for field duplicate precision.

A control limit of ± 20 percent for the RPD was used for original and duplicate aqueous sample values greater than or equal to five times the RL. A control limit of ± 35 percent for the RPD was used for original and duplicate soil sample values greater than or equal to five times the RL. A control limit of ± the RL was used if either the sample for the duplicate value was less than five times the RL. In the cases where only one result is more than five times the RL level and the other is below, the ± RL criteria were applied. Summarized in Table 11 are the duplicate sample results greater than the reporting limit with a relative percent difference of greater than 20 or 35 percent.

There were 661 analyte records which could be evaluated based upon the criteria as outlined in the paragraph above. A total of 39 of these measurements (5.9%) were outside

the acceptance criteria as defined in this text. The field duplicate precision data indicate that matrix heterogeneity and sampling technique did not greatly influence the final numerical result.

2.5.4 Laboratory Duplicate Sample Results

Laboratory duplicate sets were analyzed during this field effort. The parameters that were outside of established precision criteria are presented as Table 12. A total of 88 laboratory duplicate results were reviewed, with only six of those falling outside criteria, four of those associated with the metals analysis of one sample, BDA022D. The precision data indicate that matrix heterogeneity and analytical process techniques did not greatly influence the analytical method or the final numerical result.

2.6 Metals Results near the Instrument Detection Limit

The samples were analyzed for a selected list of metals. The MDL is defined as the minimum concentration of an analyte that can be identified, measured, and reported with 99% confidence that the analyte concentration is greater than zero. Sample results at or near the MDL are not accurate or precise. This situation is often caused by instrument noise or low-level background shifts, rather than a true analyte signal. As concentrations approach a "quantitation limit", the confidence in the values increase. If the reported result was above the MDL, but below the RL, the data was qualified as "J", as estimated.

2.7 Data Rejected during the Data Validation Process

Some samples may be analyzed multiple times by the laboratory because of dilution requirements or because spike recoveries are outside the method target acceptance limits. The laboratory reports all analyses; therefore, it is possible that several sample results may exist for a specific sample and analysis. During the data validation, all the sample results are evaluated and the "best answer" for each sample and analysis is chosen, and the other results are rejected.

In those instances where multiple analyses were performed, the analytical run with the lowest reporting limits was used, if the QC criteria were met for that analysis. If a sample was analyzed more than one time due to a target parameter concentration above the calibration range, the results for all parameters from the lowest dilution were used, except for those parameters exceeding the calibration range. The results for those parameters exceeding the calibration range in the initial analysis, were then reported from the diluted analysis.

Additionally, selected sample results may be rejected for specific QC non-conformance issues. In those instances where multiple analyses were performed with QC criteria out in all analyses, the analytical run with the least number of exceptions or best possible QC was chosen for reporting purposes.

There are no results that were rejected, for which there is not an associated "acceptable" result available.

2.8 PARCCs

2.8.1 Precision

Precision is defined as the agreement between duplicate results, and was estimated by comparing duplicate matrix spike recoveries, native duplicates, and field duplicate sample results. Other than the documented exceptions, the precision between native and field duplicate sample results were within acceptable criteria for the majority of the measurements, indicating that sample matrix did not significantly interfere with the overall analytical process.

2.8.2 Accuracy

Accuracy is a measure of the agreement between an experimental determination and the true value of the parameter being measured. For the organic analyses, each of the samples was spiked with a surrogate compound; and for organic and inorganic analyses a MS/MSD and Laboratory Control Sample (LCS) were spiked with a known reference material before preparation. Each of these approaches provides a measure of the matrix effects on the analytical accuracy. The LCS consists of a "controlled matrix", and results demonstrate accuracy of the method and the laboratory's to meet the method criteria. MS/MSD and native duplicate results establish precision and accuracy of the matrix. Accuracy can be estimated from the analytical data and was not measured directly. Spike recoveries were within the method acceptance limits for the majority of the measurements; therefore, other than the documented exceptions for the pesticide/PCB analyses, there was no evidence of significant matrix interferences that would affect the usability of the data.

2.8.3 Representativeness

This criterion is a qualitative measure of the degree to which sample data accurately and precisely represent a characteristic environmental condition. Representativeness is a subjective parameter and is used to evaluate the efficacy of the sampling plan design. Representativeness was demonstrated by providing full descriptions in the project-scoping documents of the sampling techniques and the rationale used for selecting sampling locations.

2.8.4 Completeness

Completeness is defined as the percentage of measurements that are judged to be valid compared to the total number of measurements made. A goal of 90 percent usable data was established in the project-scoping document. All of rejected data were associated with re-runs and dilutions (you can only have a single valid result per sample per target); therefore, greater than 90 percent of the data was determined to be valid, and the completeness goal has been met.

2.8.5 Comparability

Comparability is another qualitative measure designed to express the confidence with which one data set may be compared to another. Factors that affect comparability are sample collection and handling techniques, sample matrix type, and analytical methods. Comparability is limited by the other PARCC parameters because data sets can be compared with confidence only when precision and accuracy are known.

3.0 Summary and Conclusions

Conclusions of the data quality evaluation process include the following:

- The laboratory analyzed the samples according to the EPA methods stated in the work plan as demonstrated by the deliverable summaries and analytical run sequences.
- Concentrations of blank contaminants were applied according to EPA *National Functional Guidelines* in order to reflect sample values that may be attributed to field or laboratory contamination.
- Sample results for metals above the MDL but less than five times the MDL may be attributed to instrument noise and/or low level contamination. Therefore, results at these low concentration levels may be described as potential false positives and may not be due to site-related activities.
- Sample results for target organic compounds above the MDL but less than the CRQL should be considered as uncertain but indicative of the presence of that compound at an estimated concentration.
- The low number of surrogate spike recoveries, MS/MSD, and field duplicate results, out of acceptance limits, indicate that the sample matrix did not significantly interfere with the overall analytical process.

The project objectives or PARCCs were met, and the data can be used in the project decision-making process as qualified by the data quality evaluation process.

Table 1 - Secondary Qualifiers

Code	Definition
TN	Tune
BS	Blank Spike/LCS
IS	Internal Standard
MS	Matrix Spike and/or Matrix Spike Duplicate Recovery
MD	Matrix Spike/Matrix Spike Duplicate Precision
2S	Second Source
SD	Serial Dilution
SS	Spiked Surrogate
LR	Analyte present above linear (or calibration) range
IC	Initial Calibration
CC	Continuing Calibration Verification
PD	Pesticide Degradation
LD	Lab Duplicate
2C	Second Column (Confirmation)
HT	Holding Time
PS	Post Spike
BL	Blank
RE	Re-extraction
DL	Dilution
IB	In Between
FD	Field Duplicate
OT	Other

Table 2 - Changed Qualifiers

Matrix	SDG	Sample ID	Lab Sample ID	Parameter Class	Analytical Method	Preparation Method	Leach Method	Parameter	Lab Result	Lab Qual	Final Result	Final Qual	Units	Comments
SB	J2000951	BDA014	J2000951-10	TOTMETAL	SW7421	SW3050	NONE	LEAD	2.4	=	2.4	U	mg/Kg	BL
SS	J2000951	BDA015	J2000951-08	TOTMETAL	SW6010B	SW3050	NONE	CADMIUM	0.8	=	0.8	J	mg/Kg	IB
SS	J2000951	BDA015	J2000951-08	TOTMETAL	SW6010B	SW3050	NONE	COBALT	2.5	=	2.5	J	mg/Kg	IB
SS	J2000951	BDA015	J2000951-08	TOTMETAL	SW6010B	SW3050	NONE	POTASSIUM	760	=	760	J	mg/Kg	IB
SS	J2000951	BDA015	J2000951-08	TOTMETAL	SW6010B	SW3050	NONE	IRON	12900	=	12900	J	mg/Kg	LD
SS	J2000951	BDA015	J2000951-08	TOTMETAL	SW6010B	SW3050	NONE	ANTIMONY	3.3	U	3.3	UJ	mg/Kg	MS
SS	J2000951	BDA015	J2000951-08	TOTMETAL	SW6010B	SW3050	NONE	LEAD	139	=	139	J	mg/Kg	MS
SS	J2000951	BDA015	J2000951-08	TOTMETAL	SW6010B	SW3050	NONE	MANGANESE	218	=	218	J	mg/Kg	MS
SS	J2000951	BDA015	J2000951-08	TOTMETAL	SW6010B	SW3050	NONE	BARIUM	45	=	45	J	mg/Kg	SD
SS	J2000951	BDA015	J2000951-08	TOTMETAL	SW6010B	SW3050	NONE	BERYLLIUM	0.34	=	0.34	J	mg/Kg	SD
SS	J2000951	BDA015	J2000951-08	TOTMETAL	SW6010B	SW3050	NONE	CALCIUM	15100	=	15100	J	mg/Kg	SD
SS	J2000951	BDA015	J2000951-08	TOTMETAL	SW6010B	SW3050	NONE	CHROMIUM, TOTAL	21.1	=	21.1	J	mg/Kg	SD
SS	J2000951	BDA015	J2000951-08	TOTMETAL	SW6010B	SW3050	NONE	COPPER	53	=	53	J	mg/Kg	SD
SS	J2000951	BDA015	J2000951-08	TOTMETAL	SW6010B	SW3050	NONE	MAGNESIUM	6490	=	6490	J	mg/Kg	SD
SS	J2000951	BDA015	J2000951-08	TOTMETAL	SW6010B	SW3050	NONE	NICKEL	4.6	=	4.6	J	mg/Kg	SD
SS	J2000951	BDA015	J2000951-08	TOTMETAL	SW6010B	SW3050	NONE	SODIUM	121	=	121	J	mg/Kg	SD
SS	J2000951	BDA015	J2000951-08	TOTMETAL	SW7020	SW3050	NONE	ALUMINUM	5810	=	5810	J	mg/Kg	LD
SS	J2000951	BDA015	J2000951-08	TOTMETAL	SW7060A	SW3050	NONE	ARSENIC	7.4	=	7.4	J	mg/Kg	MS
SS	J2000951	BDA015	J2000951-08	TOTMETAL	SW7740	SW3050	NONE	SELENIUM	0.09	U	0.09	R	mg/Kg	MS
SS	J2000951	BDA015	J2000951-08	TOTMETAL	SW7841	SW3050	NONE	THALLIUM	0.38	=	0.38	J	mg/Kg	MS
SS	J2000951	BDA015	J2000951-08	HG/CN	SW9010	METHOD	NONE	CYANIDE	0.14	=	0.14	J	mg/Kg	IB
SB	J2000951	BDA022	J2000951-16	TOTMETAL	SW6010B	SW3050	NONE	POTASSIUM	107	=	107	U	mg/Kg	BL
SB	J2000951	BDA022	J2000951-16	TOTMETAL	SW6010B	SW3050	NONE	VANADIUM	3.8	=	3.8	J	mg/Kg	IB
SB	J2000951	BDA022	J2000951-16	TOTMETAL	SW6010B	SW3050	NONE	ZINC	3.8	=	3.8	J	mg/Kg	IB
SB	J2000951	BDA022	J2000951-16	TOTMETAL	SW6010B	SW3050	NONE	IRON	1470	=	1470	J	mg/Kg	LD
SB	J2000951	BDA022	J2000951-16	TOTMETAL	SW6010B	SW3050	NONE	ANTIMONY	1.3	U	1.3	UJ	mg/Kg	MS
SB	J2000951	BDA022	J2000951-16	TOTMETAL	SW6010B	SW3050	NONE	MANGANESE	27.3	=	27.3	J	mg/Kg	MS
SB	J2000951	BDA022	J2000951-16	TOTMETAL	SW6010B	SW3050	NONE	BARIUM	10.8	=	10.8	J	mg/Kg	SD
SB	J2000951	BDA022	J2000951-16	TOTMETAL	SW6010B	SW3050	NONE	BERYLLIUM	0.06	=	0.06	J	mg/Kg	SD
SB	J2000951	BDA022	J2000951-16	TOTMETAL	SW6010B	SW3050	NONE	CALCIUM	269	=	269	J	mg/Kg	SD
SB	J2000951	BDA022	J2000951-16	TOTMETAL	SW6010B	SW3050	NONE	CHROMIUM, TOTAL	2.5	=	2.5	J	mg/Kg	SD
SB	J2000951	BDA022	J2000951-16	TOTMETAL	SW6010B	SW3050	NONE	COPPER	0.64	=	0.64	J	mg/Kg	SD
SB	J2000951	BDA022	J2000951-16	TOTMETAL	SW6010B	SW3050	NONE	MAGNESIUM	48.7	=	48.7	J	mg/Kg	SD
SB	J2000951	BDA022	J2000951-16	TOTMETAL	SW6010B	SW3050	NONE	NICKEL	0.79	U	0.79	UJ	mg/Kg	SD
SB	J2000951	BDA022	J2000951-16	TOTMETAL	SW6010B	SW3050	NONE	SODIUM	19.2	=	19.2	J	mg/Kg	SD
SB	J2000951	BDA022	J2000951-16	TOTMETAL	SW7020	SW3050	NONE	ALUMINUM	1650	=	1650	J	mg/Kg	LD
SB	J2000951	BDA022	J2000951-16	TOTMETAL	SW7060A	SW3050	NONE	ARSENIC	0.18	=	0.18	J	mg/Kg	MS
SB	J2000951	BDA022	J2000951-16	TOTMETAL	SW7421	SW3050	NONE	LEAD	1.9	=	1.9	J	mg/Kg	MS
SB	J2000951	BDA022	J2000951-16	TOTMETAL	SW7740	SW3050	NONE	SELENIUM	0.07	U	0.07	R	mg/Kg	MS
SB	J2000951	BDA022	J2000951-16	TOTMETAL	SW7841	SW3050	NONE	THALLIUM	0.05	U	0.05	UJ	mg/Kg	MS
SB	J2000951	BDA023	J2000951-17	TOTMETAL	SW7421	SW3050	NONE	LEAD	4.2	=	4.2	U	mg/Kg	BL
SS	J2001143	BDA054	E2000224-004	TEQDIOX	SW4425	SW3540M	NONE	TEQ OF 2,3,7,8-TCDD, LAB	0.032	=	0.032	J	ug/Kg	HT
SS	JAD01	BDA054	S002843*1	TOTMETAL	SW6010B	SW3050	NONE	COPPER	11	=	11	J	mg/kg	MD
SS	JAD01	BDA054	S002843*1	TOTMETAL	SW6010B	SW3050	NONE	LEAD	44	=	44	J	mg/kg	MD
SS	JAD01	BDA054	S002843*1	TOTMETAL	SW6010B	SW3050	NONE	ANTIMONY	0.56	U	0.56	UJ	mg/kg	MS
SS	JAD01	BDA054	S002843*1	TOTMETAL	SW6010B	SW3050	NONE	SODIUM	63	J	63	UJ	mg/kg	MS
SS	J2001143	BDA054	J2001143-001	HG/CN	SW7471A	METHOD	NONE	MERCURY	0.0041	=	0.0041	J	mg/Kg	IB
SS	J2001143	BDA054	J2001143-001	VOC	SW8260	SW5035	NONE	METHYLENE CHLORIDE	11	J	11	U	ug/Kg	BL
SS	J2001143	BDA054	J2001143-001	VOC	SW8260	SW5035	NONE	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	11	U	11	UJ	ug/Kg	IC
SS	J2001143	BDA054	J2001143-001	HG/CN	SW9010	METHOD	NONE	CYANIDE	0.12	=	0.12	J	mg/Kg	IB
SS	J2001143	BDA054RE	J2001143-001RE	PEST	SW8081A	SW3550	NONE	ALDRIN	9.4	U	9.4	R	ug/Kg	HT

3 10 0427

Table 2 - Changed Qualifiers

Matrix	SDG	Sample ID	Lab Sample ID	Parameter Class	Analytical Method	Preparation Method	Leach Method	Parameter	Lab Result	Lab Qual	Final Result	Final Qual	Units	Comments
SS	J2001143	BDA054RE	J2001143-001RE	PEST	SW8081A	SW3550	NONE	ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	9.4	U	9.4	R	ug/Kg	HT
SS	J2001143	BDA054RE	J2001143-001RE	PEST	SW8081A	SW3550	NONE	ALPHA ENDOSULFAN (ENDOSULFAN I)	9.4	U	9.4	R	ug/Kg	HT
SS	J2001143	BDA054RE	J2001143-001RE	PEST	SW8081A	SW3550	NONE	ALPHA-CHLORDANE	9.4	U	9.4	R	ug/Kg	HT
SS	J2001143	BDA054RE	J2001143-001RE	PEST	SW8081A	SW3550	NONE	BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	9.4	U	9.4	R	ug/Kg	HT
SS	J2001143	BDA054RE	J2001143-001RE	PEST	SW8081A	SW3550	NONE	BETA ENDOSULFAN (ENDOSULFAN II)	19	U	19	R	ug/Kg	HT
SS	J2001143	BDA054RE	J2001143-001RE	PEST	SW8081A	SW3550	NONE	DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	9.4	U	9.4	R	ug/Kg	HT
SS	J2001143	BDA054RE	J2001143-001RE	PEST	SW8081A	SW3550	NONE	DIELDRIN	19	U	19	R	ug/Kg	HT
SS	J2001143	BDA054RE	J2001143-001RE	PEST	SW8081A	SW3550	NONE	ENDOSULFAN SULFATE	19	U	19	R	ug/Kg	HT
SS	J2001143	BDA054RE	J2001143-001RE	PEST	SW8081A	SW3550	NONE	ENDRIN	19	U	19	R	ug/Kg	HT
SS	J2001143	BDA054RE	J2001143-001RE	PEST	SW8081A	SW3550	NONE	ENDRIN ALDEHYDE	19	U	19	R	ug/Kg	HT
SS	J2001143	BDA054RE	J2001143-001RE	PEST	SW8081A	SW3550	NONE	ENDRIN KETONE	19	U	19	R	ug/Kg	HT
SS	J2001143	BDA054RE	J2001143-001RE	PEST	SW8081A	SW3550	NONE	GAMMA BHC (LINDANE)	9.4	U	9.4	R	ug/Kg	HT
SS	J2001143	BDA054RE	J2001143-001RE	PEST	SW8081A	SW3550	NONE	GAMMA-CHLORDANE	9.4	U	9.4	R	ug/Kg	HT
SS	J2001143	BDA054RE	J2001143-001RE	PEST	SW8081A	SW3550	NONE	HEPTACHLOR	9.4	U	9.4	R	ug/Kg	HT
SS	J2001143	BDA054RE	J2001143-001RE	PEST	SW8081A	SW3550	NONE	HEPTACHLOR EPOXIDE	9.4	U	9.4	R	ug/Kg	HT
SS	J2001143	BDA054RE	J2001143-001RE	PEST	SW8081A	SW3550	NONE	METHOXYCHLOR	94	U	94	R	ug/Kg	HT
SS	J2001143	BDA054RE	J2001143-001RE	PEST	SW8081A	SW3550	NONE	p,p'-DDD	19	U	19	R	ug/Kg	HT
SS	J2001143	BDA054RE	J2001143-001RE	PEST	SW8081A	SW3550	NONE	p,p'-DDE	19	U	19	R	ug/Kg	HT
SS	J2001143	BDA054RE	J2001143-001RE	PEST	SW8081A	SW3550	NONE	p,p'-DDT	19	U	19	R	ug/Kg	HT
SS	J2001143	BDA054RE	J2001143-001RE	PEST	SW8081A	SW3550	NONE	TOXAPHENE	940	U	940	R	ug/Kg	HT
SS	J2001143	BDA054RE	J2001143-001RE	PCB	SW8082	SW3550	NONE	PCB-1016 (AROCHLOR 1016)	37	U	37	R	ug/Kg	OT
SS	J2001143	BDA054RE	J2001143-001RE	PCB	SW8082	SW3550	NONE	PCB-1221 (AROCHLOR 1221)	75	U	75	R	ug/Kg	OT
SS	J2001143	BDA054RE	J2001143-001RE	PCB	SW8082	SW3550	NONE	PCB-1232 (AROCHLOR 1232)	37	U	37	R	ug/Kg	OT
SS	J2001143	BDA054RE	J2001143-001RE	PCB	SW8082	SW3550	NONE	PCB-1248 (AROCHLOR 1248)	37	U	37	R	ug/Kg	OT
SS	J2001143	BDA054RE	J2001143-001RE	PCB	SW8082	SW3550	NONE	PCB-1254 (AROCHLOR 1254)	37	U	37	R	ug/Kg	OT
SS	J2001143	BDA054RE	J2001143-001RE	PCB	SW8082	SW3550	NONE	PCB-1260 (AROCHLOR 1260)	37	U	37	R	ug/Kg	OT
SB	J2001143	BDA055	E2000224-005	TEQDIOX	SW4425	SW3540M	NONE	TEQ OF 2,3,7,8-TCDD, LAB	2.772	=	2.772	J	ug/Kg	HT
SB	JAD01	BDA055	S002843*2	TOTMETAL	SW6010B	SW3050	NONE	COPPER	1300	=	1300	J	mg/kg	MD
SB	JAD01	BDA055	S002843*2	TOTMETAL	SW6010B	SW3050	NONE	LEAD	3800	=	3800	J	mg/kg	MD
SB	JAD01	BDA055	S002843*2	TOTMETAL	SW6010B	SW3050	NONE	NICKEL	90	=	90	J	mg/kg	MS
SB	JAD01	BDA055	S002843*2	TOTMETAL	SW6010B	SW3050	NONE	SODIUM	1600	=	1600	J	mg/kg	MS
SB	J2001143	BDA055	J2001143-002	PCB	SW8082	SW3550	NONE	PCB-1260 (AROCHLOR 1260)	100	=	100	R	ug/Kg	OT
SB	J2001143	BDA055	J2001143-002	VOC	SW8260	SW5035	NONE	METHYLENE CHLORIDE	23	=	23	U	ug/Kg	BL
SB	J2001143	BDA055	J2001143-002	VOC	SW8260	SW5035	NONE	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	13	U	13	UJ	ug/Kg	IC
SB	J2001143	BDA055	J2001143-002	VOC	SW8260	SW5035	NONE	1,2,4-TRICHLOROBENZENE	13	U	13	UJ	ug/Kg	IS
SB	J2001143	BDA055	J2001143-002	VOC	SW8260	SW5035	NONE	1,2-DIBROMO-3-CHLOROPROPANE	13	U	13	UJ	ug/Kg	IS
SB	J2001143	BDA055	J2001143-002	VOC	SW8260	SW5035	NONE	1,2-DICHLOROBENZENE	13	U	13	UJ	ug/Kg	IS
SB	J2001143	BDA055	J2001143-002	VOC	SW8260	SW5035	NONE	1,3-DICHLOROBENZENE	13	U	13	UJ	ug/Kg	IS
SB	J2001143	BDA055	J2001143-002	VOC	SW8260	SW5035	NONE	1,4-DICHLOROBENZENE	13	U	13	UJ	ug/Kg	IS
SB	J2001143	BDA055RE	J2001143-002RE	PEST	SW8081A	SW3550	NONE	ALDRIN	96	U	96	R	ug/Kg	HT
SB	J2001143	BDA055RE	J2001143-002RE	PEST	SW8081A	SW3550	NONE	ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	96	U	96	R	ug/Kg	HT
SB	J2001143	BDA055RE	J2001143-002RE	PEST	SW8081A	SW3550	NONE	ALPHA ENDOSULFAN (ENDOSULFAN I)	96	U	96	R	ug/Kg	HT
SB	J2001143	BDA055RE	J2001143-002RE	PEST	SW8081A	SW3550	NONE	ALPHA-CHLORDANE	96	U	96	R	ug/Kg	HT
SB	J2001143	BDA055RE	J2001143-002RE	PEST	SW8081A	SW3550	NONE	BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	96	U	96	R	ug/Kg	HT
SB	J2001143	BDA055RE	J2001143-002RE	PEST	SW8081A	SW3550	NONE	BETA ENDOSULFAN (ENDOSULFAN II)	190	U	190	R	ug/Kg	HT
SB	J2001143	BDA055RE	J2001143-002RE	PEST	SW8081A	SW3550	NONE	DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	96	U	96	R	ug/Kg	HT
SB	J2001143	BDA055RE	J2001143-002RE	PEST	SW8081A	SW3550	NONE	DIELDRIN	190	U	190	R	ug/Kg	HT
SB	J2001143	BDA055RE	J2001143-002RE	PEST	SW8081A	SW3550	NONE	ENDOSULFAN SULFATE	190	U	190	R	ug/Kg	HT
SB	J2001143	BDA055RE	J2001143-002RE	PEST	SW8081A	SW3550	NONE	ENDRIN	190	U	190	R	ug/Kg	HT
SB	J2001143	BDA055RE	J2001143-002RE	PEST	SW8081A	SW3550	NONE	ENDRIN ALDEHYDE	190	U	190	R	ug/Kg	HT
SB	J2001143	BDA055RE	J2001143-002RE	PEST	SW8081A	SW3550	NONE	ENDRIN KETONE	190	U	190	R	ug/Kg	HT

3 10 1428

Table 2 - Changed Qualifiers

Matrix	SDG	Sample ID	Lab Sample ID	Parameter Class	Analytical Method	Preparation Method	Leach Method	Parameter	Lab Result	Lab Qual	Final Result	Final Qual	Units	Comments
SB	J2001143	BDA055RE	J2001143-002RE	PEST	SW8081A	SW3550	NONE	GAMMA BHC (LINDANE)	96	U	96	R	ug/Kg	HT
SB	J2001143	BDA055RE	J2001143-002RE	PEST	SW8081A	SW3550	NONE	GAMMA-CHLORDANE	96	U	96	R	ug/Kg	HT
SB	J2001143	BDA055RE	J2001143-002RE	PEST	SW8081A	SW3550	NONE	HEPTACHLOR	96	U	96	R	ug/Kg	HT
SB	J2001143	BDA055RE	J2001143-002RE	PEST	SW8081A	SW3550	NONE	HEPTACHLOR EPOXIDE	96	U	96	R	ug/Kg	HT
SB	J2001143	BDA055RE	J2001143-002RE	PEST	SW8081A	SW3550	NONE	METHOXYCHLOR	960	U	960	R	ug/Kg	HT
SB	J2001143	BDA055RE	J2001143-002RE	PEST	SW8081A	SW3550	NONE	p,p'-DDD	190	U	190	R	ug/Kg	HT
SB	J2001143	BDA055RE	J2001143-002RE	PEST	SW8081A	SW3550	NONE	p,p'-DDE	37	J	37	R	ug/Kg	HT
SB	J2001143	BDA055RE	J2001143-002RE	PEST	SW8081A	SW3550	NONE	p,p'-DDT	190	U	190	R	ug/Kg	HT
SB	J2001143	BDA055RE	J2001143-002RE	PEST	SW8081A	SW3550	NONE	TOXAPHENE	9600	U	9600	R	ug/Kg	HT
SB	J2001143	BDA055RE	J2001143-002RE	PCB	SW8082	SW3550	NONE	PCB-1260 (AROCHLOR 1260)	96	=	96	J	ug/Kg	HT
SB	J2001143	BDA055RE	J2001143-002RE	PCB	SW8082	SW3550	NONE	PCB-1016 (AROCHLOR 1016)	38	U	38	R	ug/Kg	OT
SB	J2001143	BDA055RE	J2001143-002RE	PCB	SW8082	SW3550	NONE	PCB-1221 (AROCHLOR 1221)	77	U	77	R	ug/Kg	OT
SB	J2001143	BDA055RE	J2001143-002RE	PCB	SW8082	SW3550	NONE	PCB-1232 (AROCHLOR 1232)	38	U	38	R	ug/Kg	OT
SB	J2001143	BDA055RE	J2001143-002RE	PCB	SW8082	SW3550	NONE	PCB-1248 (AROCHLOR 1248)	38	U	38	R	ug/Kg	OT
SB	J2001143	BDA055RE	J2001143-002RE	PCB	SW8082	SW3550	NONE	PCB-1254 (AROCHLOR 1254)	38	U	38	R	ug/Kg	OT
SB	JAD01	BDA056	S002843*3	TOTMETAL	SW6010B	SW3050	NONE	SELENIUM	0.78	J	0.78	U	mg/kg	BL
SB	JAD01	BDA056	S002843*3	TOTMETAL	SW6010B	SW3050	NONE	ZINC	6.2	=	6.2	U	mg/kg	BL
SB	JAD01	BDA056	S002843*3	TOTMETAL	SW6010B	SW3050	NONE	COPPER	0.9	U	0.9	UJ	mg/kg	MD
SB	JAD01	BDA056	S002843*3	TOTMETAL	SW6010B	SW3050	NONE	LEAD	6.2	=	6.2	UJ	mg/kg	MD
SB	JAD01	BDA056	S002843*3	TOTMETAL	SW6010B	SW3050	NONE	ANTIMONY	0.62	U	0.62	UJ	mg/kg	MS
SB	JAD01	BDA056	S002843*3	TOTMETAL	SW6010B	SW3050	NONE	SODIUM	61	U	61	UJ	mg/kg	MS
SB	J2001143	BDA056	J2001143-003	HG/CN	SW7471A	METHOD	NONE	MERCURY	0.04	=	0.04	J	mg/Kg	IB
SB	J2001143	BDA056	J2001143-003	HG/CN	SW9010	METHOD	NONE	CYANIDE	0.92	=	0.92	J	mg/Kg	IB
SS	JAD01	BDA072	S002843*4	TOTMETAL	SW6010B	SW3050	NONE	COPPER	46	=	46	J	mg/kg	MD
SS	JAD01	BDA072	S002843*4	TOTMETAL	SW6010B	SW3050	NONE	LEAD	180	=	180	J	mg/kg	MD
SS	JAD01	BDA072	S002843*4	TOTMETAL	SW6010B	SW3050	NONE	SODIUM	140	J	140	UJ	mg/kg	MS
SS	J2001175	BDA072	J2001175-002	HG/CN	SW7471A	METHOD	NONE	MERCURY	0.09	=	0.09	J	mg/Kg	IB
SS	J2001175	BDA072	J2001175-002	HG/CN	SW9010	METHOD	NONE	CYANIDE	0.41	=	0.41	J	mg/Kg	IB
SB	JAD01	BDA073	S002843*5	TOTMETAL	SW6010B	SW3050	NONE	COPPER	160	=	160	J	mg/kg	MD
SB	JAD01	BDA073	S002843*5	TOTMETAL	SW6010B	SW3050	NONE	LEAD	360	=	360	J	mg/kg	MD
SB	JAD01	BDA073	S002843*5	TOTMETAL	SW6010B	SW3050	NONE	NICKEL	8.1	=	8.1	J	mg/kg	MS
SB	J2001175	BDA073	J2001175-003	HG/CN	SW9010	METHOD	NONE	CYANIDE	0.71	=	0.71	J	mg/Kg	IB
SS	J2001175	BDA082	E2000224-006	TEQDIOX	SW4425	SW3540M	NONE	TEQ OF 2,3,7,8-TCDD, LAB	0.406	=	0.406	J	ug/Kg	HT
SS	JAD01	BDA082	S002843*6	TOTMETAL	SW6010B	SW3050	NONE	SELENIUM	0.82	J	0.82	U	mg/kg	BL
SS	JAD01	BDA082	S002843*6	TOTMETAL	SW6010B	SW3050	NONE	COPPER	460	=	460	J	mg/kg	MD
SS	JAD01	BDA082	S002843*6	TOTMETAL	SW6010B	SW3050	NONE	LEAD	2600	=	2600	J	mg/kg	MD
SS	JAD01	BDA082	S002843*6	TOTMETAL	SW6010B	SW3050	NONE	ANTIMONY	22	=	22	J	mg/kg	MS
SS	JAD01	BDA082	S002843*6	TOTMETAL	SW6010B	SW3050	NONE	NICKEL	54	=	54	J	mg/kg	MS
SS	J2001175	BDA082	J2001175-004	PEST	SW8081A	SW3550	NONE	p,p'-DDE	460	U	460	R	ug/Kg	OT
SS	J2001175	BDA082	J2001175-004	PEST	SW8081A	SW3550	NONE	p,p'-DDT	460	U	460	R	ug/Kg	OT
SS	J2001175	BDA082	J2001175-004	PCB	SW8082	SW3550	NONE	PCB-1260 (AROCHLOR 1260)	100	=	100	R	ug/Kg	OT
SS	J2001175	BDA082	J2001175-004	VOC	SW8260	SW5035	NONE	METHYLENE CHLORIDE	11	J	11	U	ug/Kg	BL
SS	J2001175	BDA082	J2001175-004	VOC	SW8260	SW5035	NONE	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	17	U	17	UJ	ug/Kg	IC
SS	E2000110	BDA082	E2000110-001	DIOXINS	SW8290	METHOD	None	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	4945.2	=	4945.2	J	ng/Kg	LR
SS	E2000110	BDA082	E2000110-001	DIOXINS	SW8290	METHOD	None	HEPTACHLORINATED DIBENZO-P-DIOXINS, (TOTAL)	9828.7	=	9828.7	J	ng/Kg	LR
SS	E2000110	BDA082	E2000110-001	DIOXINS	SW8290	METHOD	None	OCTACHLORODIBENZO-p-DIOXIN	35429.4	=	35429.4	J	ng/Kg	LR
SS	J2001175	BDA082	J2001175-004	HG/CN	SW9010	METHOD	NONE	CYANIDE	1.1	=	1.1	J	mg/Kg	IB
SS	J2001175	BDA082RE	J2001175-004RE	PEST	SW8081A	SW3550	NONE	ALDRIN	230	U	230	R	ug/Kg	OT
SS	J2001175	BDA082RE	J2001175-004RE	PEST	SW8081A	SW3550	NONE	ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	230	U	230	R	ug/Kg	OT
SS	J2001175	BDA082RE	J2001175-004RE	PEST	SW8081A	SW3550	NONE	ALPHA ENDOSULFAN (ENDOSULFAN I)	230	U	230	R	ug/Kg	OT
SS	J2001175	BDA082RE	J2001175-004RE	PEST	SW8081A	SW3550	NONE	ALPHA-CHLORDANE	230	U	230	R	ug/Kg	OT

3 10 C429

Table 2 - Changed Qualifiers

Matrix	SDG	Sample ID	Lab Sample ID	Parameter Class	Analytical Method	Preparation Method	Leach Method	Parameter	Lab Result	Lab Qual	Final Result	Final Qual	Units	Comments
SS	J2001175	BDA082RE	J2001175-004RE	PEST	SW8081A	SW3550	NONE	BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	230	U	230	R	ug/Kg	OT
SS	J2001175	BDA082RE	J2001175-004RE	PEST	SW8081A	SW3550	NONE	BETA ENDOSULFAN (ENDOSULFAN II)	460	U	460	R	ug/Kg	OT
SS	J2001175	BDA082RE	J2001175-004RE	PEST	SW8081A	SW3550	NONE	DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	230	U	230	R	ug/Kg	OT
SS	J2001175	BDA082RE	J2001175-004RE	PEST	SW8081A	SW3550	NONE	DIELDRIN	460	U	460	R	ug/Kg	OT
SS	J2001175	BDA082RE	J2001175-004RE	PEST	SW8081A	SW3550	NONE	ENDOSULFAN SULFATE	460	U	460	R	ug/Kg	OT
SS	J2001175	BDA082RE	J2001175-004RE	PEST	SW8081A	SW3550	NONE	ENDRIN	460	U	460	R	ug/Kg	OT
SS	J2001175	BDA082RE	J2001175-004RE	PEST	SW8081A	SW3550	NONE	ENDRIN ALDEHYDE	460	U	460	R	ug/Kg	OT
SS	J2001175	BDA082RE	J2001175-004RE	PEST	SW8081A	SW3550	NONE	ENDRIN KETONE	460	U	460	R	ug/Kg	OT
SS	J2001175	BDA082RE	J2001175-004RE	PEST	SW8081A	SW3550	NONE	GAMMA BHC (LINDANE)	230	U	230	R	ug/Kg	OT
SS	J2001175	BDA082RE	J2001175-004RE	PEST	SW8081A	SW3550	NONE	GAMMA-CHLORDANE	230	U	230	R	ug/Kg	OT
SS	J2001175	BDA082RE	J2001175-004RE	PEST	SW8081A	SW3550	NONE	HEPTACHLOR	230	U	230	R	ug/Kg	OT
SS	J2001175	BDA082RE	J2001175-004RE	PEST	SW8081A	SW3550	NONE	HEPTACHLOR EPOXIDE	230	U	230	R	ug/Kg	OT
SS	J2001175	BDA082RE	J2001175-004RE	PEST	SW8081A	SW3550	NONE	METHOXYCHLOR	2300	U	2300	R	ug/Kg	OT
SS	J2001175	BDA082RE	J2001175-004RE	PEST	SW8081A	SW3550	NONE	p,p'-DDD	460	U	460	R	ug/Kg	OT
SS	J2001175	BDA082RE	J2001175-004RE	PEST	SW8081A	SW3550	NONE	TOXAPHENE	23000	U	23000	R	ug/Kg	OT
SS	J2001175	BDA082RE	J2001175-004RE	PCB	SW8082	SW3550	NONE	PCB-1016 (AROCHLOR 1016)	46	U	46	R	ug/Kg	OT
SS	J2001175	BDA082RE	J2001175-004RE	PCB	SW8082	SW3550	NONE	PCB-1221 (AROCHLOR 1221)	91	U	91	R	ug/Kg	OT
SS	J2001175	BDA082RE	J2001175-004RE	PCB	SW8082	SW3550	NONE	PCB-1232 (AROCHLOR 1232)	46	U	46	R	ug/Kg	OT
SS	J2001175	BDA082RE	J2001175-004RE	PCB	SW8082	SW3550	NONE	PCB-1248 (AROCHLOR 1248)	46	U	46	R	ug/Kg	OT
SS	J2001175	BDA082RE	J2001175-004RE	PCB	SW8082	SW3550	NONE	PCB-1254 (AROCHLOR 1254)	46	U	46	R	ug/Kg	OT
SB	J2001175	BDA083	E2000224-007	TEQDIOX	SW4425	SW3540M	NONE	TEQ OF 2,3,7,8-TCDD, LAB	0.352	=	0.352	J	ug/Kg	HT
SB	JAD01	BDA083	S002843*7	TOTMETAL	SW6010B	SW3050	NONE	SELENIUM	0.6	J	0.6	U	mg/kg	BL
SB	JAD01	BDA083	S002843*7	TOTMETAL	SW6010B	SW3050	NONE	COPPER	310	=	310	J	mg/kg	MD
SB	JAD01	BDA083	S002843*7	TOTMETAL	SW6010B	SW3050	NONE	LEAD	2500	=	2500	J	mg/kg	MD
SB	JAD01	BDA083	S002843*7	TOTMETAL	SW6010B	SW3050	NONE	NICKEL	66	=	66	J	mg/kg	MS
SB	J2001175	BDA083	J2001175-005	PEST	SW8081A	SW3550	NONE	p,p'-DDD	200	U	200	R	ug/Kg	OT
SB	J2001175	BDA083	J2001175-005	PEST	SW8081A	SW3550	NONE	p,p'-DDE	200	U	200	R	ug/Kg	OT
SB	J2001175	BDA083	J2001175-005	PEST	SW8081A	SW3550	NONE	p,p'-DDT	200	U	200	R	ug/Kg	OT
SB	J2001175	BDA083	J2001175-005	PCB	SW8082	SW3550	NONE	PCB-1260 (AROCHLOR 1260)	40	J	40	R	ug/Kg	OT
SB	J2001175	BDA083	J2001175-005	VOC	SW8260	SW5035	NONE	METHYLENE CHLORIDE	13	J	13	U	ug/Kg	BL
SB	J2001175	BDA083	J2001175-005	VOC	SW8260	SW5035	NONE	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	13	U	13	UJ	ug/Kg	IC
SB	E2000110	BDA083	E2000110-002	DIOXINS	SW8290	METHOD	None	HEPTACHLORINATED DIBENZO-P-DIOXINS, (TOTAL)	4124.9	=	4124.9	J	ng/Kg	LR
SB	E2000110	BDA083	E2000110-002	DIOXINS	SW8290	METHOD	None	OCTACHLORODIBENZO-p-DIOXIN	14874.6	=	14874.6	J	ng/Kg	LR
SB	J2001175	BDA083RE	J2001175-005RE	PEST	SW8081A	SW3550	NONE	ALDRIN	100	U	100	R	ug/Kg	OT
SB	J2001175	BDA083RE	J2001175-005RE	PEST	SW8081A	SW3550	NONE	ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	100	U	100	R	ug/Kg	OT
SB	J2001175	BDA083RE	J2001175-005RE	PEST	SW8081A	SW3550	NONE	ALPHA ENDOSULFAN (ENDOSULFAN I)	100	U	100	R	ug/Kg	OT
SB	J2001175	BDA083RE	J2001175-005RE	PEST	SW8081A	SW3550	NONE	ALPHA-CHLORDANE	100	U	100	R	ug/Kg	OT
SB	J2001175	BDA083RE	J2001175-005RE	PEST	SW8081A	SW3550	NONE	BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	100	U	100	R	ug/Kg	OT
SB	J2001175	BDA083RE	J2001175-005RE	PEST	SW8081A	SW3550	NONE	BETA ENDOSULFAN (ENDOSULFAN II)	200	U	200	R	ug/Kg	OT
SB	J2001175	BDA083RE	J2001175-005RE	PEST	SW8081A	SW3550	NONE	DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	100	U	100	R	ug/Kg	OT
SB	J2001175	BDA083RE	J2001175-005RE	PEST	SW8081A	SW3550	NONE	DIELDRIN	200	U	200	R	ug/Kg	OT
SB	J2001175	BDA083RE	J2001175-005RE	PEST	SW8081A	SW3550	NONE	ENDOSULFAN SULFATE	200	U	200	R	ug/Kg	OT
SB	J2001175	BDA083RE	J2001175-005RE	PEST	SW8081A	SW3550	NONE	ENDRIN	200	U	200	R	ug/Kg	OT
SB	J2001175	BDA083RE	J2001175-005RE	PEST	SW8081A	SW3550	NONE	ENDRIN ALDEHYDE	200	U	200	R	ug/Kg	OT
SB	J2001175	BDA083RE	J2001175-005RE	PEST	SW8081A	SW3550	NONE	ENDRIN KETONE	200	U	200	R	ug/Kg	OT

3 10 0430

Table 3 - Analysis Totals

Matrix	Analytical Method	Analytical Method Description	Preparation Method	Leach Method	AB	BS	D	DL	EB	FD	LB	MS	N	RE	SD	TB
SB	6200	Lead by XRF	NONE	NONE						37		1	776			
SS	6200	Lead by XRF	NONE	NONE						19			534			
SB	D2216	Percent Moisture	NONE	NONE									5			
SB	D422	Standard Test Method for Particle-Size Analysis of Soils	NONE	NONE									5			
WQ	D422	Standard Test Method for Particle-Size Analysis of Soils	NONE	NONE		1										
SB	D854	Standard Test Method for Specific Gravity of Soils	NONE	NONE									5			
WQ	D854	Standard Test Method for Specific Gravity of Soils	NONE	NONE		1										
WQ	E130	Hardness	NONE	NONE		2					2					
WS	E130	Hardness	NONE	NONE						1			13			
WQ	E160.2	Residue, Non-filterable	NONE	NONE	2	6	2				6					
WS	E160.2	Residue, Non-filterable	NONE	NONE						1			13			
WQ	E310.1	Alkalinity (Titrimetric)	NONE	NONE	2	6	2				6	2				
WS	E310.1	Alkalinity (Titrimetric)	NONE	NONE						1			13			
SQ	SW4425	P450 HRGS (Dioxin Screen)	SW3510	NONE							2					
WQ	SW4425	P450 HRGS (Dioxin Screen)	SW3510	NONE	2	9			8		8					
SB	SW4425	P450 HRGS (Dioxin Screen)	SW3540	NONE			1			3		1	17		1	
SE	SW4425	P450 HRGS (Dioxin Screen)	SW3540	NONE			1			1		1	2		1	
SQ	SW4425	P450 HRGS (Dioxin Screen)	SW3540	NONE		12					8					
SS	SW4425	P450 HRGS (Dioxin Screen)	SW3540	NONE			2			2		2	16		2	
WQ	SW4425	P450 HRGS (Dioxin Screen)	SW3540	NONE							2					
SB	SW4425	P450 HRGS (Dioxin Screen) / Toluene Extraction	SW3540M	NONE			1			3		1	18		1	
SE	SW4425	P450 HRGS (Dioxin Screen) / Toluene Extraction	SW3540M	NONE			1			1		1	3		1	
SQ	SW4425	P450 HRGS (Dioxin Screen) / Toluene Extraction	SW3540M	NONE		10					9					
SS	SW4425	P450 HRGS (Dioxin Screen) / Toluene Extraction	SW3540M	NONE			3			4		3	32		3	
WQ	SW4425	P450 HRGS (Dioxin Screen) / Toluene Extraction	SW3540M	NONE							1					
WG	SW6010B	Metals - ICP-AES	FLDFLT	NONE									1			
WQ	SW6010B	Metals - ICP-AES	FLDFLT	NONE		3			1		3					
WS	SW6010B	Metals - ICP-AES	FLDFLT	NONE						1		1	13		1	
WG	SW6010B	Metals - ICP-AES	SW3005A	NONE						2		1	16		1	
WQ	SW6010B	Metals - ICP-AES	SW3005A	NONE	2	12			22		12					
WS	SW6010B	Metals - ICP-AES	SW3005A	NONE						2		1	13		1	
WQ	SW6010B	Metals - ICP-AES	SW3010	NONE		2	1		1		2					
SB	SW6010B	Metals - ICP-AES	SW3050	NONE			2			7		3	49		3	
SB	SW6010B	Metals - ICP-AES	SW3050	SW1311						3			15			
SE	SW6010B	Metals - ICP-AES	SW3050	NONE						2		1	13		1	
SQ	SW6010B	Metals - ICP-AES	SW3050	NONE		16					15					

3 10 0431

Table 3 - Analysis Totals

SQ	SW6010B	Metals - ICP-AES	SW3050	SW1311		1							
SS	SW6010B	Metals - ICP-AES	SW3050	NONE		12			11	11	2	106	2
SS	SW6010B	Metals - ICP-AES	SW3050	SW1311		2				4		1	
WQ	SW7020	Aluminum by Graphite Furnace	SW3010	NONE		2	1	1		2			
SB	SW7020	Aluminum by Graphite Furnace	SW3050	NONE			1				1	1	1
SQ	SW7020	Aluminum by Graphite Furnace	SW3050	NONE		1				1			
SS	SW7020	Aluminum by Graphite Furnace	SW3050	NONE								1	
SQ	SW7060A	Arsenic by Graphite Furnace	SW3020	NONE		1							
WQ	SW7060A	Arsenic by Graphite Furnace	SW3020	NONE		1	1	1		2			
SB	SW7060A	Arsenic by Graphite Furnace	SW3050	NONE			1				1	1	1
SQ	SW7060A	Arsenic by Graphite Furnace	SW3050	NONE		1				1			
SS	SW7060A	Arsenic by Graphite Furnace	SW3050	NONE								1	
SQ	SW7421	Lead (AA, Furnace Technique)	SW3020	NONE		1							
WG	SW7421	Lead (AA, Furnace Technique)	SW3020	NONE			4				4	12	4
WQ	SW7421	Lead (AA, Furnace Technique)	SW3020	NONE		6	2	1		7			
SB	SW7421	Lead (AA, Furnace Technique)	SW3050	NONE			2				2	3	2
SQ	SW7421	Lead (AA, Furnace Technique)	SW3050	NONE		2				2			
WG	SW7470A	Mercury in Liquid Waste (Manual Cold-Vapor Technique)	FLDFLT	NONE								1	
WQ	SW7470A	Mercury in Liquid Waste (Manual Cold-Vapor Technique)	FLDFLT	NONE		2		1		2			
WS	SW7470A	Mercury in Liquid Waste (Manual Cold-Vapor Technique)	FLDFLT	NONE					1		1	13	1
SB	SW7470A	Mercury in Liquid Waste (Manual Cold-Vapor Technique)	METHOD	SW1311			4		2		4	13	4
SS	SW7470A	Mercury in Liquid Waste (Manual Cold-Vapor Technique)	METHOD	SW1311		1				3			
WG	SW7470A	Mercury in Liquid Waste (Manual Cold-Vapor Technique)	METHOD	NONE			4		2		5	19	5
WQ	SW7470A	Mercury in Liquid Waste (Manual Cold-Vapor Technique)	METHOD	NONE	2	15	1	23		15			
WQ	SW7470A	Mercury in Liquid Waste (Manual Cold-Vapor Technique)	METHOD	SW1311		1				1			
WS	SW7470A	Mercury in Liquid Waste (Manual Cold-Vapor Technique)	METHOD	NONE					2		1	13	1
SB	SW7470A	Mercury in Liquid Waste (Manual Cold-Vapor Technique)	SW3050	SW1311					1			5	
SQ	SW7470A	Mercury in Liquid Waste (Manual Cold-Vapor Technique)	SW3050	SW1311		1							
SS	SW7470A	Mercury in Liquid Waste (Manual Cold-Vapor Technique)	SW3050	SW1311						1		1	
SB	SW7471A	Mercury in Solid or Semisolid Waste (Manual Cold-Vapor Technique)	METHOD	NONE			5		7		5	40	5
SE	SW7471A	Mercury in Solid or Semisolid Waste (Manual Cold-Vapor Technique)	METHOD	NONE					2		1	13	1
SQ	SW7471A	Mercury in Solid or Semisolid Waste (Manual Cold-Vapor Technique)	METHOD	NONE		11	1			8			
SS	SW7471A	Mercury in Solid or Semisolid Waste (Manual Cold-Vapor Technique)	METHOD	NONE		13	2		11	13	4	102	4
WQ	SW7471A	Mercury in Solid or Semisolid Waste (Manual Cold-Vapor Technique)	METHOD	NONE		5				5			
SQ	SW7740	Selenium by Graphite Furnace	SW3020	NONE		1							
WQ	SW7740	Selenium by Graphite Furnace	SW3020	NONE		1	1	1		2			
SB	SW7740	Selenium by Graphite Furnace	SW3050	NONE			1				1	1	1
SQ	SW7740	Selenium by Graphite Furnace	SW3050	NONE		1				1			
SS	SW7740	Selenium by Graphite Furnace	SW3050	NONE								1	

3 10 0432

Table 3 - Analysis Totals

SQ	SW7841	Thallium by Graphite Furnace	SW3020	NONE		1									
WQ	SW7841	Thallium by Graphite Furnace	SW3020	NONE		1	1		1		2				
SB	SW7841	Thallium by Graphite Furnace	SW3050	NONE			1					1	1		1
SQ	SW7841	Thallium by Graphite Furnace	SW3050	NONE		1					1				
SS	SW7841	Thallium by Graphite Furnace	SW3050	NONE									1		
SQ	SW8081A	Organochlorine Pesticides by GC - Capillary Column Technique	SW3510	NONE		1					1				
WG	SW8081A	Organochlorine Pesticides by GC - Capillary Column Technique	SW3510	NONE						2		8	23	12	8
WQ	SW8081A	Organochlorine Pesticides by GC - Capillary Column Technique	SW3510	NONE	2	11			9		11			2	
WS	SW8081A	Organochlorine Pesticides by GC - Capillary Column Technique	SW3510	NONE									6	1	
WG	SW8081A	Organochlorine Pesticides by GC - Capillary Column Technique	SW3520	NONE						1			2		
WQ	SW8081A	Organochlorine Pesticides by GC - Capillary Column Technique	SW3520	NONE		7			5		7				
WS	SW8081A	Organochlorine Pesticides by GC - Capillary Column Technique	SW3520	NONE						2		1	7		1
SB	SW8081A	Organochlorine Pesticides by GC - Capillary Column Technique	SW3550	NONE						3		9	19	14	9
SE	SW8081A	Organochlorine Pesticides by GC - Capillary Column Technique	SW3550	NONE						2		1	13		1
SQ	SW8081A	Organochlorine Pesticides by GC - Capillary Column Technique	SW3550	NONE		8					9			4	
SS	SW8081A	Organochlorine Pesticides by GC - Capillary Column Technique	SW3550	NONE		10				4	10	8	38	8	8
WQ	SW8081A	Organochlorine Pesticides by GC - Capillary Column Technique	SW3550	NONE		2					2				
SB	SW8082	Polychlorinated Biphenyls (PCBs) by GC Cap. Column Technique	SW3510	NONE				1						1	
SQ	SW8082	Polychlorinated Biphenyls (PCBs) by GC Cap. Column Technique	SW3510	NONE		2		1			2			2	
SS	SW8082	Polychlorinated Biphenyls (PCBs) by GC Cap. Column Technique	SW3510	NONE								1		1	1
WG	SW8082	Polychlorinated Biphenyls (PCBs) by GC Cap. Column Technique	SW3510	NONE				7		2		20	23	21	20
WQ	SW8082	Polychlorinated Biphenyls (PCBs) by GC Cap. Column Technique	SW3510	NONE	2	7		1	7		8			2	
WG	SW8082	Polychlorinated Biphenyls (PCBs) by GC Cap. Column Technique	SW3520	NONE						1			2		
WQ	SW8082	Polychlorinated Biphenyls (PCBs) by GC Cap. Column Technique	SW3520	NONE		11			7		11				
WS	SW8082	Polychlorinated Biphenyls (PCBs) by GC Cap. Column Technique	SW3520	NONE						2		1	13	1	1
SB	SW8082	Polychlorinated Biphenyls (PCBs) by GC Cap. Column Technique	SW3550	NONE				4		3			18	9	
SE	SW8082	Polychlorinated Biphenyls (PCBs) by GC Cap. Column Technique	SW3550	NONE						2		1	13		1
SQ	SW8082	Polychlorinated Biphenyls (PCBs) by GC Cap. Column Technique	SW3550	NONE		9					9			4	
SS	SW8082	Polychlorinated Biphenyls (PCBs) by GC Cap. Column Technique	SW3550	NONE		10		7		4	10	25	44	23	26
WQ	SW8082	Polychlorinated Biphenyls (PCBs) by GC Cap. Column Technique	SW3550	NONE		1					2				
SQ	SW8260	Volatile Organic Compounds (VOCs) By GC/MS	SW5030	NONE		2					2				
WG	SW8260	Volatile Organic Compounds (VOCs) By GC/MS	SW5030	NONE						1		4	6		4
WQ	SW8260	Volatile Organic Compounds (VOCs) By GC/MS	SW5030	NONE	1	8			7		8				15
WS	SW8260	Volatile Organic Compounds (VOCs) By GC/MS	SW5030	NONE						1		1	3		1
SB	SW8260	Volatile Organic Compounds (VOCs) By GC/MS	SW5035	NONE						3			17	8	
SE	SW8260	Volatile Organic Compounds (VOCs) By GC/MS	SW5035	NONE						1		1	3		1
SQ	SW8260	Volatile Organic Compounds (VOCs) By GC/MS	SW5035	NONE		5					5				
SS	SW8260	Volatile Organic Compounds (VOCs) By GC/MS	SW5035	NONE		3				1	3	11	17	5	11
WQ	SW8260	Volatile Organic Compounds (VOCs) By GC/MS	SW5035	NONE	1	1					1				1

3 10 0433

Table 3 - Analysis Totals

SQ	SW8270C	Semivolatile Organic Compounds (SVOCs) By GC/MS	SW3510	NONE		1				1					
WG	SW8270C	Semivolatile Organic Compounds (SVOCs) By GC/MS	SW3510	NONE					5		8	19		8	
WQ	SW8270C	Semivolatile Organic Compounds (SVOCs) By GC/MS	SW3510	NONE	2	4		7		4					
WG	SW8270C	Semivolatile Organic Compounds (SVOCs) By GC/MS	SW3520	NONE								1			
WQ	SW8270C	Semivolatile Organic Compounds (SVOCs) By GC/MS	SW3520	NONE		9		7		9					
WS	SW8270C	Semivolatile Organic Compounds (SVOCs) By GC/MS	SW3520	NONE					2		1	13		1	
SB	SW8270C	Semivolatile Organic Compounds (SVOCs) By GC/MS	SW3550	NONE					3		6	23		6	
SE	SW8270C	Semivolatile Organic Compounds (SVOCs) By GC/MS	SW3550	NONE					2		1	13	1	1	
SQ	SW8270C	Semivolatile Organic Compounds (SVOCs) By GC/MS	SW3550	NONE		7				7					
SS	SW8270C	Semivolatile Organic Compounds (SVOCs) By GC/MS	SW3550	NONE		9			4	9	10	42	1	10	
WQ	SW8270C	Semivolatile Organic Compounds (SVOCs) By GC/MS	SW3550	NONE		1				1					
SB	SW8290	Dioxins & Furans by High-Resolution GC/High Resolution MS	METHOD	NONE			1		1			4			
SQ	SW8290	Dioxins & Furans by High-Resolution GC/High Resolution MS	METHOD	NONE		15				8					
SS	SW8290	Dioxins & Furans by High-Resolution GC/High Resolution MS	METHOD	NONE					2			11			
WG	SW8290	Dioxins & Furans by High-Resolution GC/High Resolution MS	METHOD	NONE					1		1	4		1	
WQ	SW8290	Dioxins & Furans by High-Resolution GC/High Resolution MS	METHOD	NONE	2	13		5		8					
SB	SW9010	Total And Amenable Cyanide (Colorimetric, Manual)	METHOD	NONE					2		3	18		3	
SQ	SW9010	Total And Amenable Cyanide (Colorimetric, Manual)	METHOD	NONE		1				1					
SS	SW9010	Total And Amenable Cyanide (Colorimetric, Manual)	METHOD	NONE					1		6	24		6	
WG	SW9010	Total And Amenable Cyanide (Colorimetric, Manual)	METHOD	NONE							3	3		3	
WQ	SW9010	Total And Amenable Cyanide (Colorimetric, Manual)	METHOD	NONE	1	9		6		9	1			1	
SB	SW9012	Total And Amendable Cyanide (Colorimetric, Automated UV)	METHOD	NONE					5			22			
SE	SW9012	Total And Amendable Cyanide (Colorimetric, Automated UV)	METHOD	NONE					2		1	13		1	
SQ	SW9012	Total And Amendable Cyanide (Colorimetric, Automated UV)	METHOD	NONE		9				6					
SS	SW9012	Total And Amendable Cyanide (Colorimetric, Automated UV)	METHOD	NONE		11			10	9	2	81		2	
WG	SW9012	Total And Amendable Cyanide (Colorimetric, Automated UV)	METHOD	NONE					2		1	15		1	
WQ	SW9012	Total And Amendable Cyanide (Colorimetric, Automated UV)	METHOD	NONE	1	12		17		12					
WS	SW9012	Total And Amendable Cyanide (Colorimetric, Automated UV)	METHOD	NONE					2		1	13		1	
SB	SW9045	Soil pH	NONE	NONE								5			
WQ	SW9045	Soil pH	NONE	NONE		1									
SB	SW9060	Total Organic Carbon	NONE	NONE			2				2	10			
SE	SW9060	Total Organic Carbon	NONE	NONE					1			13			
SQ	SW9060	Total Organic Carbon	NONE	NONE		4				4					
SS	SW9060	Total Organic Carbon	NONE	NONE		4				4					
WQ	SW9060	Total Organic Carbon	NONE	NONE	1	4	2	3		4	2				
WS	SW9060	Total Organic Carbon	NONE	NONE					1		1	13		1	
SB	SW9080	Cation-Exchange Capacity Of Soils (Ammonium Acetate)	NONE	NONE								5			
SQ	SW9080	Cation-Exchange Capacity Of Soils (Ammonium Acetate)	NONE	NONE						2					
WQ	SW9080	Cation-Exchange Capacity Of Soils (Ammonium Acetate)	NONE	NONE		1									

3 10 0434

SB	Visual	Visual Field Inspection	NONE	NONE			38	1	1004
SS	Visual	Visual Field Inspection	NONE	NONE			24		537
WQ	Visual	Visual Field Inspection	NONE	NONE	1	1			

MATRIX CODE

SB - Soil Boring
SS - Subsurface Soil
SE - Sediment
WS - Surface Water
WG - Groundwater

SQ - Soil QC samples
WQ - Water QC Samples

SAMPLE TYPE CODE

AB - Ambient Blank
BS - Blank Spike
D - Lab Duplicate
DL - Dilution
EB - Eqipment Blank
FD - Field Duplicate
LB - Laboratory Blank
MS - Matrix Spike
N - Native Sample
RE - Rextraction/Reanalysis
SD - Spike Duplicate
TB - Trip Blank

3 10 0435

Table 4 - Holding Time Exceed.

Matrix	Analysis Method	Preparation Method	Lab Sample ID	Sample ID	Sample Type	LR Type	Days Awaiting Preparation	Reason for Reextraction/Reanalysis
SS	SW4425	SW3540M	E2000224-004	BDA054	N		99	Dioxin Solvent Changed to Toluene
SB	SW4425	SW3540M	E2000224-005	BDA055	N		101	Dioxin Solvent Changed to Toluene
SS	SW4425	SW3540M	E2000224-006	BDA082	N		99	Dioxin Solvent Changed to Toluene
SS	SW4425	SW3540M	E2000224-006DUP	BDA082DUP	LR	D	99	Dioxin Solvent Changed to Toluene
SS	SW4425	SW3540M	E2000224-006MS	BDA082MS	MS		99	Dioxin Solvent Changed to Toluene
SS	SW4425	SW3540M	E2000224-006MSD	BDA082MSD	SD		99	Dioxin Solvent Changed to Toluene
SB	SW4425	SW3540M	E2000224-007	BDA083	N		99	Dioxin Solvent Changed to Toluene
SB	SW4425	SW3540M	E2000224-008	BDA084FD	FD		99	Dioxin Solvent Changed to Toluene
SB	SW4425	SW3540M	E2000224-009	BDA085	N		99	Dioxin Solvent Changed to Toluene
SB	SW4425	SW3540M	E2000224-010	BDA111	N		95	Dioxin Solvent Changed to Toluene
SB	SW4425	SW3540M	E2000224-011	BDA172	N		92	Dioxin Solvent Changed to Toluene
SB	SW4425	SW3540M	E2000224-012	BDA173	N		92	Dioxin Solvent Changed to Toluene
SS	SW4425	SW3540M	E2000224-013	BDA187	N		91	Dioxin Solvent Changed to Toluene
SB	SW4425	SW3540M	E2000224-014	BDA188	N		91	Dioxin Solvent Changed to Toluene
SS	SW4425	SW3540M	E2000224-015	BDA203	N		88	Dioxin Solvent Changed to Toluene
SB	SW4425	SW3540M	E2000224-016	BDA208	N		88	Dioxin Solvent Changed to Toluene
SS	SW4425	SW3540M	E2000224-017	BDA227	N		87	Dioxin Solvent Changed to Toluene
SB	SW4425	SW3540M	E2000224-018	BDA228	N		87	Dioxin Solvent Changed to Toluene
SS	SW4425	SW3540M	E2000224-019	BDA267	N		86	Dioxin Solvent Changed to Toluene
SB	SW4425	SW3540M	E2000225-001	BDA268	N		86	Dioxin Solvent Changed to Toluene
SB	SW4425	SW3540M	E2000225-002	BDA269	N		86	Dioxin Solvent Changed to Toluene
SS	SW4425	SW3540M	E2000225-004	BDA278	N		85	Dioxin Solvent Changed to Toluene
SB	SW4425	SW3540M	E2000225-005	BDA279	N		88	Dioxin Solvent Changed to Toluene
SB	SW4425	SW3540M	E2000225-005DUP	BDA279DUP	LR	D	88	Dioxin Solvent Changed to Toluene
SB	SW4425	SW3540M	E2000225-005MS	BDA279MS	MS		88	Dioxin Solvent Changed to Toluene
SB	SW4425	SW3540M	E2000225-005MSD	BDA279MSD	SD		88	Dioxin Solvent Changed to Toluene
SB	SW4425	SW3540M	E2000225-006	BDA280FD	FD		88	Dioxin Solvent Changed to Toluene
SB	SW4425	SW3540M	E2000225-007	BDA295	N		87	Dioxin Solvent Changed to Toluene
SS	SW4425	SW3540M	E2000225-008	BDA336	N		83	Dioxin Solvent Changed to Toluene
SB	SW4425	SW3540M	E2000225-009	BDA337	N		78	Dioxin Solvent Changed to Toluene
SB	SW4425	SW3540M	E2000225-010	BDA339	N		83	Dioxin Solvent Changed to Toluene
SS	SW4425	SW3540M	E2000225-011	BDA365	N		81	Dioxin Solvent Changed to Toluene
SS	SW4425	SW3540M	E2000225-012	BDA366FD	FD		81	Dioxin Solvent Changed to Toluene

Table 4 - Holding Time Exceed.

SB	SW4425	SW3540M	E2000225-013	BDA367	N		81	Dioxin Solvent Changed to Toluene
SS	SW4425	SW3540M	E2000225-014	BDA371	N		81	Dioxin Solvent Changed to Toluene
SB	SW4425	SW3540M	E2000225-015	BDA372	N		81	Dioxin Solvent Changed to Toluene
SB	SW4425	SW3540M	E2000225-016	BDA373FD	FD		81	Dioxin Solvent Changed to Toluene
SS	SW4425	SW3540M	E2000225-003	BDB273	N		90	Dioxin Solvent Changed to Toluene
SS	SW4425	SW3540M	E2000225-017	BDB417	N		85	Dioxin Solvent Changed to Toluene
SS	SW4425	SW3540M	E2000225-018	BDB418FD	FD		85	Dioxin Solvent Changed to Toluene
SS	SW4425	SW3540M	E2000225-019	BDB623	N		79	Dioxin Solvent Changed to Toluene
SS	SW4425	SW3540M	E2000225-20	BDB693	N		77	Dioxin Solvent Changed to Toluene
SS	SW4425	SW3540M	E2000226-001	BDB871	N		80	Dioxin Solvent Changed to Toluene
SS	SW8081A	SW3550	J2001143-001RE	BDA054RE	LR	RE	17	Possible Blank Contamination
SB	SW8081A	SW3550	J2001143-002RE	BDA055RE	LR	RE	17	Possible Blank Contamination
SB	SW8081A	SW3550	J2001216-005RE	BDA111RE	LR	RE	18	Possible Blank Contamination
SS	SW8081A	SW3550	J2001517-001RE	BDB871RE	LR	RE	29	Possible Blank Contamination
SS	SW8081A	SW3550	S004517*6*RE	BDB945RE	LR	RE	28	Low Surrogate Recoveries
SS	SW8081A	SW3550	S005110*1*RE	BDB983RE	LR	RE	20	Low Surrogate Recoveries
WG	SW8081A	SW3510	J2001657-001RE	BDC015FDRE	LR	RE	21	Possible Blank Contamination
WQ	SW8081A	SW3510	J2001517-004RE	BDC017EBRE	LR	RE	29	Possible Blank Contamination
WG	SW8081A	SW3510	J2001517-006RE	BDC019RE	LR	RE	29	Possible Blank Contamination
WG	SW8081A	SW3510	J2001547-001RE	BDC020RE	LR	RE	29	Possible Blank Contamination
WG	SW8081A	SW3510	J2001547-002RE	BDC021RE	LR	RE	28	Possible Blank Contamination
WG	SW8081A	SW3510	J2001579-001RE	BDC022RE	LR	RE	27	Possible Blank Contamination
WG	SW8081A	SW3510	J2001579-002RE	BDC024RE	LR	RE	27	Possible Blank Contamination
WG	SW8081A	SW3510	J2001579-003RE	BDC025RE	LR	RE	26	Possible Blank Contamination
WG	SW8081A	SW3510	J2001579-004RE	BDC026RE	LR	RE	26	Possible Blank Contamination
WQ	SW8081A	SW3510	J2001606-001RE	BDC027EBRE	LR	RE	22	Possible Blank Contamination
WG	SW8081A	SW3510	J2001621-001RE	BDC028RE	LR	RE	22	Possible Blank Contamination
WG	SW8081A	SW3510	J2001621-002RE	BDC029RE	LR	RE	22	Possible Blank Contamination
WG	SW8081A	SW3510	J2001657-002RE	BDC030RE	LR	RE	21	Possible Blank Contamination
WG	SW8081A	SW3510	J2001657-003RE	BDC031RE	LR	RE	21	Possible Blank Contamination
WS	SW8081A	SW3510	S004126A*2*RE	BDC064RE	LR	RE	33	Low Surrogate Recoveries
SS	SW8082	SW3550	J2001434-002RE	BDA336RE	LR	RE	32	Possible Blank Contamination
SB	SW8082	SW3550	J2001434-003RE	BDA337RE	LR	RE	32	Possible Blank Contamination
SB	SW8082	SW3550	J2001434-004RE	BDA339RE	LR	RE	32	Possible Blank Contamination
SS	SW8082	SW3550	J2001481-002RE	BDA365RE	LR	RE	30	Possible Blank Contamination
SS	SW8082	SW3550	J2001481-003RE	BDA366FDRE	LR	RE	30	Possible Blank Contamination

Table 4 - Holding Time Exceed.

SB	SW8082	SW3550	J2001481-004RE	BDA367RE	LR	RE	30	Possible Blank Contamination
SS	SW8082	SW3550	J2001481-005RE	BDA371RE	LR	RE	30	Possible Blank Contamination
SB	SW8082	SW3550	J2001481-006RE	BDA372RE	LR	RE	30	Possible Blank Contamination
SB	SW8082	SW3550	J2001481-007RE	BDA373FDRE	LR	RE	30	Possible Blank Contamination
SS	SW8082	SW3550	J2001423-001RE	BDB623RE	LR	RE	33	Possible Blank Contamination
SS	SW8082	SW3550	J2001454-002RE	BDB693RE	LR	RE	31	Possible Blank Contamination
SS	SW8082	SW3550	J2001517-001RE	BDB871RE	LR	RE	29	Possible Blank Contamination
SS	SW8082	SW3550	S004517*6*RE	BDB945RE	LR	RE	28	Low Surrogate Recoveries
SS	SW8082	SW3550	S005110*1*RE	BDB983RE	LR	RE	20	Low Surrogate Recoveries
WG	SW8082	SW3510	J2001657-001RE	BDC015FDRE	LR	RE	21	Possible Blank Contamination
WQ	SW8082	SW3510	J2001517-004RE	BDC017EBRE	LR	RE	29	Possible Blank Contamination
WG	SW8082	SW3510	J2001517-006RE	BDC019RE	LR	RE	29	Possible Blank Contamination
WG	SW8082	SW3510	J2001547-001RE	BDC020RE	LR	RE	29	Possible Blank Contamination
WG	SW8082	SW3510	J2001547-002RE	BDC021RE	LR	RE	28	Possible Blank Contamination
WG	SW8082	SW3510	J2001579-001RE	BDC022RE	LR	RE	27	Possible Blank Contamination
WG	SW8082	SW3510	J2001579-002RE	BDC024RE	LR	RE	27	Possible Blank Contamination
WG	SW8082	SW3510	J2001579-003RE	BDC025RE	LR	RE	26	Possible Blank Contamination
WG	SW8082	SW3510	J2001579-004RE	BDC026RE	LR	RE	26	Possible Blank Contamination
WQ	SW8082	SW3510	J2001606-001RE	BDC027EBRE	LR	RE	22	Possible Blank Contamination
WG	SW8082	SW3510	J2001621-001RE	BDC028RE	LR	RE	22	Possible Blank Contamination
WG	SW8082	SW3510	J2001621-002RE	BDC029RE	LR	RE	22	Possible Blank Contamination
WG	SW8082	SW3510	J2001657-002RE	BDC030RE	LR	RE	21	Possible Blank Contamination
WG	SW8082	SW3510	J2001657-003RE	BDC031RE	LR	RE	21	Possible Blank Contamination
SB	SW8260	SW5035	J2001384-004R	BDA279R	LR	RE	23	Low Internal Standard Area
SB	SW8260	SW5035	J2001384-005R	BDA280FDR	LR	RE	23	Low Internal Standard Area
SB	SW8260	SW5035	J2001384-007R	BDA295R	LR	RE	22	Low Internal Standard Area
SS	SW8260	SW5035	J2001434-002R	BDA336R	LR	RE	17	Low Internal Standard Area
SB	SW8260	SW5035	J2001434-003R	BDA337R	LR	RE	17	Low Internal Standard Area
SB	SW8260	SW5035	J2001434-004R	BDA339R	LR	RE	17	Low Internal Standard Area
SB	SW8260	SW5035	J2001481-004R	BDA367R	LR	RE	15	Low Internal Standard Area
SB	SW8260	SW5035	J2001481-006R	BDA372R	LR	RE	14	Low Internal Standard Area
SB	SW8260	SW5035	J2001481-007R	BDA373FDR	LR	RE	14	Low Internal Standard Area
SE	SW8270C	SW3550	S004088*8*RE	BDC063RE	LR	RE	23	Low Surrogate Recovery

Table 5 - Calibration Flags

Matrix	SDG	Sample ID	Lab Sample ID	Parameter Class	Analytical Method	Preparation Method	Leach Method	Parameter	Lab Result	Lab Qual	Final Result	Final Qual	Units	Comments
SB	J2001364	BDA269	J2001364-006	PEST	SW8081A	SW3550	NONE	METHOXYCHLOR	17	U	17	UJ	ug/Kg	CC
SB	J2001364	BDA269	J2001364-006	PEST	SW8081A	SW3550	NONE	p,p'-DDT	3.5	U	3.5	UJ	ug/Kg	CC
SB	J2001328	BDA228	J2001328-003	PEST	SW8081A	SW3550	NONE	TOXAPHENE	2700	U	2700	UJ	ug/Kg	CC
SB	J2001434	BDA337	J2001434-003	PEST	SW8081A	SW3550	NONE	TOXAPHENE	97000	U	97000	UJ	ug/Kg	CC
SB	J2001434	BDA339	J2001434-004	PEST	SW8081A	SW3550	NONE	TOXAPHENE	2100	U	2100	UJ	ug/Kg	CC
SB	J2001143	BDA055	J2001143-002	VOC	SW8260	SW5035	NONE	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	13	U	13	UJ	ug/Kg	IC
SB	J2001175	BDA083	J2001175-005	VOC	SW8260	SW5035	NONE	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	13	U	13	UJ	ug/Kg	IC
SB	J2001175	BDA084FD	J2001175-006	VOC	SW8260	SW5035	NONE	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	13	U	13	UJ	ug/Kg	IC
SB	J2001175	BDA085	J2001175-007	VOC	SW8260	SW5035	NONE	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	13	U	13	UJ	ug/Kg	IC
SB	J2001296	BDA188	J2001296-003	VOC	SW8260	SW5035	NONE	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	15	U	15	UJ	ug/Kg	IC
SB	J2001296	BDA188	J2001296-003	VOC	SW8260	SW5035	NONE	ACETONE	110	=	110	J	ug/Kg	IC
SE	JAD41	BDC058	S004088*7	PEST	SW8081A	SW3550	NONE	p,p'-DDT	4.2	U	4.2	UJ	ug/kg	CC
SE	JAD41	BDC063	S004088*8	PEST	SW8081A	SW3550	NONE	p,p'-DDT	5.6	U	5.6	UJ	ug/kg	CC
SE	JAD41	BDC067	S004088*9	PEST	SW8081A	SW3550	NONE	p,p'-DDT	4.1	U	4.1	UJ	ug/kg	CC
SE	JAD41	BDC069	S004088*10	PEST	SW8081A	SW3550	NONE	p,p'-DDT	4.9	U	4.9	UJ	ug/kg	CC
SE	JAD38	BDC040	S003979*18	VOC	SW8260	SW5035	NONE	1,2,4-TRICHLOROBENZENE	14	U	14	UJ	ug/kg	CC
SE	JAD38	BDC050FD	S003979*17	VOC	SW8260	SW5035	NONE	1,2,4-TRICHLOROBENZENE	12	U	12	UJ	ug/kg	CC
SE	JAD38	BDC040	S003979*18	VOC	SW8260	SW5035	NONE	BROMOMETHANE	14	U	14	UJ	ug/kg	CC
SE	JAD38	BDC050FD	S003979*17	VOC	SW8260	SW5035	NONE	BROMOMETHANE	12	U	12	UJ	ug/kg	CC
SE	JAD40	BDC052	S004035*15	VOC	SW8260	SW5035	NONE	BROMOMETHANE	11	U	11	UJ	ug/kg	CC
SE	JAD41	BDC071	S004126*5	VOC	SW8260	SW5035	NONE	BROMOMETHANE	13	U	13	UJ	ug/kg	CC
SE	JAD41	BDC071	S004126*5	VOC	SW8260	SW5035	NONE	CHLOROETHANE	13	U	13	UJ	ug/kg	CC
SE	JAD41	BDC071	S004126*5	VOC	SW8260	SW5035	NONE	CHLOROMETHANE	13	U	13	UJ	ug/kg	CC
SE	JAD41	BDC071	S004126*5	VOC	SW8260	SW5035	NONE	DICHLORODIFLUOROMETHANE	13	U	13	UJ	ug/kg	CC
SE	JAD35	BDC034	S003940*14	SVOC	SW8270C	SW3550	NONE	2,4-DINITROPHENOL	1200	U	1200	UJ	ug/kg	CC
SE	JAD35	BDC036	S003940*15	SVOC	SW8270C	SW3550	NONE	2,4-DINITROPHENOL	1200	U	1200	UJ	ug/kg	CC
SE	JAD35	BDC034	S003940*14	SVOC	SW8270C	SW3550	NONE	4,6-DINITRO-2-METHYLPHENOL	1200	U	1200	UJ	ug/kg	CC
SE	JAD35	BDC034	S003940*14	SVOC	SW8270C	SW3550	NONE	bis(2-CHLOROISOPROPYL) ETHER	500	U	500	UJ	ug/kg	CC
SE	JAD35	BDC036	S003940*15	SVOC	SW8270C	SW3550	NONE	bis(2-CHLOROISOPROPYL) ETHER	460	U	460	UJ	ug/kg	CC
SE	JAD35	BDC034	S003940*14	SVOC	SW8270C	SW3550	NONE	CRESOLS, M&P	500	U	500	UJ	ug/kg	CC
SE	JAD35	BDC036	S003940*15	SVOC	SW8270C	SW3550	NONE	CRESOLS, M&P	460	U	460	UJ	ug/kg	CC
SE	JAD41	BDC065	S004126*4	SVOC	SW8270C	SW3550	NONE	HEXACHLOROCYCLOPENTADIENE	420	U	420	UJ	ug/kg	CC
SE	JAD41	BDC069	S004088*10	SVOC	SW8270C	SW3550	NONE	HEXACHLOROCYCLOPENTADIENE	2500	U	2500	UJ	ug/kg	CC
SE	JAD41	BDC071	S004126*5	SVOC	SW8270C	SW3550	NONE	HEXACHLOROCYCLOPENTADIENE	470	U	470	UJ	ug/kg	CC
SE	JAD35	BDC034	S003940*14	SVOC	SW8270C	SW3550	NONE	N-NITROSODI-n-PROPYLAMINE	500	U	500	UJ	ug/kg	CC
SE	JAD35	BDC036	S003940*15	SVOC	SW8270C	SW3550	NONE	N-NITROSODI-n-PROPYLAMINE	460	U	460	UJ	ug/kg	CC
SS	J2001316	BDA203	J2001316-002	PEST	SW8081A	SW3550	NONE	METHOXYCHLOR	890	U	890	UJ	ug/Kg	CC
SS	JAD86	BDD211	S005454*1	PEST	SW8081A	SW3550	NONE	p,p'-DDD	3.4	U	3.4	UJ	ug/kg	CC
SS	JAD86	BDD221	S005454*2	PEST	SW8081A	SW3550	NONE	p,p'-DDD	3.5	U	3.5	UJ	ug/kg	CC
SS	JAD86	BDD231	S005454*3	PEST	SW8081A	SW3550	NONE	p,p'-DDD	3.4	U	3.4	UJ	ug/kg	CC
SS	JAD86	BDD241	S005454*4	PEST	SW8081A	SW3550	NONE	p,p'-DDD	3.6	U	3.6	UJ	ug/kg	CC
SS	JAD86	BDD262	S005454*5	PEST	SW8081A	SW3550	NONE	p,p'-DDD	7	U	7	UJ	ug/kg	CC
SS	J2001316	BDA203	J2001316-002	PEST	SW8081A	SW3550	NONE	p,p'-DDT	180	U	180	UJ	ug/Kg	CC
SS	J2001328	BDA227	J2001328-002	PEST	SW8081A	SW3550	NONE	TOXAPHENE	2300	U	2300	UJ	ug/Kg	CC
SS	J2001328	BDB417	J2001328-004	PEST	SW8081A	SW3550	NONE	TOXAPHENE	2400	U	2400	UJ	ug/Kg	CC
SS	J2001328	BDB418FD	J2001328-005	PEST	SW8081A	SW3550	NONE	TOXAPHENE	1800	U	1800	UJ	ug/Kg	CC
SS	J2001434	BDA336	J2001434-002	PEST	SW8081A	SW3550	NONE	TOXAPHENE	8700	U	8700	UJ	ug/Kg	CC
SS	J2001454	BDB693	J2001454-002	PEST	SW8081A	SW3550	NONE	TOXAPHENE	8800	U	8800	UJ	ug/Kg	CC
SS	J2001364	BDA267	J2001364-004	VOC	SW8260	SW5035	NONE	ACETONE	56	=	56	J	ug/Kg	CC
SS	J2001143	BDA054	J2001143-001	VOC	SW8260	SW5035	NONE	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	11	U	11	UJ	ug/Kg	IC
SS	J2001175	BDA082	J2001175-004	VOC	SW8260	SW5035	NONE	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	17	U	17	UJ	ug/Kg	IC

Table 5 - Calibration Flags

SS	J2001296	BDA187	J2001296-002	VOC	SW8260	SW5035	NONE	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	11	U	11	UJ	ug/Kg	IC
SS	J2001296	BDA187	J2001296-002	VOC	SW8260	SW5035	NONE	ACETONE	23	=	23	J	ug/Kg	IC
SS	JAD62	BDB945	S004517*6	SVOC	SW8270C	SW3550	NONE	4-NITROPHENOL	890	U	890	UJ	ug/kg	CC
SS	JAD77	BDB983	S005110*1	SVOC	SW8270C	SW3550	NONE	HEXACHLOROCYCLOPENTADIENE	380	U	380	UJ	ug/kg	CC
SS	E2000133	BDB273	E2000133-001	DIOXINS	SW8290	METHOD	NONE	1,2,3,7,8-PENTACHLORODIBENZOFURAN	11	=	11	J	ng/Kg	CC
WG	JAD31	BDC032	S003809A*3	PEST	SW8081A	SW3520	NONE	HEPTACHLOR	0.05	U	0.05	UJ	ug/l	CC
WG	JAD31	BDC032	S003809A*3	PEST	SW8081A	SW3520	NONE	METHOXYCHLOR	0.5	U	0.5	UJ	ug/l	CC
WG	JAD42	BDC073	S004180A*1	PEST	SW8081A	SW3510	NONE	p,p'-DDT	0.1	U	0.1	UJ	ug/l	CC
WG	J2001579	BDC022	J2001579-001	PEST	SW8081A	SW3510	NONE	TOXAPHENE	5	U	5	UJ	ug/L	CC
WG	J2001579	BDC024	J2001579-002	PEST	SW8081A	SW3510	NONE	TOXAPHENE	5	U	5	UJ	ug/L	CC
WG	J2001579	BDC025	J2001579-003	PEST	SW8081A	SW3510	NONE	TOXAPHENE	5	U	5	UJ	ug/L	CC
WG	J2001579	BDC026	J2001579-004	PEST	SW8081A	SW3510	NONE	TOXAPHENE	5	U	5	UJ	ug/L	CC
WG	J2001657	BDC015FD	J2001657-001	PEST	SW8081A	SW3510	NONE	TOXAPHENE	5	U	5	UJ	ug/L	CC
WG	J2001657	BDC030	J2001657-002	PEST	SW8081A	SW3510	NONE	TOXAPHENE	5	U	5	UJ	ug/L	CC
WG	J2001657	BDC031	J2001657-003	PEST	SW8081A	SW3510	NONE	TOXAPHENE	5	U	5	UJ	ug/L	CC
WG	J2001621	BDC028	J2001621-001	VOC	SW8260	SW5030	NONE	ACETONE	10	U	10	UJ	ug/L	IC
WG	J2001621	BDC029	J2001621-002	VOC	SW8260	SW5030	NONE	ACETONE	10	U	10	UJ	ug/L	IC
WG	J2001657	BDC015FD	J2001657-001	VOC	SW8260	SW5030	NONE	ACETONE	10	U	10	UJ	ug/L	IC
WG	J2001657	BDC031	J2001657-003	VOC	SW8260	SW5030	NONE	ACETONE	10	U	10	UJ	ug/L	IC
WG	E2000171	BDC015FD	E2000171-001	DIOXINS	SW8290	METHOD	NONE	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	25	U	25	UJ	pg/L	CC
WG	E2000171	BDC031	E2000171-002	DIOXINS	SW8290	METHOD	NONE	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	25	U	25	UJ	pg/L	CC
WG	E2000171	BDC031	E2000171-002	DIOXINS	SW8290	METHOD	NONE	1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	25	U	25	UJ	pg/L	CC
WG	E2000171	BDC015FD	E2000171-001	DIOXINS	SW8290	METHOD	NONE	1,2,3,7,8,9-HEXACHLORODIBENZOFURAN	25	U	25	UJ	pg/L	CC
WG	E2000171	BDC015FD	E2000171-001	DIOXINS	SW8290	METHOD	NONE	OCTACHLORODIBENZO-p-DIOXIN	50	U	50	UJ	pg/L	CC
WG	E2000171	BDC031	E2000171-002	DIOXINS	SW8290	METHOD	NONE	OCTACHLORODIBENZO-p-DIOXIN	50	U	50	UJ	pg/L	CC
WS	JAD42	BDC057	S004088A*1	PEST	SW8081A	SW3510	NONE	DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	0.05	U	0.05	UJ	ug/l	CC
WS	JAD42	BDC062	S004088A*2	PEST	SW8081A	SW3510	NONE	DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	0.05	U	0.05	UJ	ug/l	CC
WS	JAD42	BDC068	S004088A*4	PEST	SW8081A	SW3510	NONE	DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	0.05	U	0.05	UJ	ug/l	CC
WS	JAD42	BDC057	S004088A*1	PEST	SW8081A	SW3510	NONE	GAMMA-CHLORDANE	0.05	U	0.05	UJ	ug/l	CC
WS	JAD42	BDC062	S004088A*2	PEST	SW8081A	SW3510	NONE	GAMMA-CHLORDANE	0.05	U	0.05	UJ	ug/l	CC
WS	JAD42	BDC068	S004088A*4	PEST	SW8081A	SW3510	NONE	GAMMA-CHLORDANE	0.05	U	0.05	UJ	ug/l	CC
WS	JAD36	BDC035	S003940A*5	PEST	SW8081A	SW3520	NONE	HEPTACHLOR	0.05	U	0.05	UJ	ug/l	CC
WS	JAD36	BDC035	S003940A*5	PEST	SW8081A	SW3520	NONE	METHOXYCHLOR	0.5	U	0.5	UJ	ug/l	CC
WS	JAD42	BDC057	S004088A*1	PEST	SW8081A	SW3510	NONE	p,p'-DDD	0.1	U	0.1	UJ	ug/l	CC
WS	JAD42	BDC062	S004088A*2	PEST	SW8081A	SW3510	NONE	p,p'-DDD	0.1	U	0.1	UJ	ug/l	CC
WS	JAD42	BDC068	S004088A*4	PEST	SW8081A	SW3510	NONE	p,p'-DDD	0.1	U	0.1	UJ	ug/l	CC
WS	JAD42	BDC057	S004088A*1	PEST	SW8081A	SW3510	NONE	p,p'-DDE	0.1	U	0.1	UJ	ug/l	CC
WS	JAD42	BDC062	S004088A*2	PEST	SW8081A	SW3510	NONE	p,p'-DDE	0.1	U	0.1	UJ	ug/l	CC
WS	JAD42	BDC068	S004088A*4	PEST	SW8081A	SW3510	NONE	p,p'-DDE	0.1	U	0.1	UJ	ug/l	CC
WS	JAD42	BDC070	S004126A*3	PEST	SW8081A	SW3510	NONE	p,p'-DDT	0.1	U	0.1	UJ	ug/l	CC
WS	JAD36	BDC039	S003979A*3	VOC	SW8260	SW5030	NONE	1,1,2,2-TETRACHLOROETHANE	10	U	10	UJ	ug/l	CC
WS	JAD36	BDC049FD	S003979A*4	VOC	SW8260	SW5030	NONE	1,1,2,2-TETRACHLOROETHANE	10	U	10	UJ	ug/l	CC
WS	JAD36	BDC051	S004035A*4	VOC	SW8260	SW5030	NONE	1,1,2,2-TETRACHLOROETHANE	10	U	10	UJ	ug/l	CC
WS	JAD36	BDC039	S003979A*3	VOC	SW8260	SW5030	NONE	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	10	U	10	UJ	ug/l	CC
WS	JAD36	BDC049FD	S003979A*4	VOC	SW8260	SW5030	NONE	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	10	U	10	UJ	ug/l	CC
WS	JAD36	BDC051	S004035A*4	VOC	SW8260	SW5030	NONE	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	10	U	10	UJ	ug/l	CC
WS	JAD36	BDC039	S003979A*3	VOC	SW8260	SW5030	NONE	ACETONE	10	U	10	UJ	ug/l	CC
WS	JAD36	BDC049FD	S003979A*4	VOC	SW8260	SW5030	NONE	ACETONE	10	U	10	UJ	ug/l	CC
WS	JAD36	BDC051	S004035A*4	VOC	SW8260	SW5030	NONE	ACETONE	10	U	10	UJ	ug/l	CC
WS	JAD42	BDC070	S004126A*3	VOC	SW8260	SW5030	NONE	BROMOFORM	10	U	10	UJ	ug/l	CC
WS	JAD36	BDC039	S003979A*3	VOC	SW8260	SW5030	NONE	BROMOMETHANE	10	U	10	UJ	ug/l	CC
WS	JAD36	BDC049FD	S003979A*4	VOC	SW8260	SW5030	NONE	BROMOMETHANE	10	U	10	UJ	ug/l	CC
WS	JAD36	BDC051	S004035A*4	VOC	SW8260	SW5030	NONE	BROMOMETHANE	10	U	10	UJ	ug/l	CC
WS	JAD36	BDC039	S003979A*3	VOC	SW8260	SW5030	NONE	TRICHLOROETHYLENE (TCE)	10	U	10	UJ	ug/l	CC

Table 5 - Calibration Flags

WS	JAD36	BDC049FD	S003979A*4	VOC	SW8260	SW5030	NONE	TRICHLOROETHYLENE (TCE)	10	U	10	UJ	ug/l	CC
WS	JAD36	BDC051	S004035A*4	VOC	SW8260	SW5030	NONE	TRICHLOROETHYLENE (TCE)	10	U	10	UJ	ug/l	CC
WS	JAD36	BDC039	S003979A*3	SVOC	SW8270C	SW3520	NONE	2,4-DINITROPHENOL	25	U	25	UJ	ug/l	CC
WS	JAD36	BDC043	S003979A*5	SVOC	SW8270C	SW3520	NONE	2,4-DINITROPHENOL	25	U	25	UJ	ug/l	CC
WS	JAD36	BDC045	S003979A*6	SVOC	SW8270C	SW3520	NONE	2,4-DINITROPHENOL	25	U	25	UJ	ug/l	CC
WS	JAD36	BDC049FD	S003979A*4	SVOC	SW8270C	SW3520	NONE	2,4-DINITROPHENOL	25	U	25	UJ	ug/l	CC
WS	JAD36	BDC051	S004035A*4	SVOC	SW8270C	SW3520	NONE	2,4-DINITROPHENOL	25	U	25	UJ	ug/l	CC
WS	JAD36	BDC053FD	S004035A*3	SVOC	SW8270C	SW3520	NONE	2,4-DINITROPHENOL	25	U	25	UJ	ug/l	CC
WS	JAD36	BDC055	S004035A*5	SVOC	SW8270C	SW3520	NONE	2,4-DINITROPHENOL	25	U	25	UJ	ug/l	CC
WS	JAD36	BDC039	S003979A*3	SVOC	SW8270C	SW3520	NONE	2,4-DINITROTOLUENE	10	U	10	UJ	ug/l	CC
WS	JAD36	BDC043	S003979A*5	SVOC	SW8270C	SW3520	NONE	2,4-DINITROTOLUENE	10	U	10	UJ	ug/l	CC
WS	JAD36	BDC045	S003979A*6	SVOC	SW8270C	SW3520	NONE	2,4-DINITROTOLUENE	10	U	10	UJ	ug/l	CC
WS	JAD36	BDC049FD	S003979A*4	SVOC	SW8270C	SW3520	NONE	2,4-DINITROTOLUENE	10	U	10	UJ	ug/l	CC
WS	JAD36	BDC051	S004035A*4	SVOC	SW8270C	SW3520	NONE	2,4-DINITROTOLUENE	10	U	10	UJ	ug/l	CC
WS	JAD36	BDC053FD	S004035A*3	SVOC	SW8270C	SW3520	NONE	2,4-DINITROTOLUENE	10	U	10	UJ	ug/l	CC
WS	JAD36	BDC055	S004035A*5	SVOC	SW8270C	SW3520	NONE	2,4-DINITROTOLUENE	10	U	10	UJ	ug/l	CC
WS	JAD36	BDC039	S003979A*3	SVOC	SW8270C	SW3520	NONE	4-NITROANILINE	25	U	25	UJ	ug/l	CC
WS	JAD36	BDC043	S003979A*5	SVOC	SW8270C	SW3520	NONE	4-NITROANILINE	25	U	25	UJ	ug/l	CC
WS	JAD36	BDC045	S003979A*6	SVOC	SW8270C	SW3520	NONE	4-NITROANILINE	25	U	25	UJ	ug/l	CC
WS	JAD36	BDC049FD	S003979A*4	SVOC	SW8270C	SW3520	NONE	4-NITROANILINE	25	U	25	UJ	ug/l	CC
WS	JAD36	BDC051	S004035A*4	SVOC	SW8270C	SW3520	NONE	4-NITROANILINE	25	U	25	UJ	ug/l	CC
WS	JAD36	BDC053FD	S004035A*3	SVOC	SW8270C	SW3520	NONE	4-NITROANILINE	25	U	25	UJ	ug/l	CC
WS	JAD36	BDC055	S004035A*5	SVOC	SW8270C	SW3520	NONE	4-NITROANILINE	25	U	25	UJ	ug/l	CC
WS	JAD36	BDC039	S003979A*3	SVOC	SW8270C	SW3520	NONE	4-NITROPHENOL	25	U	25	UJ	ug/l	CC
WS	JAD36	BDC043	S003979A*5	SVOC	SW8270C	SW3520	NONE	4-NITROPHENOL	25	U	25	UJ	ug/l	CC
WS	JAD36	BDC045	S003979A*6	SVOC	SW8270C	SW3520	NONE	4-NITROPHENOL	25	U	25	UJ	ug/l	CC
WS	JAD36	BDC049FD	S003979A*4	SVOC	SW8270C	SW3520	NONE	4-NITROPHENOL	25	U	25	UJ	ug/l	CC
WS	JAD36	BDC051	S004035A*4	SVOC	SW8270C	SW3520	NONE	4-NITROPHENOL	25	U	25	UJ	ug/l	CC
WS	JAD36	BDC053FD	S004035A*3	SVOC	SW8270C	SW3520	NONE	4-NITROPHENOL	25	U	25	UJ	ug/l	CC
WS	JAD36	BDC055	S004035A*5	SVOC	SW8270C	SW3520	NONE	4-NITROPHENOL	25	U	25	UJ	ug/l	CC
WS	JAD36	BDC033	S003940A*4	SVOC	SW8270C	SW3520	NONE	BENZO(b)FLUORANTHENE	10	U	10	UJ	ug/l	CC
WS	JAD36	BDC035	S003940A*5	SVOC	SW8270C	SW3520	NONE	BENZO(b)FLUORANTHENE	10	U	10	UJ	ug/l	CC
WS	JAD36	BDC039	S003979A*3	SVOC	SW8270C	SW3520	NONE	BENZO(g,h,i)PERYLENE	10	U	10	UJ	ug/l	CC
WS	JAD36	BDC043	S003979A*5	SVOC	SW8270C	SW3520	NONE	BENZO(g,h,i)PERYLENE	10	U	10	UJ	ug/l	CC
WS	JAD36	BDC045	S003979A*6	SVOC	SW8270C	SW3520	NONE	BENZO(g,h,i)PERYLENE	10	U	10	UJ	ug/l	CC
WS	JAD36	BDC049FD	S003979A*4	SVOC	SW8270C	SW3520	NONE	BENZO(g,h,i)PERYLENE	10	U	10	UJ	ug/l	CC
WS	JAD36	BDC051	S004035A*4	SVOC	SW8270C	SW3520	NONE	BENZO(g,h,i)PERYLENE	10	U	10	UJ	ug/l	CC
WS	JAD36	BDC053FD	S004035A*3	SVOC	SW8270C	SW3520	NONE	BENZO(g,h,i)PERYLENE	10	U	10	UJ	ug/l	CC
WS	JAD36	BDC055	S004035A*5	SVOC	SW8270C	SW3520	NONE	BENZO(g,h,i)PERYLENE	10	U	10	UJ	ug/l	CC
WS	JAD36	BDC033	S003940A*4	SVOC	SW8270C	SW3520	NONE	bis(2-CHLOROISOPROPYL) ETHER	10	U	10	UJ	ug/l	CC
WS	JAD36	BDC035	S003940A*5	SVOC	SW8270C	SW3520	NONE	bis(2-CHLOROISOPROPYL) ETHER	10	U	10	UJ	ug/l	CC
WS	JAD42	BDC057	S004088A*1	SVOC	SW8270C	SW3520	NONE	HEXACHLOROCYCLOPENTADIENE	10	U	10	UJ	ug/l	CC
WS	JAD42	BDC062	S004088A*2	SVOC	SW8270C	SW3520	NONE	HEXACHLOROCYCLOPENTADIENE	10	U	10	UJ	ug/l	CC
WS	JAD42	BDC064	S004126A*2	SVOC	SW8270C	SW3520	NONE	HEXACHLOROCYCLOPENTADIENE	10	U	10	UJ	ug/l	CC
WS	JAD42	BDC066	S004088A*3	SVOC	SW8270C	SW3520	NONE	HEXACHLOROCYCLOPENTADIENE	10	U	10	UJ	ug/l	CC
WS	JAD42	BDC068	S004088A*4	SVOC	SW8270C	SW3520	NONE	HEXACHLOROCYCLOPENTADIENE	10	U	10	UJ	ug/l	CC
WS	JAD42	BDC070	S004126A*3	SVOC	SW8270C	SW3520	NONE	HEXACHLOROCYCLOPENTADIENE	10	U	10	UJ	ug/l	CC
WS	JAD36	BDC039	S003979A*3	SVOC	SW8270C	SW3520	NONE	INDENO(1,2,3-c,d)PYRENE	10	U	10	UJ	ug/l	CC
WS	JAD36	BDC043	S003979A*5	SVOC	SW8270C	SW3520	NONE	INDENO(1,2,3-c,d)PYRENE	10	U	10	UJ	ug/l	CC
WS	JAD36	BDC045	S003979A*6	SVOC	SW8270C	SW3520	NONE	INDENO(1,2,3-c,d)PYRENE	10	U	10	UJ	ug/l	CC
WS	JAD36	BDC049FD	S003979A*4	SVOC	SW8270C	SW3520	NONE	INDENO(1,2,3-c,d)PYRENE	10	U	10	UJ	ug/l	CC
WS	JAD36	BDC051	S004035A*4	SVOC	SW8270C	SW3520	NONE	INDENO(1,2,3-c,d)PYRENE	10	U	10	UJ	ug/l	CC
WS	JAD36	BDC053FD	S004035A*3	SVOC	SW8270C	SW3520	NONE	INDENO(1,2,3-c,d)PYRENE	10	U	10	UJ	ug/l	CC
WS	JAD36	BDC055	S004035A*5	SVOC	SW8270C	SW3520	NONE	INDENO(1,2,3-c,d)PYRENE	10	U	10	UJ	ug/l	CC

Table 6A - Blank Detections

Matrix	Parameter Class	SDG	Lab Sample ID	Analytical Method	Preparation Method	Leach Method	Sample ID	Sample Type	Parameter	Lab Result	Lab Qual	Units
SQ	TEQDIOX	J2001622	EB70040-MB	SW4425	SW3540M	NONE	EB70040-MB	LB	TEQ OF 2,3,7,8-TCDD, LAB	0.019	J	UG/KG
SQ	TEQDIOX	J2001607	J2001607-523MB	SW4425	SW3540	NONE	J2001607-523M	LB	TEQ OF 2,3,7,8-TCDD, LAB	0.01	J	ug/Kg
SQ	TEQDIOX	J2001454	J200508MB	SW4425	SW3510	NONE	J200508MB	LB	TEQ OF 2,3,7,8-TCDD, LAB	0.861	=	ng/L
SQ	TEQDIOX	J2001580	J200519MB	SW4425	SW3510	NONE	J200519MB	LB	TEQ OF 2,3,7,8-TCDD, LAB	0.722	=	ng/L
WQ	TEQDIOX	J2002629	J2000912-MB	SW4425	SW3510	NONE	J2000912-MB	LB	TEQ OF 2,3,7,8-TCDD, LAB	0.198	J	ng/L
WQ	TEQDIOX	J2001188	J2001188-001	SW4425	SW3510	NONE	BDA089EB	EB	TEQ OF 2,3,7,8-TCDD, LAB	0.457	=	ng/L
WQ	TEQDIOX	J2001454	J2001454-001	SW4425	SW3510	NONE	BDA364EB	EB	TEQ OF 2,3,7,8-TCDD, LAB	0.5	J	ng/L
WQ	TEQDIOX	J2001481	J2001481-010	SW4425	SW3510	NONE	BDB797AB	AB	TEQ OF 2,3,7,8-TCDD, LAB	0.5	J	ng/L
WQ	TEQDIOX	J2001607	J2001607-519MB	SW4425	SW3510	NONE	J2001607-519M	LB	TEQ OF 2,3,7,8-TCDD, LAB	0.722	=	ng/L
WQ	TEQDIOX	J2001622	J2001622-614MB	SW4425	SW3510	NONE	J2001622-614M	LB	TEQ OF 2,3,7,8-TCDD, LAB	0.5	J	ng/L
WQ	TEQDIOX	J2001990	J2001990-001	SW4425	SW3510	NONE	BDC048EB	EB	TEQ OF 2,3,7,8-TCDD, LAB	0.313	J	ng/L
WQ	TEQDIOX	J2002276	J2002276-002	SW4425	SW3510	NONE	BDB970EB	EB	TEQ OF 2,3,7,8-TCDD, LAB	0.22	J	ng/L
WQ	TEQDIOX	J2002629	J2002629-004	SW4425	SW3510	NONE	BDD145EB	EB	TEQ OF 2,3,7,8-TCDD, LAB	0.171	J	ng/L
WQ	TEQDIOX	J2002645	J2002645-009	SW4425	SW3510	NONE	BDD201EB	EB	TEQ OF 2,3,7,8-TCDD, LAB	0.21	J	ng/L
WQ	TEQDIOX	J2001580	J200523MB	SW4425	SW3540	NONE	J200523MB	LB	TEQ OF 2,3,7,8-TCDD, LAB	0.01	J	ug/Kg
WQ	TEQDIOX	J2001990	J200628MB	SW4425	SW3510	NONE	J200628MB	LB	TEQ OF 2,3,7,8-TCDD, LAB	0.235	J	ng/L
SQ	TOTMETAL	JAD07	S002843F*25	SW6010B	SW3050	NONE	02843F25LB	LB	ALUMINUM	12	J	mg/kg
SQ	TOTMETAL	JAD08	S002843G*15	SW6010B	SW3050	NONE	02843G15LB	LB	ALUMINUM	12	J	mg/kg
SS	TOTMETAL	JAD12	S0JAD12*3	SW6010B	SW3050	NONE	JAD123LB	LB	ALUMINUM	9.2	J	mg/kg
SS	TOTMETAL	JAD12	S0JAD12*5	SW6010B	SW3050	NONE	JAD125LB	LB	ALUMINUM	7.9	J	mg/kg
WQ	TOTMETAL	JAD11	S002941A*1	SW6010B	SW3005A	NONE	BDA364EB	EB	ALUMINUM	0.054	J	mg/l
WQ	TOTMETAL	JAD11	S002962B*1	SW6010B	SW3005A	NONE	BDB797AB	AB	ALUMINUM	0.045	J	mg/l
WQ	TOTMETAL	JAD11	S002962B*2	SW6010B	SW3005A	NONE	BDB824EB	EB	ALUMINUM	0.045	J	mg/l
WQ	TOTMETAL	JAD11	S003016A*3	SW6010B	SW3005A	NONE	BDC017EB	EB	ALUMINUM	0.033	J	mg/l
WQ	TOTMETAL	JAD16	S003181A*3	SW6010B	SW3005A	NONE	BDC027EB	EB	ALUMINUM	0.031	J	mg/l
WQ	TOTMETAL	JAD11	S0JAD11*3	SW6010B	SW3005A	NONE	JAD113LB	LB	ALUMINUM	0.032	J	mg/l
WQ	TOTMETAL	JAD11	S0JAD11*7	SW6010B	SW3005A	NONE	JAD117LB	LB	ALUMINUM	0	=	mg/l
WQ	TOTMETAL	JAD16	S0JAD16*1	SW6010B	SW3005A	NONE	JAD161LB	LB	ALUMINUM	0.029	J	mg/l
WQ	TOTMETAL	JAD31	S0JAD31*12	SW6010B	SW3005A	NONE	JAD3112LB	LB	ALUMINUM	-0.027	J	mg/l
WQ	DISSMETAL	JAD04	S002843C*2	SW6010B	FLDFLT	NONE	02843C2LB	LB	Aluminum, Dissolved	0.04	J	mg/l
SS	TOTMETAL	JAD12	S0JAD12*5	SW6010B	SW3050	NONE	JAD125LB	LB	ANTIMONY	-0.83	J	mg/kg
WQ	TOTMETAL	J2000951	J2000927-03	SW6010B	SW3010	NONE	J2000927-03	LB	ANTIMONY	33.6	=	ug/L
WQ	TOTMETAL	JAD11	S0JAD11*3	SW6010B	SW3005A	NONE	JAD113LB	LB	ANTIMONY	-0.006	J	mg/l
WQ	TOTMETAL	JAD03	S002843B*13	SW6010B	SW3005A	NONE	02843B13LB	LB	ARSENIC	-0.004	J	mg/l
WQ	TOTMETAL	JAD16	S003181A*3	SW6010B	SW3005A	NONE	BDC027EB	EB	ARSENIC	0.0048	J	mg/l
WQ	TOTMETAL	JAD11	S0JAD11*1	SW6010B	SW3005A	NONE	JAD111LB	LB	ARSENIC	-0.004	J	mg/l
SQ	TOTMETAL	JAD01	S002843*26	SW6010B	SW3050	NONE	0284326LB	LB	BARIUM	0.37	J	mg/kg
SQ	TOTMETAL	JAD07	S002843F*20	SW6010B	SW3050	NONE	02843F20LB	LB	BARIUM	0.37	J	mg/kg
SQ	TOTMETAL	JAD08	S002843G*17	SW6010B	SW3050	NONE	02843G17LB	LB	BARIUM	0.2	J	mg/kg
SS	TOTMETAL	JAD09	S0JAD09*1	SW6010B	SW3050	NONE	JAD091LB	LB	BARIUM	0.2	J	mg/kg
SS	TOTMETAL	JAD12	S0JAD12*3	SW6010B	SW3050	NONE	JAD123LB	LB	BARIUM	0.22	J	mg/kg
WQ	TOTMETAL	J2000951	J2000927-03	SW6010B	SW3010	NONE	J2000927-03	LB	BARIUM	28.7	=	ug/L
WQ	TOTMETAL	J2000951	PBW5-0324	SW6010B	SW3010	NONE	PBW5-0324	LB	BERYLLIUM	-0.34	=	ug/L
WQ	TOTMETAL	J2000951	J2000927-03	SW6010B	SW3010	NONE	J2000927-03	LB	CADMIUM	3.1	=	ug/L
SQ	TOTMETAL	J2000951	PBS3-0324	SW6010B	SW3050	NONE	PBS3-0324	LB	CALCIUM	4.118	=	mg/Kg

3 10 0442

WQ	TOTMETAL	J2000951	J2000927-03	SW6010B	SW3010	NONE	J2000927-03	LB	CALCIUM	53700	=	ug/L
WQ	TOTMETAL	J2000951	J2000951-18	SW6010B	SW3010	NONE	BDC001EB1	EB	CALCIUM	125	=	ug/L
WQ	TOTMETAL	J2000951	PBW5-0324	SW6010B	SW3010	NONE	PBW5-0324	LB	CALCIUM	60.89	=	ug/L
WQ	TOTMETAL	JAD03	S002843B*11	SW6010B	SW3005A	NONE	BDA293EB	EB	CALCIUM	0.052	J	mg/l
WQ	TOTMETAL	JAD03	S002843B*12	SW6010B	SW3005A	NONE	BDB530EB	EB	CALCIUM	0.11	J	mg/l
WQ	TOTMETAL	JAD03	S002843B*2	SW6010B	SW3005A	NONE	BDD003EB	EB	CALCIUM	0.19	J	mg/l
WQ	TOTMETAL	JAD03	S002843B*9	SW6010B	SW3005A	NONE	BDB433EB	EB	CALCIUM	0.12	J	mg/l
WQ	TOTMETAL	JAD11	S002890B*1	SW6010B	SW3005A	NONE	BDB699EB	EB	CALCIUM	0.14	J	mg/l
WQ	TOTMETAL	JAD11	S002962B*2	SW6010B	SW3005A	NONE	BDB824EB	EB	CALCIUM	0.13	J	mg/l
WQ	TOTMETAL	JAD11	S003016A*3	SW6010B	SW3005A	NONE	BDC017EB	EB	CALCIUM	0.21	J	mg/l
WQ	TOTMETAL	JAD36	S003979A*8	SW6010B	SW3005A	NONE	BDC048EB	EB	CALCIUM	0.15	J	mg/l
WQ	TOTMETAL	JAD62	S004517*8	SW6010B	SW3005A	NONE	BDB970EB	EB	CALCIUM	0.087	J	mg/l
WQ	TOTMETAL	JAD84	S005416*11	SW6010B	SW3005A	NONE	BDD201EB	EB	CALCIUM	0.092	J	mg/l
WQ	TOTMETAL	JAD11	S0JAD11*4	SW6010B	SW3005A	NONE	JAD114LB	LB	CALCIUM	0.045	J	mg/l
SS	TOTMETAL	JAD41	S0JAD41*1	SW6010B	SW3050	NONE	JAD411LB	LB	CHROMIUM, TOTAL	0.67	J	mg/kg
WQ	TOTMETAL	J2000951	PBW5-0324	SW6010B	SW3010	NONE	PBW5-0324	LB	CHROMIUM, TOTAL	-4.62	=	ug/L
WQ	TOTMETAL	JAD62	S004517*7	SW6010B	SW3005A	NONE	BDB952EB	EB	CHROMIUM, TOTAL	0.0017	J	mg/l
SQ	TOTMETAL	J2000951	PBS3-0324	SW6010B	SW3050	NONE	PBS3-0324	LB	COPPER	-0.179	=	mg/Kg
WQ	TOTMETAL	J2000951	J2000927-03	SW6010B	SW3010	NONE	J2000927-03	LB	COPPER	29.6	=	ug/L
WQ	TOTMETAL	J2000951	PBW5-0324	SW6010B	SW3010	NONE	PBW5-0324	LB	COPPER	-2.94	=	ug/L
WQ	TOTMETAL	JAD03	S002843B*1	SW6010B	SW3005A	NONE	BDA089EB	EB	COPPER	0.0028	J	mg/l
WQ	TOTMETAL	JAD03	S002843B*11	SW6010B	SW3005A	NONE	BDA293EB	EB	COPPER	0.0026	J	mg/l
WQ	TOTMETAL	JAD03	S002843B*12	SW6010B	SW3005A	NONE	BDB530EB	EB	COPPER	0.002	J	mg/l
WQ	TOTMETAL	JAD03	S002843B*13	SW6010B	SW3005A	NONE	02843B13LB	LB	COPPER	0.0016	J	mg/l
WQ	TOTMETAL	JAD03	S002843B*2	SW6010B	SW3005A	NONE	BDD003EB	EB	COPPER	0.0017	J	mg/l
WQ	TOTMETAL	JAD03	S002843B*3	SW6010B	SW3005A	NONE	BDA165EB	EB	COPPER	0.0051	J	mg/l
WQ	TOTMETAL	JAD03	S002843B*4	SW6010B	SW3005A	NONE	BDA197EB	EB	COPPER	0.0031	J	mg/l
WQ	TOTMETAL	JAD03	S002843B*5	SW6010B	SW3005A	NONE	BDB343EB	EB	COPPER	0.0019	J	mg/l
WQ	TOTMETAL	JAD03	S002843B*7	SW6010B	SW3005A	NONE	BDD014AB	AB	COPPER	0.0042	J	mg/l
WQ	TOTMETAL	JAD03	S002843B*8	SW6010B	SW3005A	NONE	BDA223EB	EB	COPPER	0.0042	J	mg/l
WQ	TOTMETAL	JAD03	S002843B*9	SW6010B	SW3005A	NONE	BDB433EB	EB	COPPER	0.0027	J	mg/l
WQ	TOTMETAL	JAD11	S002890B*1	SW6010B	SW3005A	NONE	BDB699EB	EB	COPPER	0.0016	J	mg/l
WQ	TOTMETAL	JAD11	S002941A*1	SW6010B	SW3005A	NONE	BDA364EB	EB	COPPER	0.0038	J	mg/l
WQ	TOTMETAL	JAD11	S003016A*3	SW6010B	SW3005A	NONE	BDC017EB	EB	COPPER	0.0019	J	mg/l
WQ	TOTMETAL	JAD16	S003181A*3	SW6010B	SW3005A	NONE	BDC027EB	EB	COPPER	0.0013	J	mg/l
WQ	TOTMETAL	JAD62	S004517*7	SW6010B	SW3005A	NONE	BDB952EB	EB	COPPER	0.0014	J	mg/l
WQ	TOTMETAL	JAD62	S004517*8	SW6010B	SW3005A	NONE	BDB970EB	EB	COPPER	0.0017	J	mg/l
WQ	TOTMETAL	JAD84	S005377*8	SW6010B	SW3005A	NONE	BDD145EB	EB	COPPER	0.00092	J	mg/l
WQ	TOTMETAL	JAD84	S005416*11	SW6010B	SW3005A	NONE	BDD201EB	EB	COPPER	0.001	J	mg/l
WQ	TOTMETAL	JAD11	S0JAD11*1	SW6010B	SW3005A	NONE	JAD111LB	LB	COPPER	0.0016	J	mg/l
WQ	TOTMETAL	JAD11	S0JAD11*4	SW6010B	SW3005A	NONE	JAD114LB	LB	COPPER	0.0025	J	mg/l
WQ	TOTMETAL	JAD16	S0JAD16*1	SW6010B	SW3005A	NONE	JAD161LB	LB	COPPER	0.0012	J	mg/l
WQ	TOTMETAL	JAD62	S0JAD62*4	SW6010B	SW3005A	NONE	JAD624LB	LB	COPPER	0.0011	J	mg/l
WQ	DISSMETAL	JAD04	S002843C*2	SW6010B	FLDFLT	NONE	02843C2LB	LB	Copper, Dissolved	0.0011	J	mg/l
SQ	TOTMETAL	J2000951	PBS3-0324	SW6010B	SW3050	NONE	PBS3-0324	LB	IRON	0.513	=	mg/Kg
SQ	TOTMETAL	JAD01	S002843*26	SW6010B	SW3050	NONE	0284326LB	LB	IRON	8.8	J	mg/kg
SQ	TOTMETAL	JAD02	S002843A*20	SW6010B	SW3050	NONE	02843A20LB	LB	IRON	10	J	mg/kg
SQ	TOTMETAL	JAD06	S002843E*19	SW6010B	SW3050	NONE	02843E19LB	LB	IRON	6.1	J	mg/kg

3 10 0443

SQ	TOTMETAL	JAD07	S002843F*20	SW6010B	SW3050	NONE	02843F20LB	LB	IRON	8.8	J	mg/kg
SQ	TOTMETAL	JAD07	S002843F*25	SW6010B	SW3050	NONE	02843F25LB	LB	IRON	4.5	J	mg/kg
SQ	TOTMETAL	JAD08	S002843G*15	SW6010B	SW3050	NONE	02843G15LB	LB	IRON	4.5	J	mg/kg
SQ	TOTMETAL	JAD08	S002843G*17	SW6010B	SW3050	NONE	02843G17LB	LB	IRON	9	J	mg/kg
SQ	TOTMETAL	JAD77	S0JAD77*1	SW6010B	SW3050	NONE	JAD771LB	LB	IRON	17	J	mg/kg
SS	TOTMETAL	JAD09	S0JAD09*1	SW6010B	SW3050	NONE	JAD091LB	LB	IRON	9	J	mg/kg
SS	TOTMETAL	JAD38	S0JAD38*1	SW6010B	SW3050	NONE	JAD381LB	LB	IRON	6.8	J	mg/kg
SS	TOTMETAL	JAD41	S0JAD41*1	SW6010B	SW3050	NONE	JAD411LB	LB	IRON	16	J	mg/kg
WQ	TOTMETAL	J2000951	J2000927-03	SW6010B	SW3010	NONE	J2000927-03	LB	IRON	2940	=	ug/L
WQ	TOTMETAL	J2000951	J2000951-18	SW6010B	SW3010	NONE	BDC001EB1	EB	IRON	19.9	=	ug/L
WQ	TOTMETAL	J2000951	PBW5-0324	SW6010B	SW3010	NONE	PBW5-0324	LB	IRON	23.02	=	ug/L
WQ	TOTMETAL	JAD03	S002843B*2	SW6010B	SW3005A	NONE	BDD003EB	EB	IRON	0.019	J	mg/l
WQ	TOTMETAL	JAD11	S002890B*1	SW6010B	SW3005A	NONE	BDB699EB	EB	IRON	0.027	J	mg/l
WQ	TOTMETAL	JAD11	S002962B*2	SW6010B	SW3005A	NONE	BDB824EB	EB	IRON	0.022	J	mg/l
WQ	TOTMETAL	JAD11	S0JAD11*4	SW6010B	SW3005A	NONE	JAD114LB	LB	IRON	0.024	J	mg/l
WQ	TOTMETAL	JAD16	S0JAD16*1	SW6010B	SW3005A	NONE	JAD161LB	LB	IRON	0.033	J	mg/l
WQ	DISSMETAL	JAD37	S003940B*3	SW6010B	FLDFLT	NONE	BDC037EB	EB	Iron, Dissolved	0.053	J	mg/l
SQ	TOTMETAL	JAD01	S002843*26	SW6010B	SW3050	NONE	0284326LB	LB	LEAD	2.1	=	mg/kg
SQ	TOTMETAL	JAD01	S002843*28	SW6010B	SW3050	NONE	0284328LB	LB	LEAD	0.46	J	mg/kg
SQ	TOTMETAL	JAD02	S002843A*20	SW6010B	SW3050	NONE	02843A20LB	LB	LEAD	0.43	J	mg/kg
SQ	TOTMETAL	JAD07	S002843F*20	SW6010B	SW3050	NONE	02843F20LB	LB	LEAD	2.1	=	mg/kg
SQ	TOTMETAL	JAD07	S002843F*27	SW6010B	SW3050	NONE	02843F27LB	LB	LEAD	0.46	J	mg/kg
SQ	TOTMETAL	JAD08	S002843G*17	SW6010B	SW3050	NONE	02843G17LB	LB	LEAD	0.59	J	mg/kg
SS	TOTMETAL	JAD09	S0JAD09*1	SW6010B	SW3050	NONE	JAD091LB	LB	LEAD	0.59	J	mg/kg
SS	TOTMETAL	JAD09	S0JAD09*3	SW6010B	SW3050	NONE	JAD093LB	LB	LEAD	0.46	J	mg/kg
SS	TOTMETAL	JAD38	S0JAD38*1	SW6010B	SW3050	NONE	JAD381LB	LB	LEAD	0.45	J	mg/kg
WQ	TOTMETAL	JAD11	S003016A*3	SW6010B	SW3005A	NONE	BDC017EB	EB	LEAD	0.0025	J	mg/l
WQ	TOTMETAL	JAD62	S004517*7	SW6010B	SW3005A	NONE	BDB952EB	EB	LEAD	0.0015	J	mg/l
WQ	TOTMETAL	JAD11	S0JAD11*4	SW6010B	SW3005A	NONE	JAD114LB	LB	LEAD	0.002	J	mg/l
WQ	TOTMETAL	JAD16	S0JAD16*1	SW6010B	SW3005A	NONE	JAD161LB	LB	LEAD	-0.0019	J	mg/l
SQ	TOTMETAL	J2000951	PBS3-0324	SW6010B	SW3050	NONE	PBS3-0324	LB	MAGNESIUM	2.577	=	mg/Kg
SS	TOTMETAL	JAD12	S0JAD12*3	SW6010B	SW3050	NONE	JAD123LB	LB	MAGNESIUM	9	J	mg/kg
WQ	TOTMETAL	J2000951	J2000927-03	SW6010B	SW3010	NONE	J2000927-03	LB	MAGNESIUM	19200	=	ug/L
WQ	TOTMETAL	J2000951	PBW5-0324	SW6010B	SW3010	NONE	PBW5-0324	LB	MAGNESIUM	65.69	=	ug/L
SS	TOTMETAL	JAD35	S0JAD35*1	SW6010B	SW3050	NONE	JAD351LB	LB	MANGANESE	-0.38	J	mg/kg
SS	TOTMETAL	JAD57	S0JAD57*1	SW6010B	SW3050	NONE	JAD571LB	LB	MANGANESE	0.29	J	mg/kg
WQ	TOTMETAL	J2000951	J2000927-03	SW6010B	SW3010	NONE	J2000927-03	LB	MANGANESE	63.3	=	ug/L
WQ	TOTMETAL	JAD03	S002843B*2	SW6010B	SW3005A	NONE	BDD003EB	EB	MANGANESE	0.0014	J	mg/l
WQ	TOTMETAL	JAD31	S0JAD31*1	SW6010B	SW3005A	NONE	JAD311LB	LB	MANGANESE	-0.0041	J	mg/l
WQ	TOTMETAL	JAD31	S0JAD31*12	SW6010B	SW3005A	NONE	JAD3112LB	LB	MANGANESE	-0.0037	J	mg/l
SQ	TOTMETAL	JAD07	S002843F*25	SW6010B	SW3050	NONE	02843F25LB	LB	NICKEL	0.49	J	mg/kg
SQ	TOTMETAL	JAD08	S002843G*15	SW6010B	SW3050	NONE	02843G15LB	LB	NICKEL	0.49	J	mg/kg
SS	TOTMETAL	JAD12	S0JAD12*5	SW6010B	SW3050	NONE	JAD125LB	LB	NICKEL	1.4	J	mg/kg
SQ	TOTMETAL	J2000951	PBS3-0324	SW6010B	SW3050	NONE	PBS3-0324	LB	POTASSIUM	51.578	=	mg/Kg
WQ	TOTMETAL	J2000951	J2000927-03	SW6010B	SW3010	NONE	J2000927-03	LB	POTASSIUM	1490	=	ug/L
WQ	TOTMETAL	J2000951	J2000951-18	SW6010B	SW3010	NONE	BDC001EB1	EB	POTASSIUM	640	=	ug/L
WQ	TOTMETAL	J2000951	PBW5-0324	SW6010B	SW3010	NONE	PBW5-0324	LB	POTASSIUM	622.51	=	ug/L
SQ	TOTMETAL	JAD01	S002843*28	SW6010B	SW3050	NONE	0284328LB	LB	SELENIUM	-0.82	J	mg/kg

3 10 0444

SQ	TOTMETAL	JAD07	S002843F*27	SW6010B	SW3050	NONE	02843F27LB	LB	SELENIUM	-0.82	J	mg/kg
SS	TOTMETAL	JAD09	S0JAD09*3	SW6010B	SW3050	NONE	JAD093LB	LB	SELENIUM	-0.82	J	mg/kg
SS	TOTMETAL	JAD12	S0JAD12*1	SW6010B	SW3050	NONE	JAD121LB	LB	SELENIUM	-0.61	J	mg/kg
SS	TOTMETAL	JAD12	S0JAD12*5	SW6010B	SW3050	NONE	JAD125LB	LB	SELENIUM	-0.5	J	mg/kg
SS	TOTMETAL	JAD40	S0JAD40*1	SW6010B	SW3050	NONE	JAD401LB	LB	SELENIUM	-0.44	J	mg/kg
SQ	TOTMETAL	J2000951	PBS3-0324	SW6010B	SW3050	NONE	PBS3-0324	LB	SODIUM	2.699	=	mg/Kg
SQ	TOTMETAL	JAD08	S002843G*17	SW6010B	SW3050	NONE	02843G17LB	LB	SODIUM	50	J	mg/kg
SS	TOTMETAL	JAD09	S0JAD09*1	SW6010B	SW3050	NONE	JAD091LB	LB	SODIUM	50	J	mg/kg
WQ	TOTMETAL	J2000951	J2000927-03	SW6010B	SW3010	NONE	J2000927-03	LB	SODIUM	6200	=	ug/L
WQ	TOTMETAL	J2000951	J2000951-18	SW6010B	SW3010	NONE	BDC001EB1	EB	SODIUM	103	=	ug/L
WQ	TOTMETAL	J2000951	PBW5-0324	SW6010B	SW3010	NONE	PBW5-0324	LB	SODIUM	25.41	=	ug/L
WQ	TOTMETAL	JAD03	S002843B*11	SW6010B	SW3005A	NONE	BDA293EB	EB	SODIUM	0.4	J	mg/l
WQ	TOTMETAL	JAD03	S002843B*13	SW6010B	SW3005A	NONE	02843B13LB	LB	SODIUM	0.31	J	mg/l
WQ	TOTMETAL	JAD03	S002843B*2	SW6010B	SW3005A	NONE	BDD003EB	EB	SODIUM	0.43	J	mg/l
WQ	TOTMETAL	JAD03	S002843B*3	SW6010B	SW3005A	NONE	BDA165EB	EB	SODIUM	0.46	J	mg/l
WQ	TOTMETAL	JAD03	S002843B*5	SW6010B	SW3005A	NONE	BDB343EB	EB	SODIUM	0.37	J	mg/l
WQ	TOTMETAL	JAD03	S002843B*8	SW6010B	SW3005A	NONE	BDA223EB	EB	SODIUM	0.36	J	mg/l
WQ	TOTMETAL	JAD03	S002843B*9	SW6010B	SW3005A	NONE	BDB433EB	EB	SODIUM	0.59	J	mg/l
WQ	TOTMETAL	JAD11	S002890B*1	SW6010B	SW3005A	NONE	BDB699EB	EB	SODIUM	0.38	J	mg/l
WQ	TOTMETAL	JAD16	S003181A*3	SW6010B	SW3005A	NONE	BDC027EB	EB	SODIUM	0.44	J	mg/l
WQ	TOTMETAL	JAD11	S0JAD11*1	SW6010B	SW3005A	NONE	JAD111LB	LB	SODIUM	0.31	J	mg/l
WQ	TOTMETAL	JAD16	S0JAD16*1	SW6010B	SW3005A	NONE	JAD161LB	LB	SODIUM	0.4	J	mg/l
WQ	DISSMETAL	JAD04	S002843C*2	SW6010B	FLDFLT	NONE	02843C2LB	LB	Sodium, Dissolved	0.35	J	mg/l
SS	TOTMETAL	JAD12	S0JAD12*3	SW6010B	SW3050	NONE	JAD123LB	LB	THALLIUM	0.76	J	mg/kg
SS	TOTMETAL	JAD35	S0JAD35*1	SW6010B	SW3050	NONE	JAD351LB	LB	THALLIUM	-0.59	J	mg/kg
WQ	TOTMETAL	JAD03	S002843B*13	SW6010B	SW3005A	NONE	02843B13LB	LB	THALLIUM	-0.0052	J	mg/l
WQ	TOTMETAL	JAD11	S0JAD11*1	SW6010B	SW3005A	NONE	JAD111LB	LB	THALLIUM	-0.0052	J	mg/l
SQ	TOTMETAL	J2000951	PBS3-0324	SW6010B	SW3050	NONE	PBS3-0324	LB	VANADIUM	-0.158	=	mg/Kg
SS	TOTMETAL	JAD38	S0JAD38*1	SW6010B	SW3050	NONE	JAD381LB	LB	VANADIUM	-0.11	J	mg/kg
SQ	TOTMETAL	J2000951	PBS3-0324	SW6010B	SW3050	NONE	PBS3-0324	LB	ZINC	0.664	=	mg/Kg
SQ	TOTMETAL	JAD01	S002843*26	SW6010B	SW3050	NONE	0284326LB	LB	ZINC	2	J	mg/kg
SQ	TOTMETAL	JAD07	S002843F*20	SW6010B	SW3050	NONE	02843F20LB	LB	ZINC	2	J	mg/kg
WQ	TOTMETAL	J2000951	J2000927-03	SW6010B	SW3010	NONE	J2000927-03	LB	ZINC	894	=	ug/L
WQ	TOTMETAL	JAD11	S003016A*3	SW6010B	SW3005A	NONE	BDC017EB	EB	ZINC	0.007	J	mg/l
WQ	TOTMETAL	J2000951	J2000927-03	SW7020	SW3010	NONE	J2000927-03	LB	ALUMINUM	970	=	ug/L
WQ	TOTMETAL	J2000951	J2000927-03	SW7060A	SW3020	NONE	J2000927-03	LB	ARSENIC	3.7	=	ug/L
WQ	TOTMETAL	J2000951	PBW6-0324	SW7060A	SW3020	NONE	PBW6-0324	LB	ARSENIC	1.996	=	ug/L
SQ	TOTMETAL	J2000951	PBS2-0325	SW7421	SW3050	NONE	PBS2-0325	LB	LEAD	0.054	=	mg/Kg
SQ	TOTMETAL	J2000951	PBS4-0324	SW7421	SW3050	NONE	PBS4-0324	LB	LEAD	0.028	=	mg/Kg
WQ	TOTMETAL	J2000951	J2000927-03	SW7421	SW3020	NONE	J2000927-03	LB	LEAD	1.5	=	ug/L
WQ	TOTMETAL	J2001227	J200419-MB3	SW7421	SW3020	NONE	J200419-MB3	LB	LEAD	-0.802	=	ug/L
WQ	TOTMETAL	J2001241	J200420-MB3	SW7421	SW3020	NONE	J200420-MB3	LB	LEAD	0.785	=	ug/L
WQ	TOTMETAL	J2001276	J200421-MB4	SW7421	SW3020	NONE	J200421-MB4	LB	LEAD	-0.833	=	ug/L
WQ	TOTMETAL	J2001295	J200421-MB8	SW7421	SW3020	NONE	J200421-MB8	LB	LEAD	0.554	=	ug/L
WQ	TOTMETAL	J2000951	PBW6-0324	SW7421	SW3020	NONE	PBW6-0324	LB	LEAD	-0.962	=	ug/L
WQ	TOTMETAL	J2001188	J200508-MB1	SW7470A	METHOD	NONE	J200508-MB1	LB	MERCURY	0.06	=	ug/L
WQ	TOTMETAL	J2000951	PBW3-0325	SW7470A	METHOD	NONE	PBW3-0325	LB	MERCURY	-0.036	=	ug/L
WQ	TOTMETAL	JAD31	S0JAD31*9	SW7470A	METHOD	NONE	JAD319LB	LB	MERCURY	-0.00012	J	mg/l

3 10 0445

WQ	TCLPMETAL	J2001175	J200504-MB3	SW7470A	METHOD	SW1311	J200504-MB3	LB	MERCURY, TCLP	-0.562	=	ug/L
SQ	HG/CN	J2000951	PBS5-0325	SW7471A	METHOD	NONE	PBS5-0325	LB	MERCURY	-0.004	=	mg/Kg
SS	HG/CN	JAD38	S0JAD38*4	SW7471A	METHOD	NONE	JAD384LB	LB	MERCURY	0.0029	J	mg/kg
SS	HG/CN	JAD57	S0JAD57*1	SW7471A	METHOD	NONE	JAD571LB	LB	MERCURY	0.0029	J	mg/kg
WQ	HG/CN	J2001143	J200418-MB6	SW7471A	METHOD	NONE	J200418-MB6	LB	MERCURY	-0.238	=	ug/L
WQ	HG/CN	J2001216	J200503-MB7	SW7471A	METHOD	NONE	J200503-MB7	LB	MERCURY	-0.398	=	ug/L
WQ	HG/CN	J2001275	J200503-MB8	SW7471A	METHOD	NONE	J200503-MB8	LB	MERCURY	-0.409	=	ug/L
WQ	HG/CN	J2001296	J200503-MB9	SW7471A	METHOD	NONE	J200503-MB9	LB	MERCURY	-0.343	=	ug/L
WQ	HG/CN	J2001175	J200508-MB2	SW7471A	METHOD	NONE	BLANK	LB	MERCURY	0.029	=	ug/L
SQ	TOTMETAL	J2000951	PBS4-0324	SW7841	SW3050	NONE	PBS4-0324	LB	THALLIUM	-0.068	=	mg/Kg
SQ	PEST	J2001517	J200515	SW8081A	SW3510	NONE	J200515MB	LB	ALDRIN	0.017	J	ug/L
SQ	PEST	J2001517	J200518	SW8081A	SW3550	NONE	J200518MB	LB	ALDRIN	1.8	=	ug/Kg
WQ	PEST	J2001517	J2001517-004	SW8081A	SW3510	NONE	BDC017EB	EB	ALDRIN	0.16	=	ug/L
WQ	PEST	J2001606	J2001606-001	SW8081A	SW3510	NONE	BDC027EB	EB	ALDRIN	0.014	J	ug/L
WQ	PEST	J2001606	J200523	SW8081A	SW3510	NONE	J200523MB	LB	ALDRIN	0.028	J	ug/L
SQ	PEST	J2001517	J200518	SW8081A	SW3550	NONE	J200518MB	LB	ENDRIN KETONE	0.98	J	ug/Kg
SQ	PEST	J2001517	J200515	SW8081A	SW3510	NONE	J200515MB	LB	GAMMA-CHLORDANE	0.021	J	ug/L
WQ	PEST	J2001517	J2001517-004	SW8081A	SW3510	NONE	BDC017EB	EB	GAMMA-CHLORDANE	0.21	=	ug/L
WQ	PEST	J2001606	J2001606-001	SW8081A	SW3510	NONE	BDC027EB	EB	GAMMA-CHLORDANE	0.024	J	ug/L
WQ	PEST	J2001606	J200523	SW8081A	SW3510	NONE	J200523MB	LB	GAMMA-CHLORDANE	0.056	=	ug/L
SQ	PEST	J2001517	J200515	SW8081A	SW3510	NONE	J200515MB	LB	HEPTACHLOR	0.05	=	ug/L
SQ	PEST	J2001517	J200518	SW8081A	SW3550	NONE	J200518MB	LB	HEPTACHLOR	2.2	=	ug/Kg
WQ	PEST	J2001517	J2001517-004	SW8081A	SW3510	NONE	BDC017EB	EB	HEPTACHLOR	0.17	=	ug/L
WQ	PEST	J2001606	J2001606-001	SW8081A	SW3510	NONE	BDC027EB	EB	HEPTACHLOR	0.045	J	ug/L
WQ	PEST	J2001606	J200523	SW8081A	SW3510	NONE	J200523MB	LB	HEPTACHLOR	0.038	J	ug/L
SQ	PEST	J2001517	J200515	SW8081A	SW3510	NONE	J200515MB	LB	HEPTACHLOR EPOXIDE	0.033	J	ug/L
SQ	PEST	J2001517	J200518	SW8081A	SW3550	NONE	J200518MB	LB	HEPTACHLOR EPOXIDE	2.2	=	ug/Kg
WQ	PEST	J2001517	J2001517-004	SW8081A	SW3510	NONE	BDC017EB	EB	HEPTACHLOR EPOXIDE	0.19	=	ug/L
WQ	PEST	J2001606	J2001606-001	SW8081A	SW3510	NONE	BDC027EB	EB	HEPTACHLOR EPOXIDE	0.023	J	ug/L
WQ	PEST	J2001606	J200523	SW8081A	SW3510	NONE	J200523MB	LB	HEPTACHLOR EPOXIDE	0.05	=	ug/L
SQ	PEST	J2001517	J200515	SW8081A	SW3510	NONE	J200515MB	LB	p,p'-DDE	0.019	J	ug/L
SQ	PEST	J2001517	J200518	SW8081A	SW3550	NONE	J200518MB	LB	p,p'-DDE	1.1	J	ug/Kg
WQ	PEST	J2001517	J2001517-004	SW8081A	SW3510	NONE	BDC017EB	EB	p,p'-DDE	0.086	J	ug/L
WQ	PEST	J2001606	J200523	SW8081A	SW3510	NONE	J200523MB	LB	p,p'-DDE	0.023	J	ug/L
SQ	PEST	J2001517	J200515	SW8081A	SW3510	NONE	J200515MB	LB	p,p'-DDT	0.017	J	ug/L
SS	PEST	JAD41	S0JAD41*8	SW8081A	SW3550	NONE	JAD418LB	LB	p,p'-DDT	0.6	J	ug/kg
WQ	PEST	J2001517	J2001517-004	SW8081A	SW3510	NONE	BDC017EB	EB	p,p'-DDT	0.11	=	ug/L
SQ	PCB	J2001423	J200515	SW8082	SW3550	NONE	J200515MB	LB	PCB-1016 (AROCHLOR 1016)	220	=	ug/Kg
SQ	PCB	J2001547	J200515	SW8082	SW3510	NONE	J200515MB	LB	PCB-1016 (AROCHLOR 1016)	23	=	ug/L
WQ	PCB	J2001517	J2001517-004	SW8082	SW3510	NONE	BDC017EB	EB	PCB-1016 (AROCHLOR 1016)	1.3	=	ug/L
WQ	PCB	J2001606	J2001606-001	SW8082	SW3510	NONE	BDC027EB	EB	PCB-1016 (AROCHLOR 1016)	2.2	=	ug/L
WQ	PCB	J2001606	J200522	SW8082	SW3510	NONE	J200522MB	LB	PCB-1016 (AROCHLOR 1016)	1.6	=	ug/L
SQ	VOC	J2001275	J200503	SW8260	SW5035	NONE	J200503MB	LB	ACETONE	5	J	ug/Kg
WQ	VOC	J2001316	J2001316-004	SW8260	SW5030	NONE	BDA223EB	EB	ACETONE	19	=	ug/L
SQ	VOC	J2001275	J200503	SW8260	SW5035	NONE	J200503MB	LB	CARBON DISULFIDE	0.2	J	ug/Kg
WQ	VOC	JAD42	S0JAD42*10	SW8260	SW5030	NONE	JAD4210LB	LB	CARBON DISULFIDE	3.6	J	ug/l
WQ	VOC	JAD36	S003979A*10	SW8260	SW5030	NONE	BDC042TB	TB	CHLOROBENZENE	0.81	J	ug/l
WQ	VOC	JAD36	S004035A*6	SW8260	SW5030	NONE	BDC061TB	TB	CHLOROBENZENE	0.79	J	ug/l

3 10 0446

WQ	VOC	J2001241	J2001241-005	SW8260	SW5030	NONE	BDD003EB	EB	CHLOROFORM	3	J	ug/L
WQ	VOC	J2001296	J2001296-015	SW8260	SW5035	NONE	BDD014AB	AB	CHLOROFORM	8	J	ug/L
WQ	VOC	J2001481	J2001481-008	SW8260	SW5030	NONE	BDA379EB	EB	CHLOROFORM	6	J	ug/L
WQ	VOC	J2001481	J2001481-009	SW8260	SW5030	NONE	BDA380EB	EB	CHLOROFORM	5	J	ug/L
WQ	VOC	JAD42	S0JAD42*10	SW8260	SW5030	NONE	JAD4210LB	LB	CHLOROMETHANE		=	ug/l
SQ	VOC	J2001384	J200519	SW8260	SW5035	NONE	J200519MB	LB	METHYL ETHYL KETONE (2-BUTANONE)	6	J	ug/Kg
SQ	VOC	J2001143	J200424	SW8260	SW5035	NONE	J200424MB	LB	METHYLENE CHLORIDE	4	J	ug/Kg
SQ	VOC	J2001275	J200503	SW8260	SW5035	NONE	J200503MB	LB	METHYLENE CHLORIDE	10	=	ug/Kg
SQ	VOC	J2001434	J200515	SW8260	SW5035	NONE	J200515MB	LB	METHYLENE CHLORIDE	2	J	ug/Kg
SQ	VOC	J2001434	J200518	SW8260	SW5035	NONE	J200518MB	LB	METHYLENE CHLORIDE	1	J	ug/Kg
SQ	VOC	J2001384	J200519	SW8260	SW5035	NONE	J200519MB	LB	METHYLENE CHLORIDE	0.8	J	ug/Kg
WQ	VOC	J2001241	J2001241-005	SW8260	SW5030	NONE	BDD003EB	EB	METHYLENE CHLORIDE	0.6	J	ug/L
WQ	VOC	J2001296	J2001296-015	SW8260	SW5035	NONE	BDD014AB	AB	METHYLENE CHLORIDE	2	J	ug/L
WQ	VOC	J2001481	J2001481-008	SW8260	SW5030	NONE	BDA379EB	EB	METHYLENE CHLORIDE	1	J	ug/L
WQ	VOC	J2001481	J2001481-009	SW8260	SW5030	NONE	BDA380EB	EB	METHYLENE CHLORIDE	1	J	ug/L
WQ	VOC	JAD36	S003979A*10	SW8260	SW5030	NONE	BDC042TB	TB	METHYLENE CHLORIDE	0.96	J	ug/l
WQ	VOC	JAD36	S003979A*7	SW8260	SW5030	NONE	BDC047EB	EB	METHYLENE CHLORIDE	0.97	J	ug/l
WQ	VOC	JAD36	S003979A*8	SW8260	SW5030	NONE	BDC048EB	EB	METHYLENE CHLORIDE	0.88	J	ug/l
WQ	VOC	JAD36	S003979A*9	SW8260	SW5030	NONE	BDC041TB	TB	METHYLENE CHLORIDE	0.87	J	ug/l
WQ	VOC	JAD36	S004035A*6	SW8260	SW5030	NONE	BDC061TB	TB	METHYLENE CHLORIDE	1.1	J	ug/l
WQ	VOC	JAD42	S004126A*4	SW8260	SW5030	NONE	BDC072TB	TB	METHYLENE CHLORIDE	1.4	J	ug/l
WQ	VOC	JAD31	S0JAD31*1	SW8260	SW5030	NONE	JAD311LB	LB	METHYLENE CHLORIDE	1.8	J	ug/l
WQ	VOC	JAD36	S0JAD36*1	SW8260	SW5030	NONE	JAD361LB	LB	METHYLENE CHLORIDE	0.96	J	ug/l
WQ	VOC	JAD42	S0JAD42*10	SW8260	SW5030	NONE	JAD4210LB	LB	METHYLENE CHLORIDE	1.8	J	ug/l
SQ	VOC	J2001143	J200424	SW8260	SW5035	NONE	J200424MB	LB	STYRENE	3	J	ug/Kg
SQ	VOC	J2001275	J200503	SW8260	SW5035	NONE	J200503MB	LB	TOLUENE	0.3	J	ug/Kg
SQ	VOC	J2001434	J200515	SW8260	SW5035	NONE	J200515MB	LB	TOLUENE	0.6	J	ug/Kg
WQ	VOC	J2001316	J2001316-004	SW8260	SW5030	NONE	BDA223EB	EB	TOLUENE	0.6	J	ug/L
WQ	VOC	J2001143	J200421	SW8260	SW5030	NONE	J200421MB	LB	TOLUENE	0.5	J	ug/L
SQ	SVOC	JAD77	S0JAD77*1	SW8270C	SW3550	NONE	JAD771LB	LB	BENZO(a)ANTHRACENE	38	J	ug/kg
SS	SVOC	JAD40	S0JAD40*11	SW8270C	SW3550	NONE	JAD4011LB	LB	BENZO(a)ANTHRACENE	30	J	ug/kg
WQ	SVOC	JAD36	S0JAD36*1	SW8270C	SW3520	NONE	JAD361LB	LB	BENZO(a)ANTHRACENE	0.98	J	ug/l
WQ	SVOC	JAD36	S0JAD36*10	SW8270C	SW3520	NONE	JAD3610LB	LB	BENZO(a)ANTHRACENE	0.44	J	ug/l
WQ	SVOC	JAD42	S0JAD42*1	SW8270C	SW3520	NONE	JAD421LB	LB	BENZO(a)ANTHRACENE	1.3	J	ug/l
SQ	SVOC	JAD77	S0JAD77*1	SW8270C	SW3550	NONE	JAD771LB	LB	BENZO(a)PYRENE	38	J	ug/kg
SS	SVOC	JAD35	S0JAD35*1	SW8270C	SW3550	NONE	JAD351LB	LB	BENZO(a)PYRENE	68	J	ug/kg
SS	SVOC	JAD40	S0JAD40*11	SW8270C	SW3550	NONE	JAD4011LB	LB	BENZO(a)PYRENE	36	J	ug/kg
WQ	SVOC	JAD36	S0JAD36*1	SW8270C	SW3520	NONE	JAD361LB	LB	BENZO(a)PYRENE	0.91	J	ug/l
WQ	SVOC	JAD42	S0JAD42*1	SW8270C	SW3520	NONE	JAD421LB	LB	BENZO(a)PYRENE	0.56	J	ug/l
SQ	SVOC	JAD77	S0JAD77*1	SW8270C	SW3550	NONE	JAD771LB	LB	BENZO(b)FLUORANTHENE	32	J	ug/kg
SS	SVOC	JAD35	S0JAD35*1	SW8270C	SW3550	NONE	JAD351LB	LB	BENZO(b)FLUORANTHENE	63	J	ug/kg
SS	SVOC	JAD40	S0JAD40*11	SW8270C	SW3550	NONE	JAD4011LB	LB	BENZO(b)FLUORANTHENE	29	J	ug/kg
WQ	SVOC	JAD36	S0JAD36*1	SW8270C	SW3520	NONE	JAD361LB	LB	BENZO(b)FLUORANTHENE	0.95	J	ug/l
WQ	SVOC	JAD36	S0JAD36*10	SW8270C	SW3520	NONE	JAD3610LB	LB	BENZO(b)FLUORANTHENE	0.33	J	ug/l
WQ	SVOC	JAD42	S0JAD42*1	SW8270C	SW3520	NONE	JAD421LB	LB	BENZO(b)FLUORANTHENE	0.67	J	ug/l
SQ	SVOC	JAD77	S0JAD77*1	SW8270C	SW3550	NONE	JAD771LB	LB	BENZO(g,h,i)PERYLENE	190	J	ug/kg
SS	SVOC	JAD35	S0JAD35*1	SW8270C	SW3550	NONE	JAD351LB	LB	BENZO(g,h,i)PERYLENE	32	J	ug/kg
SS	SVOC	JAD40	S0JAD40*11	SW8270C	SW3550	NONE	JAD4011LB	LB	BENZO(g,h,i)PERYLENE	45	J	ug/kg

3 10 0447

WQ	SVOC	JAD36	S0JAD36*1	SW8270C	SW3520	NONE	JAD361LB	LB	BENZO(g,h,i)PERYLENE	0.81	J	ug/l
SQ	SVOC	JAD77	S0JAD77*1	SW8270C	SW3550	NONE	JAD771LB	LB	BENZO(k)FLUORANTHENE	34	J	ug/kg
SS	SVOC	JAD35	S0JAD35*1	SW8270C	SW3550	NONE	JAD351LB	LB	BENZO(k)FLUORANTHENE	88	J	ug/kg
SS	SVOC	JAD40	S0JAD40*11	SW8270C	SW3550	NONE	JAD4011LB	LB	BENZO(k)FLUORANTHENE	41	J	ug/kg
WQ	SVOC	JAD36	S0JAD36*1	SW8270C	SW3520	NONE	JAD361LB	LB	BENZO(k)FLUORANTHENE	0.74	J	ug/l
SQ	SVOC	JAD86	S0JAD86*1	SW8270C	SW3550	NONE	JAD861LB	LB	bis(2-ETHYLHEXYL) PHTHALATE	65	J	ug/kg
SS	SVOC	JAD38	S0JAD38*1	SW8270C	SW3550	NONE	JAD381LB	LB	bis(2-ETHYLHEXYL) PHTHALATE	48	J	ug/kg
SS	SVOC	JAD57	S0JAD57*1	SW8270C	SW3550	NONE	JAD571LB	LB	bis(2-ETHYLHEXYL) PHTHALATE	50	J	ug/kg
WQ	SVOC	JAD36	S003940A*2	SW8270C	SW3520	NONE	BDC037EB	EB	bis(2-ETHYLHEXYL) PHTHALATE	4.6	J	ug/l
WQ	SVOC	JAD36	S003940A*3	SW8270C	SW3520	NONE	BDC038EB	EB	bis(2-ETHYLHEXYL) PHTHALATE	3.1	J	ug/l
WQ	SVOC	JAD62	S004517*8	SW8270C	SW3520	NONE	BDB970EB	EB	bis(2-ETHYLHEXYL) PHTHALATE	2.2	J	ug/l
WQ	SVOC	JAD84	S005416*11	SW8270C	SW3520	NONE	BDD201EB	EB	bis(2-ETHYLHEXYL) PHTHALATE	0.63	J	ug/l
WQ	SVOC	JAD31	S0JAD31*1	SW8270C	SW3520	NONE	JAD311LB	LB	bis(2-ETHYLHEXYL) PHTHALATE	8.9	J	ug/l
WQ	SVOC	JAD36	S0JAD36*1	SW8270C	SW3520	NONE	JAD361LB	LB	bis(2-ETHYLHEXYL) PHTHALATE	4.3	J	ug/l
WQ	SVOC	JAD36	S0JAD36*10	SW8270C	SW3520	NONE	JAD3610LB	LB	bis(2-ETHYLHEXYL) PHTHALATE	1.7	J	ug/l
WQ	SVOC	JAD36	S0JAD36*13	SW8270C	SW3520	NONE	JAD3613LB	LB	bis(2-ETHYLHEXYL) PHTHALATE	1.4	J	ug/l
WQ	SVOC	JAD62	S0JAD62*4	SW8270C	SW3520	NONE	JAD624LB	LB	bis(2-ETHYLHEXYL) PHTHALATE	1.4	J	ug/l
SQ	SVOC	JAD77	S0JAD77*1	SW8270C	SW3550	NONE	JAD771LB	LB	CHRYSENE	42	J	ug/kg
SS	SVOC	JAD40	S0JAD40*11	SW8270C	SW3550	NONE	JAD4011LB	LB	CHRYSENE	34	J	ug/kg
WQ	SVOC	JAD36	S0JAD36*1	SW8270C	SW3520	NONE	JAD361LB	LB	CHRYSENE	1	J	ug/l
WQ	SVOC	JAD36	S0JAD36*10	SW8270C	SW3520	NONE	JAD3610LB	LB	CHRYSENE	0.55	J	ug/l
WQ	SVOC	JAD42	S0JAD42*1	SW8270C	SW3520	NONE	JAD421LB	LB	CHRYSENE	1.3	J	ug/l
SS	SVOC	JAD41	S0JAD41*1	SW8270C	SW3550	NONE	JAD411LB	LB	DIBENZ(a,h)ANTHRACENE	56	J	ug/kg
SS	SVOC	JAD35	S0JAD35*1	SW8270C	SW3550	NONE	JAD351LB	LB	DI-n-BUTYL PHTHALATE	48	J	ug/kg
WQ	SVOC	JAD36	S003940A*3	SW8270C	SW3520	NONE	BDC038EB	EB	DI-n-BUTYL PHTHALATE	0.75	J	ug/l
WQ	SVOC	JAD36	S0JAD36*1	SW8270C	SW3520	NONE	JAD361LB	LB	DI-n-BUTYL PHTHALATE	0.85	J	ug/l
WQ	SVOC	JAD36	S0JAD36*1	SW8270C	SW3520	NONE	JAD361LB	LB	DI-n-OCTYLPHTHALATE	0.44	J	ug/l
WQ	SVOC	JAD36	S0JAD36*10	SW8270C	SW3520	NONE	JAD3610LB	LB	DI-n-OCTYLPHTHALATE	0.45	J	ug/l
SQ	SVOC	JAD77	S0JAD77*1	SW8270C	SW3550	NONE	JAD771LB	LB	INDENO(1,2,3-c,d)PYRENE	210	J	ug/kg
WQ	SVOC	JAD36	S0JAD36*1	SW8270C	SW3520	NONE	JAD361LB	LB	INDENO(1,2,3-c,d)PYRENE	0.77	J	ug/l
WQ	SVOC	JAD84	S005377*8	SW8270C	SW3520	NONE	BDD145EB	EB	PYRENE	0.89	J	ug/l
WQ	SVOC	JAD84	S005416*11	SW8270C	SW3520	NONE	BDD201EB	EB	PYRENE	0.66	J	ug/l
SQ	DIOXINS	E2000146	Eb60119-MB	SW8290	METHOD	NONE	Eb60119-MB	LB	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	0.8	J	ng/Kg
WQ	DIOXINS	E2000140	E2000140-003	SW8290	METHOD	NONE	BDB433EB	EB	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	21.5	J	pg/L
WQ	DIOXINS	E2000140	E2000140-003	SW8290	METHOD	NONE	BDB433EB	EB	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	82.3	J	pg/L
SQ	DIOXINS	E2000146	Eb60119-MB	SW8290	METHOD	NONE	Eb60119-MB	LB	HEPTACHLORINATED DIBENZOFURANS, (TOTAL)	0.8	J	ng/Kg
WQ	DIOXINS	E2000140	E2000140-003	SW8290	METHOD	NONE	BDB433EB	EB	HEPTACHLORINATED DIBENZOFURANS, (TOTAL)	49.7	J	pg/L
SQ	DIOXINS	E2000146	Eb60119-MB	SW8290	METHOD	NONE	Eb60119-MB	LB	HEPTACHLORINATED DIBENZO-P-DIOXINS, (TOTAL)	1.4	J	ng/Kg
WQ	DIOXINS	E2000140	E2000140-003	SW8290	METHOD	NONE	BDB433EB	EB	HEPTACHLORINATED DIBENZO-P-DIOXINS, (TOTAL)	88.5	=	pg/L
WQ	DIOXINS	E2000117	E2000117-001	SW8290	METHOD	NONE	BDA089EB	EB	HEXACHLORINATED DIBENZOFURANS, (TOTAL)	6.7	J	ng/L
WQ	DIOXINS	E2000140	E2000140-003	SW8290	METHOD	NONE	BDB433EB	EB	HEXACHLORINATED DIBENZOFURANS, (TOTAL)	7.6	J	pg/L
SQ	DIOXINS	E2000146	Eb60119-MB	SW8290	METHOD	NONE	Eb60119-MB	LB	OCTACHLORODIBENZOFURAN	1	J	ng/Kg
SQ	DIOXINS	E2000146	Eb60119-MB	SW8290	METHOD	NONE	Eb60119-MB	LB	OCTACHLORODIBENZO-p-DIOXIN	9.3	J	ng/Kg
WQ	DIOXINS	E2000140	E2000140-003	SW8290	METHOD	NONE	BDB433EB	EB	OCTACHLORODIBENZO-p-DIOXIN	1277.4	=	pg/L
SQ	TEQDIOX	E2000146	Eb60119-MB	SW8290	METHOD	NONE	Eb60119-MB	LB	TEQ OF 2,3,7,8-TCDD, LAB	0.0183	J	ng/Kg
WQ	TEQDIOX	E2000117	E2000117-001	SW8290	METHOD	NONE	BDA089EB	EB	TEQ OF 2,3,7,8-TCDD, LAB	0	J	ng/L
WQ	TEQDIOX	E2000140	E2000140-003	SW8290	METHOD	NONE	BDB433EB	EB	TEQ OF 2,3,7,8-TCDD, LAB	2.3154	=	pg/L
WQ	HG/CN	J2001241	J2001241-005	SW9010	METHOD	NONE	BDD003EB	EB	CYANIDE	0.95	=	ug/L

3 10 0448

Table 6A - Blank Detections

WQ	HG/CN	J2001296	J200504-MB1	SW9010	METHOD	NONE	J200504-MB1	LB	CYANIDE	1.22	=	ug/L
WQ	HG/CN	JAD11	S0JAD11*4	SW9012	METHOD	NONE	JAD114LB	LB	CYANIDE	0	=	mg/l
WQ	HG/CN	JAD11	S0JAD11*7	SW9012	METHOD	NONE	JAD117LB	LB	CYANIDE	0	=	mg/l

3 10 0449

Table 6B - Frequency of Detects

Matrix	Sample Type	Analytical Method	Preparation Method	Parameter	Number Analyzed	Number Detected	Minimum Detected	Maximum Detected	Units
SB	N	SW8290	METHOD	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	4	3	319.5	622	ng/Kg
SS	N	SW8290	METHOD	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	11	9	2.257	609.7	ng/Kg
SQ	LB	SW8290	METHOD	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	7	1	0.8	0.8	ng/Kg
WQ	EB	SW8290	METHOD	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	4	1	21.5	21.5	pg/L
SB	N	SW8290	METHOD	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	4	3	625.5	2164.4	ng/Kg
SS	N	SW8290	METHOD	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	11	9	8.141	4945.2	ng/Kg
WQ	EB	SW8290	METHOD	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	4	1	82.3	82.3	pg/L
SB	N	SW8290	METHOD	HEPTACHLORINATED DIBENZOFURANS, (TOTAL)	4	3	501.1	1102.7	ng/Kg
SS	N	SW8290	METHOD	HEPTACHLORINATED DIBENZOFURANS, (TOTAL)	11	9	2.257	17111.5	ng/Kg
SQ	LB	SW8290	METHOD	HEPTACHLORINATED DIBENZOFURANS, (TOTAL)	7	1	0.8	0.8	ng/Kg
WQ	EB	SW8290	METHOD	HEPTACHLORINATED DIBENZOFURANS, (TOTAL)	4	1	49.7	49.7	pg/L
SB	N	SW8290	METHOD	HEPTACHLORINATED DIBENZO-P-DIOXINS, (TOTAL)	4	3	1361.1	4124.9	ng/Kg
SS	N	SW8290	METHOD	HEPTACHLORINATED DIBENZO-P-DIOXINS, (TOTAL)	11	10	17.607	9828.7	ng/Kg
SQ	LB	SW8290	METHOD	HEPTACHLORINATED DIBENZO-P-DIOXINS, (TOTAL)	7	1	1.4	1.4	ng/Kg
WQ	EB	SW8290	METHOD	HEPTACHLORINATED DIBENZO-P-DIOXINS, (TOTAL)	4	1	88.5	88.5	pg/L
SB	N	SW8290	METHOD	HEXACHLORINATED DIBENZOFURANS, (TOTAL)	4	3	367.6	1655.3	ng/Kg
SS	N	SW8290	METHOD	HEXACHLORINATED DIBENZOFURANS, (TOTAL)	11	8	3.2	451	ng/Kg
WQ	EB	SW8290	METHOD	HEXACHLORINATED DIBENZOFURANS, (TOTAL)	1	1	6.7	6.7	ng/L
WQ	EB	SW8290	METHOD	HEXACHLORINATED DIBENZOFURANS, (TOTAL)	4	1	7.6	7.6	pg/L
SB	N	SW8290	METHOD	OCTACHLORODIBENZOFURAN	4	2	428.3	578.9	ng/Kg
SS	N	SW8290	METHOD	OCTACHLORODIBENZOFURAN	11	6	28	853.1	ng/Kg
SQ	LB	SW8290	METHOD	OCTACHLORODIBENZOFURAN	7	1	1	1	ng/Kg
SB	N	SW8290	METHOD	OCTACHLORODIBENZO-p-DIOXIN	4	4	80.9	14874.6	ng/Kg
SS	N	SW8290	METHOD	OCTACHLORODIBENZO-p-DIOXIN	11	11	56.244	35429.4	ng/Kg
WQ	N	SW8290	METHOD	OCTACHLORODIBENZO-p-DIOXIN	4	1	64.4	64.4	pg/L
SQ	LB	SW8290	METHOD	OCTACHLORODIBENZO-p-DIOXIN	7	1	9.3	9.3	ng/Kg
WQ	EB	SW8290	METHOD	OCTACHLORODIBENZO-p-DIOXIN	4	1	1277.4	1277.4	pg/L

Table 7 - Surrogate Limits

Method	Method #	Surrogate	Abbrev.	Water	Soil
STL Savannah					
VOC	8260	4-Bromofluorobenzene	BFB	74-126	63-135
		Dibromofluoromethane	DBF	70-130	58-142
		Toluene-d8	TOL	77-122	64-136
SVOC	8270C	2,4,6-Tribromopheno	TBP	29-143	23-129
		2-Fluorobipheny	FBP	36-124	30-120
		2-Fluoropheno	FP	29-121	16-113
		Nitrobenzene-d5	NB	34-130	20-120
		Phenol-d5	PHE	25-128	19-114
		Terphenyl-d14	TER	14-148	30-131
Pest/PCB	8081A/8082	Tetrachloro-m-xylene	TCX	30-150	30-150
		Decachlorobipheny	DCB	30-150	30-150
CAS/JAX					
VOC	8260	1,2-dichloroethane-d4	DCA	85-115	80-120
		4-Bromofluorobenzene	BFB	74-128	72-128
		Dibromofluoromethane	DBF	60-122	80-120
		Toluene-d8	TOL	77-121	81-119
SVOC	8270C	2,4,6-Tribromopheno	TBP	10-123	10-123
		2-Fluorobipheny	FBP	43-116	43-116
		2-Fluoropheno	FP	21-100	21-100
		Nitrobenzene-d5	NB	35-114	35-114
		Phenol-d5	PHE	10-94	10-94
		Terphenyl-d14	TER	33-141	33-141
Pest/PCB	8081A/8082	Tetrachloro-m-xylene	TCX	26-124	26-124
		Decachlorobipheny	DCB	50-150	50-150
		Dibutylchlorendate	DBC	31-146	31-146

Analytical Method	Preparation Method	Leach Method	Matrix	Parameter Class	SDG	Lab Sample ID	Sample ID	Sample Type	LR Type	[illegible]	[illegible]	[illegible]	[illegible]
SW8081	SW3550	NONE	SS	PEST	J2001143	J2001143-001	BOA054	N				65	185
SW8081	SW3550	NONE	SS	PEST	J2001143	J2001143-001RE	BOA054RE	LR	RE			38	132
SW8081	SW3550	NONE	SS	PEST	J2001143	J2001143-002	BOA055	N				0	0
SW8081	SW3550	NONE	SS	PEST	J2001143	J2001143-002RE	BOA055RE	LR	RE			0	0
SW8081	SW3550	NONE	SS	PEST	J2001175	J2001175-004	BOA082	N				0	0
SW8081	SW3550	NONE	SS	PEST	J2001175	J2001175-004RE	BOA082RE	LR	RE			0	0
SW8081	SW3550	NONE	SS	PEST	J2001175	J2001175-005	BOA083	N				0	0
SW8081	SW3550	NONE	SS	PEST	J2001175	J2001175-005RE	BOA083RE	LR	RE			0	0
SW8081	SW3550	NONE	SS	PEST	J2001175	J2001175-006	BOA084FD	FD				0	0
SW8081	SW3550	NONE	SS	PEST	J2001175	J2001175-006RE	BOA084FDRE	LR	RE			0	0
SW8081	SW3550	NONE	SS	PEST	J2001175	J2001175-007	BOA085	N				80	115
SW8081	SW3550	NONE	SS	PEST	J2001175	J2001175-007RE	BOA085RE	LR	RE			44	58
SW8081	SW3510	NONE	WQ	PEST	J2001188	J2001188-001	BOA086EB	EB		170	82		
SW8081	SW3550	NONE	SS	PEST	J2001216	J2001216-005	BOA111	N				0	0
SW8081	SW3550	NONE	SS	PEST	J2001216	J2001216-005RE	BOA111RE	LR	RE			0	0
SW8081	SW3550	NONE	SS	PEST	J2001275	J2001275-002	BOA171	N				46	324
SW8081	SW3550	NONE	SS	PEST	J2001275	J2001275-002RE	BOA171RE	LR	RE			0	0
SW8081	SW3550	NONE	SS	PEST	J2001275	J2001275-003	BOA172	N				80	190
SW8081	SW3550	NONE	SS	PEST	J2001275	J2001275-003RE	BOA172RE	LR	RE			0	0
SW8081	SW3550	NONE	SS	PEST	J2001275	J2001275-004	BOA173	N				80	55
SW8081	SW3550	NONE	SS	PEST	J2001275	J2001275-004RE	BOA173RE	LR	RE			103	95
SW8081	SW3550	NONE	SS	PEST	J2001296	J2001296-002	BOA187	N				0	0
SW8081	SW3550	NONE	SS	PEST	J2001296	J2001296-003	BOA188	N				0	0
SW8081	SW3510	NONE	WQ	PEST	J2001296	J2001296-006	BOA187EB	EB		88	82		
SW8081	SW3550	NONE	SS	PEST	J2001318	J2001318-002	BOA203	N				0	0
SW8081	SW3550	NONE	SS	PEST	J2001318	J2001318-003	BOA208	N				0	0
SW8081	SW3550	NONE	SS	PEST	J2001328	J2001328-002	BOA227	N				16	202
SW8081	SW3550	NONE	SS	PEST	J2001328	J2001328-003	BOA228	N				0	178
SW8081	SW3550	NONE	SS	PEST	J2001384	J2001384-004	BOA267	N				0	0
SW8081	SW3550	NONE	SS	PEST	J2001384	J2001384-005	BOA268	N				0	0
SW8081	SW3550	NONE	SS	PEST	J2001384	J2001384-006	BOA269	N				91	87
SW8081	SW3550	NONE	SS	PEST	J2001384	J2001384-003	BOA279	N				0	0
SW8081	SW3550	NONE	SS	PEST	J2001384	J2001384-004	BOA279	N				0	0
SW8081	SW3550	NONE	SS	PEST	J2001384	J2001384-006	BOA280FD	FD				0	0
SW8081	SW3550	NONE	SS	PEST	J2001384	J2001384-007	BOA295	N				0	0
SW8081	SW3550	NONE	SS	PEST	J2001434	J2001434-002	BOA336	N				0	0
SW8081	SW3550	NONE	SS	PEST	J2001434	J2001434-003	BOA337	N				0	0
SW8081	SW3550	NONE	SS	PEST	J2001434	J2001434-004	BOA338	N				36	224
SW8081	SW3510	NONE	WQ	PEST	J2001454	J2001454-001	BOA364EB	EB		72	71		
SW8081	SW3550	NONE	SS	PEST	J2001481	J2001481-002	BOA365	N				0	0
SW8081	SW3550	NONE	SS	PEST	J2001481	J2001481-003	BOA366FD	FD				0	0
SW8081	SW3550	NONE	SS	PEST	J2001481	J2001481-004	BOA367	N				0	0
SW8081	SW3550	NONE	SS	PEST	J2001481	J2001481-005	BOA371	N				0	0
SW8081	SW3550	NONE	SS	PEST	J2001481	J2001481-006	BOA372	N				0	0
SW8081	SW3550	NONE	SS	PEST	J2001481	J2001481-007	BOA373FD	FD				0	0
SW8081	SW3550	NONE	SS	PEST	J2001275	J2001275-006	BOB273	N				26	173
SW8081	SW3550	NONE	SS	PEST	J2001275	J2001275-006RE	BOB273RE	LR	RE			0	0
SW8081	SW3550	NONE	SS	PEST	J2001326	J2001326-004	BOB417	N				71	328
SW8081	SW3550	NONE	SS	PEST	J2001326	J2001326-005	BOB418FD	FD				19	528
SW8081	SW3510	NONE	WQ	PEST	J2001326	J2001326-006	BOB433EB	EB		80	84		
SW8081	SW3550	NONE	SS	PEST	J2001425	J2001425-001	BOB623	N				35	231
SW8081	SW3550	NONE	SS	PEST	J2001454	J2001454-002	BOB688	N				0	0
SW8081	SW3510	NONE	WQ	PEST	J2001481	J2001481-010	BOB767AB	AB		82	88		
SW8081	SW3550	NONE	SS	PEST	J2001517	J2001517-001	BOB871	N				0	986
SW8081	SW3550	NONE	SS	PEST	J2001517	J2001517-001RE	BOB871RE	LR	RE			0	0
SW8081	SW3550	NONE	SS	PEST	JAD57	8004479'8	BOB888	N				18	94
SW8081	SW3550	NONE	SS	PEST	JAD57	8004479'8RE	BOB888RE	LR	RE			19	94
SW8081	SW3550	NONE	SS	PEST	JAD62	8004517'8	BOB845	N				13	19
SW8081	SW3550	NONE	SS	PEST	JAD62	8004517'8RE	BOB845RE	LR	RE			46	57
SW8081	SW3520	NONE	WQ	PEST	JAD62	8004517'8	BOB870EB	EB			38	22	
SW8081	SW3550	NONE	SS	PEST	JAD77	8005110'1	BOB863	N				18	18
SW8081	SW3550	NONE	SS	PEST	JAD77	8005110'1RE	BOB863RE	LR	RE			53	69
SW8081	SW3510	NONE	WQ	PEST	J2001296	J2001296-014	BOC010	N		95	100		
SW8081	SW3510	NONE	WQ	PEST	J2001517	J2001517-002	BOC014FD	FD		94	93		
SW8081	SW3510	NONE	WQ	PEST	J2001657	J2001657-001	BOC015FD	FD		94	65		
SW8081	SW3510	NONE	WQ	PEST	J2001657	J2001657-001RE	BOC015FDRE	LR	RE	99	110		
SW8081	SW3510	NONE	WQ	PEST	J2001517	J2001517-003	BOC016	N		89	94		
SW8081	SW3510	NONE	WQ	PEST	J2001517	J2001517-004	BOC017EB	EB		110	86		
SW8081	SW3510	NONE	WQ	PEST	J2001517	J2001517-004RE	BOC017EBRE	LR	RE	100	94		
SW8081	SW3510	NONE	WQ	PEST	J2001517	J2001517-005	BOC018	N		160	79		
SW8081	SW3510	NONE	WQ	PEST	J2001517	J2001517-006	BOC019	N		86	86		
SW8081	SW3510	NONE	WQ	PEST	J2001517	J2001517-006RE	BOC019RE	LR	RE	100	85		
SW8081	SW3510	NONE	WQ	PEST	J2001547	J2001547-001	BOC020	N		79	120		
SW8081	SW3510	NONE	WQ	PEST	J2001547	J2001547-001RE	BOC020RE	LR	RE	89	84		
SW8081	SW3510	NONE	WQ	PEST	J2001547	J2001547-002	BOC021	N		75	89		
SW8081	SW3510	NONE	WQ	PEST	J2001547	J2001547-002RE	BOC021RE	LR	RE	110	100		
SW8081	SW3510	NONE	WQ	PEST	J2001579	J2001579-001	BOC022	N		88	87		
SW8081	SW3510	NONE	WQ	PEST	J2001579	J2001579-001RE	BOC022RE	LR	RE	100	78		
SW8081	SW3510	NONE	WQ	PEST	J2001579	J2001579-002	BOC024	N		88	81		
SW8081	SW3510	NONE	WQ	PEST	J2001579	J2001579-002RE	BOC024RE	LR	RE	82	110		
SW8081	SW3510	NONE	WQ	PEST	J2001579	J2001579-003	BOC025	N		100	120		
SW8081	SW3510	NONE	WQ	PEST	J2001579	J2001579-003RE	BOC025RE	LR	RE	88	85		
SW8081	SW3510	NONE	WQ	PEST	J2001579	J2001579-004	BOC026	N		110	110		
SW8081	SW3510	NONE	WQ	PEST	J2001579	J2001579-004RE	BOC026RE	LR	RE	100	84		
SW8081	SW3510	NONE	WQ	PEST	J2001808	J2001808-001	BOC027EB	EB		88	86		
SW8081	SW3510	NONE	WQ	PEST	J2001808	J2001808-001RE	BOC027EBRE	LR	RE	88	100		
SW8081	SW3510	NONE	WQ	PEST	J2001821	J2001821-001	BOC028	N		77	94		
SW8081	SW3510	NONE	WQ	PEST	J2001821	J2001821-001RE	BOC028RE	LR	RE	88	102		
SW8081	SW3510	NONE	WQ	PEST	J2001821	J2001821-002	BOC029	N		91	87		
SW8081	SW3510	NONE	WQ	PEST	J2001821	J2001821-002RE	BOC029RE	LR	RE	100	85		
SW8081	SW3510	NONE	WQ	PEST	J2001857	J2001857-002	BOC030	N		100	98		
SW8081	SW3510	NONE	WQ	PEST	J2001857	J2001857-002RE	BOC030RE	LR	RE	100	100		
SW8081	SW3510	NONE	WQ	PEST	J2001857	J2001857-003	BOC031	N		91	100		
SW8081	SW3510	NONE	WQ	PEST	J2001857	J2001857-003RE	BOC031RE	LR	RE	110	88		
SW8081	SW3520	NONE	WQ	PEST	JAD31	8003808A'3	BOC032	N			30	9	
SW8081	SW3520	NONE	WB	PEST	JAD38	8003840A'4	BOC033	N			27	30	
SW8081	SW3550	NONE	SE	PEST	JAD36	8003840'14	BOC034	N			27	44	
SW8081	SW3520	NONE	WB	PEST	JAD38	8003840A'5	BOC035	N			32	30	
SW8081	SW3520	NONE	SE	PEST	JAD35	8003840'13	BOC036	N			20	43	

3 10 0452

Analytical Method	Preparation Method	Leach Method	Matrix	Parameter Class	SDG	Lab Sample ID	Sample ID	Sample Type	LR Type								
SW8081	SW3520	NONE	WQ	PEST	JAD38	8003840A*2	BDC037EB	EB			32	55					
SW8081	SW3520	NONE	WQ	PEST	JAD38	8003840A*3	BDC038EB	EB			26	45					
SW8081	SW3520	NONE	WS	PEST	JAD38	8003879A*3	BDC039	N			50	38					
SW8081	SW3550	NONE	SE	PEST	JAD38	8003879*18	BDC040	N					38	46			
SW8081	SW3520	NONE	WS	PEST	JAD38	8003879A*5	BDC043	N			40	40					
SW8081	SW3550	NONE	SE	PEST	JAD38	8003879*19	BDC044	N					34	48			
SW8081	SW3520	NONE	WS	PEST	JAD38	8003879A*6	BDC045	N			44	62					
SW8081	SW3550	NONE	SE	PEST	JAD38	8003879*20	BDC046	N					28	41			
SW8081	SW3520	NONE	WQ	PEST	JAD38	8003879A*7	BDC047EB	EB			38	54					
SW8081	SW3520	NONE	WQ	PEST	JAD38	8003879A*8	BDC048EB	EB			29	56					
SW8081	SW3520	NONE	WS	PEST	JAD38	8003879A*4	BDC049FD	FD			30	52					
SW8081	SW3550	NONE	SE	PEST	JAD38	8003879*17	BDC050FD	FD					40	45			
SW8081	SW3520	NONE	WS	PEST	JAD38	8004035A*4	BDC051	N			40	48					
SW8081	SW3550	NONE	SE	PEST	JAD40	8004035*15	BDC052	N					37	41			
SW8081	SW3520	NONE	WS	PEST	JAD38	8004035A*3	BDC053FD	FD			44	48					
SW8081	SW3550	NONE	SE	PEST	JAD40	8004035*14	BDC054FD	FD					31	38			
SW8081	SW3520	NONE	WS	PEST	JAD38	8004035A*5	BDC055	N			44	34					
SW8081	SW3550	NONE	SE	PEST	JAD40	8004035*16	BDC056	N					37	41			
SW8081	SW3510	NONE	WS	PEST	JAD42	8004053A*1	BDC057	N			44	55					
SW8081	SW3550	NONE	SE	PEST	JAD41	8004088*7	BDC058	N					34	46			
SW8081	SW3520	NONE	WQ	PEST	JAD38	8003879A*1	BDC059FD	FD			38	72					
SW8081	SW3520	NONE	WQ	PEST	JAD38	8003879A*2	BDC080	N			80	78					
SW8081	SW3510	NONE	WS	PEST	JAD42	8004088A*2	BDC082	N			38	20					
SW8081	SW3550	NONE	SE	PEST	JAD41	8004088*8	BDC083	N					38	34			
SW8081	SW3510	NONE	WS	PEST	JAD42	8004128A*2	BDC084	N			18	18					
SW8081	SW3510	NONE	WS	PEST	JAD42	8004128A*2*RE	BDC084RE	LR	RE		28	18					
SW8081	SW3550	NONE	SE	PEST	JAD41	8004128*4	BDC085	N					43	62			
SW8081	SW3510	NONE	WS	PEST	JAD42	8004088A*3	BDC086	N			40	34					
SW8081	SW3550	NONE	SE	PEST	JAD41	8004088*9	BDC087	N					37	48			
SW8081	SW3510	NONE	WS	PEST	JAD42	8004088A*4	BDC088	N			38	30					
SW8081	SW3550	NONE	SE	PEST	JAD41	8004088*10	BDC089	N					35	44			
SW8081	SW3510	NONE	WS	PEST	JAD42	8004128A*3	BDC070	N			30	20					
SW8081	SW3550	NONE	SE	PEST	JAD41	8004128*5	BDC071	N					40	30			
SW8081	SW3510	NONE	WQ	PEST	JAD42	8004180A*1	BDC073	N			28	48					
SW8081	SW3510	NONE	WQ	PEST	J2001241	J2001241-005	BDD003EB	EB		51	72						
SW8081	SW3510	NONE	WQ	PEST	J2001298	J2001298-015	BDD014AB	AB		85	94						
SW8081	SW3550	NONE	SS	PEST	JAD84	8005377*1	BDD108	N					84	67			
SW8081	SW3550	NONE	SS	PEST	JAD84	8005377*2	BDD129	N					61	77			
SW8081	SW3550	NONE	SS	PEST	JAD84	8005377*3	BDD143	N					44	49			
SW8081	SW3510	NONE	WQ	PEST	JAD84	8005377*6	BDD145EB	EB			40	58					
SW8081	SW3550	NONE	SS	PEST	JAD84	8005416*1	BDD158	N					42	54			
SW8081	SW3550	NONE	SS	PEST	JAD84	8005416*2	BDD159FD	FD					61	72			
SW8081	SW3550	NONE	SS	PEST	JAD84	8005416*3	BDD167	N					44	61			
SW8081	SW3550	NONE	SS	PEST	JAD84	8005416*4	BDD178	N					70	78			
SW8081	SW3550	NONE	SS	PEST	JAD84	8005416*5	BDD188	N					61	63			
SW8081	SW3550	NONE	SS	PEST	JAD84	8005416*10	BDD189	N					53	68			
SW8081	SW3550	NONE	SS	PEST	JAD84	8005416*8	BDD194FD	FD					33	44			
SW8081	SW3550	NONE	SS	PEST	JAD84	8005416*7	BDD200	N					63	61			
SW8081	SW3510	NONE	WQ	PEST	JAD84	8005416*11	BDD201EB	EB			38	54					
SW8081	SW3550	NONE	SS	PEST	JAD88	8005454*1	BDD211	N					53	78			
SW8081	SW3550	NONE	SS	PEST	JAD88	8005454*2	BDD221	N					44	47			
SW8081	SW3550	NONE	SS	PEST	JAD88	8005454*3	BDD231	N					40	58			
SW8081	SW3550	NONE	SS	PEST	JAD88	8005454*4	BDD241	N					37	44			
SW8081	SW3550	NONE	SS	PEST	JAD88	8005454*5	BDD262	N					48	78			
SW8081	SW3550	NONE	SS	PEST	JAD84	8005377*4	BDE357	N					87	79			
SW8081	SW3550	NONE	SS	PEST	JAD84	8005377*5	BDE362	N					25	29			
SW8081	SW3550	NONE	SS	PEST	JAD84	8005377*5*RE	BDE362RE	LR	RE				34	44			
SW8082	SW3550	NONE	SS	PCB	J2001143	J2001143-001	BDA054	N									108
SW8082	SW3550	NONE	SS	PCB	J2001143	J2001143-001RE	BDA054RE	LR	RE								111
SW8082	SW3550	NONE	SB	PCB	J2001143	J2001143-002	BDA055	N									711
SW8082	SW3550	NONE	SB	PCB	J2001143	J2001143-002RE	BDA055RE	LR	RE								632
SW8082	SW3550	NONE	SS	PCB	J2001175	J2001175-004	BDA082	N									881
SW8082	SW3550	NONE	SS	PCB	J2001175	J2001175-004RE	BDA082RE	LR	RE								676
SW8082	SW3550	NONE	SB	PCB	J2001175	J2001175-005	BDA083	N									829
SW8082	SW3550	NONE	SB	PCB	J2001175	J2001175-005RE	BDA083RE	LR	RE								1212
SW8082	SW3550	NONE	SB	PCB	J2001175	J2001175-008	BDA084FD	FD									1333
SW8082	SW3550	NONE	SB	PCB	J2001175	J2001175-008RE	BDA084FDRE	LR	RE								887
SW8082	SW3550	NONE	SB	PCB	J2001175	J2001175-007	BDA085	N									100
SW8082	SW3550	NONE	SB	PCB	J2001175	J2001175-007RE	BDA085RE	LR	RE								102
SW8082	SW3510	NONE	WQ	PCB	J2001188	J2001188-001	BDA088EB	EB							83		
SW8082	SW3550	NONE	SB	PCB	J2001218	J2001218-005	BDA111	N									186
SW8082	SW3510	NONE	SB	PCB	J2001218	J2001218-005RE	BDA111RE	LR	RE						174		
SW8082	SW3510	NONE	SB	PCB	J2001218		BDA111REDL	LR	DL						139		
SW8082	SW3550	NONE	SS	PCB	J2001275	J2001275-002	BDA171	N									814
SW8082	SW3550	NONE	SB	PCB	J2001275	J2001275-003	BDA172	N									800
SW8082	SW3550	NONE	SB	PCB	J2001275	J2001275-004	BDA173	N									86
SW8082	SW3550	NONE	SS	PCB	J2001298	J2001298-002	BDA187	N									278
SW8082	SW3550	NONE	SB	PCB	J2001298	J2001298-003	BDA188	N									1027
SW8082	SW3510	NONE	WQ	PCB	J2001298	J2001298-008	BDA197EB	EB							77		
SW8082	SW3550	NONE	SS	PCB	J2001318	J2001318-002	BDA203	N								94	108
SW8082	SW3550	NONE	SB	PCB	J2001318	J2001318-003	BDA208	N								70	108
SW8082	SW3550	NONE	SS	PCB	J2001328	J2001328-002	BDA227	N								80	163
SW8082	SW3550	NONE	SB	PCB	J2001328	J2001328-003	BDA228	N								61	444
SW8082	SW3550	NONE	SS	PCB	J2001384	J2001384-004	BDA267	N								70	50
SW8082	SW3550	NONE	SB	PCB	J2001384	J2001384-005	BDA268	N								74	788
SW8082	SW3550	NONE	SB	PCB	J2001384	J2001384-005DL	BDA268DL	LR	DL							82	886
SW8082	SW3550	NONE	SB	PCB	J2001384	J2001384-008	BDA269	N								80	77
SW8082	SW3550	NONE	SS	PCB	J2001384	J2001384-003	BDA278	N								74	371
SW8082	SW3550	NONE	SS	PCB	J2001384	J2001384-003DL	BDA278DL	LR	DL							83	371
SW8082	SW3550	NONE	SB	PCB	J2001384	J2001384-004	BDA279	N								61	286
SW8082	SW3550	NONE	SB	PCB	J2001384	J2001384-004DL	BDA279DL	LR	DL							88	0
SW8082	SW3550	NONE	SB	PCB	J2001384	J2001384-005	BDA280FD	FD								88	302
SW8082	SW3550	NONE	SB	PCB	J2001384	J2001384-005DL	BDA280FDDL	LR	DL							61	258
SW8082	SW3550	NONE	SB	PCB	J2001384	J2001384-007	BDA285	N								73	84
SW8082	SW3550	NONE	SB	PCB	J2001434	J2001434-002	BDA336	N								0	80
SW8082	SW3550	NONE	SS	PCB	J2001434	J2001434-002RE	BDA336RE	LR	RE							77	108
SW8082	SW3550	NONE	SB	PCB	J2001434	J2001434-003	BDA337	N								0	131
SW8082	SW3550	NONE	SB	PCB	J2001434	J2001434-003RE	BDA337RE	LR	RE							62	258
SW8082	SW3550	NONE	SB	PCB	J2001434	J2001434-004	BDA339	N								0	135

3 10 1453

Analytical Method	Preparation Method	Leach Method	Matrix	Parameter Class	SDG	Lab Sample ID	Sample ID	Sample Type	LR Type	[illegible]	[illegible]	[illegible]	[illegible]
SW8082	SW3550	NONE	SS	PCB	J2001434	J2001434-004RE	BDA339RE	LR	RE			78	98
SW8082	SW3510	NONE	WQ	PCB	J2001454	J2001454-001	BDA364EB	EB		82			
SW8082	SW3550	NONE	SS	PCB	J2001481	J2001481-002	BDA365	N				0	78
SW8082	SW3550	NONE	SS	PCB	J2001481	J2001481-002RE	BDA365RE	LR	RE			60	61
SW8082	SW3550	NONE	SS	PCB	J2001481	J2001481-003	BDA366FD	FD				0	8
SW8082	SW3550	NONE	SS	PCB	J2001481	J2001481-003RE	BDA366FDRE	LR	RE			60	63
SW8082	SW3550	NONE	SS	PCB	J2001481	J2001481-004	BDA367	N				0	117
SW8082	SW3550	NONE	SS	PCB	J2001481	J2001481-004RE	BDA367RE	LR	RE			69	149
SW8082	SW3550	NONE	SS	PCB	J2001481	J2001481-005	BDA371	N				0	250
SW8082	SW3550	NONE	SS	PCB	J2001481	J2001481-005RE	BDA371RE	LR	RE			0	0
SW8082	SW3550	NONE	SS	PCB	J2001481	J2001481-006	BDA372	N				0	7
SW8082	SW3550	NONE	SS	PCB	J2001481	J2001481-006RE	BDA372RE	LR	RE			34	53
SW8082	SW3550	NONE	SS	PCB	J2001481	J2001481-007	BDA373FD	FD				0	6
SW8082	SW3550	NONE	SS	PCB	J2001481	J2001481-007RE	BDA373FDRE	LR	RE			66	37
SW8082	SW3550	NONE	SS	PCB	J2001275	J2001275-008	BDB273	N					219
SW8082	SW3550	NONE	SS	PCB	J2001328	J2001328-004	BDB417	N				75	111
SW8082	SW3550	NONE	SS	PCB	J2001328	J2001328-004DL	BDB417DL	LR	DL			80	67
SW8082	SW3550	NONE	SS	PCB	J2001328	J2001328-005	BDB418FD	FD				75	87
SW8082	SW3550	NONE	SS	PCB	J2001328	J2001328-005DL	BDB418FDDL	LR	DL			50	55
SW8082	SW3510	NONE	WQ	PCB	J2001328	J2001328-008	BDB433EB	EB		77			
SW8082	SW3550	NONE	SS	PCB	J2001423	J2001423-001	BDB823	N				0	34
SW8082	SW3550	NONE	SS	PCB	J2001423	J2001423-001RE	BDB823RE	LR	RE			77	74
SW8082	SW3550	NONE	SS	PCB	J2001454	J2001454-002	BDB880	N				0	84
SW8082	SW3550	NONE	SS	PCB	J2001454	J2001454-002RE	BDB880RE	LR	RE			77	81
SW8082	SW3510	NONE	WQ	PCB	J2001481	J2001481-010	BDB797AB	AB		74			
SW8082	SW3550	NONE	SS	PCB	J2001517	J2001517-001	BDB871	N				0	74
SW8082	SW3550	NONE	SS	PCB	J2001517	J2001517-001RE	BDB871RE	LR	RE			66	77
SW8082	SW3550	NONE	SS	PCB	JAD57	S004478*8	BDB880	N				18	84
SW8082	SW3550	NONE	SS	PCB	JAD57	S004478*8*RE	BDB880RE	LR	RE			18	84
SW8082	SW3550	NONE	SS	PCB	JAD62	S004517*8	BDB845	N				12	16
SW8082	SW3550	NONE	SS	PCB	JAD62	S004517*8*RE	BDB845RE	LR	RE			40	53
SW8082	SW3520	NONE	WQ	PCB	JAD62	S004517*8	BDB870EB	EB		22	38		
SW8082	SW3550	NONE	SS	PCB	JAD77	S005110*1	BDB883	N				15	18
SW8082	SW3550	NONE	SS	PCB	JAD77	S005110*1*RE	BDB883RE	LR	RE			53	86
SW8082	SW3510	NONE	WQ	PCB	J2001298	J2001298-014	BDC010	N		53			
SW8082	SW3510	NONE	WQ	PCB	J2001517	J2001517-002	BDC014FD	FD		62			
SW8082	SW3510	NONE	WQ	PCB	J2001857	J2001857-001	BDC015FD	FD		58			
SW8082	SW3510	NONE	WQ	PCB	J2001857	J2001857-001RE	BDC015FDRE	LR	RE	80			
SW8082	SW3510	NONE	WQ	PCB	J2001517	J2001517-003	BDC016	N		61			
SW8082	SW3510	NONE	WQ	PCB	J2001517	J2001517-004	BDC017EB	EB		53			
SW8082	SW3510	NONE	WQ	PCB	J2001517	J2001517-004RE	BDC017EBRE	LR	RE	54	0		
SW8082	SW3510	NONE	WQ	PCB	J2001517	J2001517-005	BDC018	N		66			
SW8082	SW3510	NONE	WQ	PCB	J2001517	J2001517-006	BDC019	N		72			
SW8082	SW3510	NONE	WQ	PCB	J2001517	J2001517-006RE	BDC019RE	LR	RE	65	0		
SW8082	SW3510	NONE	WQ	PCB	J2001547	J2001547-001	BDC020	N		48			
SW8082	SW3510	NONE	WQ	PCB	J2001547	J2001547-001RE	BDC020RE	LR	RE	72	0		
SW8082	SW3510	NONE	WQ	PCB	J2001547	J2001547-002	BDC021	N		38			
SW8082	SW3510	NONE	WQ	PCB	J2001547	J2001547-002RE	BDC021RE	LR	RE	78	0		
SW8082	SW3510	NONE	WQ	PCB	J2001579	J2001579-001	BDC022	N		58			
SW8082	SW3510	NONE	WQ	PCB	J2001579	J2001579-001DL	BDC022DL	LR	DL	0			
SW8082	SW3510	NONE	WQ	PCB	J2001579	J2001579-001RE	BDC022RE	LR	RE	85	0		
SW8082	SW3510	NONE	WQ	PCB	J2001579	J2001579-002	BDC024	N		38			
SW8082	SW3510	NONE	WQ	PCB	J2001579	J2001579-002DL	BDC024DL	LR	DL	0			
SW8082	SW3510	NONE	WQ	PCB	J2001579	J2001579-002RE	BDC024RE	LR	RE	82	0		
SW8082	SW3510	NONE	WQ	PCB	J2001579		BDC024REDL	LR	DL	67	0		
SW8082	SW3510	NONE	WQ	PCB	J2001579	J2001579-003	BDC025	N		58			
SW8082	SW3510	NONE	WQ	PCB	J2001579	J2001579-003DL	BDC025DL	LR	DL	0			
SW8082	SW3510	NONE	WQ	PCB	J2001579	J2001579-003RE	BDC025RE	LR	RE	80	0		
SW8082	SW3510	NONE	WQ	PCB	J2001579	J2001579-004	BDC026	N		58			
SW8082	SW3510	NONE	WQ	PCB	J2001579	J2001579-004DL	BDC026DL	LR	DL	0			
SW8082	SW3510	NONE	WQ	PCB	J2001579	J2001579-004RE	BDC026RE	LR	RE	70	0		
SW8082	SW3510	NONE	WQ	PCB	J2001808	J2001808-001	BDC027EB	EB		13			
SW8082	SW3510	NONE	WQ	PCB	J2001808	J2001808-001RE	BDC027EBRE	LR	RE	110			
SW8082	SW3510	NONE	WQ	PCB	J2001821	J2001821-001	BDC028	N		42			
SW8082	SW3510	NONE	WQ	PCB	J2001821	J2001821-001RE	BDC028RE	LR	RE	68			
SW8082	SW3510	NONE	WQ	PCB	J2001821	J2001821-002	BDC029	N		62			
SW8082	SW3510	NONE	WQ	PCB	J2001821	J2001821-002RE	BDC029RE	LR	RE	88			
SW8082	SW3510	NONE	WQ	PCB	J2001857	J2001857-002	BDC030	N		41			
SW8082	SW3510	NONE	WQ	PCB	J2001857	J2001857-002RE	BDC030RE	LR	RE	70			
SW8082	SW3510	NONE	WQ	PCB	J2001857	J2001857-003	BDC031	N		84			
SW8082	SW3510	NONE	WQ	PCB	J2001857	J2001857-003RE	BDC031RE	LR	RE	70			
SW8082	SW3510	NONE	WQ	PCB	JAD31	B003808A*3	BDC032	N		9	30		
SW8082	SW3520	NONE	WS	PCB	JAD38	B003840A*4	BDC033	N		30	37		
SW8082	SW3550	NONE	SE	PCB	JAD35	B003840*14	BDC034	N				37	44
SW8082	SW3520	NONE	WS	PCB	JAD38	B003840A*5	BDC035	N		30	32		
SW8082	SW3550	NONE	SE	PCB	JAD35	B003840*15	BDC036	N				30	43
SW8082	SW3520	NONE	WQ	PCB	JAD38	B003840A*2	BDC037EB	EB		85	32		
SW8082	SW3520	NONE	WQ	PCB	JAD38	B003840A*3	BDC038EB	EB		45	28		
SW8082	SW3520	NONE	WS	PCB	JAD38	B003878A*3	BDC039	N		38	50		
SW8082	SW3550	NONE	SE	PCB	JAD38	B003879*18	BDC040	N				38	48
SW8082	SW3520	NONE	WS	PCB	JAD38	B003878A*5	BDC043	N		40	40		
SW8082	SW3550	NONE	SE	PCB	JAD38	B003879*19	BDC044	N				34	48
SW8082	SW3520	NONE	WS	PCB	JAD38	B003878A*6	BDC045	N		52	44		
SW8082	SW3550	NONE	SE	PCB	JAD38	B003879*20	BDC046	N				38	41
SW8082	SW3520	NONE	WQ	PCB	JAD38	B003878A*7	BDC047EB	EB		54	38		
SW8082	SW3520	NONE	WQ	PCB	JAD38	B003878A*8	BDC048EB	EB		56	28		
SW8082	SW3520	NONE	WS	PCB	JAD38	B003878A*4	BDC049FD	FD		82	30		
SW8082	SW3550	NONE	SE	PCB	JAD38	B003879*17	BDC050FD	FD				40	46
SW8082	SW3520	NONE	WS	PCB	JAD38	B004035A*4	BDC051	N		48	40		
SW8082	SW3550	NONE	SE	PCB	JAD40	B004035*15	BDC052	N				37	41
SW8082	SW3520	NONE	WS	PCB	JAD38	B004035A*3	BDC053FD	FD		48	48		
SW8082	SW3550	NONE	SE	PCB	JAD40	B004035*14	BDC054FD	FD				31	38
SW8082	SW3520	NONE	WS	PCB	JAD38	B004035A*5	BDC055	N		34	44		
SW8082	SW3550	NONE	SE	PCB	JAD40	B004035*16	BDC056	N				37	41
SW8082	SW3560	NONE	SE	PCB	JAD41	B004086*7	BDC058	N				34	48
SW8082	SW3520	NONE	WQ	PCB	JAD38	B003878A*1	BDC059FD	FD		72	38		
SW8082	SW3520	NONE	WQ	PCB	JAD38	B003878A*2	BDC060	N		76	50		
SW8082	SW3550	NONE	SE	PCB	JAD41	B004086*8	BDC063	N				38	64
SW8082	SW3540	NONE	SE	PCB	JAD41	B00412[illegible]*4	BDC065	N				42	62

3 10 .454

Analytical Method	Preparation Method	Leach Method	Matrix	Parameter Class	SDG	Lab Sample ID	Sample ID	Sample Type	LR Type	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
SW8082	SW3550	NONE	SE	PCB	JAD41	B004086*9	BDC087	N				37	48								
SW8082	SW3550	NONE	SE	PCB	JAD41	B004086*10	BDC089	N				35	48								
SW8082	SW3550	NONE	SE	PCB	JAD41	B004126*5	BDC071	N				40	50								
SW8082	SW3510	NONE	WQ	PCB	J2001241	J2001241-005	BDD003EB	EB		35											
SW8082	SW3510	NONE	WQ	PCB	J2001298	J2001298-015	BDD014AB	AB		73											
SW8082	SW3550	NONE	SS	PCB	JAD64	B005377*1	BDD108	N				84	87								
SW8082	SW3550	NONE	SS	PCB	JAD64	B005377*2	BDD129	N				61	72								
SW8082	SW3550	NONE	SS	PCB	JAD64	B005377*3	BDD143	N				44	48								
SW8082	SW3520	NONE	WQ	PCB	JAD64	B005377*6	BDD145EB	EB		90	40										
SW8082	SW3550	NONE	SS	PCB	JAD64	B005418*1	BDD155	N				42	54								
SW8082	SW3550	NONE	SS	PCB	JAD64	B005418*2	BDD159FD	FD				61	72								
SW8082	SW3550	NONE	SS	PCB	JAD64	B005418*3	BDD167	N				44	61								
SW8082	SW3550	NONE	SS	PCB	JAD64	B005418*4	BDD179	N				70	78								
SW8082	SW3550	NONE	SS	PCB	JAD64	B005418*5	BDD186	N				51	62								
SW8082	SW3550	NONE	SS	PCB	JAD64	B005418*10	BDD189	N				53	68								
SW8082	SW3550	NONE	SS	PCB	JAD64	B005418*8	BDD194FD	FD				39	44								
SW8082	SW3550	NONE	SS	PCB	JAD64	B005418*7	BDD200	N				63	61								
SW8082	SW3520	NONE	WQ	PCB	JAD64	B005418*11	BDD201EB	EB		84	38										
SW8082	SW3550	NONE	SS	PCB	JAD88	B005454*1	BDD211	N				53	76								
SW8082	SW3550	NONE	SS	PCB	JAD88	B005454*2	BDD221	N				44	47								
SW8082	SW3550	NONE	SS	PCB	JAD88	B005454*3	BDD231	N				40	58								
SW8082	SW3550	NONE	SS	PCB	JAD88	B005454*4	BDD241	N				37	44								
SW8082	SW3550	NONE	SS	PCB	JAD88	B005454*5	BDD262	N				48	78								
SW8082	SW3550	NONE	SS	PCB	JAD64	B005377*4	BDE357	N				67	78								
SW8082	SW3550	NONE	SS	PCB	JAD64	B005377*5	BDE362	N				25	28								
SW8082	SW3550	NONE	SS	PCB	JAD64	B005377*5*RE	BDE362RE	LR	RE			34	44								
SW8260	SW5030	NONE	WQ	VOC	J2001175	J2001175-001	BDA024TB	TB						94	124	96	108				
SW8260	SW5030	NONE	WQ	VOC	J2001218	J2001218-001	BDA025TB	TB						98	130	98	108				
SW8260	SW5030	NONE	WQ	VOC	J2001275	J2001275-001	BDA026TB	TB						96	124	96	108				
SW8260	SW5030	NONE	WQ	VOC	J2001298	J2001298-001	BDA027TB	TB										98	124	98	108
SW8260	SW5030	NONE	WQ	VOC	J2001318	J2001318-001	BDA028TB	TB						96	122	98	108				
SW8260	SW5030	NONE	WQ	VOC	J2001328	J2001328-001	BDA029TB	TB						100	118	98	104				
SW8260	SW5030	NONE	WQ	VOC	J2001384	J2001384-001	BDA030TB	TB						100	120	98	104				
SW8260	SW5030	NONE	WQ	VOC	J2001384	J2001384-001	BDA031TB	TB						98	120	96	108				
SW8260	SW5030	NONE	WQ	VOC	J2001384	J2001384-002	BDA032TB	TB						100	118	98	108				
SW8260	SW5030	NONE	WQ	VOC	J2001434	J2001434-001	BDA033TB	TB						92	124	96	116				
SW8260	SW5030	NONE	WQ	VOC	J2001481	J2001481-001	BDA034TB	TB						94	118	96	120				
SW8260	SW5035	NONE	SS	VOC	J2001143	J2001143-001	BDA054	N										108	106	98	98
SW8260	SW5035	NONE	SB	VOC	J2001143	J2001143-002	BDA055	N										97	115	98	101
SW8260	SW5030	NONE	WQ	VOC	J2001143	J2001143-004	BDA057TB	TB						94	124	96	108				
SW8260	SW5035	NONE	SS	VOC	J2001175	J2001175-004	BDA082	N										114	112	100	100
SW8260	SW5035	NONE	SB	VOC	J2001175	J2001175-005	BDA083	N										110	112	101	100
SW8260	SW5035	NONE	SB	VOC	J2001175	J2001175-008	BDA084FD	FD										109	111	98	102
SW8260	SW5035	NONE	SB	VOC	J2001175	J2001175-007	BDA085	N										111	111	100	100
SW8260	SW5035	NONE	SB	VOC	J2001218	J2001218-005	BDA111	N										111	113	100	102
SW8260	SW5035	NONE	SS	VOC	J2001275	J2001275-002	BDA171	N										110	108	100	98
SW8260	SW5035	NONE	SB	VOC	J2001275	J2001275-003	BDA172	N										108	81	96	80
SW8260	SW5035	NONE	SB	VOC	J2001275	J2001275-004	BDA173	N										107	104	94	98
SW8260	SW5035	NONE	SS	VOC	J2001298	J2001298-002	BDA187	N										109	115	100	100
SW8260	SW5035	NONE	SB	VOC	J2001298	J2001298-003	BDA188	N										104	109	98	98
SW8260	SW5035	NONE	SS	VOC	J2001318	J2001318-002	BDA203	N										103	106	98	98
SW8260	SW5035	NONE	SB	VOC	J2001318	J2001318-003	BDA208	N										111	104	98	98
SW8260	SW5030	NONE	WQ	VOC	J2001318	J2001318-004	BDA223EB	EB						96	122	98	108				
SW8260	SW5035	NONE	SS	VOC	J2001328	J2001328-002	BDA227	N										118	114	102	103
SW8260	SW5035	NONE	SB	VOC	J2001328	J2001328-003	BDA228	N										108	108	98	97
SW8260	SW5035	NONE	SS	VOC	J2001384	J2001384-004	BDA267	N										108	109	98	98
SW8260	SW5035	NONE	SB	VOC	J2001384	J2001384-005	BDA268	N										112	108	98	100
SW8260	SW5035	NONE	SB	VOC	J2001384	J2001384-006	BDA269	N										127	131	116	116
SW8260	SW5035	NONE	SS	VOC	J2001384	J2001384-003	BDA278	N										107	110	100	100
SW8260	SW5035	NONE	SB	VOC	J2001384	J2001384-004	BDA279	N										116	111	104	100
SW8260	SW5035	NONE	SB	VOC	J2001384	J2001384-004R	BDA279R	LR	RE									80	111	102	110
SW8260	SW5035	NONE	SB	VOC	J2001384	J2001384-006	BDA280FD	FD										111	109	100	98
SW8260	SW5035	NONE	SB	VOC	J2001384	J2001384-006R	BDA280FDR	LR	RE									78	163	92	118
SW8260	SW5035	NONE	SB	VOC	J2001384	J2001384-007	BDA285	N										114	118	102	107
SW8260	SW5035	NONE	SB	VOC	J2001384	J2001384-007R	BDA285R	LR	RE									88	109	94	107
SW8260	SW5035	NONE	SB	VOC	J2001434	J2001434-002	BDA336	N										102	109	94	102
SW8260	SW5035	NONE	SS	VOC	J2001434	J2001434-002R	BDA336R	LR	RE									100	110	100	104
SW8260	SW5035	NONE	SB	VOC	J2001434	J2001434-003	BDA337	N										104	109	100	125
SW8260	SW5035	NONE	SB	VOC	J2001434	J2001434-003R	BDA337R	LR	RE									98	110	98	108
SW8260	SW5035	NONE	SB	VOC	J2001434	J2001434-004	BDA338	N										102	115	98	108
SW8260	SW5035	NONE	SB	VOC	J2001434	J2001434-004R	BDA338R	LR	RE									82	111	100	108
SW8260	SW5035	NONE	SS	VOC	J2001481	J2001481-002	BDA365	N										105	118	98	105
SW8260	SW5035	NONE	SS	VOC	J2001481	J2001481-002R	BDA365R	LR	RE									111	116	102	105
SW8260	SW5035	NONE	SS	VOC	J2001481	J2001481-003	BDA366FD	FD										108	121	100	106
SW8260	SW5035	NONE	SS	VOC	J2001481	J2001481-003R	BDA366FDR	LR	RE									108	112	100	108
SW8260	SW5035	NONE	SB	VOC	J2001481	J2001481-004	BDA367	N										108	115	98	104
SW8260	SW5035	NONE	SB	VOC	J2001481	J2001481-004R	BDA367R	LR	RE									104	113	98	104
SW8260	SW5035	NONE	SS	VOC	J2001481	J2001481-005	BDA371	N										100	112	98	104
SW8260	SW5035	NONE	SS	VOC	J2001481	J2001481-005R	BDA371R	LR	RE									108	112	102	104
SW8260	SW5035	NONE	SB	VOC	J2001481	J2001481-006	BDA372	N										105	137	100	110
SW8260	SW5035	NONE	SB	VOC	J2001481	J2001481-006R	BDA372R	LR	RE									104	131	104	111
SW8260	SW5035	NONE	SB	VOC	J2001481	J2001481-007	BDA373FD	FD										105	151	98	118
SW8260	SW5035	NONE	SB	VOC	J2001481	J2001481-007R	BDA373FDR	LR	RE									108	138	103	113
SW8260	SW5030	NONE	WQ	VOC	J2001481	J2001481-008	BDA378EB	EB						98	124	102	120				
SW8260	SW5030	NONE	WQ	VOC	J2001481	J2001481-009	BDA380EB	EB						82	120	98	118				
SW8260	SW5030	NONE	WQ	VOC	J2001481	J2001481-010	BDB787AB	AB						82	122	98	118				
SW8260	SW5030	NONE	WQ	VOC	J2001857	J2001857-001	BDC015FD	FD						90	118	98	108				
SW8260	SW5030	NONE	WQ	VOC	J2001808	J2001808-001	BDC027EB	EB						84	120	98	108				
SW8260	SW5030	NONE	WQ	VOC	J2001821	J2001821-001	BDC028	N						80	118	98	108				
SW8260	SW5030	NONE	WQ	VOC	J2001821	J2001821-002	BDC029	N						88	118	98	108				
SW8260	SW5030	NONE	WQ	VOC	J2001857	J2001857-003	BDC031	N						90	130	100	110				
SW8260	SW5030	NONE	WS	VOC	JAD38	B003879A*3	BDC039	N							94	74	96				
SW8260	SW5035	NONE	SE	VOC	JAD38	B003879*18	BDC040	N											94	96	96
SW8260	SW5030	NONE	WQ	VOC	JAD38	B003879A*9	BDC041TB	TB							80	70	82				
SW8260	SW5030	NONE	WQ	VOC	JAD38	B003879A*10	BDC042TB	TB							82	70	84				
SW8260	SW5030	NONE	WQ	VOC	JAD38	B003879A*7	BDC047EB	EB							80	72	84				
SW8260	SW5030	NONE	WQ	VOC	JAD38	B003879A*5	BDC048EB	EB							82	72	82				
SW8260	SW5030	NONE	WS	VOC	JAD38	B003879A*4	BDC049FD	FD							82	74	86				
SW8260	SW5035	NONE	SE	VOC	JAD38	B003879*17	BDC050FD	FD											92	100	86

3 10 0455

Analytical Method	Preparation Method	Leach Method	Matrix	Parameter Class	SDG	Lab Sample ID	Sample ID	Sample Type	QA Type			
SW8260	SW5030	NONE	WS	VOC	JAD38	B004035A*4	BDC051	N		[illegible] 84 94		
SW8260	SW5035	NONE	SE	VOC	JAD40	B004035*15	BDC052	N		[illegible] 104 [illegible]		
SW8260	SW5030	NONE	WO	VOC	JAD38	B004035A*8	BDC061TB	TB		78 70 84		
SW8260	SW5030	NONE	WS	VOC	JAD42	B004128A*3	BDC070	N		94 82 104		
SW8260	SW5035	NONE	SE	VOC	JAD41	B004128*5	BDC071	N		87 94 83		
SW8260	SW5030	NONE	WO	VOC	JAD42	B004128A*4	BDC072TB	TB		94 87 108		
SW8260	SW5030	NONE	WO	VOC	J2001241	J2001241-005	BDD003EB	EB		[illegible] 120 [illegible] 108		
SW8260	SW5035	NONE	WO	VOC	J2001298	J2001298-015	BDD014AB	AB		[illegible] 124 [illegible] 108		
SW8270	SW3550	NONE	SS	SVOC	J2001143	J2001143-001	BDA054	N				56 84 74 83 79 74
SW8270	SW3550	NONE	SB	SVOC	J2001143	J2001143-002	BDA055	N				[illegible] 79 [illegible] [illegible] 74 [illegible]
SW8270	SW3550	NONE	SS	SVOC	J2001175	J2001175-004	BDA062	N				74 79 61 82 61 65
SW8270	SW3550	NONE	SB	SVOC	J2001175	J2001175-005	BDA063	N				76 80 65 55 [illegible] 70
SW8270	SW3550	NONE	SB	SVOC	J2001175	J2001175-006	BDA064FD	FD				[illegible] 76 67 57 71 67
SW8270	SW3550	NONE	SB	SVOC	J2001175	J2001175-007	BDA065	N				[illegible] 85 80 80 [illegible] 80
SW8270	SW3510	NONE	WO	SVOC	J2001188	J2001188-001	BDA089EB	EB			62 [illegible] 36 [illegible] 24 84	
SW8270	SW3550	NONE	SB	SVOC	J2001218	J2001218-005	BDA111	N				57 76 48 52 43 67
SW8270	SW3550	NONE	SS	SVOC	J2001275	J2001275-002	BDA171	N				45 72 47 49 32 67
SW8270	SW3550	NONE	SB	SVOC	J2001275	J2001275-003	BDA172	N				80 80 75 80 75 70
SW8270	SW3550	NONE	SB	SVOC	J2001175	J2001275-004	BDA173	N				74 76 74 79 79 64
SW8270	SW3550	NONE	SS	SVOC	J2001298	J2001298-002	BDA187	N				72 78 67 56 67 67
SW8270	SW3550	NONE	SB	SVOC	J2001298	J2001298-003	BDA188	N				74 79 [illegible] 83 [illegible] 83
SW8270	SW3510	NONE	WO	SVOC	J2001298	J2001298-008	BDA187EB	EB			84 84 44 [illegible] 29 [illegible]	
SW8270	SW3550	NONE	SS	SVOC	J2001318	J2001318-002	BDA202	N				83 [illegible] 76 67 83 78
SW8270	SW3550	NONE	SB	SVOC	J2001318	J2001318-003	BDA208	N				55 [illegible] 90 60 38 60
SW8270	SW3550	NONE	SS	SVOC	J2001328	J2001328-002	BDA227	N				[illegible] [illegible] 76 83 83 78
SW8270	SW3550	NONE	SB	SVOC	J2001328	J2001328-003	BDA228	N				100 82 78 61 61 61
SW8270	SW3550	NONE	SS	SVOC	J2001384	J2001384-004	BDA267	N				108 84 82 70 82 76
SW8270	SW3550	NONE	SB	SVOC	J2001384	J2001384-005	BDA268	N				79 79 [illegible] 83 [illegible] 74
SW8270	SW3550	NONE	SB	SVOC	J2001384	J2001384-006	BDA269	N				84 94 94 100 100 108
SW8270	SW3550	NONE	SS	SVOC	J2001384	J2001384-003	BDA278	N				83 83 61 72 72 78
SW8270	SW3550	NONE	SB	SVOC	J2001384	J2001384-004	BDA279	N				67 87 82 82 82 82
SW8270	SW3550	NONE	SB	SVOC	J2001384	J2001384-005	BDA280FD	FD				100 [illegible] [illegible] [illegible] 80 81
SW8270	SW3550	NONE	SB	SVOC	J2001384	J2001384-007	BDA286	N				[illegible] 83 78 72 72 72
SW8270	SW3550	NONE	SS	SVOC	J2001434	J2001434-002	BDA336	N				100 94 82 76 [illegible] 76
SW8270	SW3550	NONE	SB	SVOC	J2001434	J2001434-003	BDA337	N				106 96 84 79 84 79
SW8270	SW3550	NONE	SB	SVOC	J2001434	J2001434-004	BDA339	N				100 [illegible] 71 67 81 78
SW8270	SW3510	NONE	WO	SVOC	J2001454	J2001454-001	BDA364EB	EB			[illegible] [illegible] 44 80 28 80	
SW8270	SW3550	NONE	SS	SVOC	J2001481	J2001481-002	BDA365	N				0 0 0 0 0 0
SW8270	SW3550	NONE	SS	SVOC	J2001481	J2001481-003	BDA366FD	FD				0 0 0 0 0 0
SW8270	SW3550	NONE	SB	SVOC	J2001481	J2001481-004	BDA367	N				65 80 80 80 80 80
SW8270	SW3550	NONE	SS	SVOC	J2001481	J2001481-005	BDA371	N				76 76 38 74 53 83
SW8270	SW3550	NONE	SB	SVOC	J2001481	J2001481-006	BDA372	N				0 0 0 0 0 0
SW8270	SW3550	NONE	SB	SVOC	J2001481	J2001481-007	BDA373FD	FD				0 0 0 0 0 0
SW8270	SW3550	NONE	SB	SVOC	J2001275	J2001275-008	BDB273	N				[illegible] 83 72 67 76 72
SW8270	SW3550	NONE	SB	SVOC	J2001328	J2001328-004	BDB417	N				82 82 76 79 79 75
SW8270	SW3550	NONE	SS	SVOC	J2001328	J2001328-005	BDB418FD	FD				[illegible] 94 67 76 61 78
SW8270	SW3510	NONE	WO	SVOC	J2001328	J2001328-006	BDB433EB	EB			80 84 48 [illegible] 30 90	
SW8270	SW3550	NONE	SS	SVOC	J2001423	J2001423-001	BDB823	N				100 [illegible] 76 72 83 78
SW8270	SW3550	NONE	SS	SVOC	J2001454	J2001454-002	BDB893	N				0 0 0 0 0 0
SW8270	SW3550	NONE	SB	SVOC	J2001454	J2001454-002R	BDB893R	LR	RE			67 72 72 36 72 [illegible]
SW8270	SW3510	NONE	WO	SVOC	J2001481	J2001481-010	BDB797AB	AB			84 [illegible] 42 80 28 80	
SW8270	SW3550	NONE	SS	SVOC	J2001517	J2001517-001	BDB871	N				[illegible] 83 72 72 76 72
SW8270	SW3550	NONE	SS	SVOC	JAD57	B00447*8	BDB889	N				36 38 30 29 33 44
SW8270	SW3550	NONE	SS	SVOC	JAD62	B004517*6	BDB945	N				38 40 33 28 33 43
SW8270	SW3520	NONE	WO	SVOC	JAD62	B004517*8	BDB970EB	EB			78 70 [illegible] 70 77 [illegible]	
SW8270	SW3550	NONE	SS	SVOC	JAD77	B005110*1	BDB983	N				[illegible] 48 47 40 47 48
SW8270	SW3510	NONE	WO	SVOC	J2001298	J2001298-014	BDC010	N			[illegible] [illegible] 42 [illegible] 26 82	
SW8270	SW3510	NONE	WO	SVOC	J2001517	J2001517-002	BDC014FD	FD			82 80 44 [illegible] 28 94	
SW8270	SW3510	NONE	WO	SVOC	J2001857	J2001857-001	BDC015FD	FD			80 [illegible] 44 80 28 104	
SW8270	SW3510	NONE	WO	SVOC	J2001517	J2001517-003	BDC016	N			82 84 46 84 26 82	
SW8270	SW3510	NONE	WO	SVOC	J2001517	J2001517-004	BDC017EB	EB			84 [illegible] 42 [illegible] [illegible] [illegible]	
SW8270	SW3510	NONE	WO	SVOC	J2001517	J2001517-006	BDC018	N			[illegible] [illegible] 44 [illegible] 30 [illegible]	
SW8270	SW3510	NONE	WO	SVOC	J2001517	J2001517-008	BDC019	N			[illegible] 76 36 72 24 [illegible]	
SW8270	SW3510	NONE	WO	SVOC	J2001547	J2001547-001	BDC020	N			78 80 38 80 24 [illegible]	
SW8270	SW3510	NONE	WO	SVOC	J2001547	J2001547-002	BDC021	N			[illegible] 84 42 84 26 100	
SW8270	SW3510	NONE	WO	SVOC	J2001579	J2001579-001	BDC022	N			80 82 42 [illegible] 26 104	
SW8270	SW3510	NONE	WO	SVOC	J2001579	J2001579-002	BDC024	N			82 82 38 80 24 84	
SW8270	SW3510	NONE	WO	SVOC	J2001579	J2001579-003	BDC025	N			84 82 40 82 26 [illegible]	
SW8270	SW3510	NONE	WO	SVOC	J2001579	J2001579-004	BDC026	N			80 [illegible] 34 [illegible] 27 [illegible]	
SW8270	SW3510	NONE	WO	SVOC	J2001808	J2001808-001	BDC027EB	EB			80 80 50 80 32 [illegible]	
SW8270	SW3510	NONE	WO	SVOC	J2001821	J2001821-001	BDC028	N			84 82 80 84 37 102	
SW8270	SW3510	NONE	WO	SVOC	J2001821	J2001821-002	BDC029	N			82 80 44 [illegible] 26 102	
SW8270	SW3510	NONE	WO	SVOC	J2001857	J2001857-002	BDC030	N			80 82 44 82 28 102	
SW8270	SW3510	NONE	WO	SVOC	J2001857	J2001857-003	BDC031	N			80 82 44 80 [illegible] 100	
SW8270	SW3520	NONE	WO	SVOC	JAD31	B003808A*3	BDC032	N			91 84 84 76 87 34	
SW8270	SW3520	NONE	WS	SVOC	JAD38	B003840A*4	BDC033	N			72 78 73 70 [illegible] 36	
SW8270	SW3550	NONE	SE	SVOC	JAD35	B003840*14	BDC034	N				62 [illegible] 84 82 48 48
SW8270	SW3520	NONE	WS	SVOC	JAD38	B003840A*5	BDC035	N			78 71 74 [illegible] [illegible] 38	
SW8270	SW3550	NONE	SE	SVOC	JAD35	B003840*15	BDC036	N				87 [illegible] [illegible] 82 [illegible] [illegible]
SW8270	SW3520	NONE	WO	SVOC	JAD38	B003840A*2	BDC037EB	EB			74 61 73 70 [illegible] 73	
SW8270	SW3520	NONE	WO	SVOC	JAD38	B003840A*3	BDC038EB	EB			81 71 80 76 76 70	
SW8270	SW3520	NONE	WS	SVOC	JAD38	B003878A*3	BDC039	N			91 [illegible] [illegible] 76 81 60	
SW8270	SW3550	NONE	SE	SVOC	JAD38	B003878*18	BDC040	N				81 [illegible] 80 40 80 [illegible]
SW8270	SW3520	NONE	WS	SVOC	JAD38	B003878A*5	BDC043	N			63 [illegible] 94 [illegible] [illegible] 80	
SW8270	SW3550	NONE	SE	SVOC	JAD38	B003878*19	BDC044	N				82 67 60 84 60 79
SW8270	SW3520	NONE	WS	SVOC	JAD38	B003878A*6	BDC045	N			82 94 87 [illegible] 87 42	
SW8270	SW3550	NONE	SE	SVOC	JAD38	B003878*20	BDC046	N				87 [illegible] 84 84 61 73
SW8270	SW3520	NONE	WO	SVOC	JAD38	B003878A*7	BDC047EB	EB			[illegible] 100 100 90 91 90	
SW8270	SW3520	NONE	WO	SVOC	JAD38	B003878A*8	BDC048EB	EB			80 100 100 [illegible] [illegible] 84	
SW8270	SW3520	NONE	WS	SVOC	JAD38	B003878A*4	BDC049FD	FD			84 [illegible] [illegible] 84 87 40	
SW8270	SW3550	NONE	SE	SVOC	JAD38	B003878*17	BDC050FD	FD				44 39 32 38 32 46
SW8270	SW3520	NONE	WS	SVOC	JAD38	B004035A*4	BDC051	N			91 [illegible] 84 84 84 38	
SW8270	SW3550	NONE	SE	SVOC	JAD40	B004035*15	BDC052	N				81 90 83 90 [illegible] 84
SW8270	SW3520	NONE	WS	SVOC	JAD38	B004035A*3	BDC053FD	FD			97 [illegible] 82 84 84 32	
SW8270	SW3550	NONE	SE	SVOC	JAD40	B004035*14	BDC054FD	FD				60 84 [illegible] 80 [illegible] 80
SW8270	SW3520	NONE	WS	SVOC	JAD38	B004035A*5	BDC055	N			82 84 84 78 72 32	
SW8270	SW3550	NONE	SE	SVOC	JAD40	B004035*18	BDC056	N				45 84 80 80 40 80
SW8270	SW3520	NONE	WS	SVOC	JAD42	B004088A*1	BDC057	N			80 70 [illegible] 82 81 70	
SW8270	SW3550	NONE	SE	SVOC	JAD41	B004088*7	BDC058	N				[illegible] 87 81 82 40 82

310 0456

Analytical Method	Preparation Method	Leach Method	Matrix	Parameter Class	SDG	Lab Sample ID	Sample ID	Sample Type	LR Type																												
SW8270	SW3520	NONE	WS	SVOC	JAD42	S004084A*2	BDC082	N		100	80	88	82	79	84																						
SW8270	SW3550	NONE	SE	SVOC	JAD41	S004084*6	BDC083	N								29	28	25	34	25	31																
SW8270	SW3550	NONE	SE	SVOC	JAD41	S004084*6*RE	BDC083RE	LR	RE							30	46	29	33	38	46																
SW8270	SW3520	NONE	WS	SVOC	JAD43	S004128A*2	BDC084	N		100	82	86	84	63	96																						
SW8270	SW3550	NONE	SE	SVOC	JAD41	S004128*4	BDC086	N								61	62	46	46	46	57																
SW8270	SW3520	NONE	WS	SVOC	JAD42	S004084A*3	BDC088	N		83	78	78	78	74	84																						
SW8270	SW3550	NONE	SE	SVOC	JAD41	S004084*9	BDC087	N								56	57	53	52	46	57																
SW8270	SW3520	NONE	WS	SVOC	JAD42	S004084A*4	BDC068	N		100	84	88	84	78	48																						
SW8270	SW3550	NONE	SE	SVOC	JAD41	S004084*10	BDC069	N								84	84	82	88	84	88																
SW8270	SW3520	NONE	WS	SVOC	JAD42	S004128A*3	BDC070	N		100	82	88	88	84	58																						
SW8270	SW3550	NONE	SE	SVOC	JAD41	S004128*5	BDC071	N								44	37	31	31	31	42																
SW8270	SW3510	NONE	WQ	SVOC	J2001241	J2001241-005	BDD003EB	EB		88	84	48	88	30	84																						
SW8270	SW3510	NONE	WQ	SVOC	J2001298	J2001298-015	BDD014AB	AB		78	88	42	88	28	80																						
SW8270	SW3550	NONE	SS	SVOC	JAD64	S005377*1	BDD108	N								43	47	36	42	38	67																
SW8270	SW3550	NONE	SS	SVOC	JAD64	S005377*2	BDD129	N								58	72	58	67	61	63																
SW8270	SW3550	NONE	SS	SVOC	JAD64	S005377*3	BDD143	N								88	78	51	67	88	63																
SW8270	SW3520	NONE	WQ	SVOC	JAD64	S005377*8	BDD145EB	EB		88	88	88	98	88	108																						
SW8270	SW3550	NONE	SS	SVOC	JAD64	S005416*1	BDD155	N								83	87	57	61	57	78																
SW8270	SW3550	NONE	SS	SVOC	JAD64	S005416*2	BDD159FD	FD								51	54	46	61	48	67																
SW8270	SW3550	NONE	SS	SVOC	JAD64	S005416*3	BDD167	N								64	72	61	67	61	82																
SW8270	SW3550	NONE	SS	SVOC	JAD64	S005416*4	BDD178	N								47	47	38	40	38	88																
SW8270	SW3550	NONE	SS	SVOC	JAD64	S005416*5	BDD188	N								43	80	48	47	48	58																
SW8270	SW3550	NONE	SS	SVOC	JAD64	S005416*10	BDD189	N								45	63	47	58	50	74																
SW8270	SW3550	NONE	SS	SVOC	JAD64	S005416*6	BDD194FD	FD								55	58	47	63	80	68																
SW8270	SW3550	NONE	SS	SVOC	JAD64	S005416*7	BDD200	N								62	72	54	67	58	78																
SW8270	SW3520	NONE	WQ	SVOC	JAD64	S005416*11	BDD201EB	EB		88	82	88	88	85	112																						
SW8270	SW3550	NONE	SS	SVOC	JAD68	S005454*1	BDD211	N								34	47	40	44	40	37																
SW8270	SW3550	NONE	SS	SVOC	JAD68	S005454*2	BDD221	N								43	50	43	47	48	58																
SW8270	SW3550	NONE	SS	SVOC	JAD68	S005454*3	BDD231	N								44	62	47	80	80	58																
SW8270	SW3550	NONE	SS	SVOC	JAD68	S005454*4	BDD241	N								38	46	38	42	42	61																
SW8270	SW3550	NONE	SS	SVOC	JAD68	S005454*5	BDD262	N								46	68	46	51	51	67																
SW8270	SW3550	NONE	SS	SVOC	JAD64	S005377*4	BDE357	N								58	78	58	67	65	68																
SW8270	SW3550	NONE	SS	SVOC	JAD64	S005377*5	BDE382	N								57	56	51	58	61	74																
SW8290	METHOD	NONE	SS	DIOXINS	E2000100	E2000100-001	BDA054	N														82.4	81.8	81.4	78.2	87.1	74.1	88.7	73.9	84.4	87.8	71.2	72.3	72.8	84.2	74.4	82.5
SW8290	METHOD	NONE	SB	DIOXINS	E2000100	E2000100-002	BDA055	N														38.2	42.5	48.4	61.4	62.6	77.7	62.4	70.4	43.2	38.5	63	63.1	108.8	87.6	100.2	27.5
SW8290	METHOD	None	SS	DIOXINS	E2000110	E2000110-001	BDA082	N														46	52.8	53.4	80	88.1	75.5	84.1	88.4	43.6	48.2	87.6	54.4	71.3	68.1	85.6	38
SW8290	METHOD	None	SB	DIOXINS	E2000110	E2000110-002	BDA083	N														48.2	61.8	58.1	62.7	94.6	78.2	98.2	82.3	47.1	55.2	88.3	54.1	77.2	74.4	80.9	41.8
SW8290	METHOD	None	SB	DIOXINS	E2000110	E2000110-003	BDA084FD	FD														51.3	59.4	62	62.3	75.2	84.5	66.3	74	80.1	80.8	72.1	80.7	80.8	80.2	84.7	48.8
SW8290	METHOD	None	SB	DIOXINS	E2000110	E2000110-004	BDA085	N														68.8	68.8	75.1	91.8	88.5	78.6	69.5	81.5	75.2	88.2	84.6	84.3	74.6	74.6	92.4	90.9
SW8290	METHOD	NONE	WQ	DIOXINS	E2000117	E2000117-001	BDA088EB	EB														74	77.8	65	88.4	80.3	88.8	97	78.7	79.8	78.7	88.7	65	80	63.3	58.3	31
SW8290	METHOD	NONE	SB	DIOXINS	E2000146	E2000146-001	BDA337	N														139.3	123.9	130.1	226.7	250.8	231.5	211.7	188.2	50.7	43.8	188.4	38	54.4	38.8	24.7	83.2
SW8290	METHOD	NONE	SB	DIOXINS	E2000146	E2000146-001-DL	BDA337-DL	LR	DL													0	0	0	0	0	0	0	0	0	0	0	0	0	24.6	0	0
SW8290	METHOD	NONE	SS	DIOXINS	E2000133	E2000133-001	BDB273	N														53.4	80.2	57.8	88.5	90.6	73.8	93.2	90.5	88.8	78.6	81.6	88.5	78.2	87.1	84.7	25.8
SW8290	METHOD	NONE	SS	DIOXINS	E2000140	E2000140-001	BDB417	N														82.7	54.8	54.9	77.2	77.5	67.7	62.3	74.2	61.5	71.5	71.2	81.6	74.6	52.8	82.6	47
SW8290	METHOD	NONE	SS	DIOXINS	E2000140	E2000140-002	BDB418FD	FD														60.1	58.6	70.9	80.6	80.8	67.8	82.1	66.6	74.5	70.8	71.8	76.7	73.7	49.7	88.6	38.8
SW8290	METHOD	NONE	WQ	DIOXINS	E2000140	E2000140-003	BDB433EB	EB														88.3	86.2	88.7	94.3	88.4	67.2	84	88.2	83.4	88.4	82.8	80.5	85.4	58.6	72.6	52.2
SW8290	METHOD	NONE	SS	DIOXINS	E2000145	E2000145-001	BDB823	N														80.2	62.7	88.2	87	87.2	78	84	81.5	73.4	88	84.7	88.4	74.2	49.1	71.8	28.8
SW8290	METHOD	NONE	SS	DIOXINS	E2000148	E2000148-001	BDB880	N														41	42	37.3	58.4	63.1	60.3	65.4	58.8	47.1	40.2	42.2	40.2	48.8	34.3	38.6	22
SW8290	METHOD	NONE	WQ	DIOXINS	E2000151	E2000151-001	BDB787AB	AB														71.8	71.8	73.2	78.5	67.8	61.7	61.4	58.4	79.4	74.6	69.6	83.8	87.9	56.3	85.2	57.4
SW8290	METHOD	NONE	SS	DIOXINS	E2000153	E2000153-001	BDB871	N														79.5	83.7	84.8	81.8	80.1	88.1	82.9	91.2	87.7	94.8	88.5	102.7	87.1	48.1	83.8	57.7
SW8290	METHOD	NONE	SS	DIOXINS	E2000220	E2000220-001	BDB880	N														101.08	85.78			141.48	132.73			78.78	78.12			84.23	82.86	84.37	68.3
SW8290	METHOD	NONE	SS	DIOXINS	E2000223	E2000223-001A	BDB945	N														68.45	67.88			82.11	94.63			112.28	108.08			102.88	88.28	101.41	38.25
SW8290	METHOD	NONE	SS	DIOXINS	J2002524	E2000245-001	BDB983	N														82.71	53.15			58.78	73.34			80.57	75.44			88.34		72.75	38.00
SW8290	METHOD	NONE	WQ	DIOXINS	E2000171	E2000171-001	BDC015FD	FD														95.5	88.8	101.3	107.9	102.9	100.1	104	110.4	85.8	84.4	118	80.5	94.7	84.2	88.2	87.8
SW8290	METHOD	NONE	WQ	DIOXINS	E2000156	E2000156-001	BDC082	N														63.8	64	71.7	63.9	63.7	68.7	84	70	75.3	74.5	65.7	75.4	63	54	60.3	87.4
SW8290	METHOD	NONE	WQ	DIOXINS	E2000184	E2000184-001	BDC027EB	EB														230.8	138.5	224.8	183.1	175.1	211.5	188.4	197.4	127.3	98.7	185.1	103.1	84.7	85	65.5	202.8
SW8290	METHOD	NONE	WQ	DIOXINS	E2000188	E2000188-001	BDC028	N														86.4	88.4	88.5	106.8	84.7	100.8	87.2	114.8	87.7	88.8	107.7	83.8	100.2	94.7	91.1	70
SW8290	METHOD	NONE	WQ	DIOXINS	E2000188	E2000188-002	BDC029	N														74.4	78.8	84.1	84.1	82.9	84.5	78.8	98.7	87.5	78	80.4	81.5	88.7	70.8	78.7	60.8
SW8290	METHOD	NONE	WQ	DIOXINS	E2000171	E2000171-002	BDC031	N														88.4	83.7	110.3	112.2	119.3	114.2	112.9	114.7	75.2	83.4	120.9	85.3	91.1	58.8	78.7	77.8
SW8290	METHOD	NONE	WQ	DIOXINS	E2000128	E2000128-001	BDD003EB	EB														80.7	80.1	52.4	72.7	68.1	70	68.5	58	85.4	52.6	61.3	48.8	58.8	51.7	43.8	37.4
SW8290	METHOD	NONE	WQ	DIOXINS	E2000132	E2000132-001	BDD014AB	AB														63.3	83.1	84.9	103.8	100.8	88.8	88.1	102.8	80.2	62.2	104.5	74.3	81.4	55.2	88.8	87.8
SW8290	METHOD	NONE	SS	DIOXINS	E2000254	E2000254-001	BDD156	N														62.48	64.4			82.78	63.38			88.43	88.91			88.44		52.24	41.86
SW8290	METHOD	NONE	SS	DIOXINS	E2000254	E2000254-002	BDD159FD	FD														73.77	77.45			88.32	62.28			78.51	78.21			72.00		53.58	52.88
SW8290	METHOD	NONE	WQ	DIOXINS	E2000254	E2000254-003A	BDD201EB	EB														53.58	51.57			73.88	80.12			84.43	67.88			63.88		58.42	30.87

3 10 0457

Table 9 - MSMSD Limits

3 10 C458

Parameter Class	Analytical Method	Parameter	Water Limits	Soil Limits
		STL Savannah		
GC/MS VOC	SW8260	1,1-DICHLOROETHENE	46-147	40-164
GC/MS VOC	SW8260	TRICHLOROETHYLENE (TCE)	56-143	51-146
GC/MS VOC	SW8260	BENZENE	62-135	49-142
GC/MS VOC	SW8260	TOLUENE	68-131	38-158
GC/MS VOC	SW8260	CHLOROBENZENE	72-127	66-135
SVOC	SW8270C	PHENOL	33-122	13-115
SVOC	SW8270C	2-CHLOROPHENOL	38-115	15-111
SVOC	SW8270C	1,4-DICHLOROBENZENE	27-130	10-105
SVOC	SW8270C	N-NITROSODI-n-PROPYLAMINE	31-138	11-122
SVOC	SW8270C	1,2,4-TRICHLOROBENZENE	28-110	10-112
SVOC	SW8270C	4-CHLORO-3-METHYPHENOL	34-126	24-114
SVOC	SW8270C	ACENAPHTHENE	36-121	18-123
SVOC	SW8270C	2,4-DINITROTOLUENE	37-129	11-120
SVOC	SW8270C	4-NITROPHENOL	12-143	15-118
SVOC	SW8270C	PENTACHLOROPHENOL	19-148	10-140
SVOC	SW8270C	PYRENE	31-139	10-133
Pest/PCB	SW8081A/8082	gamma-BHC (Lindane)	40-139	12-138
Pest/PCB	SW8081A/8082	HEPTACHLOR	37-148	17-138
Pest/PCB	SW8081A/8082	ALDRIN	38-129	10-144
Pest/PCB	SW8081A/8082	DIELDRIN	34-150	28-137
Pest/PCB	SW8081A/8082	ENDRIN	41-158	33-149
Pest/PCB	SW8081A/8082	4,4'-DDT	50-147	29-134
Pest/PCB	SW8081A/8082	AROCLOR-1016	45-134	34-138
Pest/PCB	SW8081A/8082	AROCLOR-1260	41-144	39-138
METALS	SW7471A	MERCURY	75-125	75-125
METALS	SW6010B	ALUMINUM	75-125	75-125
METALS	SW6010B	ANTIMONY	75-125	75-125
METALS	SW6010B	ARSENIC	75-125	75-125
METALS	SW6010B	BARIUM	75-125	75-125
METALS	SW6010B	BERYLLIUM	75-125	75-125
METALS	SW6010B	CADMIUM	75-125	75-125
METALS	SW6010B	CALCIUM	75-125	75-125
METALS	SW6010B	CHROMIUM, TOTAL	75-125	75-125
METALS	SW6010B	COBALT	75-125	75-125
METALS	SW6010B	COPPER	75-125	75-125
METALS	SW6010B	IRON	75-125	75-125
METALS	SW6010B	LEAD	75-125	75-125
METALS	SW6010B	MAGNESIUM	75-125	75-125
METALS	SW6010B	MANGANESE	75-125	75-125
METALS	SW6010B	NICKEL	75-125	75-125
METALS	SW6010B	POTASSIUM	75-125	75-125
METALS	SW6010B	SELENIUM	75-125	75-125
METALS	SW6010B	SILVER	75-125	75-125
METALS	SW6010B	SODIUM	75-125	75-125
METALS	SW6010B	THALLIUM	75-125	75-125
METALS	SW6010B	VANADIUM	75-125	75-125
METALS	SW6010B	ZINC	75-125	75-125
		CAS/JAX		
GC/MS VOC	SW8260	1,1-DICHLOROETHENE	75-113	50-150

Table 9 - MSMSD Limits

GC/MS VOC	SW8260	TRICHLOROETHYLENE (TCE)	70-110	65-135
GC/MS VOC	SW8260	BENZENE	77-117	35-155
GC/MS VOC	SW8260	TOLUENE	76-125	0-221
GC/MS VOC	SW8260	CHLOROBENZENE	81-115	70-140
SVOC	SW8270C	PHENOL	26-90	26-90
SVOC	SW8270C	2-CHLOROPHENOL	25-102	25-102
SVOC	SW8270C	1,4-DICHLOROBENZENE	18-190	18-190
SVOC	SW8270C	N-NITROSODI-n-PROPYLAMINE	46-126	46-126
SVOC	SW8270C	1,2,4-TRICHLOROBENZENE	30-150	50-150
SVOC	SW8270C	4-CHLORO-3-METHYPHENOL	26-103	26-103
SVOC	SW8270C	ACENAPHTHENE	46-118	31-137
SVOC	SW8270C	2,4-DINITROTOLUENE	28-89	28-89
SVOC	SW8270C	4-NITROPHENOL	11-114	11-114
SVOC	SW8270C	PENTACHLOROPHENOL	17-109	17-109
SVOC	SW8270C	PYRENE	35-142	35-142
Pest/PCB	SW8081A/8082	gamma-BHC (Lindane)	58-119	52-125
Pest/PCB	SW8081A/8082	HEPTACHLOR	37-115	38-147
Pest/PCB	SW8081A/8082	ALDRIN	30-111	51-124
Pest/PCB	SW8081A/8082	DIELDRIN	55-124	57-130
Pest/PCB	SW8081A/8082	ENDRIN	64-127	54-143
Pest/PCB	SW8081A/8082	4,4'-DDT	57-132	40-157
Pest/PCB	SW8081A/8082	AROCLOR-1016	50-114	50-114
Pest/PCB	SW8081A/8082	AROCLOR-1260	64-113	62-154
METALS	SW7471A	MERCURY	75-125	75-125
METALS	SW6010A	ALUMINUM	75-125	75-125
METALS	SW6010A	ANTIMONY	75-125	75-125
METALS	SW6010A	ARSENIC	75-125	75-125
METALS	SW6010A	BARIUM	75-125	75-125
METALS	SW6010A	BERYLLIUM	75-125	75-125
METALS	SW6010A	CADMIUM	75-125	75-125
METALS	SW6010A	CALCIUM	75-125	75-125
METALS	SW6010A	CHROMIUM, TOTAL	75-125	75-125
METALS	SW6010A	COBALT	75-125	75-125
METALS	SW6010A	COPPER	75-125	75-125
METALS	SW6010A	IRON	75-125	75-125
METALS	SW6010A	LEAD	75-125	75-125
METALS	SW6010A	MAGNESIUM	75-125	75-125
METALS	SW6010A	MANGANESE	75-125	75-125
METALS	SW6010A	NICKEL	75-125	75-125
METALS	SW6010A	POTASSIUM	75-125	75-125
METALS	SW6010A	SELENIUM	75-125	75-125
METALS	SW6010A	SILVER	75-125	75-125
METALS	SW6010A	SODIUM	75-125	75-125
METALS	SW6010A	THALLIUM	75-125	75-125
METALS	SW6010A	VANADIUM	75-125	75-125
METALS	SW6010A	ZINC	75-125	75-125

Table 10 - MS/MSD Recoveries

Matrix	Parameter Class	Analytical Method	Sample ID	Parameter	Lab Result	Lab Qual	MS Lab Result	MS Recovery	MSD Lab Result	MSD Recovery	RPD
SB	TOTMETAL	SW6010B	BDA022	ANTIMONY	1.3	U	55.9814	62.6	67.9	64.9	3.61%
SB	TOTMETAL	SW6010B	BDA022	MANGANESE	27.3	=	58.344	69.5	59.4	61.4	12.38%
SB	TOTMETAL	SW7060A	BDA022	ARSENIC	0.18	=	0.4394	25.2	0.4	21.7	14.93%
SB	TOTMETAL	SW7421	BDA022	LEAD	1.9	=	2.6215	73	3.1	122.2	50.41%
SB	TOTMETAL	SW7740	BDA022	SELENIUM	0.07	U	0.2067	19.9	0.19	18.7	6.22%
SB	TOTMETAL	SW7841	BDA022	THALLIUM	0.05	U	0.7271	70.2	0.89	87.3	21.71%
SS	PEST	SW8081A	BDA054	DIELDRIN	19	U	5.5	149	4.3	116	24.91%
SS	PEST	SW8081A	BDA054	p,p'-DDT	19	U	6.8	184	6	162	12.72%
SS	TEQDIOX	SW4425	BDA082	TEQ OF 2,3,7,8-TCDD, LAB	0.406	=	0.586	144	0.727	257	56.36%
SB	TOTMETAL	SW6010B	BDA156	ANTIMONY	26	J	81.4	92	63.8	63	37.42%
SB	TOTMETAL	SW6010B	BDA156	NICKEL	150	=	172	37	176	45	19.51%
SS	TEQDIOX	SW4425	BDA278	TEQ OF 2,3,7,8-TCDD, LAB	0.103	=	0.103	-9	0.15	39	320.00%
SS	TOTMETAL	SW6010B	BDA278	ANTIMONY	19	=	50.7	58	74.2	102	55.00%
SS	TOTMETAL	SW6010B	BDA278	SILVER	0.97	J	6.21	97	16.6	292	100.26%
SS	PCB	SW8082	BDA278	PCB-1016 (AROCHLOR 1016)	35	U	88	251	89	254	1.19%
SS	VOC	SW8260	BDA278	BENZENE	0.7	J	46	84	35	64	27.03%
SS	VOC	SW8260	BDA278	CHLOROBENZENE	12	U	35	65	24	44	38.53%
SS	VOC	SW8260	BDA278	TOLUENE	12	J	41	74	30	54	31.25%
SS	VOC	SW8260	BDA278	TRICHLOROETHYLENE (TCE)	12	U	38	70	27	50	33.33%
SB	TEQDIOX	SW4425	BDA279	TEQ OF 2,3,7,8-TCDD, LAB	0.662	=	0.662	-269	0.843	145	-667.74%
SS	TEQDIOX	SW4425	BDA371	TEQ OF 2,3,7,8-TCDD, LAB	0.021	J	0.017	-4	0.121	83	220.25%
SS	VOC	SW8260	BDA371	CHLOROBENZENE	10	U	29	51	30	53	3.85%
WG	SVOC	SW8270C	BDC014FD	2,4-DINITROTOLUENE	10	U	50	62	76	95	42.04%
WG	SVOC	SW8270C	BDC014FD	2-CHLOROPHENOL	10	U	34	42	59	74	55.17%
WG	SVOC	SW8270C	BDC014FD	4-CHLORO-3-METHYLPHENOL	10	U	41	51	66	82	46.62%
WG	SVOC	SW8270C	BDC014FD	4-NITROPHENOL	25	U	20	25	35	44	55.07%
WG	SVOC	SW8270C	BDC014FD	ACENAPHTHENE	10	U	47	59	70	88	39.46%
WG	SVOC	SW8270C	BDC014FD	N-NITROSODIPHENYLAMINE	10	U	49	61	73	91	39.47%
WG	SVOC	SW8270C	BDC014FD	PENTACHLOROPHENOL	25	U	41	51	73	91	56.34%
WG	SVOC	SW8270C	BDC014FD	PHENOL	10	U	15	19	25	31	48.00%
WG	SVOC	SW8270C	BDC014FD	PYRENE	10	U	47	59	72	90	41.61%
WG	PCB	SW8082	BDC018	PCB-1016 (AROCHLOR 1016)	1.5	=	10	780	8.8	660	16.67%
WG	PCB	SW8082	BDC018	PCB-1016 (AROCHLOR 1016)	1.5	=	18	1650	16	1450	12.90%
WG	PCB	SW8082	BDC018	PCB-1260 (AROCHLOR 1260)	1	U	2.2	220	2.1	220	0.00%
WG	PCB	SW8082	BDC028	PCB-1016 (AROCHLOR 1016)	2.3	=	3.3	100	2.1	-20	300.00%
WG	PCB	SW8082	BDC028	PCB-1260 (AROCHLOR 1260)	1	U	0.68	68	0.46	46	38.60%
WS	DISSMETAL	SW6010B	BDC051	Iron, Dissolved	0.065	J	1.46	139	1.17	111	22.40%
SE	PCB	SW8082	BDC052	PCB-1016 (AROCHLOR 1016)	43	U	290	67	130	30	76.29%
SE	PCB	SW8082	BDC052	PCB-1260 (AROCHLOR 1260)	43	U	270	63	110	26	83.15%
SS	TOTMETAL	SW6010B	BDD129	ANTIMONY	0.54	U	39.7	73	39	72	1.38%
SS	TEQDIOX	SW4425	BDD188	TEQ OF 2,3,7,8-TCDD, LAB	0.212	J	0.212	18	0.237	20	10.53%

3 10 1460

Table 11 - Field Duplicates Out

Matrix	SDG	Analytical Method	Preparation Method	Leach Method	Sample ID	Parameter	Final Result	Final Qual	Units	Detection Limit	Reporting Limit	Field Dup Final Result	Field Dup Final Qual	Field Dup Detection Limit	Field Dup Reporting Limit	RPD
SB	J2001175	SW4425	SW3540M	NONE	BDA083	TEQ OF 2,3,7,8-TCDD, LAB	0.352	=	ug/Kg	0.015	0.038	0.103	=	0.019	0.032	109.45%
SS	J2001481	SW4425	SW3540M	NONE	BDA365	TEQ OF 2,3,7,8-TCDD, LAB	2.554	=	ug/Kg	0.22	0.55	0.021	J	0.013	0.032	196.74%
SB	J2001481	SW4425	SW3540M	NONE	BDA372	TEQ OF 2,3,7,8-TCDD, LAB	3.739	=	ug/Kg	0.19	0.47	0.028	=	0.011	0.029	197.03%
SB	JAD07	SW6010B	SW3050	NONE	BDA295	ANTIMONY	16	J	mg/kg	0.55555555	2.22	25	J	0.56179775	2.25	43.90%
SB	JAD07	SW6010B	SW3050	NONE	BDA279	ARSENIC	20	=	mg/kg	0.5625	1.25	35	=	0.56962025	1.27	54.55%
SS	JAD09	SW6010B	SW3050	NONE	BDA343	BARIUM	61	J	mg/kg	0.17204301	1.08	42	J	0.17204301	1.08	36.89%
SB	JAD12	SW6010B	SW3050	NONE	BDA376	BARIUM	1400	J	mg/kg	0.2077922	1.3	2100	J	0.21333333	1.33	40.00%
SS	JAD12	SW6010B	SW3050	NONE	BDB822	BARIUM	40	J	mg/kg	0.17391304	1.09	100	J	0.17391304	1.09	85.71%
SE	JAD38	SW6010B	SW3050	NONE	BDC040	BARIUM	17	J	mg/kg	0.22222222	1.38888888	28	J	0.2077922	1.29870129	48.89%
SS	JAD08	SW6010B	SW3050	NONE	BDB556	CALCIUM	4200	=	mg/kg	21.2765957	53.19	6700	=	21.0526315	52.63	45.87%
SS	JAD12	SW6010B	SW3050	NONE	BDB822	CALCIUM	4300	=	mg/kg	21.7391304	54.35	26000	=	21.7391304	54.35	143.23%
SB	JAD12	SW6010B	SW3050	NONE	BDA376	CHROMIUM, TOTAL	210	J	mg/kg	0.22077922	1.3	130	J	0.22666666	1.33	47.06%
SB	JAD07	SW6010B	SW3050	NONE	BDA295	COPPER	440	=	mg/kg	0.8	2.22	1500	=	0.80898876	2.25	109.28%
SB	JAD09	SW6010B	SW3050	NONE	BDA337	COPPER	430	J	mg/kg	0.86746987	2.41	770	J	0.86746987	2.41	56.67%
SS	JAD09	SW6010B	SW3050	NONE	BDA343	COPPER	20	J	mg/kg	0.77419354	2.15	66	J	0.77419354	2.15	106.98%
SS	JAD12	SW6010B	SW3050	NONE	BDA365	COPPER	230	J	mg/kg	0.93506493	2.6	140	J	0.92307692	2.56	48.65%
SS	JAD12	SW6010B	SW3050	NONE	BDB822	COPPER	24	J	mg/kg	0.78260869	2.17	50	J	0.78260869	2.17	70.27%
SB	JAD02	SW6010B	SW3050	NONE	BDA189	IRON	1300	=	mg/kg	4.89130434	5.43	2000	=	4.89130434	5.43	42.42%
SS	JAD02	SW6010B	SW3050	NONE	BDB340	IRON	2500	=	mg/kg	4.78723404	5.32	3900	=	4.83870967	5.38	43.75%
SS	JAD06	SW6010B	SW3050	NONE	BDB417	IRON	3700	=	mg/kg	4.89130434	5.43	7400	=	4.89130434	5.43	66.67%
SB	JAD09	SW6010B	SW3050	NONE	BDA337	LEAD	2700	=	mg/kg	0.50602409	0.6	4300	=	0.50602409	0.6	45.71%
SS	JAD12	SW6010B	SW3050	NONE	BDB822	LEAD	97	=	mg/kg	0.45652173	0.54	4.4	=	0.45652173	0.54	182.64%
SE	JAD40	SW6010B	SW3050	NONE	BDC056	LEAD	7	=	mg/kg	0.55263157	0.65789473	15	=	0.54545454	0.64935064	72.73%
SB	JAD05	SW6010B	SW3050	SW1311	BDA279	LEAD, TCLP	84	=	mg/l	0.0015	0.2	28	=	0.0015	0.2	100.00%
SB	JAD01	SW6010B	SW3050	NONE	BDA083	MAGNESIUM	550	J	mg/kg	7.72727272	56.82	1300	=	8.71794871	64.1	81.08%
SS	JAD06	SW6010B	SW3050	NONE	BDB417	MAGNESIUM	510	J	mg/kg	7.39130434	54.35	300	J	7.39130434	54.35	51.85%
SS	JAD12	SW6010B	SW3050	NONE	BDB822	MANGANESE	58	J	mg/kg	0.22826086	1.09	110	J	0.22826086	1.09	61.90%
SE	JAD38	SW6010B	SW3050	NONE	BDC040	MANGANESE	22	=	mg/kg	0.29166666	1.38888888	36	=	0.27272727	1.29870129	48.28%
SE	JAD40	SW6010B	SW3050	NONE	BDC056	MANGANESE	11	=	mg/kg	0.27631578	1.31578947	7	=	0.27272727	1.29870129	44.44%
SB	JAD12	SW6010B	SW3050	NONE	BDA376	POTASSIUM	2000	J	mg/kg	20.7792207	129.87	1200	J	21.3333333	133.33	50.00%
SB	JAD12	SW6010B	SW3050	NONE	BDA376	SODIUM	1200	J	mg/kg	63.6363636	64.94	1800	J	65.3333333	66.67	40.00%
SB	JAD12	SW6010B	SW3050	NONE	BDA376	VANADIUM	13	J	mg/kg	0.14285714	1.3	20	J	0.14666666	1.33	42.42%
SB	JAD12	SW6010B	SW3050	NONE	BDA376	ZINC	4400	=	mg/kg	1.27272727	2.6	9200	=	1.30666666	2.67	70.59%
SS	JAD12	SW6010B	SW3050	NONE	BDB822	ZINC	170	=	mg/kg	1.06521739	2.17	340	=	1.06521739	2.17	66.67%
SB	JAD12	SW7471A	METHOD	NONE	BDA376	MERCURY	25	=	mg/kg	0.07272727	0.52	7.1	J	0.07466666	0.53	111.53%
SB	J2001175	SW8260	SW5035	NONE	BDA083	ACETONE	110	=	ug/Kg	0.37	13	71	=	0.38	13	43.09%
SS	E2000140	SW8290	METHOD	NONE	BDB417	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	223.9	=	ng/Kg	0.13	2.7	343.3	=	0.27	2.7	42.10%
SS	E2000140	SW8290	METHOD	NONE	BDB417	HEPTACHLORINATED DIBENZO-P-DIOXINS, (TOTAL)	468.6	=	ng/Kg	0.13	2.7	1248.2	=	0.27	2.7	90.82%
SS	E2000140	SW8290	METHOD	NONE	BDB417	OCTACHLORODIBENZO-p-DIOXIN	1547.2	=	ng/Kg	0.09	5.4	3678	=	0.35	5.4	81.56%

3 10 461

Table 12 - Lab Duplicates

Matrix	Analytical Method	Preparation Method	SDG	Lab Sample ID	Sample ID	Lab Dup Sample ID	Parameter	Lab Result	Lab Qual	Reporting Limit	Lab Dup Lab Result	Lab Dup Lab Qual	Lab Dup Reporting Limit	Units	RPD
SB	SW7060A	SW3050	J2000951	J2000951-16	BDA022	BDA022D	ARSENIC	0.18	=	2	0.2778	=	1.9	mg/Kg	42.73%
SB	SW6010B	SW3050	J2000951	J2000951-16	BDA022	BDA022D	BERYLLIUM	0.06	=	1	0.0158	=	0.99	mg/Kg	116.62%
SB	SW6010B	SW3050	J2000951	J2000951-16	BDA022	BDA022D	ZINC	3.8	=	4.1	2.1836	=	3.9	mg/Kg	54.03%
SB	SW6010B	SW3050	J2000951	J2000951-16	BDA022	BDA022D	MANGANESE	27.3	=	3.1	17.5952	=	3	mg/Kg	43.23%
SB	SW4425	SW3540	J2001275	J2001275-004	BDA173	BDA173DUP	TEQ OF 2,3,7,8-TCDD, LAB	0.012	J	0.029	0.025	U	0.029	ug/Kg	200.00%
SS	SW4425	SW3540	J2001481	J2001481-005	BDA371	BDA371Dup	TEQ OF 2,3,7,8-TCDD, LAB	0.021	J	0.029	0.042	=	0.029	ug/Kg	66.67%

3 10 .0463

DATA QUALITY EVALUATION
PHASE 2

MEMORANDUM CH2MHILL

Browns Dump Site - Data Quality Evaluation

TO: Norm Hatch/JAX
John Belyea/JAX

FROM: Herb Kelly/GNA

DATE: September 23, 2002

This technical memorandum (TM) presents the Data Quality Evaluation (DQE) completed for the Phase II Sampling in support of the RI/FS Investigation at the Browns Dump Site in Jacksonville, Florida.

1.0 DQE Process

The purpose of the data quality evaluation process is to assess the effect of the overall analytical process on the usability of the data. The two major categories of data evaluation are laboratory performance and matrix interferences. Evaluation of laboratory performance is a check for compliance whether the laboratory analyzed the samples within the analytical method requirements. Evaluation of matrix interferences is more subtle and involves the analysis of several types of results, including surrogate spike recoveries, matrix spike recoveries, and duplicate sample results.

Introduction

Before the analytical results were released by the laboratory, both the sample and QC data were carefully reviewed to verify sample identity, instrument calibration, detection limits, dilution factors, numerical computations, accuracy of transcriptions, and chemical interpretations. Additionally, the QC data were reduced and the resulting data were reviewed to ascertain whether they were within the laboratory-defined limits for accuracy and precision. Any non-conforming data were discussed in the data package cover letter and case narrative.

All of the data packages were reviewed by the project chemists using the process outlined in two U.S. Environmental Protection Agency (EPA) guidance documents for evaluating data:

- *Contract Laboratory Program National Functional Guidelines for Organic Data Review* (EPA, 1999); and
- *Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (EPA, 1994).

The data validation and review process is independent of the laboratory's checks and focuses on the usability of the data to support the project data interpretation and decision-making processes. Areas of review included holding time compliance, surrogate recoveries, matrix spiked sample results, method blank results, initial and continuing calibrations, laboratory control samples, internal standard response and retention times, instrument

tuning criteria, laboratory duplicate sample results and field sample duplicate results. A data review worksheet was completed for each of these data packages.

In those instances where multiple analyses were performed, the analytical run with the lowest reporting limits was used, if the QC criteria were met for that analysis. If a sample was analyzed more than one time due to a target parameter concentration above the calibration range, the results for all parameters from the lowest dilution were used, except for those parameters exceeding the calibration range. The results for those parameters exceeding the calibration range in the initial analysis, were then reported from the diluted analysis. In those instances where multiple analyses were performed with QC criteria out in all analyses, the analytical run with the least number of exceptions or best possible QC was chosen for reporting purposes.

Sample results that were not within the acceptance limits (indicated by the query process) were appended with a qualifying flag, which consisted of a single- or double-letter code that indicated a possible problem with the data. The qualifying flags originated during the data review, validation, and database query processes. Although the qualifying flags are appended to data records during the database query process, they are included in the final data summary tables deliverable so that the data will not be used indiscriminately. These also include the secondary, or the two-digit "sub-qualifier" flags, that are entered into the comments field of the database. The secondary qualifiers provide the reasoning behind the assignment of a qualifier flag to the data. The secondary qualifiers are presented and defined in Table 1. The following primary flags were used to qualify the data:

- U Undetected. Samples were analyzed for this analyte, but it was not detected above the method detection limit (MDL) or instrument detection limit (IDL). Additionally, the "U" qualifier was used in those instances where a value was flagged as not detected due to blank contamination.
- UJ Detection limit estimated. Samples were analyzed for this analyte, but the results were qualified as not detected. The result is estimated.
- J Estimated. The analyte was present, but the reported value may not be accurate or precise.
- R Rejected. The data are unusable. (NOTE: Analyte/compound may or may not be present.)
- = Detected. Target parameter detected at the concentration reported.

Numerical sample results that were greater than the method detection limit but less than the Reporting limit (RL) were qualified with a "J" for estimated, as recommended by the EPA guidance documents.

Once the data validation review and processes were completed, the entire data set was reviewed for chemical compound frequencies of detection, dilution factors that might affect data usability, and patterns of target compounds distribution. The data set was also evaluated to identify potential data limitations, uncertainties, or both in the analytical results. Table 2 lists the changes in data qualifiers due to the validation process.

3 10 0466

2.0 Analysis Summary

The analytical methods used and the number of soil, sediment, surface water, and groundwater samples are summarized in Table 3. In general, samples were analyzed using the following analytical methods:

- Selected metals by SW-846 methods 6010 or the 7000 series
- Organochlorine Pesticides by SW-846 8081
- Polychlorinated Biphenyl Compounds by SW-846 8082
- GC/MS semivolatile organic compounds (SVOCs) by SW-846 method 8270
- Polyaromatic Hydrocarbons (PAHs) by SW-846 method 8270
- GC/MS Dioxins/Furans by method SW-846 8290

The target parameter list for each analytical method and the required reporting limits are included in the project Quality Assurance Project Plan (QAPP).

Field QC samples were also collected as part of the field investigation and submitted to the laboratory for analysis, such as equipment rinsate blanks. Additional sample volumes were also collected for Matrix Spike/Matrix Spike Duplicate (MS/MSD) and Field Duplicate (FD) samples and submitted with the primary soil samples.

2.1 Holding Times

Holding times for each of the analytical methods are presented in the QAPP. The holding times for each parameter were evaluated according to SW-846 methodology. All samples were analyzed within holding times, with the exception of four samples; BD372X0.5, BD386X0.5, BD390X0.5 and BD412X0.5. These samples were re-analyzed for Dioxin/Furans due to blank contamination, and low surrogate recoveries and low internal standard areas in the method blank and laboratory control sample.

The results of the original analyses were rejected, and the results from the re-analysis were used. Although the re-extractions exceeded holding times by only two days out, detected results were qualified "J" as estimated, and non-detected results were qualified "UJ" as estimated.

2.2 Calibration

The majority of calibration criteria pertaining to all methods were met for these samples. Table 4 reflects data that were qualified due to initial or continuing calibration deficiencies. No results were rejected, and the affected results were qualified as estimated (J/UJ).

2.3 Potential Field Sampling and Laboratory Contamination

Two types of blank samples were used to monitor potential contamination introduced during field sampling, sample handling, shipping activities, as well as sample preparation and analysis in the laboratory.

3 10 0467

- **Equipment Rinsate Blank (ERB)**: A sample of the target-free water used for the final rinse during the equipment decontamination process. This blank sample is collected by rinsing the sampling equipment after decontamination and is analyzed for the same analytical parameters as the corresponding samples. This blank is used to monitor potential contamination caused by incomplete equipment decontamination. One equipment rinsate blank should be collected per day of sampling, per type of sampling equipment.

- **Laboratory Method Blank or Method Blank (MB)**: A laboratory method blank is ASTM Type II water that is treated as a sample in that it undergoes the same analytical process as the corresponding field samples. Method blanks are used to monitor laboratory performance and contamination introduced during the analytical procedure. One method blank was prepared and analyzed for every twenty samples or per analytical batch, whichever was more frequent.

According to the *EPA National Functional Guidelines*, concentrations of common organic contaminants detected in samples at less than ten times the concentration of the associated blanks can be attributed to field sampling and laboratory contamination rather than environmental site conditions. Common organic contaminants include acetone, methylene chloride, 2-butanone, and the phthalate compounds. For inorganic and non-common organic contaminants, five times the concentration detected in the associated blank samples is used to qualify results as potential field and/or laboratory contamination rather than environmental contamination. The five or ten times rule was applied on a sample delivery group (SDG) basis, and not globally. Target parameters reported in the samples at levels less than the 5 or 10 times the concentration in the associated blanks were qualified as not detected.

2.4 Data Quality Effects from Potential Field Sampling and Laboratory Contamination

A comprehensive list of all detects in each blank is provided in Table 5A. Table 5B contrasts the frequency and magnitude of detection between normal field samples and blanks. Moreover, many results reported in blanks (especially metals) are well below any practical quantitation limit (PQL) and may represent Type I or II errors when associated with a matrix. A Type I (or alpha error) occurs when the value reported is dismissed as a biased high or false positive result, and a Type II (or beta error) is considered as a biased low or false negative result.

As stated above, the *EPA National Functional Guidelines*, concentrations of common organic contaminants detected in samples at less than ten times the concentration of the associated blanks can be attributed to field sampling and laboratory contamination rather than environmental site conditions.

When evaluating any significant amount of data such as this, there may be instances in which common laboratory contaminants are reported at low levels in samples, but are not detected in any associated blank samples. Phthalates are used as plasticizers, the most common of which is bis(2-ethylhexyl)phthalate (BEHP), and are often introduced into samples during handling. The field samplers often wear latex gloves during the field sampling process, and latex gloves are coated with plasticizers such as BEHP and di-n-

butylphthalate to facilitate release of the gloves from the skin. Laboratory personnel also wear latex gloves during sample extraction and handling.

If a target parameter determined to be a common contaminant was reported in a field sample, and the concentration was below the level determined to be due to blank contamination, the following actions were taken:

- If the concentration was above the reporting limit, the numeric result was unchanged, but it was flagged "U", as undetected.
- If an inorganic parameter concentration was below the reporting limit, the numeric result was unchanged, but it was flagged "U", as undetected.
- If an organic parameter concentration was below the reporting limit, the numeric result was changed to the value of the reporting limit, and it was flagged "U", as undetected.

A short summary of the results presented in Table 5B are outlined below.

2.4.1 Dioxins

Three dioxin compounds were detected in a single laboratory method blank sample. However, the concentrations reported in the blank were well below any detected concentrations in the associated field samples. Therefore, no results were qualified due to potential blank contamination.

2.4.2 Metals

As detailed in Table 5B, fourteen metals were reported in either the equipment rinsate or laboratory method blank samples. Sample results less than five times the concentration found in the blanks associated with that SDG were attributed to field sampling or laboratory contamination and are not considered to be indicative of environmental contamination. Additionally, several values reported were at or near the method detection limit and could be Type I or Type II errors associated with instrument noise and the lack of precision and accuracy at this level. Sample results reflecting this condition that were qualified as not detected (26 metal results), are presented in Table 2.

The number of samples qualified as not detected (U/UJ) per element were: two antimony, nine beryllium, four cobalt, three mercury, one silver and seven sodium.

Many of these metals are ubiquitous at low levels (aluminum, chromium, copper, iron, lead, manganese, sodium, and zinc). Chromium, iron, and manganese are associated with alloys of steel. Aluminum and copper are the primary metals used in conduits, tubing, and some electrical wiring. Lead is associated with many alloys or solder combinations. Zinc is a common metal and is often used as a catalyst in many manufacturing processes. Elements associated with salts such as calcium, and sodium are also common contaminants at low levels. Other metals such as antimony, barium, beryllium, mercury, and selenium are not common contaminants and generally are quantitated just above the MDL and are often Type I errors associated with instrument noise and matrix effects

2.4.3 Polyaromatic Hydrocarbons (PAHs)

Three PAH compounds, Benzo(g,h,i)perylene, Dibenz(a,h)anthracene and Indeno(1,2,3-cd)pyrene were detected in a single equipment rinsate blank sample at concentrations of 2.0, 1.5 and 1.5 ug/L respectively. Benzo(g,h,i)perylene was also detected in one laboratory method blank at a concentration of 0.78 ug/L. A single result of Benzo(g,h,i)perylene in sample BD111X0.5, was qualified as not detected due to potential blank contamination.

2.5 Matrix Effects

2.5.1 Surrogate Spike Recovery

Surrogate spike compounds were added to every sample analyzed for the organic parameters including field and laboratory blanks as well as field environmental samples. Surrogate spikes consist of organic compounds which are similar to the method targets in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.

Surrogate spike recoveries were used to monitor both laboratory performance and matrix interferences. Surrogate spike recoveries from field and laboratory blanks were used to evaluate laboratory performance because the blanks should represent an "ideal" sample matrix. Surrogate spike recoveries for field samples were used to evaluate the potential for matrix interferences. According to EPA *National Functional Guidelines*, data are not qualified with respect to surrogate recoveries unless one or more volatile surrogates are out of specifications. Semivolatiles are not qualified unless two or more surrogates, within the same fraction (base/neutral or acid fraction), are out of specification.

Per SW-846, the laboratory should develop in-house performance criteria for surrogate recoveries. Once established, control limits and warning limits for surrogates should be updated at least semi-annually.

The lower and upper and control limits, and the reported surrogate spike recoveries for field and QC samples are presented in Table 6. Also presented in Table 6 is a qualification column that is populated with an asterisk if the recovery was outside of the control limits.

There were only two field samples, BD386X0.5 and BD707X0.5 with surrogate recoveries for Dioxin/Furan analysis out of laboratory control limits. Sample BD386X0.5 was reanalyzed and all recoveries were within control limits. The results from the original analysis were rejected and the results from the reanalysis were used. Sample BD707X0.5 had two surrogate recoveries of 39 and 36 percent recovery, only slightly below control limits of 40 – 135 percent recovery. As all other seven surrogate recoveries were within acceptable control limits, the laboratory did not reanalyze the sample, nor were any results qualified.

There were no sample results that were qualified due to surrogate recoveries. These data indicate that the specific sample matrix did not greatly influence the overall analytical process or the final numerical sample result.

2.5.2 Matrix Spike/Matrix Spike Duplicate Precision and Accuracy

A matrix spike (MS) is an aliquot of sample spiked with a known concentration of target analyte(s). The sample is spiked with the solution containing target compounds prior to sample preparation and analysis. A matrix spike is used to document the bias of a method

in a given sample matrix. The matrix spike duplicate (MSD) is an intra-laboratory-split sample spiked with identical concentrations of target analyte(s), and treated just as the matrix spike sample. Accuracy is evaluated from the spike recoveries, while precision is evaluated from comparison of the percent recoveries of the MS and MSD. The lower and upper and control limits along with the precision criteria, and the reported spike recoveries for field and QC samples are presented in Table 7. Also presented in Table 7 are qualification columns that are populated with an asterisk if the recoveries or precision were outside of the control limits.

Organic results are not qualified upon the results of MS/MSD results alone. Evaluation is in conjunction with surrogate, LCS, and internal standard (if applicable) results. Additionally, many MS/MSD samples require dilution and thus the spike compounds added are diluted out and unable to be evaluated.

Inorganic results may be qualified solely upon the results of the matrix spike/matrix spike duplicate precision and accuracy. Instances where the native sample concentration for a given element exceeds the spike added concentration by a factor of four or more are not evaluated as the spike added would be masked by the native concentration.

Only inorganic parameters were qualified due to MS/MSD results. These results are summarized in Table 8.

The majority of the accuracy and precision results were well within established criteria, indicating that the specific sample matrix did not greatly influence the overall analytical process or the final numerical sample result.

2.5.3 Field Duplicate Sample Results

Duplicate field samples were collected and submitted to the laboratory for analysis. Both the native and duplicate samples were analyzed for the same parameters. Field duplicate analyses measure both field and laboratory precision and can also be affected by the homogeneity of the samples. Therefore the results may have more variability than laboratory duplicates, which measure only laboratory performance. Duplicate samples are not spiked; therefore, evaluation of duplicate sample results can only be performed on the comparison of positive sample results. Sample results are not qualified based on duplicate sample results; instead, the information is used to support the overall assessment of precision. According to the EPA *National Functional Guidelines*, there are no qualification criteria for field duplicate precision.

A control limit of ± 20 percent for the RPD was used for original and duplicate aqueous sample values greater than or equal to five times the RL. A control limit of ± 35 percent for the RPD was used for original and duplicate soil sample values greater than or equal to five times the RL. A control limit of ± the RL was used if either the sample for the duplicate value was less than five times the RL. In the cases where only one result is more than five times the RL level and the other is below, the ± RL criteria were applied. Summarized in Table 9 are the duplicate sample results greater than the reporting limit with a relative percent difference of greater than 20 or 35 percent.

There were 181 analyte records which could be evaluated based upon the criteria as outlined in the paragraph above. A total of six of these measurements (3.3%) were outside

3 10 0471

the acceptance criteria as defined in this text. The field duplicate precision data indicate that matrix heterogeneity and sampling technique did not greatly influence the final numerical result.

2.5.4 Internal Standard Area Results

Internal standards are compounds added to the organic sample extracts prior to analysis, and their retention time and response are evaluated for method compliance. The internal standards are used in quantitation of the target parameters and monitor the instrument sensitivity and response for stability during each analysis. There were two results, ,2,3,7,8-pentachlorodibenzofuran and 2,3,7,8-tetrachlorodibenzofuran, associated with sample BD707X0.5 that were qualified due to low internal standard areas. The results for these samples were qualified "J", estimated for detected results and "UJ", estimated, for undetected results.

2.6 Metals Results near the Instrument Detection Limit

The samples were analyzed for a selected list of metals. The MDL is defined as the minimum concentration of an analyte that can be identified, measured, and reported with 99% confidence that the analyte concentration is greater than zero. Sample results at or near the MDL are not accurate or precise. This situation is often caused by instrument noise or low-level background shifts, rather than a true analyte signal. As concentrations approach a "quantitation limit", the confidence in the values increase. If the reported result was above the MDL, but below the RL, the data was qualified as "J", as estimated.

2.7 Data Rejected during the Data Validation Process

Some samples may be analyzed multiple times by the laboratory because of dilution requirements or because spike recoveries are outside the method target acceptance limits. The laboratory reports all analyses; therefore, it is possible that several sample results may exist for a specific sample and analysis. During the data validation, all the sample results are evaluated and the "best answer" for each sample and analysis is chosen, and the other results are rejected.

In those instances where multiple analyses were performed, the analytical run with the lowest reporting limits was used, if the QC criteria were met for that analysis. If a sample was analyzed more than one time due to a target parameter concentration above the calibration range, the results for all parameters from the lowest dilution were used, except for those parameters exceeding the calibration range. The results for those parameters exceeding the calibration range in the initial analysis, were then reported from the diluted analysis.

Additionally, selected sample results may be rejected for specific QC non-conformance issues. In those instances where multiple analyses were performed with QC criteria out in all analyses, the analytical run with the least number of exceptions or best possible QC was chosen for reporting purposes.

There are no results that were rejected, for which there is not an associated "acceptable" result available.

2.8 PARCCs

2.8.1 Precision

Precision is defined as the agreement between duplicate results, and was estimated by comparing duplicate matrix spike recoveries, native duplicates, and field duplicate sample results. Other than the documented exceptions, the precision between native and field duplicate sample results were within acceptable criteria for the majority of the measurements, indicating that sample matrix did not significantly interfere with the overall analytical process.

2.8.2 Accuracy

Accuracy is a measure of the agreement between an experimental determination and the true value of the parameter being measured. For the organic analyses, each of the samples was spiked with a surrogate compound; and for organic and inorganic analyses a MS/MSD and Laboratory Control Sample (LCS) were spiked with a known reference material before preparation. Each of these approaches provides a measure of the matrix effects on the analytical accuracy. The LCS consists of a "controlled matrix", and results demonstrate accuracy of the method and the laboratory's to meet the method criteria. MS/MSD and native duplicate results establish precision and accuracy of the matrix. Accuracy can be estimated from the analytical data and was not measured directly. Spike recoveries were within the method acceptance limits for the majority of the measurements; therefore, there was no evidence of significant matrix interferences that would affect the usability of the data.

2.8.3 Representativeness

This criterion is a qualitative measure of the degree to which sample data accurately and precisely represent a characteristic environmental condition. Representativeness is a subjective parameter and is used to evaluate the efficacy of the sampling plan design. Representativeness was demonstrated by providing full descriptions in the project-scoping documents of the sampling techniques and the rationale used for selecting sampling locations.

2.8.4 Completeness

Completeness is defined as the percentage of measurements that are judged to be valid compared to the total number of measurements made. A goal of 90 percent usable data was established in the project-scoping document. All of rejected data were associated with re-runs and dilutions (you can only have a single valid result per sample per target); therefore, greater than 90 percent of the data was determined to be valid, and the completeness goal has been met.

2.8.5 Comparability

Comparability is another qualitative measure designed to express the confidence with which one data set may be compared to another. Factors that affect comparability are sample collection and handling techniques, sample matrix type, and analytical methods. Comparability is limited by the other PARCC parameters because data sets can be compared with confidence only when precision and accuracy are known.

3.0 Summary and Conclusions

Conclusions of the data quality evaluation process include the following:

- The laboratory analyzed the samples according to the EPA methods stated in the work plan as demonstrated by the deliverable summaries and analytical run sequences.
- Concentrations of blank contaminants were applied according to EPA *National Functional Guidelines* in order to reflect sample values that may be attributed to field or laboratory contamination.
- Sample results for metals above the MDL but less than five times the MDL may be attributed to instrument noise and/or low level contamination. Therefore, results at these low concentration levels may be described as potential false positives and may not be due to site-related activities.
- Sample results for target organic compounds above the MDL but less than the CRQL should be considered as uncertain but indicative of the presence of that compound at an estimated concentration.
- The low number of surrogate spike recoveries, MS/MSD, and field duplicate results, out of acceptance limits, indicate that the sample matrix did not significantly interfere with the overall analytical process.

The project objectives or PARCCs were met, and the data can be used in the project decision-making process as qualified by the data quality evaluation process.

Table 1 - Secondary Qualifiers

3 10 0474

Code	Definition
TN	Tune
BS	Blank Spike/LCS
BD	Blank Spike/Blank Spike Duplicate Precision
IS	Internal Standard
MS	Matrix Spike and/or Matrix Spike Duplicate Recovery
MD	Matrix Spike/Matrix Spike Duplicate Precision
2S	Second Source
SD	Serial Dilution
SS	Spiked Surrogate
LR	Analyte present above linear (or calibration) range
IC	Initial Calibration
CC	Continuing Calibration Verification
PD	Pesticide Degradation
LD	Lab Duplicate
2C	Second Column (Confirmation)
HT	Holding Time
PS	Post Spike
BL	Blank
RE	Re-extraction
DL	Dilution
IB	In Between
FD	Field Duplicate
OT	Other

Table 2 - Changed Qualifiers

Matrix	SDG	Lab Sample ID	Sample ID	Sample Type	LR Type	Parameter Class	Analytical Method	Preparation Method	Parameter	Lab Result	Lab Qual	Final Result	Final Qual	Detection Limit	Reporting Limit	Units	Validation Notes
SB	JAD173A	G2B200252002	BD010X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,4,6,7,8,9-octachlorodibenzo-p-dioxin	5700	= E	5700	J	5.9	6.1	ng/kg	LR
SB	JAD110	G1K030177001	BD111X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,4,6,7,8,9-octachlorodibenzo-p-dioxin	3100	= E	3100	J	4.98	5.2	ng/kg	LR
SB	JAD107	G1J270195002	BD148X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,4,6,7,8,9-octachlorodibenzo-p-dioxin	2800	= E	2800	J	5.32	5.5	ng/kg	LR
SB	JAD116	G1K080247001	BD260X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,4,6,7,8,9-octachlorodibenzo-p-dioxin	20000	= E	20000	J	5.2	5.4	ng/kg	LR
SB	JAD116	G1K080247001	BD260X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,4,6,7,8-heptachlorodibenzo-p-dioxin	2300	= E	2300	J	0.53	2.7	ng/kg	LR
SB	JAD221A	G2G310246005	BD372X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,4,6,7,8,9-octachlorodibenzofuran	20	=	20	R	1.7	6.6	ng/kg	RE
SB	JAD221A	G2G310246005	BD372X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,4,6,7,8,9-octachlorodibenzo-p-dioxin	670	= B	670	R	6.4	6.6	ng/kg	RE
SB	JAD221A	G2G310246005	BD372X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,4,6,7,8-heptachlorodibenzofuran	20	= I	20	R	0.66	3.3	ng/kg	RE
SB	JAD221A	G2G310246005	BD372X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,4,6,7,8-heptachlorodibenzo-p-dioxin	66	= B	66	R	0.66	3.3	ng/kg	RE
SB	JAD221A	G2G310246005	BD372X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,4,7,8,9-heptachlorodibenzofuran	3.3	U	3.3	R	0.66	3.3	ng/kg	RE
SB	JAD221A	G2G310246005	BD372X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,4,7,8-hexachlorodibenzofuran	3.4	=	3.4	R	0.66	3.3	ng/kg	RE
SB	JAD221A	G2G310246005	BD372X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,4,7,8-hexachlorodibenzo-p-dioxin	3.3	U	3.3	R	0.85	3.3	ng/kg	RE
SB	JAD221A	G2G310246005	BD372X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,6,7,8-hexachlorodibenzofuran	3.3	U	3.3	R	0.66	3.3	ng/kg	RE
SB	JAD221A	G2G310246005	BD372X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,6,7,8-hexachlorodibenzo-p-dioxin	3.3	U	3.3	R	0.66	3.3	ng/kg	RE
SB	JAD221A	G2G310246005	BD372X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,7,8,9-hexachlorodibenzofuran	3.3	U	3.3	R	0.66	3.3	ng/kg	RE
SB	JAD221A	G2G310246005	BD372X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,7,8,9-hexachlorodibenzo-p-dioxin	3.3	U	3.3	R	0.71	3.3	ng/kg	RE
SB	JAD221A	G2G310246005	BD372X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,7,8-pentachlorodibenzofuran	1.5	= JA	1.5	R	0.66	1.3	ng/kg	RE
SB	JAD221A	G2G310246005	BD372X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,7,8-pentachlorodibenzo-p-dioxin	1.3	U	1.3	R	0.71	1.3	ng/kg	RE
SB	JAD221A	G2G310246005	BD372X0.5	N		DIOXIN	SW8290	METHOD	2,3,4,6,7,8-hexachlorodibenzofuran	4.1	=	4.1	R	0.66	3.3	ng/kg	RE
SB	JAD221A	G2G310246005	BD372X0.5	N		DIOXIN	SW8290	METHOD	2,3,4,7,8-pentachlorodibenzofuran	2.9	= JA	2.9	R	0.66	1.3	ng/kg	RE
SB	JAD221A	G2G310246005	BD372X0.5	N		DIOXIN	SW8290	METHOD	2,3,7,8-tetrachlorodibenzofuran	1.5	= CON	1.5	R	0.19	1.3	ng/kg	RE
SB	JAD221A	G2G310246005	BD372X0.5	N		DIOXIN	SW8290	METHOD	2,3,7,8-tetrachlorodibenzo-p-dioxin	1.3	U	1.3	R	0.26	1.3	ng/kg	RE
SB	JAD221A	G2G310246005	BD372X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	1,2,3,4,6,7,8,9-octachlorodibenzofuran	24	=	24	J	1.7	6.6	ng/kg	HT
SB	JAD221A	G2G310246005	BD372X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	1,2,3,4,6,7,8,9-octachlorodibenzo-p-dioxin	590	=	590	J	6.4	6.6	ng/kg	HT
SB	JAD221A	G2G310246005	BD372X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	1,2,3,4,6,7,8-heptachlorodibenzofuran	32	= I	32	J	0.66	3.3	ng/kg	HT
SB	JAD221A	G2G310246005	BD372X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	1,2,3,4,6,7,8-heptachlorodibenzo-p-dioxin	67	=	67	J	0.66	3.3	ng/kg	HT
SB	JAD221A	G2G310246005	BD372X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	1,2,3,4,7,8,9-heptachlorodibenzofuran	3.3	U	3.3	UJ	0.66	3.3	ng/kg	HT
SB	JAD221A	G2G310246005	BD372X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	1,2,3,4,7,8-hexachlorodibenzofuran	6.7	=	6.7	J	0.66	3.3	ng/kg	HT
SB	JAD221A	G2G310246005	BD372X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	1,2,3,4,7,8-hexachlorodibenzo-p-dioxin	3.3	U	3.3	UJ	0.85	3.3	ng/kg	HT
SB	JAD221A	G2G310246005	BD372X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	1,2,3,6,7,8-hexachlorodibenzofuran	3.3	U	3.3	UJ	0.66	3.3	ng/kg	HT
SB	JAD221A	G2G310246005	BD372X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	1,2,3,6,7,8-hexachlorodibenzo-p-dioxin	3.3	U	3.3	UJ	0.66	3.3	ng/kg	HT
SB	JAD221A	G2G310246005	BD372X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	1,2,3,7,8,9-hexachlorodibenzofuran	3.3	U	3.3	UJ	0.66	3.3	ng/kg	HT
SB	JAD221A	G2G310246005	BD372X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	1,2,3,7,8,9-hexachlorodibenzo-p-dioxin	3.3	U	3.3	UJ	0.71	3.3	ng/kg	HT
SB	JAD221A	G2G310246005	BD372X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	1,2,3,7,8-pentachlorodibenzofuran	1.5	= JA	1.5	J	0.66	1.3	ng/kg	HT
SB	JAD221A	G2G310246005	BD372X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	1,2,3,7,8-pentachlorodibenzo-p-dioxin	1.3	U	1.3	UJ	0.71	1.3	ng/kg	HT
SB	JAD221A	G2G310246005	BD372X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	2,3,4,6,7,8-hexachlorodibenzofuran	4.6	=	4.6	J	0.66	3.3	ng/kg	HT
SB	JAD221A	G2G310246005	BD372X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	2,3,4,7,8-pentachlorodibenzofuran	3	= JA	3	J	0.66	1.3	ng/kg	HT
SB	JAD221A	G2G310246005	BD372X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	2,3,7,8-tetrachlorodibenzofuran	1.6	= CON	1.6	J	0.19	1.3	ng/kg	HT
SB	JAD221A	G2G310246005	BD372X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	2,3,7,8-tetrachlorodibenzo-p-dioxin	1.3	U	1.3	UJ	0.26	1.3	ng/kg	HT
SB	JAD221A	G2G310246002	BD386X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,4,6,7,8,9-octachlorodibenzofuran	16	=	16	R	1.4	5.5	ng/kg	RE
SB	JAD221A	G2G310246002	BD386X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,4,6,7,8,9-octachlorodibenzo-p-dioxin	400	= B	400	R	5.3	5.5	ng/kg	RE
SB	JAD221A	G2G310246002	BD386X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,4,6,7,8-heptachlorodibenzofuran	12	=	12	R	0.55	2.7	ng/kg	RE
SB	JAD221A	G2G310246002	BD386X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,4,6,7,8-heptachlorodibenzo-p-dioxin	56	= B	56	R	0.55	2.7	ng/kg	RE
SB	JAD221A	G2G310246002	BD386X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,4,7,8,9-heptachlorodibenzofuran	2.7	U	2.7	R	0.55	2.7	ng/kg	RE
SB	JAD221A	G2G310246002	BD386X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,4,7,8-hexachlorodibenzofuran	2.7	U	2.7	R	0.55	2.7	ng/kg	RE
SB	JAD221A	G2G310246002	BD386X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,4,7,8-hexachlorodibenzo-p-dioxin	2.7	U	2.7	R	0.7	2.7	ng/kg	RE
SB	JAD221A	G2G310246002	BD386X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,6,7,8-hexachlorodibenzofuran	2.7	U	2.7	R	0.55	2.7	ng/kg	RE
SB	JAD221A	G2G310246002	BD386X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,6,7,8-hexachlorodibenzo-p-dioxin	2.7	U	2.7	R	0.55	2.7	ng/kg	RE
SB	JAD221A	G2G310246002	BD386X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,7,8,9-hexachlorodibenzofuran	2.7	U	2.7	R	0.55	2.7	ng/kg	RE
SB	JAD221A	G2G310246002	BD386X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,7,8,9-hexachlorodibenzo-p-dioxin	2.7	U	2.7	R	0.59	2.7	ng/kg	RE
SB	JAD221A	G2G310246002	BD386X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,7,8-pentachlorodibenzofuran	1.1	U	1.1	R	0.55	1.1	ng/kg	RE
SB	JAD221A	G2G310246002	BD386X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,7,8-pentachlorodibenzo-p-dioxin	1.1	U	1.1	R	0.59	1.1	ng/kg	RE
SB	JAD221A	G2G310246002	BD386X0.5	N		DIOXIN	SW8290	METHOD	2,3,4,6,7,8-hexachlorodibenzofuran	2.7	U	2.7	R	0.55	2.7	ng/kg	RE
SB	JAD221A	G2G310246002	BD386X0.5	N		DIOXIN	SW8290	METHOD	2,3,4,7,8-pentachlorodibenzofuran	1.1	U	1.1	R	0.55	1.1	ng/kg	RE

3 10 0475

Table 2 - Changed Qualifiers

Matrix	SDG	Lab Sample ID	Sample ID	Sample Type	LR Type	Parameter Class	Analytical Method	Preparation Method	Parameter	Lab Result	Lab Qual	Final Result	Final Qual	Detection Limit	Reporting Limit	Units	Validation Notes
SB	JAD221A	G2G310246002	BD386X0.5	N		DIOXIN	SW8290	METHOD	2,3,7,8-tetrachlorodibenzofuran	1.1	U CON	1.1	R	0.15	1.1	ng/kg	RE
SB	JAD221A	G2G310246002	BD386X0.5	N		DIOXIN	SW8290	METHOD	2,3,7,8-tetrachlorodibenzo-p-dioxin	1.1	U	1.1	R	0.22	1.1	ng/kg	RE
SB	JAD221A	G2G310246002	BD386X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	1,2,3,4,6,7,8,9-octachlorodibenzofuran	16	=	16	J	1.4	5.5	ng/kg	HT
SB	JAD221A	G2G310246002	BD386X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	1,2,3,4,6,7,8,9-octachlorodibenzo-p-dioxin	420	=	420	J	5.3	5.5	ng/kg	HT
SB	JAD221A	G2G310246002	BD386X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	1,2,3,4,6,7,8-heptachlorodibenzofuran	14	=	14	J	0.55	2.7	ng/kg	HT
SB	JAD221A	G2G310246002	BD386X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	1,2,3,4,6,7,8-heptachlorodibenzo-p-dioxin	57	=	57	J	0.55	2.7	ng/kg	HT
SB	JAD221A	G2G310246002	BD386X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	1,2,3,4,7,8,9-heptachlorodibenzofuran	2.7	U	2.7	UJ	0.55	2.7	ng/kg	HT
SB	JAD221A	G2G310246002	BD386X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	1,2,3,4,7,8-hexachlorodibenzofuran	2.7	U	2.7	UJ	0.55	2.7	ng/kg	HT
SB	JAD221A	G2G310246002	BD386X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	1,2,3,4,7,8-hexachlorodibenzo-p-dioxin	2.7	U	2.7	UJ	0.7	2.7	ng/kg	HT
SB	JAD221A	G2G310246002	BD386X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	1,2,3,6,7,8-hexachlorodibenzofuran	2.7	U	2.7	UJ	0.55	2.7	ng/kg	HT
SB	JAD221A	G2G310246002	BD386X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	1,2,3,6,7,8-hexachlorodibenzo-p-dioxin	2.7	U	2.7	UJ	0.55	2.7	ng/kg	HT
SB	JAD221A	G2G310246002	BD386X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	1,2,3,7,8,9-hexachlorodibenzofuran	2.7	U	2.7	UJ	0.55	2.7	ng/kg	HT
SB	JAD221A	G2G310246002	BD386X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	1,2,3,7,8,9-hexachlorodibenzo-p-dioxin	2.7	U	2.7	UJ	0.59	2.7	ng/kg	HT
SB	JAD221A	G2G310246002	BD386X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	1,2,3,7,8-pentachlorodibenzofuran	1.1	U	1.1	UJ	0.55	1.1	ng/kg	HT
SB	JAD221A	G2G310246002	BD386X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	1,2,3,7,8-pentachlorodibenzo-p-dioxin	1.1	U	1.1	UJ	0.59	1.1	ng/kg	HT
SB	JAD221A	G2G310246002	BD386X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	2,3,4,6,7,8-hexachlorodibenzofuran	2.7	U	2.7	UJ	0.55	2.7	ng/kg	HT
SB	JAD221A	G2G310246002	BD386X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	2,3,4,7,8-pentachlorodibenzofuran	1.5	= JA	1.5	J	0.55	1.1	ng/kg	HT
SB	JAD221A	G2G310246002	BD386X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	2,3,7,8-tetrachlorodibenzofuran	1.1	U CON	1.1	UJ	0.15	1.1	ng/kg	HT
SB	JAD221A	G2G310246002	BD386X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	2,3,7,8-tetrachlorodibenzo-p-dioxin	1.1	U	1.1	UJ	0.22	1.1	ng/kg	HT
SB	JAD221A	G2G310246001	BD390X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,4,6,7,8,9-octachlorodibenzofuran	16	=	16	R	1.5	5.5	ng/kg	RE
SB	JAD221A	G2G310246001	BD390X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,4,6,7,8,9-octachlorodibenzo-p-dioxin	230	= B	230	R	5.3	5.5	ng/kg	RE
SB	JAD221A	G2G310246001	BD390X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,4,6,7,8-heptachlorodibenzofuran	10	=	10	R	0.55	2.8	ng/kg	RE
SB	JAD221A	G2G310246001	BD390X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,4,6,7,8-heptachlorodibenzo-p-dioxin	29	= B	29	R	0.55	2.8	ng/kg	RE
SB	JAD221A	G2G310246001	BD390X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,4,7,8,9-heptachlorodibenzofuran	2.8	U	2.8	R	0.55	2.8	ng/kg	RE
SB	JAD221A	G2G310246001	BD390X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,4,7,8-hexachlorodibenzofuran	2.8	U	2.8	R	0.55	2.8	ng/kg	RE
SB	JAD221A	G2G310246001	BD390X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,4,7,8-hexachlorodibenzo-p-dioxin	2.8	U	2.8	R	0.71	2.8	ng/kg	RE
SB	JAD221A	G2G310246001	BD390X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,6,7,8-hexachlorodibenzofuran	2.8	U	2.8	R	0.55	2.8	ng/kg	RE
SB	JAD221A	G2G310246001	BD390X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,6,7,8-hexachlorodibenzo-p-dioxin	2.8	U	2.8	R	0.55	2.8	ng/kg	RE
SB	JAD221A	G2G310246001	BD390X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,7,8,9-hexachlorodibenzofuran	2.8	U	2.8	R	0.55	2.8	ng/kg	RE
SB	JAD221A	G2G310246001	BD390X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,7,8,9-hexachlorodibenzo-p-dioxin	2.8	U	2.8	R	0.6	2.8	ng/kg	RE
SB	JAD221A	G2G310246001	BD390X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,7,8-pentachlorodibenzofuran	1.1	U	1.1	R	0.55	1.1	ng/kg	RE
SB	JAD221A	G2G310246001	BD390X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,7,8-pentachlorodibenzo-p-dioxin	1.1	U	1.1	R	0.6	1.1	ng/kg	RE
SB	JAD221A	G2G310246001	BD390X0.5	N		DIOXIN	SW8290	METHOD	2,3,4,6,7,8-hexachlorodibenzofuran	2.8	U	2.8	R	0.55	2.8	ng/kg	RE
SB	JAD221A	G2G310246001	BD390X0.5	N		DIOXIN	SW8290	METHOD	2,3,4,7,8-pentachlorodibenzofuran	1.1	U	1.1	R	0.55	1.1	ng/kg	RE
SB	JAD221A	G2G310246001	BD390X0.5	N		DIOXIN	SW8290	METHOD	2,3,7,8-tetrachlorodibenzofuran	1.2	= CON	1.2	R	0.16	1.1	ng/kg	RE
SB	JAD221A	G2G310246001	BD390X0.5	N		DIOXIN	SW8290	METHOD	2,3,7,8-tetrachlorodibenzo-p-dioxin	1.1	U	1.1	R	0.22	1.1	ng/kg	RE
SB	JAD221A	G2G310246001	BD390X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	1,2,3,4,6,7,8,9-octachlorodibenzofuran	25	=	25	J	1.5	5.5	ng/kg	HT
SB	JAD221A	G2G310246001	BD390X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	1,2,3,4,6,7,8,9-octachlorodibenzo-p-dioxin	320	=	320	J	5.3	5.5	ng/kg	HT
SB	JAD221A	G2G310246001	BD390X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	1,2,3,4,6,7,8-heptachlorodibenzofuran	14	=	14	J	0.55	2.8	ng/kg	HT
SB	JAD221A	G2G310246001	BD390X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	1,2,3,4,6,7,8-heptachlorodibenzo-p-dioxin	39	=	39	J	0.55	2.8	ng/kg	HT
SB	JAD221A	G2G310246001	BD390X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	1,2,3,4,7,8,9-heptachlorodibenzofuran	2.8	U	2.8	UJ	0.55	2.8	ng/kg	HT
SB	JAD221A	G2G310246001	BD390X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	1,2,3,4,7,8-hexachlorodibenzofuran	2.8	U	2.8	UJ	0.55	2.8	ng/kg	HT
SB	JAD221A	G2G310246001	BD390X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	1,2,3,4,7,8-hexachlorodibenzo-p-dioxin	2.8	U	2.8	UJ	0.71	2.8	ng/kg	HT
SB	JAD221A	G2G310246001	BD390X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	1,2,3,6,7,8-hexachlorodibenzofuran	2.8	U	2.8	UJ	0.55	2.8	ng/kg	HT
SB	JAD221A	G2G310246001	BD390X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	1,2,3,6,7,8-hexachlorodibenzo-p-dioxin	2.8	U	2.8	UJ	0.55	2.8	ng/kg	HT
SB	JAD221A	G2G310246001	BD390X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	1,2,3,7,8,9-hexachlorodibenzofuran	2.8	U	2.8	UJ	0.55	2.8	ng/kg	HT
SB	JAD221A	G2G310246001	BD390X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	1,2,3,7,8,9-hexachlorodibenzo-p-dioxin	2.8	U	2.8	UJ	0.6	2.8	ng/kg	HT
SB	JAD221A	G2G310246001	BD390X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	1,2,3,7,8-pentachlorodibenzofuran	1.1	U	1.1	UJ	0.55	1.1	ng/kg	HT
SB	JAD221A	G2G310246001	BD390X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	1,2,3,7,8-pentachlorodibenzo-p-dioxin	1.1	U	1.1	UJ	0.6	1.1	ng/kg	HT
SB	JAD221A	G2G310246001	BD390X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	2,3,4,6,7,8-hexachlorodibenzofuran	2.8	U	2.8	UJ	0.55	2.8	ng/kg	HT
SB	JAD221A	G2G310246001	BD390X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	2,3,4,7,8-pentachlorodibenzofuran	1.1	U	1.1	UJ	0.55	1.1	ng/kg	HT
SB	JAD221A	G2G310246001	BD390X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	2,3,7,8-tetrachlorodibenzofuran	1.4	= CON	1.4	J	0.16	1.1	ng/kg	HT
SB	JAD221A	G2G310246001	BD390X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	2,3,7,8-tetrachlorodibenzo-p-dioxin	1.1	U	1.1	UJ	0.22	1.1	ng/kg	HT
SB	JAD221A	G2G310246004	BD412X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,4,6,7,8,9-octachlorodibenzofuran	11	=	11	R	1.4	5.5	ng/kg	RE

3 10 0476

Matrix	SDG	Lab Sample ID	Sample ID	Sample Type	LR Type	Parameter Class	Analytical Method	Preparation Method	Parameter	Lab Result	Lab Qual	Final Result	Final Qual	Detection Limit	Reporting Limit	Units	Validation Notes
SB	JAD221A	G2G310246004	BD412X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,4,6,7,8,9-octachlorodibenzo-p-dioxin	240	= B	240	R	5.3	5.5	ng/kg	RE
SB	JAD221A	G2G310246004	BD412X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,4,6,7,8-heptachlorodibenzofuran	8.2	=	8.2	R	0.55	2.7	ng/kg	RE
SB	JAD221A	G2G310246004	BD412X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,4,6,7,8-heptachlorodibenzo-p-dioxin	43	= B	43	R	0.55	2.7	ng/kg	RE
SB	JAD221A	G2G310246004	BD412X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,4,7,8,9-heptachlorodibenzofuran	2.7	U	2.7	R	0.55	2.7	ng/kg	RE
SB	JAD221A	G2G310246004	BD412X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,4,7,8-hexachlorodibenzofuran	2.7	U	2.7	R	0.55	2.7	ng/kg	RE
SB	JAD221A	G2G310246004	BD412X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,4,7,8-hexachlorodibenzo-p-dioxin	2.7	U	2.7	R	0.7	2.7	ng/kg	RE
SB	JAD221A	G2G310246004	BD412X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,6,7,8-hexachlorodibenzofuran	2.7	U	2.7	R	0.55	2.7	ng/kg	RE
SB	JAD221A	G2G310246004	BD412X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,6,7,8-hexachlorodibenzo-p-dioxin	3	=	3	R	0.55	2.7	ng/kg	RE
SB	JAD221A	G2G310246004	BD412X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,7,8,9-hexachlorodibenzofuran	2.7	U	2.7	R	0.55	2.7	ng/kg	RE
SB	JAD221A	G2G310246004	BD412X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,7,8,9-hexachlorodibenzo-p-dioxin	2.7	U	2.7	R	0.59	2.7	ng/kg	RE
SB	JAD221A	G2G310246004	BD412X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,7,8-pentachlorodibenzofuran	1.1	U	1.1	R	0.55	1.1	ng/kg	RE
SB	JAD221A	G2G310246004	BD412X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,7,8-pentachlorodibenzo-p-dioxin	1.1	U	1.1	R	0.59	1.1	ng/kg	RE
SB	JAD221A	G2G310246004	BD412X0.5	N		DIOXIN	SW8290	METHOD	2,3,4,6,7,8-hexachlorodibenzofuran	2.7	U	2.7	R	0.55	2.7	ng/kg	RE
SB	JAD221A	G2G310246004	BD412X0.5	N		DIOXIN	SW8290	METHOD	2,3,4,7,8-pentachlorodibenzofuran	1.1	U	1.1	R	0.55	1.1	ng/kg	RE
SB	JAD221A	G2G310246004	BD412X0.5	N		DIOXIN	SW8290	METHOD	2,3,7,8-tetrachlorodibenzofuran	1.1	U CON	1.1	R	0.15	1.1	ng/kg	RE
SB	JAD221A	G2G310246004	BD412X0.5	N		DIOXIN	SW8290	METHOD	2,3,7,8-tetrachlorodibenzo-p-dioxin	1.1	U	1.1	R	0.22	1.1	ng/kg	RE
SB	JAD221A	G2G310246004	BD412X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	1,2,3,4,6,7,8,9-octachlorodibenzofuran	22	=	22	J	1.4	5.5	ng/kg	HT
SB	JAD221A	G2G310246004	BD412X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	1,2,3,4,6,7,8,9-octachlorodibenzo-p-dioxin	330	=	330	J	5.3	5.5	ng/kg	HT
SB	JAD221A	G2G310246004	BD412X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	1,2,3,4,6,7,8-heptachlorodibenzofuran	11	=	11	J	0.55	2.7	ng/kg	HT
SB	JAD221A	G2G310246004	BD412X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	1,2,3,4,6,7,8-heptachlorodibenzo-p-dioxin	59	=	59	J	0.55	2.7	ng/kg	HT
SB	JAD221A	G2G310246004	BD412X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	1,2,3,4,7,8,9-heptachlorodibenzofuran	2.7	U	2.7	UJ	0.55	2.7	ng/kg	HT
SB	JAD221A	G2G310246004	BD412X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	1,2,3,4,7,8-hexachlorodibenzofuran	2.7	U	2.7	UJ	0.55	2.7	ng/kg	HT
SB	JAD221A	G2G310246004	BD412X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	1,2,3,4,7,8-hexachlorodibenzo-p-dioxin	2.7	U	2.7	UJ	0.7	2.7	ng/kg	HT
SB	JAD221A	G2G310246004	BD412X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	1,2,3,6,7,8-hexachlorodibenzofuran	2.7	U	2.7	UJ	0.55	2.7	ng/kg	HT
SB	JAD221A	G2G310246004	BD412X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	1,2,3,6,7,8-hexachlorodibenzo-p-dioxin	3.3	=	3.3	J	0.55	2.7	ng/kg	HT
SB	JAD221A	G2G310246004	BD412X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	1,2,3,7,8,9-hexachlorodibenzofuran	2.7	U	2.7	UJ	0.55	2.7	ng/kg	HT
SB	JAD221A	G2G310246004	BD412X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	1,2,3,7,8,9-hexachlorodibenzo-p-dioxin	2.7	U	2.7	UJ	0.59	2.7	ng/kg	HT
SB	JAD221A	G2G310246004	BD412X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	1,2,3,7,8-pentachlorodibenzofuran	1.1	U	1.1	UJ	0.55	1.1	ng/kg	HT
SB	JAD221A	G2G310246004	BD412X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	1,2,3,7,8-pentachlorodibenzo-p-dioxin	1.1	U	1.1	UJ	0.59	1.1	ng/kg	HT
SB	JAD221A	G2G310246004	BD412X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	2,3,4,6,7,8-hexachlorodibenzofuran	2.7	U	2.7	UJ	0.55	2.7	ng/kg	HT
SB	JAD221A	G2G310246004	BD412X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	2,3,4,7,8-pentachlorodibenzofuran	1.1	U	1.1	UJ	0.55	1.1	ng/kg	HT
SB	JAD221A	G2G310246004	BD412X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	2,3,7,8-tetrachlorodibenzofuran	1.1	U CON	1.1	UJ	0.15	1.1	ng/kg	HT
SB	JAD221A	G2G310246004	BD412X0.5RE	LR	RE	DIOXIN	SW8290	METHOD	2,3,7,8-tetrachlorodibenzo-p-dioxin	1.1	U	1.1	UJ	0.22	1.1	ng/kg	HT
SB	JAD181A	G2C160174001	BD700C2.0	N		DIOXIN	SW8290	METHOD	1,2,3,4,6,7,8-heptachlorodibenzofuran	5.3	= JA	5.3	J	0.58	2.9	ng/kg	OT
SB	JAD180A	G2C140234002	BD702X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,4,6,7,8,9-octachlorodibenzofuran	18	=	18	J	1.4	5.5	ng/kg	IC
SB	JAD180A	G2C140234001	BD707X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,4,6,7,8,9-octachlorodibenzofuran	39	=	39	J	1.4	5.4	ng/kg	IC
SB	JAD180A	G2C140234001	BD707X0.5	N		DIOXIN	SW8290	METHOD	1,2,3,7,8-pentachlorodibenzofuran	1.7	= JA	1.7	J	0.54	1.1	ng/kg	IS
SB	JAD180A	G2C140234001	BD707X0.5	N		DIOXIN	SW8290	METHOD	2,3,7,8-tetrachlorodibenzofuran	3.4	= CON	3.4	J	0.15	1.1	ng/kg	IS
SB	JAD115	S117329A*1	BD001X0.5	N		METALS	SW6010B	SW3050	Beryllium	0.081	B	0.081	U	0.027	0.96	mg/Kg	BL
SB	JAD115	S117329A*1	BD001X0.5	N		METALS	SW6010B	SW3050	Chromium, total	3.1	N*	3.1	J	0.081	1.9	mg/Kg	MS
SB	JAD115	S117329A*1	BD001X0.5	N		METALS	SW6010B	SW3050	Copper	6.5	N*	6.5	J	0.34	4.8	mg/Kg	MS
SB	JAD115	S117329A*1	BD001X0.5	N		METALS	SW6010B	SW3050	Lead	81	N*	81	J	0.2	0.57	mg/Kg	MD,MS
SB	JAD115	S117329A*1	BD001X0.5	N		METALS	SW6010B	SW3050	Manganese	36	N*	36	J	0.1	2.9	mg/Kg	MS
SB	JAD114	S117329*1	BD003S1.5	N		METALS	SW6010B	SW3050	Arsenic	20	=	20	J	0.48	1.1	mg/Kg	MS
SB	JAD114	S117329*1	BD003S1.5	N		METALS	SW6010B	SW3050	Lead	540	=	540	J	0.45	0.64	mg/Kg	MS
SB	JAD114	S117329*2	BD003W1.5	N		METALS	SW7060A	SW3050	Arsenic	1.3	=	1.3	J	0.41	1.2	mg/Kg	MS
SB	JAD114	S117329*2	BD003W1.5	N		METALS	SW6010B	SW3050	Lead	270	=	270	J	0.5	0.71	mg/Kg	MS
SS	JAD114	S117329*3	BD005N0.0	N		METALS	SW7060A	SW3050	Arsenic	4.8	=	4.8	J	0.58	1.7	mg/Kg	MS
SS	JAD114	S117329*3	BD005N0.0	N		METALS	SW6010B	SW3050	Lead	1200	=	1200	J	1.4	2	mg/Kg	MS
SB	JAD115	S117329A*3	bd005x0.5	N		METALS	SW6010B	SW3050	Chromium, total	56	N*	56	J	0.1	2.4	mg/Kg	MS
SB	JAD115	S117329A*3	bd005x0.5	N		METALS	SW6010B	SW3050	Copper	3500	N*	3500	J	0.43	6	mg/Kg	MS
SB	JAD115	S117329A*3	bd005x0.5	N		METALS	SW6010B	SW3050	Lead	1400	N*	1400	J	0.25	0.72	mg/Kg	MD,MS
SB	JAD115	S117329A*3	bd005x0.5	N		METALS	SW6010B	SW3050	Manganese	550	N*	550	J	0.13	3.6	mg/Kg	MS
SB	JAD115	S117329A*3	bd005x0.5	N		METALS	SW7471A	METHOD	Mercury	0.26	=	0.26	J	0.0032	0.11	mg/Kg	MS

3 10 6477

Matrix	SDG	Lab Sample ID	Sample ID	Sample Type	LR Type	Parameter Class	Analytical Method	Preparation Method	Parameter	Lab Result	Lab Qual	Final Result	Final Qual	Detection Limit	Reporting Limit	Units	Validation Notes
SS	JAD120	S117386*5	BD006C0.0	N		METALS	SW7060A	SW3050	Arsenic	9.9	N*	9.9	J	2	5.7	mg/Kg	MD,MS
SS	JAD120	S117386*1	BD006E0.0	N		METALS	SW7060A	SW3050	Arsenic	7.4	N*	7.4	J	0.37	1.1	mg/Kg	MD,MS
SS	JAD120	S117386*2	BD006W0.0	N		METALS	SW7060A	SW3050	Arsenic	4.9	N*	4.9	J	0.32	0.93	mg/Kg	MD,MS
SB	JAD120	S117386*3	BD006W0.5	N		METALS	SW7060A	SW3050	Arsenic	4.6	N*	4.6	J	0.38	1.1	mg/Kg	MD,MS
SB	JAD120	S117386*4	BD006W1.0	N		METALS	SW7060A	SW3050	Arsenic	4.3	N*	4.3	J	0.35	0.99	mg/Kg	MD,MS
SB	JAD120	S117386*19	BD006X0.5	N		METALS	SW7060A	SW3050	Arsenic	4.4	N*	4.4	J	0.32	0.91	mg/Kg	MD,MS
SB	JAD173	S241177*2	BD010X0.5	N		METALS	SW6010B	SW3050	Antimony	0.66	BN	0.66	UJ	0.31	15	mg/Kg	BL,MS
SB	JAD173	S241177*2	BD010X0.5	N		METALS	SW6010B	SW3050	Magnesium	3500	N	3500	J	4.2	1200	mg/Kg	MS
SB	JAD173	S241177*2	BD010X0.5	N		METALS	SW6010B	SW3050	Silver	0.45	B	0.45	U	0.12	2.5	mg/Kg	BL
SB	JAD173	S241177*2	BD010X0.5	N		METALS	SW6010B	SW3050	Zinc	130	N	130	J	0.6	4.9	mg/Kg	MS
SB	JAD115	S117329A*4	BD015X0.5	N		METALS	SW7060A	SW3050	Arsenic	1.6	N	1.6	J	0.34	0.96	mg/Kg	MS
SB	JAD115	S117329A*4	BD015X0.5	N		METALS	SW6010B	SW3050	Beryllium	0.14	B	0.14	U	0.029	1	mg/Kg	BL
SB	JAD115	S117329A*4	BD015X0.5	N		METALS	SW6010B	SW3050	Chromium, total	7.3	N*	7.3	J	0.086	2	mg/Kg	MS
SB	JAD115	S117329A*4	BD015X0.5	N		METALS	SW6010B	SW3050	Copper	12	N*	12	J	0.36	5.1	mg/Kg	MS
SB	JAD115	S117329A*4	BD015X0.5	N		METALS	SW6010B	SW3050	Lead	54	N*	54	J	0.21	0.61	mg/Kg	MD,MS
SB	JAD115	S117329A*4	BD015X0.5	N		METALS	SW6010B	SW3050	Manganese	27	N*	27	J	0.11	3	mg/Kg	MS
SB	JAD106	S117093*1	BD020X0.5	N		METALS	SW6010B	SW3050	Antimony	0.26	UN	0.26	UJ	0.26	12	mg/Kg	MS
SB	JAD106	S117093*1	BD020X0.5	N		METALS	SW6010B	SW3050	Lead	43	N	43	J	0.22	0.62	mg/Kg	MS
SB	JAD106	S117093*1	BD020X0.5	N		METALS	SW6010B	SW3050	Sodium	37	B	37	U	26	1000	mg/Kg	BL
SB	JAD106	S117093*2	BD020X0.5FD	FD		METALS	SW6010B	SW3050	Antimony	0.25	UN	0.25	UJ	0.25	12	mg/Kg	MS
SB	JAD106	S117093*2	BD020X0.5FD	FD		METALS	SW6010B	SW3050	Lead	40	N	40	J	0.21	0.6	mg/Kg	MS
SB	JAD106	S117093*2	BD020X0.5FD	FD		METALS	SW6010B	SW3050	Sodium	54	B	54	U	24	1000	mg/Kg	BL
SB	JAD115	S117329A*2	BD031X0.5	N		METALS	SW6010B	SW3050	Beryllium	0.086	B	0.086	U	0.029	1	mg/Kg	BL
SB	JAD115	S117329A*2	BD031X0.5	N		METALS	SW6010B	SW3050	Chromium, total	3.7	N*	3.7	J	0.086	2	mg/Kg	MS
SB	JAD115	S117329A*2	BD031X0.5	N		METALS	SW6010B	SW3050	Copper	8.1	N*	8.1	J	0.36	5.1	mg/Kg	MS
SB	JAD115	S117329A*2	BD031X0.5	N		METALS	SW6010B	SW3050	Lead	85	N*	85	J	0.21	0.61	mg/Kg	MD,MS
SB	JAD115	S117329A*2	BD031X0.5	N		METALS	SW6010B	SW3050	Manganese	50	N*	50	J	0.11	3	mg/Kg	MS
SB	JAD115	S117361*2	BD033X0.5	N		METALS	SW6010B	SW3050	Beryllium	0.086	B	0.086	U	0.03	1.1	mg/Kg	BL
SB	JAD115	S117361*2	BD033X0.5	N		METALS	SW6010B	SW3050	Chromium, total	4.4	N*	4.4	J	0.09	2.1	mg/Kg	MS
SB	JAD115	S117361*2	BD033X0.5	N		METALS	SW6010B	SW3050	Copper	8.9	N*	8.9	J	0.38	5.3	mg/Kg	MS
SB	JAD115	S117361*2	BD033X0.5	N		METALS	SW6010B	SW3050	Lead	33	N*	33	J	0.22	0.64	mg/Kg	MD,MS
SB	JAD115	S117361*2	BD033X0.5	N		METALS	SW6010B	SW3050	Manganese	19	N*	19	J	0.11	3.2	mg/Kg	MS
SB	JAD102	S116955A*1	BD041X0.5	N		METALS	SW6010B	SW3050	Copper	41	N	41	J	0.36	5	mg/Kg	MS
SB	JAD102	S116955A*1	BD041X0.5	N		METALS	SW6010B	SW3050	Lead	96	N	96	J	0.21	0.6	mg/Kg	MS
SB	JAD102	S116955A*1	BD041X0.5	N		METALS	SW6010B	SW3050	Manganese	57	N	57	J	0.1	3	mg/Kg	MS
SB	JAD104	S117006B*2	BD042W0.5	N		METALS	SW7060A	SW3050	Arsenic	1.9	N	1.9	UJ	0.66	1.9	mg/Kg	MS
SB	JAD104	S117006B*7	BD042X0.5	N		METALS	SW7060A	SW3050	Arsenic	4.3	N	4.3	J	0.33	0.95	mg/Kg	MS
SB	JAD104	S117006B*5	BD043N2.0	N		METALS	SW7060A	SW3050	Arsenic	2.8	N	2.8	J	0.34	0.96	mg/Kg	MS
SB	JAD104	S117006B*6	BD043N2.0FD	FD		METALS	SW7060A	SW3050	Arsenic	3.2	N	3.2	J	0.37	1.1	mg/Kg	MS
SB	JAD106	S117093*5	BD051X0.5	N		METALS	SW6010B	SW3050	Lead	44	N	44	J	0.21	0.59	mg/Kg	MS
SB	JAD106	S117093*5	BD051X0.5	N		METALS	SW6010B	SW3050	Sodium	38	B	38	U	24	990	mg/Kg	BL
SB	JAD106	S117093B*4	BD061X0.5	N		METALS	SW7060A	SW3050	Arsenic	2.8	=	2.8	J	0.36	1	mg/Kg	MS
SB	JAD106	S117093*4	BD061X0.5	N		METALS	SW6010B	SW3050	Lead	180	N	180	J	0.21	0.6	mg/Kg	MS
SB	JAD106	S117093*4	BD061X0.5	N		METALS	SW6010B	SW3050	Sodium	40	B	40	U	24	1000	mg/Kg	BL
SB	JAD112	S117155A*2	BD066X0.5	N		METALS	SW6010B	SW3050	Cobalt	0.34	B	0.34	U	0.1	11	mg/Kg	BL
SB	JAD112	S117155A*2	BD066X0.5	N		METALS	SW6010B	SW3050	Copper	20	=	20	J	0.38	5.3	mg/Kg	MS
SB	JAD112	S117155A*2	BD066X0.5	N		METALS	SW6010B	SW3050	Lead	60	=	60	J	0.22	0.63	mg/Kg	MS
SB	JAD112	S117155A*2	BD066X0.5	N		METALS	SW6010B	SW3050	Manganese	30	=	30	J	0.11	3.2	mg/Kg	MD,MS
SB	JAD112	S117155A*2	BD066X0.5	N		METALS	SW6010B	SW3050	Zinc	60	=	60	J	0.52	4.2	mg/Kg	MS
SB	JAD112	S117155A*3	BD066X0.5FD	FD		METALS	SW6010B	SW3050	Antimony	0.25	U	0.25	UJ	0.25	12	mg/Kg	MS
SB	JAD112	S117155A*3	BD066X0.5FD	FD		METALS	SW6010B	SW3050	Cobalt	0.29	B	0.29	U	0.096	10	mg/Kg	BL
SB	JAD112	S117155A*3	BD066X0.5FD	FD		METALS	SW6010B	SW3050	Copper	9.7	=	9.7	J	0.36	5.1	mg/Kg	MS
SB	JAD112	S117155A*3	BD066X0.5FD	FD		METALS	SW6010B	SW3050	Lead	58	=	58	J	0.21	0.61	mg/Kg	MS
SB	JAD112	S117155A*3	BD066X0.5FD	FD		METALS	SW6010B	SW3050	Manganese	34	=	34	J	0.11	3	mg/Kg	MD,MS

3 10 C 478

Matrix	SDG	Lab Sample ID	Sample ID	Sample Type	LR Type	Parameter Class	Analytical Method	Preparation Method	Parameter	Lab Result	Lab Qual	Final Result	Final Qual	Detection Limit	Reporting Limit	Units	Validation Notes
SB	JAD112	S117155A*3	BD066X0.5FD	FD		METALS	SW6010B	SW3050	Zinc	55	=	55	J	0.5	4	mg/Kg	MS
SB	JAD105	S117006C*2	BD070X0.5	N		METALS	SW7060A	SW3050	Arsenic	1.5	N	1.5	J	0.37	1.1	mg/Kg	MS
SB	JAD105	S117006A*2	BD070X0.5	N		METALS	SW6010B	SW3050	Copper	27	N	27	J	0.38	5.3	mg/Kg	MS
SB	JAD105	S117006A*2	BD070X0.5	N		METALS	SW6010B	SW3050	Lead	75	N	75	J	0.22	0.63	mg/Kg	MS
SB	JAD105	S117006A*2	BD070X0.5	N		METALS	SW6010B	SW3050	Manganese	37	N*	37	J	0.11	3.2	mg/Kg	MD,MS
SB	JAD105	S117006A*2	BD070X0.5	N		METALS	SW6010B	SW3050	Zinc	87	N	87	J	0.52	4.2	mg/Kg	MS
SB	JAD112	S117155A*10	BD071X0.5	N		METALS	SW6010B	SW3050	Cobalt	0.3	B	0.3	U	0.096	10	mg/Kg	BL
SB	JAD112	S117155A*10	BD071X0.5	N		METALS	SW6010B	SW3050	Copper	21	=	21	J	0.36	5.1	mg/Kg	MS
SB	JAD112	S117155A*10	BD071X0.5	N		METALS	SW6010B	SW3050	Lead	100	=	100	J	0.21	0.61	mg/Kg	MS
SB	JAD112	S117155A*10	BD071X0.5	N		METALS	SW6010B	SW3050	Manganese	39	=	39	J	0.11	3	mg/Kg	MD,MS
SB	JAD112	S117155A*10	BD071X0.5	N		METALS	SW6010B	SW3050	Zinc	86	=	86	J	0.5	4	mg/Kg	MS
SB	JAD101	S116955*1	BD076N0.5	N		METALS	SW6010B	SW3050	Lead	130	N	130	J	0.4	0.47	mg/Kg	MS
SB	JAD102	S116955A*6	BD076X0.5	N		METALS	SW6010B	SW3050	Copper	6.7	N	6.7	J	0.38	5.2	mg/Kg	MS
SB	JAD102	S116955A*6	BD076X0.5	N		METALS	SW6010B	SW3050	Lead	79	N	79	J	0.22	0.62	mg/Kg	MS
SB	JAD102	S116955A*6	BD076X0.5	N		METALS	SW6010B	SW3050	Manganese	30	N	30	J	0.11	3.1	mg/Kg	MS
SB	JAD102	S116988A*1	BD081X0.5	N		METALS	SW6010B	SW3050	Antimony	0.26	UN	0.26	UJ	0.26	13	mg/Kg	MS
SB	JAD102	S116988A*1	BD081X0.5	N		METALS	SW6010B	SW3050	Lead	18	N	18	J	0.22	0.63	mg/Kg	MS
SB	JAD102	S116988A*1	BD081X0.5	N		METALS	SW6010B	SW3050	Manganese	12	N	12	J	0.11	3.2	mg/Kg	MS
SB	JAD102	S116988A*1	BD081X0.5	N		METALS	SW7471A	METHOD	Mercury	0.019	BN*	0.019	U	0.0029	0.11	mg/Kg	BL
SB	JAD112	S117155A*4	BD086X0.5	N		METALS	SW6010B	SW3050	Antimony	0.26	U	0.26	UJ	0.26	13	mg/Kg	MS
SB	JAD112	S117155A*4	BD086X0.5	N		METALS	SW6010B	SW3050	Cobalt	0.24	B	0.24	U	0.099	10	mg/Kg	BL
SB	JAD112	S117155A*4	BD086X0.5	N		METALS	SW6010B	SW3050	Copper	7.8	=	7.8	J	0.38	5.2	mg/Kg	MS
SB	JAD112	S117155A*4	BD086X0.5	N		METALS	SW6010B	SW3050	Lead	52	=	52	J	0.22	0.63	mg/Kg	MS
SB	JAD112	S117155A*4	BD086X0.5	N		METALS	SW6010B	SW3050	Manganese	16	=	16	J	0.11	3.1	mg/Kg	MD,MS
SB	JAD112	S117155A*4	BD086X0.5	N		METALS	SW6010B	SW3050	Zinc	51	=	51	J	0.51	4.2	mg/Kg	MS
SB	JAD101	S116955B*2	BD091N0.5	N		METALS	SW7060A	SW3050	Arsenic	7.4	N	7.4	J	0.39	1.1	mg/Kg	MS
SB	JAD101	S116955*2	BD091N0.5	N		METALS	SW6010B	SW3050	Lead	290	N	290	J	0.42	0.51	mg/Kg	MS
SB	JAD102	S116955C*2	BD091X0.5	N		METALS	SW7060A	SW3050	Arsenic	2.1	=	2.1	J	0.35	1	mg/Kg	MS
SB	JAD102	S116955A*2	BD091X0.5	N		METALS	SW6010B	SW3050	Copper	27	N	27	J	0.38	5.3	mg/Kg	MS
SB	JAD102	S116955A*2	BD091X0.5	N		METALS	SW6010B	SW3050	Lead	95	N	95	J	0.22	0.63	mg/Kg	MS
SB	JAD102	S116955A*2	BD091X0.5	N		METALS	SW6010B	SW3050	Manganese	32	N	32	J	0.11	3.2	mg/Kg	MS
SB	JAD102	S116955A*2	BD091X0.5	N		METALS	SW7471A	METHOD	Mercury	0.17	N*	0.17	J	0.0028	0.1	mg/Kg	MS
SB	JAD102	S116955C*3	BD091X0.5FD	FD		METALS	SW7060A	SW3050	Arsenic	1.5	=	1.5	J	0.35	1	mg/Kg	MS
SB	JAD102	S116955A*3	BD091X0.5FD	FD		METALS	SW6010B	SW3050	Copper	36	N	36	J	0.38	5.2	mg/Kg	MS
SB	JAD102	S116955A*3	BD091X0.5FD	FD		METALS	SW6010B	SW3050	Lead	92	N	92	J	0.22	0.63	mg/Kg	MS
SB	JAD102	S116955A*3	BD091X0.5FD	FD		METALS	SW6010B	SW3050	Manganese	83	N	83	J	0.11	3.1	mg/Kg	MS
SB	JAD102	S116955A*3	BD091X0.5FD	FD		METALS	SW7471A	METHOD	Mercury	0.16	N*	0.16	J	0.0028	0.099	mg/Kg	MS
SB	JAD112	S117155A*5	BD096X0.5	N		METALS	SW7060A	SW3050	Arsenic	1.9	=	1.9	J	0.38	1.1	mg/Kg	MS
SB	JAD112	S117155A*5	BD096X0.5	N		METALS	SW6010B	SW3050	Copper	18	=	18	J	0.38	5.2	mg/Kg	MS
SB	JAD112	S117155A*5	BD096X0.5	N		METALS	SW6010B	SW3050	Lead	60	=	60	J	0.22	0.63	mg/Kg	MS
SB	JAD112	S117155A*5	BD096X0.5	N		METALS	SW6010B	SW3050	Magnesium	3700	=	3700	J	3.5	1000	mg/Kg	MD,MS
SB	JAD112	S117155A*5	BD096X0.5	N		METALS	SW6010B	SW3050	Manganese	71	=	71	J	0.11	3.1	mg/Kg	MD,MS
SB	JAD112	S117155A*5	BD096X0.5	N		METALS	SW6010B	SW3050	Zinc	180	=	180	J	0.51	4.2	mg/Kg	MS
SB	JAD105	S117006A*1	BD099X0.5	N		METALS	SW6010B	SW3050	Antimony	0.26	UN	0.26	UJ	0.26	12	mg/Kg	MS
SB	JAD105	S117006A*1	BD099X0.5	N		METALS	SW6010B	SW3050	Lead	13	N	13	J	0.21	0.61	mg/Kg	MS
SB	JAD105	S117006A*1	BD099X0.5	N		METALS	SW6010B	SW3050	Manganese	13	N*	13	J	0.11	3.1	mg/Kg	MD,MS
SB	JAD105	S117006A*1	BD099X0.5	N		METALS	SW6010B	SW3050	Zinc	17	N	17	J	0.5	4.1	mg/Kg	MS
SB	JAD105	S117006A*4	BD105X0.5	N		METALS	SW6010B	SW3050	Antimony	0.29	UN	0.29	UJ	0.29	14	mg/Kg	MS
SB	JAD105	S117006C*4	BD105X0.5	N		METALS	SW7060A	SW3050	Arsenic	1.6	N	1.6	J	0.35	1	mg/Kg	MS
SB	JAD105	S117006A*4	BD105X0.5	N		METALS	SW6010B	SW3050	Lead	32	N	32	J	0.24	0.69	mg/Kg	MS
SB	JAD105	S117006A*4	BD105X0.5	N		METALS	SW6010B	SW3050	Manganese	16	N*	16	J	0.12	3.5	mg/Kg	MD,MS
SB	JAD105	S117006A*4	BD105X0.5	N		METALS	SW6010B	SW3050	Zinc	52	N	52	J	0.57	4.6	mg/Kg	MS
SB	JAD112	S117155A*1	BD111X0.5	N		METALS	SW7060A	SW3050	Arsenic	1.1	=	1.1	J	0.36	1	mg/Kg	MS
SB	JAD112	S117155A*1	BD111X0.5	N		METALS	SW6010B	SW3050	Copper	29	=	29	J	0.36	5	mg/Kg	MS

3 10 (479

Matrix	SDG	Lab Sample ID	Sample ID	Sample Type	LR Type	Parameter Class	Analytical Method	Preparation Method	Parameter	Lab Result	Lab Qual	Final Result	Final Qual	Detection Limit	Reporting Limit	Units	Validation Notes
SB	JAD112	S117155A*1	BD111X0.5	N		METALS	SW6010B	SW3050	Lead	99	=	99	J	0.21	0.6	mg/Kg	MS
SB	JAD112	S117155A*1	BD111X0.5	N		METALS	SW6010B	SW3050	Manganese	68	=	68	J	0.1	3	mg/Kg	MD,MS
SB	JAD112	S117155A*1	BD111X0.5	N		METALS	SW6010B	SW3050	Zinc	140	=	140	J	0.49	4	mg/Kg	MS
SB	JAD195	S243366*8	BD113C2.0	N		METALS	SW7060A	SW3050	Arsenic	2.3	N	2.3	J	0.35	0.99	mg/Kg	MS
SS	JAD195	S243366*4	BD113E0.0	N		METALS	SW7060A	SW3050	Arsenic	2.7	N	2.7	J	0.38	1.1	mg/Kg	MS
SB	JAD195	S243366*5	BD113E1.0	N		METALS	SW7060A	SW3050	Arsenic	2.8	N	2.8	J	0.35	0.99	mg/Kg	MS
SS	JAD195	S243366*3	BD113N0.0	N		METALS	SW7060A	SW3050	Arsenic	1.9	N	1.9	J	0.34	0.96	mg/Kg	MS
SS	JAD195	S243366*6	BD113W0.0	N		METALS	SW7060A	SW3050	Arsenic	3.3	N	3.3	J	0.35	0.99	mg/Kg	MS
SB	JAD195	S243366*2	BD113X0.5	N		METALS	SW7060A	SW3050	Arsenic	3.1	N	3.1	J	0.37	1.1	mg/Kg	MS
SB	JAD101	S116988B*1	BD116E1.5	N		METALS	SW7060A	SW3050	Arsenic	2.4	N	2.4	J	0.41	1.2	mg/Kg	MS
SB	JAD102	S116988C*4	BD116X0.5	N		METALS	SW7060A	SW3050	Arsenic	5.1	=	5.1	J	0.35	1	mg/Kg	MS
SB	JAD102	S116988A*4	BD116X0.5	N		METALS	SW6010B	SW3050	Copper	91	N	91	J	0.41	5.7	mg/Kg	MS
SB	JAD102	S116988A*4	BD116X0.5	N		METALS	SW6010B	SW3050	Lead	570	N	570	J	0.24	0.68	mg/Kg	MS
SB	JAD102	S116988A*4	BD116X0.5	N		METALS	SW6010B	SW3050	Manganese	200	N	200	J	0.12	3.4	mg/Kg	MS
SB	JAD101	S116988B*4	BD121C1.0	N		METALS	SW7060A	SW3050	Arsenic	2.1	UN	2.1	UJ	0.73	2.1	mg/Kg	MS
SB	JAD101	S116988B*2	BD121N2.0	N		METALS	SW7060A	SW3050	Arsenic	2.7	N	2.7	J	0.86	2.5	mg/Kg	MS
SB	JAD101	S116988B*3	BD121W1.0	N		METALS	SW7060A	SW3050	Arsenic	3	N	3	J	0.78	2.2	mg/Kg	MS
SB	JAD102	S116988C*2	BD121X0.5	N		METALS	SW7060A	SW3050	Arsenic	1.1	=	1.1	J	0.32	0.91	mg/Kg	MS
SB	JAD102	S116988A*2	BD121X0.5	N		METALS	SW6010B	SW3050	Copper	51	N	51	J	0.37	5.2	mg/Kg	MS
SB	JAD102	S116988A*2	BD121X0.5	N		METALS	SW6010B	SW3050	Lead	180	N	180	J	0.22	0.62	mg/Kg	MS
SB	JAD102	S116988A*2	BD121X0.5	N		METALS	SW6010B	SW3050	Manganese	100	N	100	J	0.11	3.1	mg/Kg	MS
SB	JAD102	S116988A*5	BD126X0.5	N		METALS	SW6010B	SW3050	Antimony	0.27	UN	0.27	UJ	0.27	13	mg/Kg	MS
SB	JAD102	S116988A*5	BD126X0.5	N		METALS	SW6010B	SW3050	Copper	13	N	13	J	0.38	5.3	mg/Kg	MS
SB	JAD102	S116988A*5	BD126X0.5	N		METALS	SW6010B	SW3050	Lead	61	N	61	J	0.22	0.64	mg/Kg	MS
SB	JAD102	S116988A*5	BD126X0.5	N		METALS	SW6010B	SW3050	Manganese	140	N	140	J	0.11	3.2	mg/Kg	MS
SB	JAD162	S240580*3	BD129C1.0	N		METALS	SW7060A	SW3050	Arsenic	2.2	N	2.2	J	0.43	1.2	mg/Kg	MS
SB	JAD162	S240580*4	BD130N2.0	N		METALS	SW7060A	SW3050	Arsenic	2.4	N	2.4	J	0.4	1.1	mg/Kg	MS
SB	JAD162	S240580*5	BD132W1.0	N		METALS	SW7060A	SW3050	Arsenic	1.7	N	1.7	J	0.4	1.1	mg/Kg	MS
SB	JAD162	S240580*1	BD132W1.0FD	N		METALS	SW7060A	SW3050	Arsenic	3.4	N	3.4	J	0.44	1.3	mg/Kg	MS
SB	JAD162	S240580*6	BD133E1.0	N		METALS	SW7060A	SW3050	Arsenic	3	N	3	J	0.37	1.1	mg/Kg	MS
SS	JAD162	S240580*8	BD134C0.0	N		METALS	SW7060A	SW3050	Arsenic	1.5	N	1.5	J	0.38	1.1	mg/Kg	MS
SB	JAD104	S117006B*8	BD145N2.0	N		METALS	SW7060A	SW3050	Arsenic	1.5	N	1.5	J	0.38	1.1	mg/Kg	MS
SB	JAD105	S117006A*5	BD145X0.5	N		METALS	SW6010B	SW3050	Antimony	0.26	UN	0.26	UJ	0.26	13	mg/Kg	MS
SB	JAD105	S117006A*5	BD145X0.5	N		METALS	SW6010B	SW3050	Copper	8.2	N	8.2	J	0.38	5.3	mg/Kg	MS
SB	JAD105	S117006A*5	BD145X0.5	N		METALS	SW6010B	SW3050	Lead	49	N	49	J	0.22	0.63	mg/Kg	MS
SB	JAD105	S117006A*5	BD145X0.5	N		METALS	SW6010B	SW3050	Manganese	21	N*	21	J	0.11	3.2	mg/Kg	MD,MS
SB	JAD105	S117006A*5	BD145X0.5	N		METALS	SW6010B	SW3050	Zinc	76	N	76	J	0.52	4.2	mg/Kg	MS
SS	JAD104	S117006B*13	BD148E0.0	N		METALS	SW7060A	SW3050	Arsenic	2.2	UN	2.2	UJ	0.76	2.2	mg/Kg	MS
SB	JAD104	S117006B*14	BD148E1.5	N		METALS	SW7060A	SW3050	Arsenic	1.9	N	1.9	J	0.4	1.1	mg/Kg	MS
SS	JAD104	S117006B*9	BD148N0.0	N		METALS	SW7060A	SW3050	Arsenic	1.8	N	1.8	J	0.36	1	mg/Kg	MS
SB	JAD104	S117006B*10	BD148N0.5	N		METALS	SW7060A	SW3050	Arsenic	1.5	N	1.5	J	0.37	1.1	mg/Kg	MS
SB	JAD104	S117006B*11	BD148N1.0	N		METALS	SW7060A	SW3050	Arsenic	1.6	N	1.6	J	0.32	0.9	mg/Kg	MS
SB	JAD104	S117006B*12	BD148N2.0	N		METALS	SW7060A	SW3050	Arsenic	3.2	N	3.2	J	0.41	1.2	mg/Kg	MS
SB	JAD104	S117006B*15	BD148S1.0	N		METALS	SW7060A	SW3050	Arsenic	1.3	N	1.3	J	0.35	1	mg/Kg	MS
SB	JAD105	S117006C*3	BD148X0.5	N		METALS	SW7060A	SW3050	Arsenic	1.2	N	1.2	J	0.32	0.91	mg/Kg	MS
SB	JAD105	S117006A*3	BD148X0.5	N		METALS	SW6010B	SW3050	Copper	150	N	150	J	0.4	5.5	mg/Kg	MS
SB	JAD105	S117006A*3	BD148X0.5	N		METALS	SW6010B	SW3050	Lead	300	N	300	J	0.23	0.66	mg/Kg	MS
SB	JAD105	S117006A*3	BD148X0.5	N		METALS	SW6010B	SW3050	Manganese	49	N*	49	J	0.12	3.3	mg/Kg	MD,MS
SB	JAD105	S117006A*3	BD148X0.5	N		METALS	SW6010B	SW3050	Zinc	230	N	230	J	0.54	4.4	mg/Kg	MS
SS	JAD195	S243366*9	BD149N0.0	N		METALS	SW7060A	SW3050	Arsenic	1.8	N	1.8	J	0.34	0.96	mg/Kg	MS
SB	JAD115	S117361*1	BD150X0.5	N		METALS	SW6010B	SW3050	Beryllium	0.1	B	0.1	U	0.028	0.98	mg/Kg	BL
SB	JAD115	S117361*1	BD150X0.5	N		METALS	SW6010B	SW3050	Chromium, total	5.2	N*	5.2	J	0.083	2	mg/Kg	MS
SB	JAD115	S117361*1	BD150X0.5	N		METALS	SW6010B	SW3050	Copper	49	N*	49	J	0.35	4.9	mg/Kg	MS
SB	JAD115	S117361*1	BD150X0.5	N		METALS	SW6010B	SW3050	Lead	110	N*	110	J	0.21	0.59	mg/Kg	MD,MS

3 10 0480

Matrix	SDG	Lab Sample ID	Sample ID	Sample Type	LR Type	Parameter Class	Analytical Method	Preparation Method	Parameter	Lab Result	Lab Qual	Final Result	Final Qual	Detection Limit	Reporting Limit	Units	Validation Notes
SB	JAD115	S117361*1	BD150X0.5	N		METALS	SW6010B	SW3050	Manganese	34	N*	34	J	0.1	2.9	mg/Kg	MS
SB	JAD113	S117237*7	BD155C1.0	N		METALS	SW7060A	SW3050	Arsenic	4.7	N	4.7	J	0.69	2	mg/Kg	MS
SS	JAD113	S117237*1	BD155N0.0	N		METALS	SW7060A	SW3050	Arsenic	5	N	5	J	0.35	1	mg/Kg	MS
SB	JAD113	S117237*3	BD155S1.0	N		METALS	SW7060A	SW3050	Arsenic	1.2	N	1.2	J	0.39	1.1	mg/Kg	MS
SB	JAD113	S117237*5	BD155W1.0	N		METALS	SW7060A	SW3050	Arsenic	3.9	N	3.9	J	0.88	2.5	mg/Kg	MS
SB	JAD113	S117237*6	BD155W1.5	N		METALS	SW7060A	SW3050	Arsenic	2.2	N	2.2	J	0.69	2	mg/Kg	MS
SB	JAD113	S117237*15	BD155X0.5	N		METALS	SW7060A	SW3050	Arsenic	3.3	N	3.3	J	0.35	1	mg/Kg	MS
SB	JAD112	S117155A*7	BD156X0.5	N		METALS	SW7060A	SW3050	Arsenic	3.4	=	3.4	J	0.35	0.99	mg/Kg	MS
SB	JAD112	S117155A*7	BD156X0.5	N		METALS	SW6010B	SW3050	Copper	16	=	16	J	0.38	5.2	mg/Kg	MS
SB	JAD112	S117155A*7	BD156X0.5	N		METALS	SW6010B	SW3050	Lead	67	=	67	J	0.22	0.63	mg/Kg	MS
SB	JAD112	S117155A*7	BD156X0.5	N		METALS	SW6010B	SW3050	Manganese	68	=	68	J	0.11	3.1	mg/Kg	MD,MS
SB	JAD112	S117155A*7	BD156X0.5	N		METALS	SW6010B	SW3050	Zinc	96	=	96	J	0.51	4.2	mg/Kg	MS
SB	JAD113	S117237*8	BD158S2.0	N		METALS	SW7060A	SW3050	Arsenic	1.3	UN	1.3	UJ	0.45	1.3	mg/Kg	MS
SS	JAD113	S117237*9	BD158W0.0	N		METALS	SW7060A	SW3050	Arsenic	3.9	N	3.9	J	0.35	0.99	mg/Kg	MS
SB	JAD101	S116955B*4	BD161C2.0	N		METALS	SW7060A	SW3050	Arsenic	1.8	N	1.8	J	0.35	1	mg/Kg	MS
SB	JAD101	S116955*4	BD161C2.0	N		METALS	SW6010B	SW3050	Lead	160	N	160	J	0.46	0.55	mg/Kg	MS
SB	JAD101	S116955*3	BD161S1.0	N		METALS	SW6010B	SW3050	Lead	420	N	420	J	0.44	0.53	mg/Kg	MS
SB	JAD102	S116955C*5	BD161X0.5	N		METALS	SW7060A	SW3050	Arsenic	1.5	=	1.5	J	0.32	0.91	mg/Kg	MS
SB	JAD102	S116955A*5	BD161X0.5	N		METALS	SW6010B	SW3050	Copper	41	N	41	J	0.37	5.1	mg/Kg	MS
SB	JAD102	S116955A*5	BD161X0.5	N		METALS	SW6010B	SW3050	Lead	130	N	130	J	0.21	0.61	mg/Kg	MS
SB	JAD102	S116955A*5	BD161X0.5	N		METALS	SW6010B	SW3050	Manganese	82	N	82	J	0.11	3.1	mg/Kg	MS
SB	JAD102	S116955A*5	BD161X0.5	N		METALS	SW7471A	METHOD	Mercury	0.12	N*	0.12	J	0.003	0.11	mg/Kg	MS
SB	JAD112	S117155A*8	BD166X0.5	N		METALS	SW7060A	SW3050	Arsenic	2.3	=	2.3	J	0.34	0.97	mg/Kg	MS
SB	JAD112	S117155A*8	BD166X0.5	N		METALS	SW6010B	SW3050	Copper	24	=	24	J	0.34	4.8	mg/Kg	MS
SB	JAD112	S117155A*8	BD166X0.5	N		METALS	SW6010B	SW3050	Lead	71	=	71	J	0.2	0.57	mg/Kg	MS
SB	JAD112	S117155A*8	BD166X0.5	N		METALS	SW6010B	SW3050	Manganese	100	=	100	J	0.1	2.9	mg/Kg	MD,MS
SB	JAD112	S117155A*8	BD166X0.5	N		METALS	SW6010B	SW3050	Zinc	100	=	100	J	0.47	3.8	mg/Kg	MS
SB	JAD115	S117270A*4	BD172X0.5	N		METALS	SW6010B	SW3050	Antimony	0.25	UN*	0.25	UJ	0.25	12	mg/Kg	MD,MS
SB	JAD115	S117270A*4	BD172X0.5	N		METALS	SW6010B	SW3050	Beryllium	0.073	B	0.073	U	0.029	1	mg/Kg	BL
SB	JAD115	S117270A*4	BD172X0.5	N		METALS	SW6010B	SW3050	Chromium, total	3.7	N*	3.7	J	0.086	2	mg/Kg	MS
SB	JAD115	S117270A*4	BD172X0.5	N		METALS	SW6010B	SW3050	Lead	29	N*	29	J	0.21	0.61	mg/Kg	MD,MS
SB	JAD115	S117270A*4	BD172X0.5	N		METALS	SW6010B	SW3050	Manganese	26	N*	26	J	0.11	3	mg/Kg	MS
SB	JAD115	S117270A*4	BD172X0.5	N		METALS	SW7471A	METHOD	Mercury	0.15	=	0.15	J	0.0029	0.11	mg/Kg	MS
SB	JAD101	S116988B*6	BD176C2.0	N		METALS	SW7060A	SW3050	Arsenic	2.6	N	2.6	J	0.41	1.2	mg/Kg	MS
SB	JAD102	S116988A*6	BD176X0.5	N		METALS	SW6010B	SW3050	Antimony	0.27	UN	0.27	UJ	0.27	13	mg/Kg	MS
SB	JAD102	S116988A*6	BD176X0.5	N		METALS	SW6010B	SW3050	Copper	16	N	16	J	0.39	5.4	mg/Kg	MS
SB	JAD102	S116988A*6	BD176X0.5	N		METALS	SW6010B	SW3050	Lead	38	N	38	J	0.23	0.65	mg/Kg	MS
SB	JAD102	S116988A*6	BD176X0.5	N		METALS	SW6010B	SW3050	Manganese	42	N	42	J	0.11	3.2	mg/Kg	MS
SB	JAD162	S240580*9	BD178C2.0	N		METALS	SW7060A	SW3050	Arsenic	1.2	UN	1.2	UJ	0.4	1.2	mg/Kg	MS
SB	JAD113	S117237*11	BD183W1.0	N		METALS	SW7060A	SW3050	Arsenic	2.9	SN	2.9	J	0.66	1.9	mg/Kg	MS
SB	JAD113	S117237*17	BD183W1.0FD	N		METALS	SW7060A	SW3050	Arsenic	1.9	UN	1.9	UJ	0.67	1.9	mg/Kg	MS
SB	JAD115	S117270A*2	BD189X0.5	N		METALS	SW6010B	SW3050	Antimony	0.27	UN*	0.27	UJ	0.27	13	mg/Kg	MD,MS
SB	JAD115	S117270A*2	BD189X0.5	N		METALS	SW6010B	SW3050	Chromium, total	8.2	N*	8.2	J	0.094	2.2	mg/Kg	MS
SB	JAD115	S117270A*2	BD189X0.5	N		METALS	SW6010B	SW3050	Copper	11	N*	11	J	0.4	5.5	mg/Kg	MS
SB	JAD115	S117270A*2	BD189X0.5	N		METALS	SW6010B	SW3050	Lead	40	N*	40	J	0.23	0.66	mg/Kg	MD,MS
SB	JAD115	S117270A*2	BD189X0.5	N		METALS	SW6010B	SW3050	Manganese	57	N*	57	J	0.12	3.3	mg/Kg	MS
SB	JAD115	S117270A*3	BD192X0.5	N		METALS	SW6010B	SW3050	Beryllium	0.076	B	0.076	U	0.031	1.1	mg/Kg	BL
SB	JAD115	S117270A*3	BD192X0.5	N		METALS	SW6010B	SW3050	Chromium, total	5.4	N*	5.4	J	0.092	2.2	mg/Kg	MS
SB	JAD115	S117270A*3	BD192X0.5	N		METALS	SW6010B	SW3050	Copper	9.6	N*	9.6	J	0.39	5.4	mg/Kg	MS
SB	JAD115	S117270A*3	BD192X0.5	N		METALS	SW6010B	SW3050	Lead	66	N*	66	J	0.23	0.65	mg/Kg	MD,MS
SB	JAD115	S117270A*3	BD192X0.5	N		METALS	SW6010B	SW3050	Manganese	34	N*	34	J	0.11	3.3	mg/Kg	MS
SB	JAD112	S117155A*9	BD196X0.5	N		METALS	SW6010B	SW3050	Copper	14	=	14	J	0.37	5.1	mg/Kg	MS
SB	JAD112	S117155A*9	BD196X0.5	N		METALS	SW6010B	SW3050	Lead	100	=	100	J	0.21	0.61	mg/Kg	MS
SB	JAD112	S117155A*9	BD196X0.5	N		METALS	SW6010B	SW3050	Manganese	44	=	44	J	0.11	3.1	mg/Kg	MD,MS

3 10 (461

Table 2 - Changed Qualifiers

Matrix	SDG	Lab Sample ID	Sample ID	Sample Type	LR Type	Parameter Class	Analytical Method	Preparation Method	Parameter	Lab Result	Lab Qual	Final Result	Final Qual	Detection Limit	Reporting Limit	Units	Validation Notes
SB	JAD112	S117155A*9	BD196X0.5	N		METALS	SW6010B	SW3050	Zinc	150	=	150	J	0.5	4.1	mg/Kg	MS
SB	JAD106	S117093*3	BD200X0.5	N		METALS	SW6010B	SW3050	Antimony	0.28	UN	0.28	UJ	0.28	13	mg/Kg	MS
SB	JAD106	S117093*3	BD200X0.5	N		METALS	SW6010B	SW3050	Lead	37	N	37	J	0.23	0.67	mg/Kg	MS
SB	JAD106	S117093*3	BD200X0.5	N		METALS	SW6010B	SW3050	Sodium	57	B	57	U	27	1100	mg/Kg	BL
SB	JAD112	S117155A*6	BD206X0.5	N		METALS	SW6010B	SW3050	Antimony	0.26	U	0.26	UJ	0.26	13	mg/Kg	MS
SB	JAD112	S117155A*6	BD206X0.5	N		METALS	SW7060A	SW3050	Arsenic	1.9	=	1.9	J	0.35	1	mg/Kg	MS
SB	JAD112	S117155A*6	BD206X0.5	N		METALS	SW6010B	SW3050	Copper	28	=	28	J	0.38	5.3	mg/Kg	MS
SB	JAD112	S117155A*6	BD206X0.5	N		METALS	SW6010B	SW3050	Lead	89	=	89	J	0.22	0.64	mg/Kg	MS
SB	JAD112	S117155A*6	BD206X0.5	N		METALS	SW6010B	SW3050	Manganese	40	=	40	J	0.11	3.2	mg/Kg	MD,MS
SB	JAD112	S117155A*6	BD206X0.5	N		METALS	SW6010B	SW3050	Zinc	150	=	150	J	0.52	4.3	mg/Kg	MS
SB	JAD102	S116988A*3	BD211X0.5	N		METALS	SW6010B	SW3050	Antimony	0.27	UN	0.27	UJ	0.27	13	mg/Kg	MS
SB	JAD102	S116988C*3	BD211X0.5	N		METALS	SW7060A	SW3050	Arsenic	2.7	=	2.7	J	0.32	0.91	mg/Kg	MS
SB	JAD102	S116988A*3	BD211X0.5	N		METALS	SW6010B	SW3050	Lead	13	N	13	J	0.23	0.65	mg/Kg	MS
SB	JAD102	S116988A*3	BD211X0.5	N		METALS	SW6010B	SW3050	Manganese	7.8	N	7.8	J	0.11	3.2	mg/Kg	MS
SB	JAD102	S116988A*3	BD211X0.5	N		METALS	SW7471A	METHOD	Mercury	0.023	BN*	0.023	U	0.003	0.11	mg/Kg	BL
SB	JAD120	S117386*7	BD224N2.0	N		METALS	SW7060A	SW3050	Arsenic	2.6	N*	2.6	J	0.39	1.1	mg/Kg	MD,MS
SB	JAD120	S117386*17	BD224N2.0FD	N		METALS	SW7060A	SW3050	Arsenic	3.2	N*	3.2	J	0.42	1.2	mg/Kg	MD,MS
SB	JAD113	S117237*13	BD226C1.0	N		METALS	SW7060A	SW3050	Arsenic	13	N	13	J	3.7	11	mg/Kg	MS
SB	JAD113	S117237*12	BD226N1.0	N		METALS	SW7060A	SW3050	Arsenic	3.4	N	3.4	J	0.37	1.1	mg/Kg	MS
SB	JAD113	S117237*16	BD226X0.5	N		METALS	SW7060A	SW3050	Arsenic	2.4	N	2.4	J	0.71	2	mg/Kg	MS
SS	JAD104	S117006B*21	BD227C0.0	N		METALS	SW7060A	SW3050	Arsenic	3.3	N	3.3	J	0.41	1.2	mg/Kg	MS
SS	JAD104	S117006B*20	BD227C0.0FD	FD		METALS	SW7060A	SW3050	Arsenic	3.6	N	3.6	J	0.69	2	mg/Kg	MS
SB	JAD104	S117006B*22	BD227C1.0	N		METALS	SW7060A	SW3050	Arsenic	4.5	N	4.5	J	0.41	1.2	mg/Kg	MS
SB	JAD104	S117006B*17	BD227E0.5	N		METALS	SW7060A	SW3050	Arsenic	4.9	N	4.9	J	0.72	2.1	mg/Kg	MS
SB	JAD104	S117006B*16	BD227N1.0	N		METALS	SW7060A	SW3050	Arsenic	5.2	N	5.2	J	0.39	1.1	mg/Kg	MS
SS	JAD104	S117006B*18	BD227S0.0	N		METALS	SW7060A	SW3050	Arsenic	4.6	N	4.6	J	0.8	2.3	mg/Kg	MS
SB	JAD104	S117006B*19	BD227S0.5	N		METALS	SW7060A	SW3050	Arsenic	5.9	N	5.9	J	0.79	2.2	mg/Kg	MS
SB	JAD105	S117006C*6	BD227X0.5	N		METALS	SW7060A	SW3050	Arsenic	3.9	N	3.9	J	0.36	1	mg/Kg	MS
SB	JAD105	S117006A*6	BD227X0.5	N		METALS	SW6010B	SW3050	Copper	170	N	170	J	0.41	5.7	mg/Kg	MS
SB	JAD105	S117006A*6	BD227X0.5	N		METALS	SW6010B	SW3050	Lead	460	N	460	J	0.24	0.68	mg/Kg	MS
SB	JAD105	S117006A*6	BD227X0.5	N		METALS	SW6010B	SW3050	Manganese	770	N*	770	J	0.12	3.4	mg/Kg	MD,MS
SB	JAD105	S117006A*6	BD227X0.5	N		METALS	SW6010B	SW3050	Zinc	740	N	740	J	0.56	4.5	mg/Kg	MS
SB	JAD105	S117006C*7	BD227X0.5FD	FD		METALS	SW7060A	SW3050	Arsenic	2.8	N	2.8	J	0.37	1	mg/Kg	MS
SB	JAD105	S117006A*7	BD227X0.5FD	FD		METALS	SW6010B	SW3050	Copper	170	N	170	J	0.41	5.7	mg/Kg	MS
SB	JAD105	S117006A*7	BD227X0.5FD	FD		METALS	SW6010B	SW3050	Lead	420	N	420	J	0.24	0.69	mg/Kg	MS
SB	JAD105	S117006A*7	BD227X0.5FD	FD		METALS	SW6010B	SW3050	Manganese	270	N*	270	J	0.12	3.4	mg/Kg	MD,MS
SB	JAD105	S117006A*7	BD227X0.5FD	FD		METALS	SW6010B	SW3050	Zinc	690	N	690	J	0.56	4.6	mg/Kg	MS
SB	JAD114	S117270*1	BD252C1.5	N		METALS	SW7060A	SW3050	Arsenic	2.8	=	2.8	J	0.8	2.3	mg/Kg	MS
SB	JAD114	S117270*1	BD252C1.5	N		METALS	SW6010B	SW3050	Lead	280	=	280	J	0.53	0.76	mg/Kg	MS
SB	JAD115	S117270A*5	BD252X0.5	N		METALS	SW7060A	SW3050	Arsenic	0.99	UN	0.99	UJ	0.35	0.99	mg/Kg	MS
SB	JAD115	S117270A*5	BD252X0.5	N		METALS	SW6010B	SW3050	Beryllium	0.1	B	0.1	U	0.03	1	mg/Kg	BL
SB	JAD115	S117270A*5	BD252X0.5	N		METALS	SW6010B	SW3050	Chromium, total	6.5	N*	6.5	J	0.089	2.1	mg/Kg	MS
SB	JAD115	S117270A*5	BD252X0.5	N		METALS	SW6010B	SW3050	Copper	12	N*	12	J	0.38	5.2	mg/Kg	MS
SB	JAD115	S117270A*5	BD252X0.5	N		METALS	SW6010B	SW3050	Lead	270	N*	270	J	0.22	0.63	mg/Kg	MD,MS
SB	JAD115	S117270A*5	BD252X0.5	N		METALS	SW6010B	SW3050	Manganese	29	N*	29	J	0.11	3.1	mg/Kg	MS
SB	JAD114	S117270*2	BD253S2.0	N		METALS	SW7060A	SW3050	Arsenic	1.2	=	1.2	J	0.37	1	mg/Kg	MS
SB	JAD114	S117270*2	BD253S2.0	N		METALS	SW6010B	SW3050	Lead	110	=	110	J	0.4	0.57	mg/Kg	MS
SB	JAD113	S117237*14	BD253W1.5	N		METALS	SW7060A	SW3050	Arsenic	1.5	N	1.5	J	0.37	1	mg/Kg	MS
SB	JAD106	S117093*6	BD256X0.5	N		METALS	SW6010B	SW3050	Antimony	0.24	UN	0.24	UJ	0.24	11	mg/Kg	MS
SB	JAD106	S117093*6	BD256X0.5	N		METALS	SW6010B	SW3050	Lead	21	N	21	J	0.2	0.57	mg/Kg	MS
SB	JAD115	S117270A*1	BD260X0.5	N		METALS	SW7060A	SW3050	Arsenic	0.99	UN	0.99	UJ	0.35	0.99	mg/Kg	MS
SB	JAD115	S117270A*1	BD260X0.5	N		METALS	SW6010B	SW3050	Beryllium	0.11	B	0.11	U	0.03	1	mg/Kg	BL
SB	JAD115	S117270A*1	BD260X0.5	N		METALS	SW6010B	SW3050	Chromium, total	8.2	N*	8.2	J	0.089	2.1	mg/Kg	MS
SB	JAD115	S117270A*1	BD260X0.5	N		METALS	SW6010B	SW3050	Copper	8.6	N*	8.6	J	0.38	5.2	mg/Kg	MS

3 10 0482

Table 2 - Changed Qualifiers

Matrix	SDG	Lab Sample ID	Sample ID	Sample Type	LR Type	Parameter Class	Analytical Method	Preparation Method	Parameter	Lab Result	Lab Qual	Final Result	Final Qual	Detection Limit	Reporting Limit	Units	Validation Notes
SB	JAD115	S117270A*1	BD260X0.5	N		METALS	SW6010B	SW3050	Lead	36	N*	36	J	0.22	0.63	mg/Kg	MD,MS
SB	JAD115	S117270A*1	BD260X0.5	N		METALS	SW6010B	SW3050	Manganese	33	N*	33	J	0.11	3.1	mg/Kg	MS
SB	JAD115	S117270A*1	BD260X0.5	N		METALS	SW7471A	METHOD	Mercury	0.19	=	0.19	J	0.0028	0.099	mg/Kg	MS
SB	JAD173	S241177*1	BD278X0.5	N		METALS	SW6010B	SW3050	Antimony	0.4	BN	0.4	UJ	0.26	13	mg/Kg	BL,MS
SB	JAD173	S241177*1	BD278X0.5	N		METALS	SW6010B	SW3050	Zinc	53	N	53	J	0.51	4.2	mg/Kg	MS
SB	JAD159	S240153A*8	BD288X0.5	N		METALS	SW6010B	SW3050	Antimony	0.27	UN	0.27	UJ	0.27	13	mg/Kg	MS
SB	JAD159	S240153A*8	BD288X0.5	N		METALS	SW7471A	METHOD	Mercury	0.11	N	0.11	J	0.0028	0.1	mg/Kg	MS
SB	JAD159	S240153A*8	BD288X0.5	N		METALS	SW6010B	SW3050	Sodium	45	B	45	U	27	1100	mg/Kg	BL
SB	JAD120	S117386*10	BD290E1.0	N		METALS	SW7060A	SW3050	Arsenic	2.1	N*	2.1	J	0.34	0.97	mg/Kg	MD,MS
SS	JAD120	S117386*8	BD290N0.0	N		METALS	SW7060A	SW3050	Arsenic	2.5	N*	2.5	J	0.83	2.4	mg/Kg	MD,MS
SB	JAD120	S117386*9	BD290N0.5	N		METALS	SW7060A	SW3050	Arsenic	1.4	N*	1.4	J	0.36	1	mg/Kg	MD,MS
SS	JAD120	S117386*11	BD290S0.0	N		METALS	SW7060A	SW3050	Arsenic	5	N*	5	J	0.37	1.1	mg/Kg	MD,MS
SB	JAD120	S117386*12	BD290S0.5	N		METALS	SW7060A	SW3050	Arsenic	4.8	N*	4.8	J	0.79	2.2	mg/Kg	MD,MS
SS	JAD120	S117386*14	BD290W0.0	N		METALS	SW7060A	SW3050	Arsenic	1.4	N*	1.4	J	0.33	0.94	mg/Kg	MD,MS
SB	JAD120	S117386*15	BD290W2.0	N		METALS	SW7060A	SW3050	Arsenic	4.4	N*	4.4	J	0.34	0.97	mg/Kg	MD,MS
SB	JAD106	S117093B*7	BD297X0.5	N		METALS	SW7060A	SW3050	Arsenic	1.2	=	1.2	J	0.33	0.95	mg/Kg	MS
SB	JAD106	S117093*7	BD297X0.5	N		METALS	SW6010B	SW3050	Lead	93	N	93	J	0.21	0.6	mg/Kg	MS
SB	JAD106	S117093*7	BD297X0.5	N		METALS	SW6010B	SW3050	Sodium	40	B	40	U	24	1000	mg/Kg	BL
SB	JAD106	S117093B*7	BD297X0.5	N		METALS	SW7841	SW3050	Thallium	0.47	U	0.47	UJ	0.19	0.47	mg/Kg	MS
SB	JAD102	S116955A*7	BD306X0.5	N		METALS	SW6010B	SW3050	Antimony	0.25	UN	0.25	UJ	0.25	12	mg/Kg	MS
SB	JAD102	S116955A*7	BD306X0.5	N		METALS	SW6010B	SW3050	Copper	9.1	N	9.1	J	0.37	5.1	mg/Kg	MS
SB	JAD102	S116955A*7	BD306X0.5	N		METALS	SW6010B	SW3050	Lead	28	N	28	J	0.21	0.61	mg/Kg	MS
SB	JAD102	S116955A*7	BD306X0.5	N		METALS	SW6010B	SW3050	Manganese	24	N	24	J	0.11	3.1	mg/Kg	MS
SB	JAD162	S240610*2	BD312W1.0	N		METALS	SW7060A	SW3050	Arsenic	2.7	UNW	2.7	UJ	0.95	2.7	mg/Kg	MS
SB	JAD102	S116955A*4	BD321X0.5	N		METALS	SW6010B	SW3050	Antimony	0.26	UN	0.26	UJ	0.26	13	mg/Kg	MS
SB	JAD102	S116955C*4	BD321X0.5	N		METALS	SW7060A	SW3050	Arsenic	1.3	=	1.3	J	0.29	0.83	mg/Kg	MS
SB	JAD102	S116955A*4	BD321X0.5	N		METALS	SW6010B	SW3050	Lead	24	N	24	J	0.22	0.63	mg/Kg	MS
SB	JAD102	S116955A*4	BD321X0.5	N		METALS	SW6010B	SW3050	Manganese	21	N	21	J	0.11	3.1	mg/Kg	MS
SB	JAD102	S116955A*4	BD321X0.5	N		METALS	SW7471A	METHOD	Mercury	0.023	BN*	0.023	U	0.003	0.11	mg/Kg	BL
SB	JAD224	S245653A*2	BD329X0.5	N		METALS	SW6010B	SW3050	Lead	50	N	50	J	0.66	0.94	mg/Kg	MS
SB	JAD223	S245653*13	BD347X0.5	N		METALS	SW7060A	SW3050	Arsenic	5.4	N	5.4	J	0.55	1.6	mg/Kg	MS
SB	JAD221	S245448*6	BD350X0.5	N		METALS	SW6010B	SW3050	Antimony	0.26	UN	0.26	UJ	0.26	13	mg/Kg	MS
SB	JAD221	S245448*6	BD350X0.5	N		METALS	SW6010B	SW3050	Lead	120	N	120	J	0.22	0.63	mg/Kg	MS
SB	JAD223	S245653*14	BD351X0.5	N		METALS	SW7060A	SW3050	Arsenic	2.3	N	2.3	J	0.65	1.9	mg/Kg	MS
SB	JAD223	S245653*15	BD352N1.0	N		METALS	SW7060A	SW3050	Arsenic	1.8	N	1.8	J	0.55	1.6	mg/Kg	MS
SB	JAD223	S245653*16	BD352X0.5	N		METALS	SW7060A	SW3050	Arsenic	1.8	UN	1.8	UJ	0.62	1.8	mg/Kg	MS
SS	JAD223	S245653*20	BD364C0.0	N		METALS	SW7060A	SW3050	Arsenic	2	N	2	J	0.46	1.3	mg/Kg	MS
SB	JAD224	S245653A*1	BD364N1.0	N		METALS	SW6010B	SW3050	Lead	740	N	740	J	0.59	0.85	mg/Kg	MS
SB	JAD224	S245653A*8	BD364X0.5	N		METALS	SW6010B	SW3050	Lead	150	N	150	J	0.53	0.75	mg/Kg	MS
SB	JAD221	S245448*8	BD372X0.5	N		METALS	SW6010B	SW3050	Antimony	0.3	UN	0.3	UJ	0.3	14	mg/Kg	MS
SB	JAD221	S245448*8	BD372X0.5	N		METALS	SW6010B	SW3050	Lead	61	N	61	J	0.25	0.71	mg/Kg	MS
SS	JAD224	S245653A*10	BD373C0.0	N		METALS	SW6010B	SW3050	Lead	85	N	85	J	0.62	0.88	mg/Kg	MS
SB	JAD221	S245448*2	BD374X0.5	N		METALS	SW6010B	SW3050	Antimony	0.29	UN	0.29	UJ	0.29	14	mg/Kg	MS
SB	JAD221	S245448*2	BD374X0.5	N		METALS	SW6010B	SW3050	Lead	36	N	36	J	0.24	0.7	mg/Kg	MS
SB	JAD221	S245448*7	BD383X0.5	N		METALS	SW6010B	SW3050	Antimony	0.27	UN	0.27	UJ	0.27	13	mg/Kg	MS
SB	JAD221	S245448*7	BD383X0.5	N		METALS	SW6010B	SW3050	Lead	30	N	30	J	0.22	0.64	mg/Kg	MS
SB	JAD221	S245448*4	BD386X0.5	N		METALS	SW6010B	SW3050	Antimony	0.26	UN	0.26	UJ	0.26	13	mg/Kg	MS
SB	JAD221	S245448*4	BD386X0.5	N		METALS	SW6010B	SW3050	Lead	20	N	20	J	0.22	0.63	mg/Kg	MS
SB	JAD223	S245653*2	BD387X0.5	N		METALS	SW7060A	SW3050	Arsenic	1.6	UN	1.6	UJ	0.56	1.6	mg/Kg	MS
SB	JAD221	S245448*5	BD388X0.5	N		METALS	SW6010B	SW3050	Lead	77	N	77	J	0.23	0.65	mg/Kg	MS
SB	JAD221	S245448*3	BD390X0.5	N		METALS	SW6010B	SW3050	Antimony	0.27	UN	0.27	UJ	0.27	13	mg/Kg	MS
SB	JAD221	S245448*3	BD390X0.5	N		METALS	SW6010B	SW3050	Lead	32	N	32	J	0.22	0.64	mg/Kg	MS
SB	JAD223	S245653*1	BD394X0.5	N		METALS	SW7060A	SW3050	Arsenic	1.7	UN	1.7	UJ	0.58	1.7	mg/Kg	MS
SB	JAD224	S245653A*11	BD395X0.5	N		METALS	SW6010B	SW3050	Lead	80	N	80	J	0.62	0.88	mg/Kg	MS

3 10 0483

Table 2 - Changed Qualifiers

Matrix	SDG	Lab Sample ID	Sample ID	Sample Type	LR Type	Parameter Class	Analytical Method	Preparation Method	Parameter	Lab Result	Lab Qual	Final Result	Final Qual	Detection Limit	Reporting Limit	Units	Validation Notes
SS	JAD224	S245653A*3	BD397C0.0	N		METALS	SW6010B	SW3050	Lead	350	N	350	J	0.55	0.79	mg/Kg	MS
SS	JAD224	S245653A*9	BD397C0.0FD	N		METALS	SW6010B	SW3050	Lead	1100	N	1100	J	3	4.3	mg/Kg	MS
SB	JAD224	S245653A*7	BD397X0.5	N		METALS	SW6010B	SW3050	Lead	69	N	69	J	0.63	0.91	mg/Kg	MS
SB	JAD224	S245653A*6	BD401X0.5	N		METALS	SW6010B	SW3050	Lead	250	N	250	J	0.74	1.1	mg/Kg	MS
SB	JAD224	S245653A*5	BD408X0.5	N		METALS	SW6010B	SW3050	Lead	180	N	180	J	0.64	0.91	mg/Kg	MS
SB	JAD224	S245653A*4	BD411X0.5	N		METALS	SW6010B	SW3050	Lead	40	N	40	J	0.72	1	mg/Kg	MS
SB	JAD221	S245448*1	BD412X0.5	N		METALS	SW6010B	SW3050	Antimony	0.28	UN	0.28	UJ	0.28	13	mg/Kg	MS
SB	JAD221	S245448*1	BD412X0.5	N		METALS	SW6010B	SW3050	Lead	44	N	44	J	0.23	0.67	mg/Kg	MS
SB	JAD181	S241875*2	BD700C2.0	N		METALS	SW6010B	SW3050	Lead	19	N	19	J	0.23	0.65	mg/Kg	MS
SB	JAD180	S241811*6	BD701X0.5	N		METALS	SW7060A	SW3050	Arsenic	1.6	N	1.6	J	0.37	1.1	mg/Kg	MS
SB	JAD180	S241811*6	BD701X0.5	N		METALS	SW6010B	SW3050	Zinc	38	N	38	J	0.52	4.2	mg/Kg	MS
SB	JAD180	S241811*5	BD701X0.5FD	N		METALS	SW6010B	SW3050	Antimony	0.26	UN	0.26	UJ	0.26	13	mg/Kg	MS
SB	JAD180	S241811*5	BD701X0.5FD	N		METALS	SW7060A	SW3050	Arsenic	2.1	N	2.1	J	0.37	1.1	mg/Kg	MS
SB	JAD180	S241811*5	BD701X0.5FD	N		METALS	SW6010B	SW3050	Zinc	38	N	38	J	0.51	4.2	mg/Kg	MS
SB	JAD180	S241811*8	BD702X0.5	N		METALS	SW6010B	SW3050	Antimony	0.26	UN	0.26	UJ	0.26	13	mg/Kg	MS
SB	JAD180	S241811*8	BD702X0.5	N		METALS	SW7060A	SW3050	Arsenic	1.6	N	1.6	J	0.35	1	mg/Kg	MS
SB	JAD180	S241811*8	BD702X0.5	N		METALS	SW6010B	SW3050	Zinc	57	N	57	J	0.52	4.2	mg/Kg	MS
SB	JAD180	S241811*4	BD703X0.5	N		METALS	SW6010B	SW3050	Antimony	0.25	UN	0.25	UJ	0.25	12	mg/Kg	MS
SB	JAD180	S241811*4	BD703X0.5	N		METALS	SW7060A	SW3050	Arsenic	2.7	N	2.7	J	0.38	1.1	mg/Kg	MS
SB	JAD180	S241811*4	BD703X0.5	N		METALS	SW6010B	SW3050	Zinc	24	N	24	J	0.48	3.9	mg/Kg	MS
SB	JAD180	S241811*3	BD704X0.5	N		METALS	SW7060A	SW3050	Arsenic	1.5	N	1.5	J	0.35	1	mg/Kg	MS
SB	JAD180	S241811*3	BD704X0.5	N		METALS	SW6010B	SW3050	Zinc	440	N	440	J	0.48	4	mg/Kg	MS
SB	JAD181	S241875*1	BD705X0.5	N		METALS	SW6010B	SW3050	Chromium, total	4.6	N	4.6	J	0.093	2.2	mg/Kg	MS
SB	JAD181	S241875*1	BD705X0.5	N		METALS	SW6010B	SW3050	Lead	22	N	22	J	0.23	0.66	mg/Kg	MS
SB	JAD181	S241875*1	BD705X0.5	N		METALS	SW6010B	SW3050	Zinc	87	N	87	J	0.54	4.4	mg/Kg	MS
SB	JAD187	S242051A*1	BD706X0.5	N		METALS	SW6010B	SW3050	Zinc	72	=	72	J	0.72	5.9	mg/Kg	MS
SB	JAD180	S241811*7	BD707X0.5	N		METALS	SW6010B	SW3050	Antimony	0.26	UN	0.26	UJ	0.26	13	mg/Kg	MS
SB	JAD180	S241811*7	BD707X0.5	N		METALS	SW6010B	SW3050	Zinc	120	N	120	J	0.52	4.3	mg/Kg	MS
SB	JAD180	S241811*2	BD708X0.5	N		METALS	SW6010B	SW3050	Zinc	100	N	100	J	0.48	4	mg/Kg	MS
SB	JAD180	S241811*1	BD709X0.5	N		METALS	SW6010B	SW3050	Aluminum	1300	=	1300	J	3.2	44	mg/Kg	MS
SB	JAD180	S241811*1	BD709X0.5	N		METALS	SW6010B	SW3050	Zinc	81	N	81	J	0.53	4.4	mg/Kg	MS
SB	JAD173	S241177*2	BD010X0.5	N		PAH	SW8270C	SW3550	Benzo(b)fluoranthene	3100	=	3100	J	29	420	ug/Kg	CC
SB	JAD106	S117093*1	BD020X0.5	N		PAH	SW8270C	SW3550	Pyrene	340	U	340	UJ	66	340	ug/Kg	CC
SB	JAD112	S117155A*1	BD111X0.5	N		PAH	SW8270C	SW3550	Benzo(g,h,i)perylene	48	J	340	U	27	340	ug/Kg	BL
SB	JAD221	S245448*2*RE	BD374X0.5RE	LR	RE	PAH	SW8270C	SW3550	1-methylnaphthalene	380	U	380	R	35	380	ug/Kg	RE
SB	JAD221	S245448*2*RE	BD374X0.5RE	LR	RE	PAH	SW8270C	SW3550	2-Methylnaphthalene	380	U	380	R	37	380	ug/Kg	RE
SB	JAD221	S245448*2*RE	BD374X0.5RE	LR	RE	PAH	SW8270C	SW3550	Acenaphthene	380	U	380	R	34	380	ug/Kg	RE
SB	JAD221	S245448*2*RE	BD374X0.5RE	LR	RE	PAH	SW8270C	SW3550	Acenaphthylene	380	U	380	R	24	380	ug/Kg	RE
SB	JAD221	S245448*2*RE	BD374X0.5RE	LR	RE	PAH	SW8270C	SW3550	Anthracene	380	U	380	R	24	380	ug/Kg	RE
SB	JAD221	S245448*2*RE	BD374X0.5RE	LR	RE	PAH	SW8270C	SW3550	Benzo(a)anthracene	26	J	26	R	23	380	ug/Kg	RE
SB	JAD221	S245448*2*RE	BD374X0.5RE	LR	RE	PAH	SW8270C	SW3550	Benzo(a)pyrene	380	U	380	R	34	380	ug/Kg	RE
SB	JAD221	S245448*2*RE	BD374X0.5RE	LR	RE	PAH	SW8270C	SW3550	Benzo(b)fluoranthene	380	U	380	R	27	380	ug/Kg	RE
SB	JAD221	S245448*2*RE	BD374X0.5RE	LR	RE	PAH	SW8270C	SW3550	Benzo(g,h,i)perylene	380	U	380	R	30	380	ug/Kg	RE
SB	JAD221	S245448*2*RE	BD374X0.5RE	LR	RE	PAH	SW8270C	SW3550	Benzo(k)fluoranthene	380	U	380	R	30	380	ug/Kg	RE
SB	JAD221	S245448*2*RE	BD374X0.5RE	LR	RE	PAH	SW8270C	SW3550	Carbazole	380	U	380	R	26	380	ug/Kg	RE
SB	JAD221	S245448*2*RE	BD374X0.5RE	LR	RE	PAH	SW8270C	SW3550	Chrysene	32	J	32	R	24	380	ug/Kg	RE
SB	JAD221	S245448*2*RE	BD374X0.5RE	LR	RE	PAH	SW8270C	SW3550	Dibenz(a,h)anthracene	380	U	380	R	60	380	ug/Kg	RE
SB	JAD221	S245448*2*RE	BD374X0.5RE	LR	RE	PAH	SW8270C	SW3550	Dibenzofuran	380	U	380	R	35	380	ug/Kg	RE
SB	JAD221	S245448*2*RE	BD374X0.5RE	LR	RE	PAH	SW8270C	SW3550	Fluoranthene	58	J	58	R	36	380	ug/Kg	RE
SB	JAD221	S245448*2*RE	BD374X0.5RE	LR	RE	PAH	SW8270C	SW3550	Fluorene	380	U	380	R	36	380	ug/Kg	RE
SB	JAD221	S245448*2*RE	BD374X0.5RE	LR	RE	PAH	SW8270C	SW3550	Indeno(1,2,3-c,d)pyrene	380	U	380	R	78	380	ug/Kg	RE
SB	JAD221	S245448*2*RE	BD374X0.5RE	LR	RE	PAH	SW8270C	SW3550	Naphthalene	380	U	380	R	29	380	ug/Kg	RE
SB	JAD221	S245448*2*RE	BD374X0.5RE	LR	RE	PAH	SW8270C	SW3550	Phenanthrene	380	U	380	R	20	380	ug/Kg	RE
SB	JAD221	S245448*2*RE	BD374X0.5RE	LR	RE	PAH	SW8270C	SW3550	Pyrene	380	U	380	R	73	380	ug/Kg	RE

3 10 0464

Table 2 - Changed Qualifiers

Matrix	SDG	Lab Sample ID	Sample ID	Sample Type	LR Type	Parameter Class	Analytical Method	Preparation Method	Parameter	Lab Result	Lab Qual	Final Result	Final Qual	Detection Limit	Reporting Limit	Units	Validation Notes
SB	JAD221	S245448*1	BD412X0.5	N		PAH	SW8270C	SW3550	Chrysene	370	U	370	UJ	23	370	ug/Kg	MS
SB	JAD181	S241875*2	BD700C2.0	N		PEST	SW8081A	SW3550	heptachlor	1.8	U	1.8	UJ	0.22	1.8	ug/Kg	CC
SB	JAD181	S241875*2	BD700C2.0	N		PEST	SW8081A	SW3550	methoxychlor	18	U	18	UJ	0.55	18	ug/Kg	CC
SB	JAD180	S241811*8	BD702X0.5	N		PEST	SW8081A	SW3550	heptachlor	1.9	U	1.9	UJ	0.22	1.9	ug/Kg	CC
SB	JAD180	S241811*8	BD702X0.5	N		PEST	SW8081A	SW3550	methoxychlor	19	U	19	UJ	0.56	19	ug/Kg	CC
SB	JAD180	S241811*7	BD707X0.5	N		PEST	SW8081A	SW3550	heptachlor	1.9	U	1.9	UJ	0.22	1.9	ug/Kg	CC
SB	JAD180	S241811*7	BD707X0.5	N		PEST	SW8081A	SW3550	methoxychlor	19	U	19	UJ	0.57	19	ug/Kg	CC
SB	JAD180	S241811*7	BD707X0.5	N		PEST	SW8081A	SW3550	p,p'-DDT	3.7	U	3.7	UJ	0.39	3.7	ug/Kg	CC

3 10 0465

Table 3 - Analysis Totals

Matrix	Analytical Method	Analytical Method Description	Preparation Method	BS	EB	FD	LB	MS	N	SD
WQ	SW6010B	Inductively Coupled Plasma Atomic Emission Spectroscopy	SW3010	4	7		4			
SB	SW6010B	Inductively Coupled Plasma Atomic Emission Spectroscopy	SW3050			4		2	66	2
SQ	SW6010B	Inductively Coupled Plasma Atomic Emission Spectroscopy	SW3050	11			11			
WQ	SW6010B	Inductively Coupled Plasma Atomic Emission Spectroscopy (AS and PB Only)	SW3010	1	1		1			
SB	SW6010B	Inductively Coupled Plasma Atomic Emission Spectroscopy (AS and PB Only)	SW3050			5		7	181	7
SQ	SW6010B	Inductively Coupled Plasma Atomic Emission Spectroscopy (AS and PB Only)	SW3050	24			24			
SS	SW6010B	Inductively Coupled Plasma Atomic Emission Spectroscopy (AS and PB Only)	SW3050			1		1	50	1
SB	SW7060A	Arsenic, (AA, Furnace Technique)	SW3050			5		7	151	7
SQ	SW7060A	Arsenic, (AA, Furnace Technique)	SW3050	31			31			
SS	SW7060A	Arsenic, (AA, Furnace Technique)	SW3050			1		1	43	1
WQ	SW7470A	Mercury in Liquid Waste (Manual Cold-Vapor Techniq	METHOD	3	7		3			
SB	SW7471A	Mercury in Solid or Semisolid Waste (Manual Cold-Vapor Technique)	METHOD			4		2	66	2
SQ	SW7471A	Mercury in Solid or Semisolid Waste (Manual Cold-Vapor Technique)	METHOD	12			12			
SB	SW7841	Thallium (AA, Furnace Technique)	SW3050						1	
SQ	SW7841	Thallium (AA, Furnace Technique)	SW3050	1			1			
SB	SW8081A	Organochlorine Pesticides by GC - Capillary Column Technique	SW3550						3	
SQ	SW8081A	Organochlorine Pesticides by GC - Capillary Column Technique	SW3550	2			2			
SB	SW8082	Polychlorinated Biphenyls by GC - Capillary Column Technique	SW3550						3	
SQ	SW8082	Polychlorinated Biphenyls by GC - Capillary Column Technique	SW3550	2			2			
SB	SW8270C	GC/MS for Semivolatile Organics (Capillary Column Technique)	SW3550						3	
SQ	SW8270C	GC/MS for Semivolatile Organics (Capillary Column Technique)	SW3550	2			2			
WQ	SW8270C	GC/MS for Semivolatile Organics (Capillary ColumnTechnique (PAH Only)	SW3520	3	7		4			
SB	SW8270C	GC/MS for Semivolatile Organics (Capillary ColumnTechnique (PAH Only)	SW3550			2		1	28	1
SQ	SW8270C	GC/MS for Semivolatile Organics (Capillary ColumnTechnique (PAH Only)	SW3550	7			9			
SB	SW8290	Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Furans	METHOD			2		1	31	1
SQ	SW8290	Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Furans	METHOD	13			13			
WQ	SW8290	Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Furans	METHOD	4	7		4			

3 10 C486

Table 3 - Analysis Totals

Matrix	Analytical Method	Analytical Method Description	Preparation Method	BS	EB	FD	LB	MS	N	SD

MATRIX CODE

SB - Soil Boring
SS - Surface Soil

SQ - Soil QC Samples
WQ - Water QC Samples

SAMPLE TYPE CODE

BS - Blank Spike
EB - Eqipment Blank
FD - Field Duplicate
LB - Laboratory Blank
MS - Matrix Spike
N - Native Sample
SD - Spike Duplicate
LR - Laboratory Replicate
RE - Re-analysis

3 10 0487

LR (RE)

1

4

3 10 0488

LR (RE)

3 10 0469

Table 4 - Calibration Flags

Matrix	SDG	Lab Sample ID	Sample ID	Sample Type	Parameter Class	Analytical Method	Preparation Method	Parameter	Lab Result	Lab Qual	Final Result	Final Qual	Detection Limit	Reporting Limit	Units	Validation Notes
SB	JAD173	S241177*2	BD010X0.5	N	PAH	SW8270C	SW3550	Benzo(b)fluoranthene	3100	=	3100	J	29	420	ug/Kg	CC
SB	JAD106	S117093*1	BD020X0.5	N	PAH	SW8270C	SW3550	Pyrene	340	U	340	UJ	66	340	ug/Kg	CC
SB	JAD181	S241875*2	BD700C2.0	N	PEST	SW8081A	SW3550	heptachlor	1.8	U	1.8	UJ	0.22	1.8	ug/Kg	CC
SB	JAD181	S241875*2	BD700C2.0	N	PEST	SW8081A	SW3550	methoxychlor	18	U	18	UJ	0.55	18	ug/Kg	CC
SB	JAD180	S241811*8	BD702X0.5	N	PEST	SW8081A	SW3550	heptachlor	1.9	U	1.9	UJ	0.22	1.9	ug/Kg	CC
SB	JAD180	S241811*8	BD702X0.5	N	PEST	SW8081A	SW3550	methoxychlor	19	U	19	UJ	0.56	19	ug/Kg	CC
SB	JAD180	S241811*7	BD707X0.5	N	PEST	SW8081A	SW3550	heptachlor	1.9	U	1.9	UJ	0.22	1.9	ug/Kg	CC
SB	JAD180	S241811*7	BD707X0.5	N	PEST	SW8081A	SW3550	methoxychlor	19	U	19	UJ	0.57	19	ug/Kg	CC
SB	JAD180	S241811*7	BD707X0.5	N	PEST	SW8081A	SW3550	p,p'-DDT	3.7	U	3.7	UJ	0.39	3.7	ug/Kg	CC

3 10 C490

Table 5A - Blank Detections

Matrix	Parameter Class	SDG	Lab Sample ID	Sample ID	Sample Type	Analytical Method	Preparation Method	Parameter	Lab Result	Lab Qual	Detection Limit	Reporting Limit	Units
SQ	DIOXIN	JAD221A	G2H040000096B	G2H040000096B	LB	SW8290	METHOD	dioxin	14	=	4.8	5	ng/kg
SQ	DIOXIN	JAD221A	G2H040000096B	G2H040000096B	LB	SW8290	METHOD	dioxin	3	= JA	0.5	2.5	ng/kg
SQ	DIOXIN	JAD221A	G2H040000096B	G2H040000096B	LB	SW8290	METHOD	1,2,3,7,8-pentachlorodibenzo-p-dioxin	1.6	=	0.54	1	ng/kg
SQ	METALS	JAD187	S242051A*3	42051A3LB	LB	SW6010B	SW3050	Aluminum	3.6	B	2.9	40	mg/Kg
WQ	METALS	JAD221	S245448*9	BD8594EB	EB	SW6010B	SW3010	Aluminum	36	B	27	200	ug/L
SQ	METALS	JAD173	S241177*3	411773LB	LB	SW6010B	SW3050	Antimony	0.26	B	0.25	12	mg/Kg
SQ	METALS	JAD102	S1JAD102*1	JAD1021LB	LB	SW6010B	SW3050	Barium	0.098	B	0.08	40	mg/Kg
SQ	METALS	JAD115	S117270A*8	17270A8LB	LB	SW6010B	SW3050	Beryllium	0.034	B	0.028	1	mg/Kg
WQ	METALS	JAD115	S117270A*6	BD8642EB	EB	SW6010B	SW3010	Beryllium	0.69	B	0.54	5	ug/L
WQ	METALS	JAD115	S117270A*7	BD8643EB	EB	SW6010B	SW3010	Beryllium	0.7	B	0.54	5	ug/L
WQ	METALS	JAD115	S117361*3	BD8644EB	EB	SW6010B	SW3010	Beryllium	0.68	B	0.54	5	ug/L
WQ	METALS	JAD115	S117361*4	BD8645EB	EB	SW6010B	SW3010	Beryllium	0.65	B	0.54	5	ug/L
WQ	METALS	JAD115	S117270A*11	17270A11LB	LB	SW6010B	SW3010	Beryllium	0.68	B	0.54	5	ug/L
WQ	METALS	JAD115	S117270A*15	17270A15LB	LB	SW6010B	SW3010	Beryllium	0.67	B	0.54	5	ug/L
WQ	METALS	JAD112	S117155A*11	BD8581EB	EB	SW6010B	SW3010	Calcium	54	B	44	5000	ug/L
SQ	METALS	JAD105	S117006A*8	17006A8LB	LB	SW6010B	SW3050	Chromium, total	0.1	B	0.085	2	mg/Kg
SQ	METALS	JAD102	S1JAD102*1	JAD1021LB	LB	SW6010B	SW3050	Chromium, total	0.087	B	0.085	2	mg/Kg
SQ	METALS	JAD112	S117155A*13	17155A13LB	LB	SW6010B	SW3050	Chromium, total	0.09	B	0.085	2	mg/Kg
SQ	METALS	JAD106	S117093*8	170938LB	LB	SW6010B	SW3050	Chromium, total	0.091	B	0.085	2	mg/Kg
WQ	METALS	JAD112	S117155A*11	BD8581EB	EB	SW6010B	SW3010	Copper	0.99	B	0.9	25	ug/L
WQ	METALS	JAD115	S117361*3	BD8644EB	EB	SW6010B	SW3010	Copper	1.5	B	0.9	25	ug/L
SQ	METALS	JAD102	S1JAD102*1	JAD1021LB	LB	SW6010B	SW3050	Iron	9.3	B	2.2	20	mg/Kg
SQ	METALS	JAD115	S117270A*8	17270A8LB	LB	SW6010B	SW3050	Iron	2.3	B	2.2	20	mg/Kg
WQ	METALS	JAD112	S117155A*16	17155A16LB	LB	SW6010B	SW3010	Iron	19	B	18	100	ug/L
WQ	METALS	JAD115	S117270A*11	17270A11LB	LB	SW6010B	SW3010	Lead	1.6	B	1.5	3	ug/L
SQ	METALS	JAD154	S240018*21	4001821LB	LB	SW6010B	SW3050	Lead	0.43	B	0.42	0.6	mg/Kg
SQ	METALS	JAD102	S1JAD102*1	JAD1021LB	LB	SW6010B	SW3050	Manganese	0.29	B	0.1	3	mg/Kg
WQ	METALS	JAD115	S117270A*6	BD8642EB	EB	SW7470A	METHOD	Mercury	0.12	B	0.072	0.2	ug/L
WQ	METALS	JAD115	S117270A*7	BD8643EB	EB	SW7470A	METHOD	Mercury	0.11	B	0.072	0.2	ug/L
WQ	METALS	JAD115	S117361*4	BD8645EB	EB	SW7470A	METHOD	Mercury	0.11	B	0.072	0.2	ug/L
SQ	METALS	JAD180	S241811*9	418119LB	LB	SW7471	METHOD	Mercury	0.0042	B	0.0028	0.1	mg/Kg
SQ	METALS	JAD106	S117093*8	170938LB	LB	SW6010B	SW3050	Selenium	-0.31	B	0.22	1	mg/Kg
SQ	METALS	JAD115	S117270A*8	17270A8LB	LB	SW6010B	SW3050	Selenium	-0.28	B	0.22	1	mg/Kg
SQ	METALS	JAD159	S240153A*12	40153A12LB	LB	SW6010B	SW3050	Selenium	-0.3	B	0.22	1	mg/Kg
SQ	METALS	JAD180	S241811*9	418119LB	LB	SW6010B	SW3050	Selenium	-0.33	B	0.22	1	mg/Kg
SQ	METALS	JAD106	S117093*8	170938LB	LB	SW6010B	SW3050	Sodium	25	B	24	1000	mg/Kg
WQ	METALS	JAD115	S117361*3	BD8644EB	EB	SW6010B	SW3010	Zinc	13	B	5.9	20	ug/L
WQ	METALS	JAD115	S117361*4	BD8645EB	EB	SW6010B	SW3010	Zinc	11	B	5.9	20	ug/L
WQ	METALS	JAD115	S117270A*15	17270A15LB	LB	SW6010B	SW3010	Zinc	13	B	5.9	20	ug/L
WQ	PAH	JAD112	S117155A*11	BD8581EB	EB	SW8270C	SW3520	Benzo(g,h,i)perylene	2	J	0.68	10	ug/L
WQ	PAH	JAD221	S245448*13	4544813LB	LB	SW8270C	SW3520	Benzo(g,h,i)perylene	0.78	J	0.68	10	ug/L
WQ	PAH	JAD112	S117155A*11	BD8581EB	EB	SW8270C	SW3520	Dibenz(a,h)anthracene	1.5	J	0.8	10	ug/L
WQ	PAH	JAD112	S117155A*11	BD8581EB	EB	SW8270C	SW3520	Indeno(1,2,3-c,d)pyrene	1.5	J	0.56	10	ug/L

3 10 0491

Table 5B - Frequency of Detects

Matrix	Parameter Class	Sample Type	LR Type	Analytical Method	Preparation Method	Parameter	Number Analyzed	Number Detected	Minimum Detected	Maximum Detected	Minimum Detection Limit	Maximum Detection Limit	Minimum Reporting Limit	Maximum Reporting Limit	Units
SB	DIOXIN	FD		SW8290	METHOD	dioxin	2	2	980	12000	4.9	5.3	5.1	54	ng/kg
SB	DIOXIN	LR	RE	SW8290	METHOD	dioxin	4	4	320	590	5.3	6.4	5.5	6.6	ng/kg
SB	DIOXIN	N		SW8290	METHOD	dioxin	27	27	69	20000	4.91	5.95	5.1	54	ng/kg
SQ	DIOXIN	LB		SW8290	METHOD	dioxin	10	1	14	14	4.8	4.82	5	5	ng/kg
SB	DIOXIN	FD		SW8290	METHOD	dioxin	2	2	130	1200	0.5	0.54	2.5	27	ng/kg
SB	DIOXIN	LR	RE	SW8290	METHOD	dioxin	4	4	39	67	0.55	0.66	2.7	3.3	ng/kg
SB	DIOXIN	N		SW8290	METHOD	dioxin	27	27	13	2300	0.51	0.61	2.6	27	ng/kg
SQ	DIOXIN	LB		SW8290	METHOD	dioxin	10	1	3	3	0.5	0.5	2.5	2.5	ng/kg
SB	DIOXIN	FD		SW8290	METHOD	1,2,3,7,8-pentachlorodibenzo-p-dioxin	2	1	2	2	0.54	0.58	1	1.1	ng/kg
SB	DIOXIN	N		SW8290	METHOD	1,2,3,7,8-pentachlorodibenzo-p-dioxin	27	14	1.2	13	0.55	0.66	1	1.2	ng/kg
SQ	DIOXIN	LB		SW8290	METHOD	1,2,3,7,8-pentachlorodibenzo-p-dioxin	10	1	1.6	1.6	0.54	0.54	1	1	ng/kg
SB	METALS	FD		SW6010B	SW3050	Aluminum	4	4	990	2300	2.9	3.3	40	46	mg/Kg
SB	METALS	N		SW6010B	SW3050	Aluminum	66	66	560	13000	2.7	4.3	38	59	mg/Kg
WQ	METALS	EB		SW6010B	SW3010	Aluminum	7	1	36	36	27	27	200	200	ug/L
SQ	METALS	LB		SW6010B	SW3050	Aluminum	11	1	3.6	3.6	2.9	2.9	40	40	mg/Kg
SB	METALS	FD		SW6010B	SW3050	Antimony	4	2	0.86	2.60	0.25	0.29	12	14	mg/Kg
SB	METALS	N		SW6010B	SW3050	Antimony	66	35	0.27	7.30	0.24	0.37	11	18	mg/Kg
SQ	METALS	LB		SW6010B	SW3050	Antimony	11	1	0.26	0.26	0.25	0.25	12	12	mg/Kg
SB	METALS	FD		SW6010B	SW3050	Barium	4	4	8.10	190	0.08	0.092	40	46	mg/Kg
SB	METALS	N		SW6010B	SW3050	Barium	66	66	5.5	410	0.076	0.12	38	59	mg/Kg
SQ	METALS	LB		SW6010B	SW3050	Barium	11	1	0.10	0.10	0.08	0.08	40	40	mg/Kg
SB	METALS	FD		SW6010B	SW3050	Beryllium	4	3	0.055	0.088	0.028	0.033	1	1.1	mg/Kg
SB	METALS	N		SW6010B	SW3050	Beryllium	66	52	0.03	0.95	0.027	0.042	0.95	1.5	mg/Kg
WQ	METALS	EB		SW6010B	SW3010	Beryllium	7	4	0.65	0.70	0.54	0.54	5	5	ug/L
SQ	METALS	LB		SW6010B	SW3050	Beryllium	11	1	0.03	0.03	0.028	0.029	1	1	mg/Kg
WQ	METALS	LB		SW6010B	SW3010	Beryllium	4	2	0.67	0.68	0.54	0.54	5	5	ug/L
SB	METALS	FD		SW6010B	SW3050	Calcium	4	4	1300	13000	10	11	1000	1100	mg/Kg
SB	METALS	N		SW6010B	SW3050	Calcium	66	66	270	57000	9.5	15	950	1500	mg/Kg
WQ	METALS	EB		SW6010B	SW3010	Calcium	7	1	54	54	44	44	5000	5000	ug/L
SB	METALS	FD		SW6010B	SW3050	Chromium, total	4	4	3.80	29	0.085	0.098	2	2.3	mg/Kg
SB	METALS	N		SW6010B	SW3050	Chromium, total	66	66	1.90	56	0.081	0.12	1.9	2.9	mg/Kg
SQ	METALS	LB		SW6010B	SW3050	Chromium, total	11	4	0.09	0.10	0.085	0.085	2	2	mg/Kg
SB	METALS	FD		SW6010B	SW3050	Copper	4	4	4.80	170	0.36	0.41	5	5.7	mg/Kg
SB	METALS	N		SW6010B	SW3050	Copper	66	66	1.80	3500	0.34	0.53	4.7	7.4	mg/Kg
WQ	METALS	EB		SW6010B	SW3010	Copper	7	2	0.99	1.5	0.9	0.9	25	25	ug/L
SB	METALS	FD		SW6010B	SW3050	Iron	4	4	1500	31000	2.2	2.6	20	23	mg/Kg
SB	METALS	N		SW6010B	SW3050	Iron	66	66	640	42000	2.1	3.3	19	29	mg/Kg
WQ	METALS	LB		SW6010B	SW3010	Iron	4	1	19	19	18	18	100	100	ug/L
SQ	METALS	LB		SW6010B	SW3050	Iron	11	2	2.30	9.30	2.2	2.3	20	20	mg/Kg

3 10 0492

Matrix	Parameter Class	Sample Type	LR Type	Analytical Method	Preparation Method	Parameter	Number Analyzed	Number Detected	Minimum Detected	Maximum Detected	Minimum Detection Limit	Maximum Detection Limit	Minimum Reporting Limit	Maximum Reporting Limit	Units
SS	METALS	FD		SW6010B	SW3050	Lead	1	1	400	400	0.44	0.44	0.63	0.63	mg/Kg
SB	METALS	FD		SW6010B	SW3050	Lead	4	4	40	420	0.21	0.24	0.6	0.69	mg/Kg
SB	METALS	FD		SW6010B	SW3050	Lead	5	5	150	1200	0.4	0.99	0.57	1.2	mg/Kg
SS	METALS	N		SW6010B	SW3050	Lead	50	50	50	6200	0.37	6	0.52	8.5	mg/Kg
SB	METALS	N		SW6010B	SW3050	Lead	66	66	13	1400	0.2	0.31	0.57	0.88	mg/Kg
SB	METALS	N		SW6010B	SW3050	Lead	181	181	17	26000	0.37	10	0.47	15	mg/Kg
SQ	METALS	LB		SW6010B	SW3050	Lead	23	1	0.43	0.43	0.42	0.42	0.5	0.6	mg/Kg
WQ	METALS	LB		SW6010B	SW3010	Lead	4	1	1.60	1.60	1.5	1.5	3	3	ug/L
SB	METALS	FD		SW6010B	SW3050	Manganese	4	4	18	270	0.1	0.12	3	3.4	mg/Kg
SB	METALS	N		SW6010B	SW3050	Manganese	66	66	4.60	770	0.099	0.15	2.8	4.4	mg/Kg
SQ	METALS	LB		SW6010B	SW3050	Manganese	11	1	0.29	0.29	0.1	0.11	3	3	mg/Kg
SB	METALS	FD		SW7471A	METHOD	Mercury	4	4	0.05	0.71	0.0027	0.016	0.096	0.57	mg/Kg
SB	METALS	N		SW7471A	METHOD	Mercury	66	63	0.01	0.82	0.0025	0.016	0.09	0.57	mg/Kg
WQ	METALS	EB		SW7470A	METHOD	Mercury	7	3	0.11	0.12	0.072	0.072	0.2	0.2	ug/L
SQ	METALS	LB		SW7471A	METHOD	Mercury	11	1	0.0042	0.0042	0.0028	0.0028	0.1	0.1	mg/Kg
SB	METALS	N		SW6010B	SW3050	Selenium	66	3	0.26	1.70	0.21	0.32	0.95	1.5	mg/Kg
SQ	METALS	LB		SW6010B	SW3050	Selenium	11	4	-0.33	-0.28	0.22	0.22	1	1	mg/Kg
SB	METALS	FD		SW6010B	SW3050	Sodium	4	3	38	69	24	28	1000	1100	mg/Kg
SB	METALS	N		SW6010B	SW3050	Sodium	66	39	26	390	23	36	950	1500	mg/Kg
SQ	METALS	LB		SW6010B	SW3050	Sodium	11	1	25	25	24	25	1000	1000	mg/Kg
SB	METALS	FD		SW6010B	SW3050	Zinc	4	4	20	690	0.49	0.56	4	4.6	mg/Kg
SB	METALS	N		SW6010B	SW3050	Zinc	66	66	3.7	9500	0.46	0.72	3.8	5.9	mg/Kg
WQ	METALS	EB		SW6010B	SW3010	Zinc	7	2	11	13	5.9	5.9	20	20	ug/L
WQ	METALS	LB		SW6010B	SW3010	Zinc	4	1	13	13	5.9	5.9	20	20	ug/L
SB	PAH	FD		SW8270C	SW3550	Benzo(g,h,i)perylene	2	2	43	91	27	28	340	360	ug/Kg
SB	PAH	N		SW8270C	SW3550	Benzo(g,h,i)perylene	28	13	33	1700	27	33	340	420	ug/Kg
WQ	PAH	EB		SW8270C	SW3520	Benzo(g,h,i)perylene	7	1	2	2	0.68	0.68	10	10	ug/L
WQ	PAH	LB		SW8270C	SW3520	Benzo(g,h,i)perylene	4	1	0.78	0.78	0.68	0.68	10	10	ug/L
SB	PAH	N		SW8270C	SW3550	Dibenz(a,h)anthracene	28	5	55	780	53	67	340	420	ug/Kg
WQ	PAH	EB		SW8270C	SW3520	Dibenz(a,h)anthracene	7	1	1.5	1.5	0.8	0.8	10	10	ug/L
SB	PAH	FD		SW8270C	SW3550	Indeno(1,2,3-c,d)pyrene	2	1	88	88	70	73	340	360	ug/Kg
SB	PAH	N		SW8270C	SW3550	Indeno(1,2,3-c,d)pyrene	28	6	89	1600	68	86	340	420	ug/Kg
WQ	PAH	EB		SW8270C	SW3520	Indeno(1,2,3-c,d)pyrene	7	1	1.5	1.5	0.56	0.56	10	10	ug/L

3 10 0493

Table 6 - Surrogate Spike Control Limits and Recoveries

Matrix	SDG	Lab Sample ID	Sample ID	Sample Type	LR Type	(SW8081A/SW8550/NONE) 2,4,5,6-Tetrachloro-meta-xylene % R	(SW8081A/SW8550/NONE) 2,4,5,6-Tetrachloro-meta-xylene Lower Limit	(SW8081A/SW8550/NONE) 2,4,5,6-Tetrachloro-meta-xylene Upper Limit	(SW8081A/SW8550/NONE) 2,4,5,6-Tetrachloro-meta-xylene Qual	(SW8081A/SW8550/NONE) Decachlorodiphenyl [2,4'] % R	(SW8081A/SW8550/NONE) Decachlorodiphenyl [2,4'] Lower Limit	(SW8081A/SW8550/NONE) Decachlorodiphenyl [2,4'] Upper Limit	(SW8081A/SW8550/NONE) Decachlorodiphenyl [2,4'] Qual	(SW8082/SW8550/NONE) 2,4,5,6-Tetrachloro-meta-xylene % R	(SW8082/SW8550/NONE) 2,4,5,6-Tetrachloro-meta-xylene Lower Limit	(SW8082/SW8550/NONE) 2,4,5,6-Tetrachloro-meta-xylene Upper Limit	(SW8082/SW8550/NONE) 2,4,5,6-Tetrachloro-meta-xylene Qual	(SW8082/SW8550/NONE) Decachlorodiphenyl % R	(SW8082/SW8550/NONE) Decachlorodiphenyl Lower Limit	(SW8082/SW8550/NONE) Decachlorodiphenyl Upper Limit	(SW8082/SW8550/NONE) Decachlorodiphenyl Qual	(SW8270C/SW8550/NONE) 2,4,6-Tribromophenol % R	(SW8270C/SW8550/NONE) 2,4,6-Tribromophenol Lower Limit	(SW8270C/SW8550/NONE) 2,4,6-Tribromophenol Upper Limit	(SW8270C/SW8550/NONE) 2,4,6-Tribromophenol Qual
SB	JAD100	G1J250309001	BD041X0.5	N																						
SB	JAD100	G1J250309002	BD091X0.5	N																						
SB	JAD100	G1J250309003	BD091X0.5FD	FD																						
SB	JAD100	G1J250309004	BD321X0.5	N																						
SB	JAD100	G1J250309005	BD161X0.5	N																						
SB	JAD102	S116955A*1	BD041X0.5	N																						
SB	JAD102	S116955A*2	BD091X0.5	N																						
SB	JAD102	S116955A*3	BD091X0.5FD	FD																						
SB	JAD102	S116955A*4	BD321X0.5	N																						
SB	JAD102	S116955A*5	BD161X0.5	N																						
SB	JAD102	S116988A*1	BD081X0.5	N																						
SB	JAD102	S116988A*2	BD121X0.5	N																						
SB	JAD102	S116988A*3	BD211X0.5	N																						
SB	JAD103	G1J260322001	BD081X0.5	N																						
SB	JAD103	G1J260322002	BD121X0.5	N																						
SB	JAD103	G1J260322003	BD211X0.5	N																						
SB	JAD105	S117006A*1	BD099X0.5	N																						
SB	JAD105	S117006A*15	BD070X0.5MS	MS																						
SB	JAD105	S117006A*17	BD070X0.5SD	SD																						
SB	JAD105	S117006A*2	BD070X0.5	N																						
SB	JAD105	S117006A*3	BD148X0.5	N																						
SB	JAD106	S117093*1	BD020X0.5	N																						
SB	JAD106	S117093*2	BD020X0.5FD	FD																						
SB	JAD106	S117093*3	BD200X0.5	N																						
SB	JAD106	S117093*4	BD061X0.5	N																						
SB	JAD107	G1J270195001	BD070X0.5	N																						
SB	JAD107	G1J270195001D	BD070X0.5-SD	SD																						
SB	JAD107	G1J270195001S	BD070X0.5-MS	MS																						
SB	JAD107	G1J270195002	BD148X0.5	N																						
SB	JAD107	G1J270195003	BD099X0.5	N																						
SB	JAD109	G1K010270001	BD020X0.5	N																						
SB	JAD109	G1K010270002	BD020X0.5FD	FD																						
SB	JAD109	G1K010270003	BD200X0.5	N																						
SB	JAD109	G1K010270004	BD061X0.5	N																						
SB	JAD110	G1K030177001	BD111X0.5	N																						
SB	JAD112	S117155A*1	BD111X0.5	N																						
SB	JAD115	S117270A*1	BD260X0.5	N																						
SB	JAD115	S117270A*2	BD189X0.5	N																						
SB	JAD115	S117270A*3	BD192X0.5	N																						
SB	JAD115	S117270A*4	BD172X0.5	N																						
SB	JAD115	S117270A*5	BD252X0.5	N																						
SB	JAD115	S117329A*1	BD001X0.5	N																						
SB	JAD115	S117329A*2	BD031X0.5	N																						
SB	JAD115	S117361*1	BD150X0.5	N																						
SB	JAD116	G1K080247001	BD260X0.5	N																						
SB	JAD116	G1K080247002	BD189X0.5	N																						
SB	JAD116	G1K080247003	BD192X0.5	N																						

3 10 0494

Table 6 - Surrogate Spike Control Limits and Recoveries

Matrix	SDG	Lab Sample ID	Sample ID	Sample Type	LR Type	(SW8081A/SW3550/NONE) 2,4,5,6-Tetrachloro-meta-xylene	(SW8081A/SW3550/NONE) 2,4,5,6-Tetrachloro-meta-xylene Lower Limit	(SW8081A/SW3550/NONE) 2,4,5,6-Tetrachloro-meta-xylene Upper Limit	(SW8081A/SW3550/NONE) 2,4,5,6-Tetrachloro-meta-xylene Qual	(SW8081A/SW3550/NONE) Decachlorobiphenyl	(SW8081A/SW3550/NONE) Decachlorobiphenyl Lower Limit	(SW8081A/SW3550/NONE) Decachlorobiphenyl Upper Limit	(SW8081A/SW3550/NONE) Decachlorobiphenyl Qual	(SW8082/SW3550/NONE) 2,4,5,6-Tetrachloro-meta-xylene	(SW8082/SW3550/NONE) 2,4,5,6-Tetrachloro-meta-xylene Lower Limit	(SW8082/SW3550/NONE) 2,4,5,6-Tetrachloro-meta-xylene Upper Limit	(SW8082/SW3550/NONE) 2,4,5,6-Tetrachloro-meta-xylene Qual	(SW8082/SW3550/NONE) Decachlorobiphenyl	(SW8082/SW3550/NONE) Decachlorobiphenyl Lower Limit	(SW8082/SW3550/NONE) Decachlorobiphenyl Upper Limit	(SW8082/SW3550/NONE) Decachlorobiphenyl Qual	(SW8270C/SW3550/NONE) 2,4,6-Tribromophenol	(SW8270C/SW3550/NONE) 2,4,6-Tribromophenol Lower Limit	(SW8270C/SW3550/NONE) 2,4,6-Tribromophenol Upper Limit	(SW8270C/SW3550/NONE) 2,4,6-Tribromophenol Qual
SB	JAD116	G1K080247004	BD172X0.5	N																					
SB	JAD116	G1K080247005	BD252X0.5	N																					
SB	JAD117	G1K090270001	BD001X0.5	N																					
SB	JAD117	G1K090270002	BD031X0.5	N																					
SB	JAD118	G1K100152001	BD150X0.5	N																					
SB	JAD173	S241177*1	BD278X0.5	N																					
SB	JAD173	S241177*2	BD010X0.5	N																					
SB	JAD173A	G2B200252001	BD278X0.5	N																					
SB	JAD173A	G2B200252002	BD010X0.5	N																					
SB	JAD180	S241811*7	BD707X0.5	N		61	24	152		61	24	152		61	34	138		61	34	138		65	10	135	
SB	JAD180	S241811*8	BD702X0.5	N		61	24	152		72	24	152		61	34	138		72	34	138		59	10	135	
SB	JAD180A	G2C140234001	BD707X0.5	N																					
SB	JAD180A	G2C140234002	BD702X0.5	N																					
SB	JAD181	S241875*2	BD700C2.0	N		42	24	152		72	24	152		42	34	138		72	34	138		78	10	135	
SB	JAD181A	G2C160174001	BD700C2.0	N																					
SB	JAD221	S245448*1	BD412X0.5	N																					
SB	JAD221	S245448*2	BD374X0.5	N																					
SB	JAD221	S245448*2*RE	BD374X0.5RE	LR	RE																				
SB	JAD221	S245448*3	BD390X0.5	N																					
SB	JAD221	S245448*4	BD386X0.5	N																					
SB	JAD221A	G2G310246001	BD390X0.5	N																					
SB	JAD221A	G2G310246001	BD390X0.5RE	LR	RE																				
SB	JAD221A	G2G310246002	BD386X0.5	N																					
SB	JAD221A	G2G310246002	BD386X0.5RE	LR	RE																				
SB	JAD221A	G2G310246004	BD412X0.5	N																					
SB	JAD221A	G2G310246004	BD412X0.5RE	LR	RE																				
SB	JAD221A	G2G310246005	BD372X0.5	N																					
SB	JAD221A	G2G310246005	BD372X0.5RE	LR	RE																				
SQ	JAD100	G1K010000481B	G1K010000481B	LB																					
SQ	JAD100	G1K010000481C	G1K010000481C	BS																					
SQ	JAD102	S1JAD102*1	JAD1021LB	LB																					
SQ	JAD102	S1JAD102*2	JAD1022BS	BS																					
SQ	JAD103	G1K010000481B	G1K010000481B	LB																					
SQ	JAD103	G1K010000481C	G1K010000481C	BS																					
SQ	JAD105	S117006A*8	17006A8LB	LB																					
SQ	JAD105	S117006A*9	17006A9BS	BS																					
SQ	JAD106	S117093*8	170938LB	LB																					
SQ	JAD106	S117093*9	170939BS	BS																					
SQ	JAD107	G1K010000481B	G1K010000481B	LB																					
SQ	JAD107	G1K010000481C	G1K010000481C	BS																					
SQ	JAD109	G1K030000143B	G1K030000143B	LB																					
SQ	JAD109	G1K030000143C	G1K030000143C	BS																					
SQ	JAD110	G1K050000482B	G1K050000482B	LB																					
SQ	JAD110	G1K050000482C	G1K050000482C	BS																					
SQ	JAD112	S117155A*13	17155A13LB	LB																					
SQ	JAD112	S117155A*14	17155A14BS	BS																					
SQ	JAD115	S117270A*14	17270A14LB	LB																					

3 10 0495

Matrix	SDG	Lab Sample ID	Sample ID	Sample Type	LR Type	(SW8081A/SW3550/NONE) 2,4,5,6-Tetrachloro-meta-xylene	(SW8081A/SW3550/NONE) 2,4,5,6-Tetrachloro-meta-xylene Lower Limit	(SW8081A/SW3550/NONE) 2,4,5,6-Tetrachloro-meta-xylene Upper Limit	(SW8081A/SW3550/NONE) 2,4,5,6-Tetrachloro-meta-xylene Qual	(SW8081A/SW3550/NONE) Decachlorobiphenyl	(SW8081A/SW3550/NONE) Decachlorobiphenyl Lower Limit	(SW8081A/SW3550/NONE) Decachlorobiphenyl Upper Limit	(SW8081A/SW3550/NONE) Decachlorobiphenyl Qual	(SW8082/SW3550/NONE) 2,4,5,6-Tetrachloro-meta-xylene	(SW8082/SW3550/NONE) 2,4,5,6-Tetrachloro-meta-xylene Lower Limit	(SW8082/SW3550/NONE) 2,4,5,6-Tetrachloro-meta-xylene Upper Limit	(SW8082/SW3550/NONE) 2,4,5,6-Tetrachloro-meta-xylene Qual	(SW8082/SW3550/NONE) Decachlorobiphenyl	(SW8082/SW3550/NONE) Decachlorobiphenyl Lower Limit	(SW8082/SW3550/NONE) Decachlorobiphenyl Upper Limit	(SW8082/SW3550/NONE) Decachlorobiphenyl Qual	(SW8270C/SW3550/NONE) 2,4,6-Tribromophenol	(SW8270C/SW3550/NONE) 2,4,6-Tribromophenol Lower Limit	(SW8270C/SW3550/NONE) 2,4,6-Tribromophenol Upper Limit	(SW8270C/SW3550/NONE) 2,4,6-Tribromophenol Qual
SQ	JAD115	S117270A*8	17270A8LB	LB																					
SQ	JAD115	S117270A*9	17270A9BS	BS																					
SQ	JAD116	G1K090000470B	G1K090000470B	LB																					
SQ	JAD116	G1K090000470C	G1K090000470C	BS																					
SQ	JAD117	G1K120000547B	G1K120000547B	LB																					
SQ	JAD117	G1K120000547C	G1K120000547C	BS																					
SQ	JAD118	G1K120000547B	G1K120000547B	LB																					
SQ	JAD118	G1K120000547C	G1K120000547C	BS																					
SQ	JAD173	S241177*3	411773LB	LB																					
SQ	JAD173	S241177*4	411774BS	BS																					
SQ	JAD173A	G2B210000400B	G2B210000400B	LB																					
SQ	JAD173A	G2B210000400C	G2B210000400C	BS																					
SQ	JAD180	S241811*10	4181110BS	BS																		85	23	129	
SQ	JAD180	S241811*9	418119LB	LB		94	24	152		100	24	152		94	34	138		100	34	138		73	10	135	
SQ	JAD180A	G2C180000091B	G2C180000091B	LB																					
SQ	JAD180A	G2C180000091C	G2C180000091C	BS																					
SQ	JAD181	S241875*3	418753LB	LB		94	24	152		100	24	152		94	34	138		100	34	138		73	10	135	
SQ	JAD181	S241875*4	418754BS	BS																		85	23	129	
SQ	JAD181A	G2C180000478B	G2C180000478B	LB																					
SQ	JAD181A	G2C180000478C	G2C180000478C	BS																					
SQ	JAD221	S245448*10	4544810LB	LB																					
SQ	JAD221	S245448*11	4544811BS	BS																					
SQ	JAD221	S245448*16	4544816LB	LB																					
SQ	JAD221A	G2H040000096B	G2H040000096B	LB																					
SQ	JAD221A	G2H040000096C	G2H040000096C	BS																					
SQ	JAD221A	G2H310000164B	G2H310000164B	LB																					
SQ	JAD221A	G2H310000164C	G2H310000164C	BS																					
WQ	JAD110	G1K030177002	BD8581EB	EB																					
WQ	JAD110	G1K030177003	BD8582EB	EB																					
WQ	JAD110	G1K060000127B	G1K060000127B	LB																					
WQ	JAD110	G1K060000127C	G1K060000127C	BS																					
WQ	JAD112	S117155A*11	BD8581EB	EB																					
WQ	JAD112	S117155A*12	BD8582EB	EB																					
WQ	JAD112	S117155A*16	17155A16LB	LB																					
WQ	JAD112	S117155A*17	17155A17BS	BS																					
WQ	JAD115	S117270A*11	17270A11LB	LB																					
WQ	JAD115	S117270A*12	17270A12BS	BS																					
WQ	JAD115	S117270A*15	17270A15LB	LB																					
WQ	JAD115	S117270A*6	BD8642EB	EB																					
WQ	JAD115	S117270A*7	BD8643EB	EB																					
WQ	JAD115	S117361*3	BD8644EB	EB																					
WQ	JAD115	S117361*4	BD8645EB	EB																					
WQ	JAD116	G1K080247006	BD8642EB	EB																					
WQ	JAD116	G1K080247007	BD8643EB	EB																					
WQ	JAD116	G1K120000157B	G1K120000157B	LB																					
WQ	JAD116	G1K120000157C	G1K120000157C	BS																					
WQ	JAD118	G1K100152002	BD8644EB	EB																					

3 10 0496

Table 6 - Surrogate Spike Control Limits and Recoveries

Matrix	SDG	Lab Sample ID	Sample ID	Sample Type	LR Type	(SW8081A/SW3550/NONE) 2,4,5,6-Tetrachloro-meta-xylene	(SW8081A/SW3550/NONE) 2,4,5,6-Tetrachloro-meta-xylene Lower Limit	(SW8081A/SW3550/NONE) 2,4,5,6-Tetrachloro-meta-xylene Upper Limit	(SW8081A/SW3550/NONE) 2,4,5,6-Tetrachloro-meta-xylene Qual	(SW8081A/SW3550/NONE) Decachlorobiphenyl	(SW8081A/SW3550/NONE) Decachlorobiphenyl Lower Limit	(SW8081A/SW3550/NONE) Decachlorobiphenyl Upper Limit	(SW8081A/SW3550/NONE) Decachlorobiphenyl Qual	(SW8082/SW3550/NONE) 2,4,5,6-Tetrachloro-meta-xylene	(SW8082/SW3550/NONE) 2,4,5,6-Tetrachloro-meta-xylene Lower Limit	(SW8082/SW3550/NONE) 2,4,5,6-Tetrachloro-meta-xylene Upper Limit	(SW8082/SW3550/NONE) 2,4,5,6-Tetrachloro-meta-xylene Qual	(SW8082/SW3550/NONE) Decachlorobiphenyl	(SW8082/SW3550/NONE) Decachlorobiphenyl Lower Limit	(SW8082/SW3550/NONE) Decachlorobiphenyl Upper Limit	(SW8082/SW3550/NONE) Decachlorobiphenyl Qual	(SW8270C/SW3550/NONE) 2,4,6-Tribromophenol	(SW8270C/SW3550/NONE) 2,4,6-Tribromophenol Lower Limit	(SW8270C/SW3550/NONE) 2,4,6-Tribromophenol Upper Limit	(SW8270C/SW3550/NONE) 2,4,6-Tribromophenol Qual
WQ	JAD118	G1K100152003	BD8645EB	EB																					
WQ	JAD118	G1K130000121B	G1K130000121B	LB																					
WQ	JAD118	G1K130000121C	G1K130000121C	BS																					
WQ	JAD221	S245448*13	4544813LB	LB																					
WQ	JAD221	S245448*14	4544814BS	BS																					
WQ	JAD221	S245448*9	BD8594EB	EB																					
WQ	JAD221A	G2G310246003	BD8594EB	EB																					
WQ	JAD221A	G2H060000304B	G2H060000304B	LB																					
WQ	JAD221A	G2H060000304C	G2H060000304C	BS																					

3 10 0497

Table 6 - Surrogate Spike Control Limits and Recoveries

Matrix	SDG	Lab Sample ID	Sample ID	Sample Type	LR Type	(SW8270C/SW3550/NONE) 2-Fluorobiphenyl	(SW8270C/SW3550/NONE) 2-Fluorobiphenyl Lower Limit	(SW8270C/SW3550/NONE) 2-Fluorobiphenyl Upper Limit	(SW8270C/SW3550/NONE) 2-Fluorobiphenyl Qual	(SW8270C/SW3550/NONE) 2-Fluorophenol	(SW8270C/SW3550/NONE) 2-Fluorophenol Lower Limit	(SW8270C/SW3550/NONE) 2-Fluorophenol Upper Limit	(SW8270C/SW3550/NONE) 2-Fluorophenol Qual	(SW8270C/SW3550/NONE) Nitrobenzene-d5	(SW8270C/SW3550/NONE) Nitrobenzene-d5 Lower Limit	(SW8270C/SW3550/NONE) Nitrobenzene-d5 Upper Limit	(SW8270C/SW3550/NONE) Nitrobenzene-d5 Qual	(SW8270C/SW3550/NONE) Phenol-d5	(SW8270C/SW3550/NONE) Phenol-d5 Lower Limit	(SW8270C/SW3550/NONE) Phenol-d5 Upper Limit	(SW8270C/SW3550/NONE) Phenol-d5 Qual	(SW8270C/SW3550/NONE) Terphenyl-d14	(SW8270C/SW3550/NONE) Terphenyl-d14 Lower Limit	(SW8270C/SW3550/NONE) Terphenyl-d14 Upper Limit	(SW8270C/SW3550/NONE) Terphenyl-d14 Qual
SB	JAD100	G1J250309001	BD041X0.5	N																				
SB	JAD100	G1J250309002	BD091X0.5	N																				
SB	JAD100	G1J250309003	BD091X0.5FD	FD																				
SB	JAD100	G1J250309004	BD321X0.5	N																				
SB	JAD100	G1J250309005	BD161X0.5	N																				
SB	JAD102	S116955A*1	BD041X0.5	N																				
SB	JAD102	S116955A*2	BD091X0.5	N																				
SB	JAD102	S116955A*3	BD091X0.5FD	FD																				
SB	JAD102	S116955A*4	BD321X0.5	N																				
SB	JAD102	S116955A*5	BD161X0.5	N																				
SB	JAD102	S116988A*1	BD081X0.5	N																				
SB	JAD102	S116988A*2	BD121X0.5	N																				
SB	JAD102	S116988A*3	BD211X0.5	N																				
SB	JAD103	G1J260322001	BD081X0.5	N																				
SB	JAD103	G1J260322002	BD121X0.5	N																				
SB	JAD103	G1J260322003	BD211X0.5	N																				
SB	JAD105	S117006A*1	BD099X0.5	N																				
SB	JAD105	S117006A*15	BD070X0.5MS	MS																				
SB	JAD105	S117006A*17	BD070X0.5SD	SD																				
SB	JAD105	S117006A*2	BD070X0.5	N																				
SB	JAD105	S117006A*3	BD148X0.5	N																				
SB	JAD106	S117093*1	BD020X0.5	N																				
SB	JAD106	S117093*2	BD020X0.5FD	FD																				
SB	JAD106	S117093*3	BD200X0.5	N																				
SB	JAD106	S117093*4	BD061X0.5	N																				
SB	JAD107	G1J270195001	BD070X0.5	N																				
SB	JAD107	G1J270195001D	BD070X0.5-SD	SD																				
SB	JAD107	G1J270195001S	BD070X0.5-MS	MS																				
SB	JAD107	G1J270195002	BD148X0.5	N																				
SB	JAD107	G1J270195003	BD099X0.5	N																				
SB	JAD109	G1K010270001	BD020X0.5	N																				
SB	JAD109	G1K010270002	BD020X0.5FD	FD																				
SB	JAD109	G1K010270003	BD200X0.5	N																				
SB	JAD109	G1K010270004	BD061X0.5	N																				
SB	JAD110	G1K030177001	BD111X0.5	N																				
SB	JAD112	S117155A*1	BD111X0.5	N																				
SB	JAD115	S117270A*1	BD260X0.5	N																				
SB	JAD115	S117270A*2	BD189X0.5	N																				
SB	JAD115	S117270A*3	BD192X0.5	N																				
SB	JAD115	S117270A*4	BD172X0.5	N																				
SB	JAD115	S117270A*5	BD252X0.5	N																				
SB	JAD115	S117329A*1	BD001X0.5	N																				
SB	JAD115	S117329A*2	BD031X0.5	N																				
SB	JAD115	S117361*1	BD150X0.5	N																				
SB	JAD116	G1K080247001	BD260X0.5	N																				
SB	JAD116	G1K080247002	BD189X0.5	N																				
SB	JAD116	G1K080247003	BD192X0.5	N																				

3 10 0498

Table 6 - Surrogate Spike Control Limits and Recoveries

Matrix	SDG	Lab Sample ID	Sample ID	Sample Type	LR Type	(SW8270C/SW3550/NONE) 2-Fluorobiphenyl	(SW8270C/SW3550/NONE) 2-Fluorobiphenyl Lower Limit	(SW8270C/SW3550/NONE) 2-Fluorobiphenyl Upper Limit	(SW8270C/SW3550/NONE) 2-Fluorobiphenyl Qual	(SW8270C/SW3550/NONE) 2-Fluorophenol	(SW8270C/SW3550/NONE) 2-Fluorophenol Lower Limit	(SW8270C/SW3550/NONE) 2-Fluorophenol Upper Limit	(SW8270C/SW3550/NONE) 2-Fluorophenol Qual	(SW8270C/SW3550/NONE) Nitrobenzene-d5	(SW8270C/SW3550/NONE) Nitrobenzene-d5 Lower Limit	(SW8270C/SW3550/NONE) Nitrobenzene-d5 Upper Limit	(SW8270C/SW3550/NONE) Nitrobenzene-d5 Qual	(SW8270C/SW3550/NONE) Phenol-d5	(SW8270C/SW3550/NONE) Phenol-d5 Lower Limit	(SW8270C/SW3550/NONE) Phenol-d5 Upper Limit	(SW8270C/SW3550/NONE) Phenol-d5 Qual	(SW8270C/SW3550/NONE) Terphenyl-d14	(SW8270C/SW3550/NONE) Terphenyl-d14 Lower Limit	(SW8270C/SW3550/NONE) Terphenyl-d14 Upper Limit	(SW8270C/SW3550/NONE) Terphenyl-d14 Qual
SB	JAD116	G1K080247004	BD172X0.5	N																				
SB	JAD116	G1K080247005	BD252X0.5	N																				
SB	JAD117	G1K090270001	BD001X0.5	N																				
SB	JAD117	G1K090270002	BD031X0.5	N																				
SB	JAD118	G1K100152001	BD150X0.5	N																				
SB	JAD173	S241177*1	BD278X0.5	N																				
SB	JAD173	S241177*2	BD010X0.5	N																				
SB	JAD173A	G2B200252001	BD278X0.5	N																				
SB	JAD173A	G2B200252002	BD010X0.5	N																				
SB	JAD180	S241811*7	BD707X0.5	N		61	17	130		57	30	120		52	30	131		59	11	122		72	19	114	
SB	JAD180	S241811*8	BD702X0.5	N		56	17	130		54	30	120		50	30	131		57	11	122		72	19	114	
SB	JAD180A	G2C140234001	BD707X0.5	N																					
SB	JAD180A	G2C140234002	BD702X0.5	N																					
SB	JAD181	S241875*2	BD700C2.0	N		72	17	130		69	30	120		61	30	131		72	11	122		89	19	114	
SB	JAD181A	G2C160174001	BD700C2.0	N																					
SB	JAD221	S245448*1	BD412X0.5	N																					
SB	JAD221	S245448*2	BD374X0.5	N																					
SB	JAD221	S245448*2*RE	BD374X0.5RE	LR	RE																				
SB	JAD221	S245448*3	BD390X0.5	N																					
SB	JAD221	S245448*4	BD386X0.5	N																					
SB	JAD221A	G2G310246001	BD390X0.5	N																					
SB	JAD221A	G2G310246001	BD390X0.5RE	LR	RE																				
SB	JAD221A	G2G310246002	BD386X0.5	N																					
SB	JAD221A	G2G310246002	BD386X0.5RE	LR	RE																				
SB	JAD221A	G2G310246004	BD412X0.5	N																					
SB	JAD221A	G2G310246004	BD412X0.5RE	LR	RE																				
SB	JAD221A	G2G310246005	BD372X0.5	N																					
SB	JAD221A	G2G310246005	BD372X0.5RE	LR	RE																				
SQ	JAD100	G1K010000481B	G1K010000481B	LB																					
SQ	JAD100	G1K010000481C	G1K010000481C	BS																					
SQ	JAD102	S1JAD102*1	JAD1021LB	LB																					
SQ	JAD102	S1JAD102*2	JAD1022BS	BS																					
SQ	JAD103	G1K010000481B	G1K010000481B	LB																					
SQ	JAD103	G1K010000481C	G1K010000481C	BS																					
SQ	JAD105	S117006A*8	17006A8LB	LB																					
SQ	JAD105	S117006A*9	17006A9BS	BS																					
SQ	JAD106	S117093*8	170938LB	LB																					
SQ	JAD106	S117093*9	170939BS	BS																					
SQ	JAD107	G1K010000481B	G1K010000481B	LB																					
SQ	JAD107	G1K010000481C	G1K010000481C	BS																					
SQ	JAD109	G1K030000143B	G1K030000143B	LB																					
SQ	JAD109	G1K030000143C	G1K030000143C	BS																					
SQ	JAD110	G1K050000482B	G1K050000482B	LB																					
SQ	JAD110	G1K050000482C	G1K050000482C	BS																					
SQ	JAD112	S117155A*13	17155A13LB	LB																					
SQ	JAD112	S117155A*14	17155A14BS	BS																					
SQ	JAD115	S117270A*14	17270A14LB	LB																					

3 10 0499

Table 6 - Surrogate Spike Control Limits and Recoveries

Matrix	SDG	Lab Sample ID	Sample ID	Sample Type	LR Type	(SW8270C/SW3550/NONE) 2-Fluorobiphenyl	(SW8270C/SW3550/NONE) 2-Fluorobiphenyl Lower Limit	(SW8270C/SW3550/NONE) 2-Fluorobiphenyl Upper Limit	(SW8270C/SW3550/NONE) 2-Fluorobiphenyl Qual	(SW8270C/SW3550/NONE) 2-Fluorophenol	(SW8270C/SW3550/NONE) 2-Fluorophenol Lower Limit	(SW8270C/SW3550/NONE) 2-Fluorophenol Upper Limit	(SW8270C/SW3550/NONE) 2-Fluorophenol Qual	(SW8270C/SW3550/NONE) Nitrobenzene-d5	(SW8270C/SW3550/NONE) Nitrobenzene-d5 Lower Limit	(SW8270C/SW3550/NONE) Nitrobenzene-d5 Upper Limit	(SW8270C/SW3550/NONE) Nitrobenzene-d5 Qual	(SW8270C/SW3550/NONE) Phenol-d5	(SW8270C/SW3550/NONE) Phenol-d5 Lower Limit	(SW8270C/SW3550/NONE) Phenol-d5 Upper Limit	(SW8270C/SW3550/NONE) Phenol-d5 Qual	(SW8270C/SW3550/NONE) Terphenyl-d14	(SW8270C/SW3550/NONE) Terphenyl-d14 Lower Limit	(SW8270C/SW3550/NONE) Terphenyl-d14 Upper Limit	(SW8270C/SW3550/NONE) Terphenyl-d14 Qual
SQ	JAD115	S117270A*8	17270A8LB	LB																				
SQ	JAD115	S117270A*9	17270A9BS	BS																				
SQ	JAD116	G1K090000470B	G1K090000470B	LB																				
SQ	JAD116	G1K090000470C	G1K090000470C	BS																				
SQ	JAD117	G1K120000547B	G1K120000547B	LB																				
SQ	JAD117	G1K120000547C	G1K120000547C	BS																				
SQ	JAD118	G1K120000547B	G1K120000547B	LB																				
SQ	JAD118	G1K120000547C	G1K120000547C	BS																				
SQ	JAD173	S241177*3	411773LB	LB																				
SQ	JAD173	S241177*4	411774BS	BS																				
SQ	JAD173A	G2B210000400B	G2B210000400B	LB																				
SQ	JAD173A	G2B210000400C	G2B210000400C	BS																				
SQ	JAD180	S241811*10	4181110BS	BS		82	30	120		79	16	113		70	20	120		79	19	114		94	30	131	
SQ	JAD180	S241811*9	418119LB	LB		70	17	130		70	30	120		65	30	131		67	11	122		82	19	114	
SQ	JAD180A	G2C180000091B	G2C180000091B	LB																					
SQ	JAD180A	G2C180000091C	G2C180000091C	BS																					
SQ	JAD181	S241875*3	418753LB	LB		70	17	130		70	30	120		65	30	131		67	11	122		82	19	114	
SQ	JAD181	S241875*4	418754BS	BS		82	30	120		79	16	113		70	20	120		79	19	114		94	30	131	
SQ	JAD181A	G2C180000478B	G2C180000478B	LB																					
SQ	JAD181A	G2C180000478C	G2C180000478C	BS																					
SQ	JAD221	S245448*10	4544810LB	LB																					
SQ	JAD221	S245448*11	4544811BS	BS																					
SQ	JAD221	S245448*16	4544816LB	LB																					
SQ	JAD221A	G2H040000096B	G2H040000096B	LB																					
SQ	JAD221A	G2H040000096C	G2H040000096C	BS																					
SQ	JAD221A	G2H310000164B	G2H310000164B	LB																					
SQ	JAD221A	G2H310000164C	G2H310000164C	BS																					
WQ	JAD110	G1K030177002	BD8581EB	EB																					
WQ	JAD110	G1K030177003	BD8582EB	EB																					
WQ	JAD110	G1K060000127B	G1K060000127B	LB																					
WQ	JAD110	G1K060000127C	G1K060000127C	BS																					
WQ	JAD112	S117155A*11	BD8581EB	EB																					
WQ	JAD112	S117155A*12	BD8582EB	EB																					
WQ	JAD112	S117155A*16	17155A16LB	LB																					
WQ	JAD112	S117155A*17	17155A17BS	BS																					
WQ	JAD115	S117270A*11	17270A11LB	LB																					
WQ	JAD115	S117270A*12	17270A12BS	BS																					
WQ	JAD115	S117270A*15	17270A15LB	LB																					
WQ	JAD115	S117270A*6	BD8642EB	EB																					
WQ	JAD115	S117270A*7	BD8643EB	EB																					
WQ	JAD115	S117361*3	BD8644EB	EB																					
WQ	JAD115	S117361*4	BD8645EB	EB																					
WQ	JAD116	G1K080247006	BD8642EB	EB																					
WQ	JAD116	G1K080247007	BD8643EB	EB																					
WQ	JAD116	G1K120000157B	G1K120000157B	LB																					
WQ	JAD116	G1K120000157C	G1K120000157C	BS																					
WQ	JAD118	G1K100152002	BD8644EB	EB																					

3 10 1500

Table 6 - Surrogate Spike Control Limits and Recoveries

Matrix	SDG	Lab Sample ID	Sample ID	Sample Type	LR Type	(SW8270C/SW3550/NONE) 2-Fluorobiphenyl	(SW8270C/SW3550/NONE) 2-Fluorobiphenyl Lower Limit	(SW8270C/SW3550/NONE) 2-Fluorobiphenyl Upper Limit	(SW8270C/SW3550/NONE) 2-Fluorobiphenyl Qual	(SW8270C/SW3550/NONE) 2-Fluorophenol	(SW8270C/SW3550/NONE) 2-Fluorophenol Lower Limit	(SW8270C/SW3550/NONE) 2-Fluorophenol Upper Limit	(SW8270C/SW3550/NONE) 2-Fluorophenol Qual	(SW8270C/SW3550/NONE) Nitrobenzene-d5	(SW8270C/SW3550/NONE) Nitrobenzene-d5 Lower Limit	(SW8270C/SW3550/NONE) Nitrobenzene-d5 Upper Limit	(SW8270C/SW3550/NONE) Nitrobenzene-d5 Qual	(SW8270C/SW3550/NONE) Phenol-d5	(SW8270C/SW3550/NONE) Phenol-d5 Lower Limit	(SW8270C/SW3550/NONE) Phenol-d5 Upper Limit	(SW8270C/SW3550/NONE) Phenol-d5 Qual	(SW8270C/SW3550/NONE) Terphenyl-d14	(SW8270C/SW3550/NONE) Terphenyl-d14 Lower Limit	(SW8270C/SW3550/NONE) Terphenyl-d14 Upper Limit	(SW8270C/SW3550/NONE) Terphenyl-d14 Qual
WQ	JAD118	G1K100152003	BD8645EB	EB																				
WQ	JAD118	G1K130000121B	G1K130000121B	LB																				
WQ	JAD118	G1K130000121C	G1K130000121C	BS																				
WQ	JAD221	S245448*13	4544813LB	LB																				
WQ	JAD221	S245448*14	4544814BS	BS																				
WQ	JAD221	S245448*9	BD8594EB	EB																				
WQ	JAD221A	G2G310246003	BD8594EB	EB																				
WQ	JAD221A	G2H060000304B	G2H060000304B	LB																				
WQ	JAD221A	G2H060000304C	G2H060000304C	BS																				

3 10 0501

Matrix	SDG	Lab Sample ID	Sample ID	Sample Type	LR Type	(SW8270C/SW3520/NONE) 2-Fluorobiphenyl	(SW8270C/SW3520/NONE) 2-Fluorobiphenyl Lower Limit	(SW8270C/SW3520/NONE) 2-Fluorobiphenyl Upper Limit	(SW8270C/SW3520/NONE) 2-Fluorobiphenyl Qual	(SW8270C/SW3520/NONE) Nitrobenzene-d5	(SW8270C/SW3520/NONE) Nitrobenzene-d5 Lower Limit	(SW8270C/SW3520/NONE) Nitrobenzene-d5 Upper Limit	(SW8270C/SW3520/NONE) Nitrobenzene-d5 Qual	(SW8270C/SW3520/NONE) Terphenyl-d14	(SW8270C/SW3520/NONE) Terphenyl-d14 Lower Limit	(SW8270C/SW3520/NONE) Terphenyl-d14 Upper Limit	(SW8270C/SW3520/NONE) Terphenyl-d14 Qual	(SW8270C/SW3550/NONE) 2-Fluorobiphenyl	(SW8270C/SW3550/NONE) 2-Fluorobiphenyl Lower Limit	(SW8270C/SW3550/NONE) 2-Fluorobiphenyl Upper Limit	(SW8270C/SW3550/NONE) 2-Fluorobiphenyl Qual	(SW8270C/SW3550/NONE) Nitrobenzene-d5	(SW8270C/SW3550/NONE) Nitrobenzene-d5 Lower Limit	(SW8270C/SW3550/NONE) Nitrobenzene-d5 Upper Limit	(SW8270C/SW3550/NONE) Nitrobenzene-d5 Qual
SB	JAD100	G1J250309001	BD041X0.5	N																					
SB	JAD100	G1J250309002	BD091X0.5	N																					
SB	JAD100	G1J250309003	BD091X0.5FD	FD																					
SB	JAD100	G1J250309004	BD321X0.5	N																					
SB	JAD100	G1J250309005	BD161X0.5	N																					
SB	JAD102	S116955A*1	BD041X0.5	N														82	30	120		76	20	120	
SB	JAD102	S116955A*2	BD091X0.5	N														78	30	120		72	20	120	
SB	JAD102	S116955A*3	BD091X0.5FD	FD														83	30	120		72	20	120	
SB	JAD102	S116955A*4	BD321X0.5	N														56	30	120		50	20	120	
SB	JAD102	S116955A*5	BD161X0.5	N														72	30	120		67	20	120	
SB	JAD102	S116988A*1	BD081X0.5	N														67	30	120		61	20	120	
SB	JAD102	S116988A*2	BD121X0.5	N														56	30	120		49	20	120	
SB	JAD102	S116988A*3	BD211X0.5	N														61	30	120		55	20	120	
SB	JAD103	G1J260322001	BD081X0.5	N																					
SB	JAD103	G1J260322002	BD121X0.5	N																					
SB	JAD103	G1J260322003	BD211X0.5	N																					
SB	JAD105	S117006A*1	BD099X0.5	N														88	30	120		76	20	120	
SB	JAD105	S117006A*15	BD070X0.5MS	MS														83	30	120		78	20	120	
SB	JAD105	S117006A*17	BD070X0.5SD	SD														100	30	120		89	20	120	
SB	JAD105	S117006A*2	BD070X0.5	N														94	30	120		83	20	120	
SB	JAD105	S117006A*3	BD148X0.5	N														78	30	120		78	20	120	
SB	JAD106	S117093*1	BD020X0.5	N														56	30	120		45	20	120	
SB	JAD106	S117093*2	BD020X0.5FD	FD														59	30	120		45	20	120	
SB	JAD106	S117093*3	BD200X0.5	N														72	30	120		56	20	120	
SB	JAD106	S117093*4	BD061X0.5	N														53	30	120		44	20	120	
SB	JAD107	G1J270195001	BD070X0.5	N																					
SB	JAD107	G1J270195001D	BD070X0.5-SD	SD																					
SB	JAD107	G1J270195001S	BD070X0.5-MS	MS																					
SB	JAD107	G1J270195002	BD148X0.5	N																					
SB	JAD107	G1J270195003	BD099X0.5	N																					
SB	JAD109	G1K010270001	BD020X0.5	N																					
SB	JAD109	G1K010270002	BD020X0.5FD	FD																					
SB	JAD109	G1K010270003	BD200X0.5	N																					
SB	JAD109	G1K010270004	BD061X0.5	N																					
SB	JAD110	G1K030177001	BD111X0.5	N																					
SB	JAD112	S117155A*1	BD111X0.5	N														39	30	120		38	20	120	
SB	JAD115	S117270A*1	BD260X0.5	N														61	30	120		61	20	120	
SB	JAD115	S117270A*2	BD189X0.5	N														58	30	120		53	20	120	
SB	JAD115	S117270A*3	BD192X0.5	N														67	30	120		61	20	120	
SB	JAD115	S117270A*4	BD172X0.5	N														67	30	120		56	20	120	
SB	JAD115	S117270A*5	BD252X0.5	N														56	30	120		48	20	120	
SB	JAD115	S117329A*1	BD001X0.5	N														52	30	120		48	20	120	
SB	JAD115	S117329A*2	BD031X0.5	N														61	30	120		53	20	120	
SB	JAD115	S117361*1	BD150X0.5	N														61	30	120		56	20	120	
SB	JAD116	G1K080247001	BD260X0.5	N																					
SB	JAD116	G1K080247002	BD189X0.5	N																					
SB	JAD116	G1K080247003	BD192X0.5	N																					

3 10 0502

Table 6 - Surrogate Spike Control Limits and Recoveries

Matrix	SDG	Lab Sample ID	Sample ID	Sample Type	LR Type	(SW8270C/SW3520/NONE) 2-Fluorophenyl	(SW8270C/SW3520/NONE) 2-Fluorophenyl Lower Limit	(SW8270C/SW3520/NONE) 2-Fluorophenyl Upper Limit	(SW8270C/SW3520/NONE) 2-Fluorophenyl Qual	(SW8270C/SW3520/NONE) Nitrobenzene-d5	(SW8270C/SW3520/NONE) Nitrobenzene-d5 Lower Limit	(SW8270C/SW3520/NONE) Nitrobenzene-d5 Upper Limit	(SW8270C/SW3520/NONE) Nitrobenzene-d5 Qual	(SW8270C/SW3520/NONE) Terphenyl-d14	(SW8270C/SW3520/NONE) Terphenyl-d14 Lower Limit	(SW8270C/SW3520/NONE) Terphenyl-d14 Upper Limit	(SW8270C/SW3520/NONE) Terphenyl-d14 Qual	(SW8270C/SW3550/NONE) 2-Fluorophenyl	(SW8270C/SW3550/NONE) 2-Fluorophenyl Lower Limit	(SW8270C/SW3550/NONE) 2-Fluorophenyl Upper Limit	(SW8270C/SW3550/NONE) 2-Fluorophenyl Qual	(SW8270C/SW3550/NONE) Nitrobenzene-d5	(SW8270C/SW3550/NONE) Nitrobenzene-d5 Lower Limit	(SW8270C/SW3550/NONE) Nitrobenzene-d5 Upper Limit	(SW8270C/SW3550/NONE) Nitrobenzene-d5 Qual
SB	JAD116	G1K080247004	BD172X0.5	N																					
SB	JAD116	G1K080247005	BD252X0.5	N																					
SB	JAD117	G1K090270001	BD001X0.5	N																					
SB	JAD117	G1K090270002	BD031X0.5	N																					
SB	JAD118	G1K100152001	BD150X0.5	N																					
SB	JAD173	S241177*1	BD278X0.5	N														48	18	123		33	30	131	
SB	JAD173	S241177*2	BD010X0.5	N														52	18	123		45	30	131	
SB	JAD173A	G2B200252001	BD278X0.5	N																					
SB	JAD173A	G2B200252002	BD010X0.5	N																					
SB	JAD180	S241811*7	BD707X0.5	N																					
SB	JAD180	S241811*8	BD702X0.5	N																					
SB	JAD180A	G2C140234001	BD707X0.5	N																					
SB	JAD180A	G2C140234002	BD702X0.5	N																					
SB	JAD181	S241875*2	BD700C2.0	N																					
SB	JAD181A	G2C160174001	BD700C2.0	N																					
SB	JAD221	S245448*1	BD412X0.5	N														43	36	121		32	14	148	
SB	JAD221	S245448*2	BD374X0.5	N														38	36	121		30	14	148	
SB	JAD221	S245448*2*RE	BD374X0.5RE	LR	RE													44	36	121		30	14	148	
SB	JAD221	S245448*3	BD390X0.5	N														43	36	121		31	14	148	
SB	JAD221	S245448*4	BD386X0.5	N														40	36	121		29	14	148	
SB	JAD221A	G2G310246001	BD390X0.5	N																					
SB	JAD221A	G2G310246001	BD390X0.5RE	LR	RE																				
SB	JAD221A	G2G310246002	BD386X0.5	N																					
SB	JAD221A	G2G310246002	BD386X0.5RE	LR	RE																				
SB	JAD221A	G2G310246004	BD412X0.5	N																					
SB	JAD221A	G2G310246004	BD412X0.5RE	LR	RE																				
SB	JAD221A	G2G310246005	BD372X0.5	N																					
SB	JAD221A	G2G310246005	BD372X0.5RE	LR	RE																				
SQ	JAD100	G1K010000481B	G1K010000481B	LB																					
SQ	JAD100	G1K010000481C	G1K010000481C	BS																					
SQ	JAD102	S1JAD102*1	JAD1021LB	LB														94	30	120		94	20	120	
SQ	JAD102	S1JAD102*2	JAD1022BS	BS														88	30	120		82	20	120	
SQ	JAD103	G1K010000481B	G1K010000481B	LB																					
SQ	JAD103	G1K010000481C	G1K010000481C	BS																					
SQ	JAD105	S117006A*8	17006A8LB	LB														94	30	120		94	20	120	
SQ	JAD105	S117006A*9	17006A9BS	BS														88	30	120		82	20	120	
SQ	JAD106	S117093*8	170938LB	LB														100	30	120		82	20	120	
SQ	JAD106	S117093*9	170939BS	BS														70	30	120		59	20	120	
SQ	JAD107	G1K010000481B	G1K010000481B	LB																					
SQ	JAD107	G1K010000481C	G1K010000481C	BS																					
SQ	JAD109	G1K030000143B	G1K030000143B	LB																					
SQ	JAD109	G1K030000143C	G1K030000143C	BS																					
SQ	JAD110	G1K050000482B	G1K050000482B	LB																					
SQ	JAD110	G1K050000482C	G1K050000482C	BS																					
SQ	JAD112	S117155A*13	17155A13LB	LB														82	30	120		88	20	120	
SQ	JAD112	S117155A*14	17155A14BS	BS														88	30	120		94	20	120	
SQ	JAD115	S117270A*14	17270A14LB	LB														76	30	120		76	20	120	

3 10 0503

Table 6 - Surrogate Spike Control Limits and Recoveries

Matrix	SDG	Lab Sample ID	Sample ID	Sample Type	LR Type	(SW8270C/SW8620/NONE) 2-Fluorobiphenyl	(SW8270C/SW8620/NONE) 2-Fluorobiphenyl Lower Limit	(SW8270C/SW8620/NONE) 2-Fluorobiphenyl Upper Limit	(SW8270C/SW8620/NONE) 2-Fluorobiphenyl Qual	(SW8270C/SW8620/NONE) Nitrobenzene-d5	(SW8270C/SW8620/NONE) Nitrobenzene-d5 Lower Limit	(SW8270C/SW8620/NONE) Nitrobenzene-d5 Upper Limit	(SW8270C/SW8620/NONE) Nitrobenzene-d5 Qual	(SW8270C/SW8620/NONE) Terphenyl-d14	(SW8270C/SW8620/NONE) Terphenyl-d14 Lower Limit	(SW8270C/SW8620/NONE) Terphenyl-d14 Upper Limit	(SW8270C/SW8620/NONE) Terphenyl-d14 Qual	(SW8270C/SW8650/NONE) 2-Fluorobiphenyl	(SW8270C/SW8650/NONE) 2-Fluorobiphenyl Lower Limit	(SW8270C/SW8650/NONE) 2-Fluorobiphenyl Upper Limit	(SW8270C/SW8650/NONE) 2-Fluorobiphenyl Qual	(SW8270C/SW8650/NONE) Nitrobenzene-d5	(SW8270C/SW8650/NONE) Nitrobenzene-d5 Lower Limit	(SW8270C/SW8650/NONE) Nitrobenzene-d5 Upper Limit	(SW8270C/SW8650/NONE) Nitrobenzene-d5 Qual
SQ	JAD115	S117270A*8	17270A8LB	LB														88	30	120		94	20	120	
SQ	JAD115	S117270A*9	17270A9BS	BS														82	30	120		76	20	120	
SQ	JAD116	G1K090000470B	G1K090000470B	LB																					
SQ	JAD116	G1K090000470C	G1K090000470C	BS																					
SQ	JAD117	G1K120000547B	G1K120000547B	LB																					
SQ	JAD117	G1K120000547C	G1K120000547C	BS																					
SQ	JAD118	G1K120000547B	G1K120000547B	LB																					
SQ	JAD118	G1K120000547C	G1K120000547C	BS																					
SQ	JAD173	S241177*3	411773LB	LB														82	18	123		70	30	131	
SQ	JAD173	S241177*4	411774BS	BS														82	30	120		70	20	120	
SQ	JAD173A	G2B210000400B	G2B210000400B	LB																					
SQ	JAD173A	G2B210000400C	G2B210000400C	BS																					
SQ	JAD180	S241811*10	4181110BS	BS																					
SQ	JAD180	S241811*9	418119LB	LB																					
SQ	JAD180A	G2C180000091B	G2C180000091B	LB																					
SQ	JAD180A	G2C180000091C	G2C180000091C	BS																					
SQ	JAD181	S241875*3	418753LB	LB																					
SQ	JAD181	S241875*4	418754BS	BS																					
SQ	JAD181A	G2C180000478B	G2C180000478B	LB																					
SQ	JAD181A	G2C180000478C	G2C180000478C	BS																					
SQ	JAD221	S245448*10	4544810LB	LB														65	36	121		56	14	148	
SQ	JAD221	S245448*11	4544811BS	BS														76	30	120		58	20	120	
SQ	JAD221	S245448*16	4544816LB	LB														65	30	120		55	20	120	
SQ	JAD221A	G2H040000096B	G2H040000096B	LB																					
SQ	JAD221A	G2H040000096C	G2H040000096C	BS																					
SQ	JAD221A	G2H310000164B	G2H310000164B	LB																					
SQ	JAD221A	G2H310000164C	G2H310000164C	BS																					
WQ	JAD110	G1K030177002	BD8581EB	EB																					
WQ	JAD110	G1K030177003	BD8582EB	EB																					
WQ	JAD110	G1K060000127B	G1K060000127B	LB																					
WQ	JAD110	G1K060000127C	G1K060000127C	BS																					
WQ	JAD112	S117155A*11	BD8581EB	EB		84	36	124		92	34	130		92	14	148									
WQ	JAD112	S117155A*12	BD8582EB	EB		76	36	124		86	34	130		94	14	148									
WQ	JAD112	S117155A*16	17155A16LB	LB		94	36	124		108	34	130		108	14	148									
WQ	JAD112	S117155A*17	17155A17BS	BS		96	36	124		94	34	130		106	14	148									
WQ	JAD115	S117270A*11	17270A11LB	LB		110	36	124		114	34	130		122	14	148									
WQ	JAD115	S117270A*12	17270A12BS	BS		96	36	124		94	34	130		100	14	148									
WQ	JAD115	S117270A*15	17270A15LB	LB		98	36	124		100	34	130		110	14	148									
WQ	JAD115	S117270A*6	BD8642EB	EB		120	36	124		128	34	130		122	14	148									
WQ	JAD115	S117270A*7	BD8643EB	EB		104	36	124		116	34	130		124	14	148									
WQ	JAD115	S117361*3	BD8644EB	EB		114	36	124		122	34	130		100	14	148									
WQ	JAD115	S117361*4	BD8645EB	EB		114	36	124		112	34	130		122	14	148									
WQ	JAD116	G1K080247006	BD8642EB	EB																					
WQ	JAD116	G1K080247007	BD8643EB	EB																					
WQ	JAD116	G1K120000157B	G1K120000157B	LB																					
WQ	JAD116	G1K120000157C	G1K120000157C	BS																					
WQ	JAD118	G1K100152002	BD8644EB	EB																					

3 10 0504

Table 6 - Surrogate Spike Control Limits and Recoveries

Matrix	SDG	Lab Sample ID	Sample ID	Sample Type	LR Type	(SW8270C/SW3520/NONE) 2-Fluorobiphenyl	(SW8270C/SW3520/NONE) 2-Fluorobiphenyl Lower Limit	(SW8270C/SW3520/NONE) 2-Fluorobiphenyl Upper Limit	(SW8270C/SW3520/NONE) 2-Fluorobiphenyl Qual	(SW8270C/SW3520/NONE) Nitrobenzene-d5	(SW8270C/SW3520/NONE) Nitrobenzene-d5 Lower Limit	(SW8270C/SW3520/NONE) Nitrobenzene-d5 Upper Limit	(SW8270C/SW3520/NONE) Nitrobenzene-d5 Qual	(SW8270C/SW3520/NONE) Terphenyl-d14	(SW8270C/SW3520/NONE) Terphenyl-d14 Lower Limit	(SW8270C/SW3520/NONE) Terphenyl-d14 Upper Limit	(SW8270C/SW3520/NONE) Terphenyl-d14 Qual	(SW8270C/SW3550/NONE) 2-Fluorobiphenyl	(SW8270C/SW3550/NONE) 2-Fluorobiphenyl Lower Limit	(SW8270C/SW3550/NONE) 2-Fluorobiphenyl Upper Limit	(SW8270C/SW3550/NONE) 2-Fluorobiphenyl Qual	(SW8270C/SW3550/NONE) Nitrobenzene-d5	(SW8270C/SW3550/NONE) Nitrobenzene-d5 Lower Limit	(SW8270C/SW3550/NONE) Nitrobenzene-d5 Upper Limit	(SW8270C/SW3550/NONE) Nitrobenzene-d5 Qual
WQ	JAD118	G1K100152003	BD8645EB	EB																					
WQ	JAD118	G1K130000121B	G1K130000121B	LB																					
WQ	JAD118	G1K130000121C	G1K130000121C	BS																					
WQ	JAD221	S245448*13	4544813LB	LB		88	30	120		94	20	120		86	30	131									
WQ	JAD221	S245448*14	4544814BS	BS		80	36	124		78	34	130		68	14	148									
WQ	JAD221	S245448*9	BD8594EB	EB		88	36	121		94	14	148		86	50	119									
WQ	JAD221A	G2G310246003	BD8594EB	EB																					
WQ	JAD221A	G2H060000304B	G2H060000304B	LB																					
WQ	JAD221A	G2H060000304C	G2H060000304C	BS																					

3 10 0505

Table 6 - Surrogate Spike Control Limits and Recoveries

Matrix	SDG	Lab Sample ID	Sample ID	Sample Type	LR Type	(SW8270C/SW3550/NONE) Terphenyl-d14	(SW8270C/SW3550/NONE) Terphenyl-d14 Lower Limit	(SW8270C/SW3550/NONE) Terphenyl-d14 Upper Limit	(SW8270C/SW3550/NONE) Terphenyl-d14 Qual	(SW8290/METHOD/NONE) 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin-c	(SW8290/METHOD/NONE) 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin-c Lower Limit	(SW8290/METHOD/NONE) 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin-c Upper Limit	(SW8290/METHOD/NONE) 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin-c Qual	(SW8290/METHOD/NONE) 1,2,3,4,6,7,8-Heptachlorodibenzofuran-c13	(SW8290/METHOD/NONE) 1,2,3,4,6,7,8-Heptachlorodibenzofuran-c13 Lower Limit	(SW8290/METHOD/NONE) 1,2,3,4,6,7,8-Heptachlorodibenzofuran-c13 Upper Limit	(SW8290/METHOD/NONE) 1,2,3,4,6,7,8-Heptachlorodibenzofuran-c13 Qual	(SW8290/METHOD/NONE) 1,2,3,4,7,8,9-Hexachlorodibenzofuran-c13	(SW8290/METHOD/NONE) 1,2,3,4,7,8,9-Hexachlorodibenzofuran-c13 Lower Limit	(SW8290/METHOD/NONE) 1,2,3,4,7,8,9-Hexachlorodibenzofuran-c13 Upper Limit	(SW8290/METHOD/NONE) 1,2,3,4,7,8,9-Hexachlorodibenzofuran-c13 Qual	(SW8290/METHOD/NONE) 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin-c13	(SW8290/METHOD/NONE) 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin-c13 Lower Limit	(SW8290/METHOD/NONE) 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin-c13 Upper Limit	(SW8290/METHOD/NONE) 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin-c13 Qual
SB	JAD100	G1J250309001	BD041X0.5	N						74	40	135		72	40	135		74	40	135		68	40	135	
SB	JAD100	G1J250309002	BD091X0.5	N						92	40	135		77	40	135		72	40	135		71	40	135	
SB	JAD100	G1J250309003	BD091X0.5FD	FD						92	40	135		77	40	135		72	40	135		69	40	135	
SB	JAD100	G1J250309004	BD321X0.5	N						83	40	135		76	40	135		74	40	135		71	40	135	
SB	JAD100	G1J250309005	BD161X0.5	N						86	40	135		84	40	135		76	40	135		77	40	135	
SB	JAD102	S116955A*1	BD041X0.5	N		82	30	131																	
SB	JAD102	S116955A*2	BD091X0.5	N		78	30	131																	
SB	JAD102	S116955A*3	BD091X0.5FD	FD		83	30	131																	
SB	JAD102	S116955A*4	BD321X0.5	N		67	30	131																	
SB	JAD102	S116955A*5	BD161X0.5	N		72	30	131																	
SB	JAD102	S116988A*1	BD081X0.5	N		78	30	131																	
SB	JAD102	S116988A*2	BD121X0.5	N		67	30	131																	
SB	JAD102	S116988A*3	BD211X0.5	N		67	30	131																	
SB	JAD103	G1J260322001	BD081X0.5	N						89	40	135		85	40	135		78	40	135		80	40	135	
SB	JAD103	G1J260322002	BD121X0.5	N						88	40	135		85	40	135		80	40	135		80	40	135	
SB	JAD103	G1J260322003	BD211X0.5	N						69	40	135		69	40	135		75	40	135		71	40	135	
SB	JAD105	S117006A*1	BD099X0.5	N		76	30	131																	
SB	JAD105	S117006A*15	BD070X0.5MS	MS		78	30	131																	
SB	JAD105	S117006A*17	BD070X0.5SD	SD		78	30	131																	
SB	JAD105	S117006A*2	BD070X0.5	N		83	30	131																	
SB	JAD105	S117006A*3	BD148X0.5	N		83	30	131																	
SB	JAD106	S117093*1	BD020X0.5	N		47	30	131																	
SB	JAD106	S117093*2	BD020X0.5FD	FD		58	30	131																	
SB	JAD106	S117093*3	BD200X0.5	N		78	30	131																	
SB	JAD106	S117093*4	BD061X0.5	N		46	30	131																	
SB	JAD107	G1J270195001	BD070X0.5	N						76	40	135		75	40	135		73	40	135		68	40	135	
SB	JAD107	G1J270195001D	BD070X0.5-SD	SD						55	40	135		62	40	135		85	40	135		71	40	135	
SB	JAD107	G1J270195001S	BD070X0.5-MS	MS						84	40	135		86	40	135		77	40	135		72	40	135	
SB	JAD107	G1J270195002	BD148X0.5	N						68	40	135		64	40	135		87	40	135		73	40	135	
SB	JAD107	G1J270195003	BD099X0.5	N						46	40	135		45	40	135		52	40	135		44	40	135	
SB	JAD109	G1K010270001	BD020X0.5	N						78	40	135		71	40	135		64	40	135		71	40	135	
SB	JAD109	G1K010270002	BD020X0.5FD	FD						67	40	135		66	40	135		62	40	135		68	40	135	
SB	JAD109	G1K010270003	BD200X0.5	N						83	40	135		77	40	135		70	40	135		78	40	135	
SB	JAD109	G1K010270004	BD061X0.5	N						75	40	135		70	40	135		73	40	135		80	40	135	
SB	JAD110	G1K030177001	BD111X0.5	N						61	40	135		54	40	135		57	40	135		51	40	135	
SB	JAD112	S117155A*1	BD111X0.5	N		40	30	131																	
SB	JAD115	S117270A*1	BD260X0.5	N		78	30	131																	
SB	JAD115	S117270A*2	BD189X0.5	N		63	30	131																	
SB	JAD115	S117270A*3	BD192X0.5	N		67	30	131																	
SB	JAD115	S117270A*4	BD172X0.5	N		72	30	131																	
SB	JAD115	S117270A*5	BD252X0.5	N		61	30	131																	
SB	JAD115	S117329A*1	BD001X0.5	N		56	30	131																	
SB	JAD115	S117329A*2	BD031X0.5	N		67	30	131																	
SB	JAD115	S117361*1	BD150X0.5	N		61	30	131																	
SB	JAD116	G1K080247001	BD260X0.5	N						76	40	135		70	40	135		84	40	135		82	40	135	
SB	JAD116	G1K080247002	BD189X0.5	N						77	40	135		77	40	135		89	40	135		96	40	135	
SB	JAD116	G1K080247003	BD192X0.5	N						80	40	135		84	40	135		100	40	135		95	40	135	

3 10 0506

Table 6 - Surrogate Spike Control Limits and Recoveries

Matrix	SDG	Lab Sample ID	Sample ID	Sample Type	LR Type	(SW8270C/SW3550/NONE) Terphenyl-d14				(SW8270C/SW3550/NONE) Terphenyl-d14 Lower Limit				(SW8270C/SW3550/NONE) Terphenyl-d14 Upper Limit				(SW8270C/SW3550/NONE) Terphenyl-d14 Qual				(SW8260/METHOD/NONE) 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin-c				(SW8260/METHOD/NONE) 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin-c Lower Limit				(SW8260/METHOD/NONE) 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin-c Upper Limit				(SW8260/METHOD/NONE) 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin-c Qual				(SW8260/METHOD/NONE) 1,2,3,4,6,7,8-Heptachlorodibenzofuran-c13				(SW8260/METHOD/NONE) 1,2,3,4,6,7,8-Heptachlorodibenzofuran-c13 Lower Limit				(SW8260/METHOD/NONE) 1,2,3,4,6,7,8-Heptachlorodibenzofuran-c13 Upper Limit				(SW8260/METHOD/NONE) 1,2,3,4,6,7,8-Heptachlorodibenzofuran-c13 Qual				(SW8260/METHOD/NONE) 1,2,3,4,7,8-Hexachlorodibenzofuran-c13				(SW8260/METHOD/NONE) 1,2,3,4,7,8-Hexachlorodibenzofuran-c13 Lower Limit				(SW8260/METHOD/NONE) 1,2,3,4,7,8-Hexachlorodibenzofuran-c13 Upper Limit				(SW8260/METHOD/NONE) 1,2,3,4,7,8-Hexachlorodibenzofuran-c13 Qual				(SW8260/METHOD/NONE) 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin-c13				(SW8260/METHOD/NONE) 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin-c13 Lower Limit				(SW8260/METHOD/NONE) 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin-c13 Upper Limit				(SW8260/METHOD/NONE) 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin-c13 Qual			
SB	JAD116	G1K080247004	BD172X0.5	N										70	40	135		73	40	135		88	40	135		85	40	135	
SB	JAD116	G1K080247005	BD252X0.5	N										77	40	135		80	40	135		97	40	135		95	40	135	
SB	JAD117	G1K090270001	BD001X0.5	N										78	40	135		77	40	135		70	40	135		76	40	135	
SB	JAD117	G1K090270002	BD031X0.5	N										81	40	135		79	40	135		71	40	135		80	40	135	
SB	JAD118	G1K100152001	BD150X0.5	N										77	40	135		71	40	135		65	40	135		76	40	135	
SB	JAD173	S241177*1	BD278X0.5	N		51	36	132																					
SB	JAD173	S241177*2	BD010X0.5	N		52	36	132																					
SB	JAD173A	G2B200252001	BD278X0.5	N										94	40	135		105	40	135		80	40	135		72	40	135	
SB	JAD173A	G2B200252002	BD010X0.5	N										80	40	135		88	40	135		73	40	135		69	40	135	
SB	JAD180	S241811*7	BD707X0.5	N																									
SB	JAD180	S241811*8	BD702X0.5	N																									
SB	JAD180A	G2C140234001	BD707X0.5	N										47	40	135		45	40	135		44	40	135		42	40	135	
SB	JAD180A	G2C140234002	BD702X0.5	N										63	40	135		62	40	135		59	40	135		61	40	135	
SB	JAD181	S241875*2	BD700C2.0	N																									
SB	JAD181A	G2C160174001	BD700C2.0	N										74	40	135		72	40	135		72	40	135		70	40	135	
SB	JAD221	S245448*1	BD412X0.5	N		43	50	119																					
SB	JAD221	S245448*2	BD374X0.5	N		46	50	119																					
SB	JAD221	S245448*2*RE	BD374X0.5RE	LR	RE	40	50	119																					
SB	JAD221	S245448*3	BD390X0.5	N		51	50	119																					
SB	JAD221	S245448*4	BD386X0.5	N		40	50	119																					
SB	JAD221A	G2G310246001	BD390X0.5	N										82	40	135		68	40	135		68	40	135		82	40	135	
SB	JAD221A	G2G310246001	BD390X0.5RE	LR	RE									52	40	135		55	40	135		49	40	135		45	40	135	
SB	JAD221A	G2G310246002	BD386X0.5	N										48	40	135		43	40	135		37	40	135		45	40	135	
SB	JAD221A	G2G310246002	BD386X0.5RE	LR	RE									80	40	135		75	40	135		74	40	135		67	40	135	
SB	JAD221A	G2G310246004	BD412X0.5	N										80	40	135		69	40	135		71	40	135		79	40	135	
SB	JAD221A	G2G310246004	BD412X0.5RE	LR	RE									93	40	135		93	40	135		83	40	135		80	40	135	
SB	JAD221A	G2G310246005	BD372X0.5	N										84	40	135		72	40	135		68	40	135		79	40	135	
SB	JAD221A	G2G310246005	BD372X0.5RE	LR	RE									89	40	135		87	40	135		74	40	135		70	40	135	
SQ	JAD100	G1K010000481B	G1K010000481B	LB										82	40	135		88	40	135		82	40	135		79	40	135	
SQ	JAD100	G1K010000481C	G1K010000481C	BS										80	40	135		83	40	135		78	40	135		74	40	135	
SQ	JAD102	S1JAD102*1	JAD1021LB	LB		106	30	131																					
SQ	JAD102	S1JAD102*2	JAD1022BS	BS		88	30	131																					
SQ	JAD103	G1K010000481B	G1K010000481B	LB										82	40	135		88	40	135		82	40	135		79	40	135	
SQ	JAD103	G1K010000481C	G1K010000481C	BS										80	40	135		83	40	135		78	40	135		74	40	135	
SQ	JAD105	S117006A*8	17006A8LB	LB		106	30	131																					
SQ	JAD105	S117006A*9	17006A9BS	BS		88	30	131																					
SQ	JAD106	S117093*8	170938LB	LB		88	30	131																					
SQ	JAD106	S117093*9	170939BS	BS		70	30	131																					
SQ	JAD107	G1K010000481B	G1K010000481B	LB										82	40	135		88	40	135		82	40	135		79	40	135	
SQ	JAD107	G1K010000481C	G1K010000481C	BS										80	40	135		83	40	135		78	40	135		74	40	135	
SQ	JAD109	G1K030000143B	G1K030000143B	LB										104	40	135		97	40	135		57	40	135		75	40	135	
SQ	JAD109	G1K030000143C	G1K030000143C	BS										104	40	135		93	40	135		58	40	135		79	40	135	
SQ	JAD110	G1K050000482B	G1K050000482B	LB										109	40	135		102	40	135		71	40	135		85	40	135	
SQ	JAD110	G1K050000482C	G1K050000482C	BS										100	40	135		95	40	135		70	40	135		85	40	135	
SQ	JAD112	S117155A*13	17155A13LB	LB		88	30	131																					
SQ	JAD112	S117155A*14	17155A14BS	BS		94	30	131																					
SQ	JAD115	S117270A*14	17270A14LB	LB		82	30	131																					

3 10 0507

Table 6 - Surrogate Spike Control Limits and Recoveries

Matrix	SDG	Lab Sample ID	Sample ID	Sample Type	LR Type	(SW8270C/SW3550/NONE) Terphenyl-d14	(SW8270C/SW3550/NONE) Terphenyl-d14 Lower Limit	(SW8270C/SW3550/NONE) Terphenyl-d14 Upper Limit	(SW8270C/SW3550/NONE) Terphenyl-d14 Qual	(SW8290/METHOD/NONE) 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	(SW8290/METHOD/NONE) 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin Lower Limit	(SW8290/METHOD/NONE) 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin Upper Limit	(SW8290/METHOD/NONE) 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin Qual	(SW8290/METHOD/NONE) 1,2,3,4,6,7,8-Heptachlorodibenzofuran-c13	(SW8290/METHOD/NONE) 1,2,3,4,6,7,8-Heptachlorodibenzofuran-c13 Lower Limit	(SW8290/METHOD/NONE) 1,2,3,4,6,7,8-Heptachlorodibenzofuran-c13 Upper Limit	(SW8290/METHOD/NONE) 1,2,3,4,6,7,8-Heptachlorodibenzofuran-c13 Qual	(SW8290/METHOD/NONE) 1,2,3,4,7,8,9-Hexachlorodibenzofuran-c13	(SW8290/METHOD/NONE) 1,2,3,4,7,8,9-Hexachlorodibenzofuran-c13 Lower Limit	(SW8290/METHOD/NONE) 1,2,3,4,7,8,9-Hexachlorodibenzofuran-c13 Upper Limit	(SW8290/METHOD/NONE) 1,2,3,4,7,8,9-Hexachlorodibenzofuran-c13 Qual	(SW8290/METHOD/NONE) 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin-c13	(SW8290/METHOD/NONE) 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin-c13 Lower Limit	(SW8290/METHOD/NONE) 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin-c13 Upper Limit	(SW8290/METHOD/NONE) 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin-c13 Qual
SQ	JAD115	S117270A*8	17270A8LB	LB		100	30	131																	
SQ	JAD115	S117270A*9	17270A9BS	BS		88	30	131																	
SQ	JAD116	G1K090000470B	G1K090000470B	LB						80	40	135		82	40	135		97	40	135		90	40	135	
SQ	JAD116	G1K090000470C	G1K090000470C	BS						75	40	135		79	40	135		96	40	135		96	40	135	
SQ	JAD117	G1K120000547B	G1K120000547B	LB						82	40	135		75	40	135		75	40	135		85	40	135	
SQ	JAD117	G1K120000547C	G1K120000547C	BS						80	40	135		78	40	135		73	40	135		82	40	135	
SQ	JAD118	G1K120000547B	G1K120000547B	LB						82	40	135		75	40	135		75	40	135		85	40	135	
SQ	JAD118	G1K120000547C	G1K120000547C	BS						80	40	135		78	40	135		73	40	135		82	40	135	
SQ	JAD173	S241177*3	411773LB	LB		88	36	132																	
SQ	JAD173	S241177*4	411774BS	BS		82	30	131																	
SQ	JAD173A	G2B210000400B	G2B210000400B	LB						83	40	135		96	40	135		77	40	135		69	40	135	
SQ	JAD173A	G2B210000400C	G2B210000400C	BS						88	40	135		104	40	135		80	40	135		71	40	135	
SQ	JAD180	S241811*10	4181110BS	BS																					
SQ	JAD180	S241811*9	418119LB	LB																					
SQ	JAD180A	G2C180000091B	G2C180000091B	LB						61	40	135		63	40	135		63	40	135		59	40	135	
SQ	JAD180A	G2C180000091C	G2C180000091C	BS						64	40	135		63	40	135		62	40	135		65	40	135	
SQ	JAD181	S241875*3	418753LB	LB																					
SQ	JAD181	S241875*4	418754BS	BS																					
SQ	JAD181A	G2C180000478B	G2C180000478B	LB						77	40	135		74	40	135		74	40	135		77	40	135	
SQ	JAD181A	G2C180000478C	G2C180000478C	BS						82	40	135		78	40	135		75	40	135		76	40	135	
SQ	JAD221	S245448*10	4544810LB	LB		70	50	119																	
SQ	JAD221	S245448*11	4544811BS	BS		82	30	131																	
SQ	JAD221	S245448*16	4544816LB	LB		70	30	131																	
SQ	JAD221A	G2H040000096B	G2H040000096B	LB						32	40	135	¤*	32	40	135	¤*	31	40	135	¤*	36	40	135	¤*
SQ	JAD221A	G2H040000096C	G2H040000096C	BS						37	40	135	¤*	35	40	135	¤*	36	40	135	¤*	41	40	135	
SQ	JAD221A	G2H310000164B	G2H310000164B	LB						83	40	135		83	40	135		82	40	135		73	40	135	
SQ	JAD221A	G2H310000164C	G2H310000164C	BS						77	40	135		69	40	135		78	40	135		66	40	135	
WQ	JAD110	G1K030177002	BD8581EB	EB						100	40	135		82	40	135		84	40	135		84	40	135	
WQ	JAD110	G1K030177003	BD8582EB	EB						84	40	135		75	40	135		66	40	135		67	40	135	
WQ	JAD110	G1K060000127B	G1K060000127B	LB						90	40	135		72	40	135		54	40	135		68	40	135	
WQ	JAD110	G1K060000127C	G1K060000127C	BS						93	40	135		86	40	135		79	40	135		87	40	135	
WQ	JAD112	S117155A*11	BD8581EB	EB																					
WQ	JAD112	S117155A*12	BD8582EB	EB																					
WQ	JAD112	S117155A*16	17155A16LB	LB																					
WQ	JAD112	S117155A*17	17155A17BS	BS																					
WQ	JAD115	S117270A*11	17270A11LB	LB																					
WQ	JAD115	S117270A*12	17270A12BS	BS																					
WQ	JAD115	S117270A*15	17270A15LB	LB																					
WQ	JAD115	S117270A*6	BD8642EB	EB																					
WQ	JAD115	S117270A*7	BD8643EB	EB																					
WQ	JAD115	S117361*3	BD8644EB	EB																					
WQ	JAD115	S117361*4	BD8645EB	EB																					
WQ	JAD116	G1K080247006	BD8642EB	EB						78	40	135		79	40	135		94	40	135		98	40	135	
WQ	JAD116	G1K080247007	BD8643EB	EB						76	40	135		80	40	135		95	40	135		98	40	135	
WQ	JAD116	G1K120000157B	G1K120000157B	LB						71	40	135		74	40	135		95	40	135		86	40	135	
WQ	JAD116	G1K120000157C	G1K120000157C	BS						79	40	135		83	40	135		102	40	135		108	40	135	
WQ	JAD118	G1K100152002	BD8644EB	EB						97	40	135		90	40	135		75	40	135		76	40	135	

3 10 0508

Table 6 - Surrogate Spike Control Limits and Recoveries

Matrix	SDG	Lab Sample ID	Sample ID	Sample Type	LR Type	(SW8270C/SW3550/NONE) Terphenyl-d14	(SW8270C/SW3550/NONE) Terphenyl-d14 Lower Limit	(SW8270C/SW3550/NONE) Terphenyl-d14 Upper Limit	(SW8270C/SW3550/NONE) Terphenyl-d14 Qual	(SW8290/METHOD/NONE) 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin-d	(SW8290/METHOD/NONE) 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin-d Lower Limit	(SW8290/METHOD/NONE) 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin-d Upper Limit	(SW8290/METHOD/NONE) 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin-d Qual	(SW8290/METHOD/NONE) 1,2,3,4,6,7,8-Heptachlorodibenzofuran-d13	(SW8290/METHOD/NONE) 1,2,3,4,6,7,8-Heptachlorodibenzofuran-d13 Lower Limit	(SW8290/METHOD/NONE) 1,2,3,4,6,7,8-Heptachlorodibenzofuran-d13 Upper Limit	(SW8290/METHOD/NONE) 1,2,3,4,6,7,8-Heptachlorodibenzofuran-d13 Qual	(SW8290/METHOD/NONE) 1,2,3,4,7,8-Hexachlorodibenzofuran-d13	(SW8290/METHOD/NONE) 1,2,3,4,7,8-Hexachlorodibenzofuran-d13 Lower Limit	(SW8290/METHOD/NONE) 1,2,3,4,7,8-Hexachlorodibenzofuran-d13 Upper Limit	(SW8290/METHOD/NONE) 1,2,3,4,7,8-Hexachlorodibenzofuran-d13 Qual	(SW8290/METHOD/NONE) 1,2,3,6,7,8-Hexachlorodibenzofuran-d13	(SW8290/METHOD/NONE) 1,2,3,6,7,8-Hexachlorodibenzofuran-d13 Lower Limit	(SW8290/METHOD/NONE) 1,2,3,6,7,8-Hexachlorodibenzofuran-d13 Upper Limit	(SW8290/METHOD/NONE) 1,2,3,6,7,8-Hexachlorodibenzofuran-d13 Qual	(SW8290/METHOD/NONE) 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin-d13	(SW8290/METHOD/NONE) 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin-d13 Lower Limit	(SW8290/METHOD/NONE) 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin-d13 Upper Limit	(SW8290/METHOD/NONE) 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin-d13 Qual
WQ	JAD118	G1K100152003	BD8645EB	EB						98	40	135		83	40	135		67	40	135		75	40	135	
WQ	JAD118	G1K130000121B	G1K130000121B	LB						100	40	135		89	40	135		71	40	135		73	40	135	
WQ	JAD118	G1K130000121C	G1K130000121C	BS						95	40	135		89	40	135		81	40	135		85	40	135	
WQ	JAD221	S245448*13	4544813LB	LB																					
WQ	JAD221	S245448*14	4544814BS	BS																					
WQ	JAD221	S245448*9	BD8594EB	EB																					
WQ	JAD221A	G2G310246003	BD8594EB	EB						91	40	135		77	40	135		75	40	135		86	40	135	
WQ	JAD221A	G2H060000304B	G2H060000304B	LB						72	40	135		71	40	135		75	40	135		83	40	135	
WQ	JAD221A	G2H060000304C	G2H060000304C	BS						74	40	135		66	40	135		62	40	135		76	40	135	

3 10 0509

Table 6 - Surrogate Spike Control Limits and Recoveries

Matrix	SDG	Lab Sample ID	Sample ID	Sample Type	LR Type	(SW8290METHODNONE) 1,2,3,7,8-pentachlorodibenzo-p-dioxin-c13				(SW8290METHODNONE) 1,2,3,7,8-pentachlorodibenzofuran-c13				(SW8290METHODNONE) 1,2,3,4,7,8-hexachlorodibenzo-p-dioxin-c13				(SW8290METHODNONE) 1,2,3,4,7,8-hexachlorodibenzofuran-c13				(SW8290METHODNONE) 1,2,3,4,6,7,8-heptachlorodibenzo-p-dioxin-c13				(SW8290METHODNONE) 1,2,3,4,6,7,8-heptachlorodibenzofuran-c13				(SW8290METHODNONE) octachlorodibenzo-p-dioxin-c13			
							Lower Limit	Upper Limit	Qual		Lower Limit	Upper Limit	Qual		Lower Limit	Upper Limit	Qual		Lower Limit	Upper Limit	Qual		Lower Limit	Upper Limit	Qual		Lower Limit	Upper Limit	Qual
SB	JAD100	G1J250309001	BD041X0.5	N		82	40	135		92	40	135		81	40	135		77	40	135		82	40	135					
SB	JAD100	G1J250309002	BD091X0.5	N		85	40	135		95	40	135		81	40	135		76	40	135		106	40	135					
SB	JAD100	G1J250309003	BD091X0.5FD	FD		83	40	135		96	40	135		81	40	135		81	40	135		104	40	135					
SB	JAD100	G1J250309004	BD321X0.5	N		80	40	135		94	40	135		82	40	135		77	40	135		83	40	135					
SB	JAD100	G1J250309005	BD161X0.5	N		80	40	135		95	40	135		83	40	135		77	40	135		93	40	135					
SB	JAD102	S116955A*1	BD041X0.5	N																									
SB	JAD102	S116955A*2	BD091X0.5	N																									
SB	JAD102	S116955A*3	BD091X0.5FD	FD																									
SB	JAD102	S116955A*4	BD321X0.5	N																									
SB	JAD102	S116955A*5	BD161X0.5	N																									
SB	JAD102	S116988A*1	BD081X0.5	N																									
SB	JAD102	S116988A*2	BD121X0.5	N																									
SB	JAD102	S116988A*3	BD211X0.5	N																									
SB	JAD103	G1J260322001	BD081X0.5	N		82	40	135		99	40	135		82	40	135		74	40	135		94	40	135					
SB	JAD103	G1J260322002	BD121X0.5	N		79	40	135		92	40	135		83	40	135		79	40	135		93	40	135					
SB	JAD103	G1J260322003	BD211X0.5	N		65	40	135		64	40	135		68	40	135		62	40	135		68	40	135					
SB	JAD105	S117006A*1	BD099X0.5	N																									
SB	JAD105	S117006A*15	BD070X0.5MS	MS																									
SB	JAD105	S117006A*17	BD070X0.5SD	SD																									
SB	JAD105	S117006A*2	BD070X0.5	N																									
SB	JAD105	S117006A*3	BD148X0.5	N																									
SB	JAD106	S117093*1	BD020X0.5	N																									
SB	JAD106	S117093*2	BD020X0.5FD	FD																									
SB	JAD106	S117093*3	BD200X0.5	N																									
SB	JAD106	S117093*4	BD061X0.5	N																									
SB	JAD107	G1J270195001	BD070X0.5	N		80	40	135		95	40	135		80	40	135		80	40	135		89	40	135					
SB	JAD107	G1J270195001D	BD070X0.5-SD	SD		86	40	135		90	40	135		78	40	135		78	40	135		49	40	135					
SB	JAD107	G1J270195001S	BD070X0.5-MS	MS		84	40	135		98	40	135		86	40	135		79	40	135		95	40	135					
SB	JAD107	G1J270195002	BD148X0.5	N		85	40	135		92	40	135		79	40	135		75	40	135		74	40	135					
SB	JAD107	G1J270195003	BD099X0.5	N		55	40	135		62	40	135		51	40	135		49	40	135		52	40	135					
SB	JAD109	G1K010270001	BD020X0.5	N		70	40	135		68	40	135		80	40	135		67	40	135		77	40	135					
SB	JAD109	G1K010270002	BD020X0.5FD	FD		70	40	135		64	40	135		77	40	135		63	40	135		59	40	135					
SB	JAD109	G1K010270003	BD200X0.5	N		78	40	135		70	40	135		84	40	135		69	40	135		78	40	135					
SB	JAD109	G1K010270004	BD061X0.5	N		79	40	135		71	40	135		85	40	135		71	40	135		73	40	135					
SB	JAD110	G1K030177001	BD111X0.5	N		59	40	135		65	40	135		59	40	135		54	40	135		69	40	135					
SB	JAD112	S117155A*1	BD111X0.5	N																									
SB	JAD115	S117270A*1	BD260X0.5	N																									
SB	JAD115	S117270A*2	BD189X0.5	N																									
SB	JAD115	S117270A*3	BD192X0.5	N																									
SB	JAD115	S117270A*4	BD172X0.5	N																									
SB	JAD115	S117270A*5	BD252X0.5	N																									
SB	JAD115	S117329A*1	BD001X0.5	N																									
SB	JAD115	S117329A*2	BD031X0.5	N																									
SB	JAD115	S117361*1	BD150X0.5	N																									
SB	JAD116	G1K080247001	BD260X0.5	N		74	40	135		74	40	135		85	40	135		81	40	135		102	40	135					
SB	JAD116	G1K080247002	BD189X0.5	N		81	40	135		79	40	135		92	40	135		87	40	135		75	40	135					
SB	JAD116	G1K080247003	BD192X0.5	N		82	40	135		81	40	135		94	40	135		91	40	135		87	40	135					

3 10 0510

Matrix	SDG	Lab Sample ID	Sample ID	Sample Type	LR Type	(SW8290METHODNONE) 1,2,3,7,8-pentachlorodibenzo-p-dioxin-c13				(SW8290METHODNONE) 1,2,3,7,8-pentachlorodibenzofuran-c13				(SW8290METHODNONE) 1,2,3,4,7,8-hexachlorodibenzo-p-dioxin-c13				(SW8290METHODNONE) 1,2,3,4,7,8-hexachlorodibenzofuran-c13				(SW8290METHODNONE) 1,2,3,4,6,7,8-heptachlorodibenzo-p-dioxin-c13				(SW8290METHODNONE) 1,2,3,4,6,7,8-heptachlorodibenzofuran-c13				(SW8290METHODNONE) octachlorodibenzo-p-dioxin-c13			
							Lower Limit	Upper Limit	Qual		Lower Limit	Upper Limit	Qual		Lower Limit	Upper Limit	Qual		Lower Limit	Upper Limit	Qual		Lower Limit	Upper Limit	Qual		Lower Limit	Upper Limit	Qual
SB	JAD116	G1K080247004	BD172X0.5	N		73	40	135		77	40	135		90	40	135		91	40	135		67	40	135	
SB	JAD116	G1K080247005	BD252X0.5	N		78	40	135		76	40	135		88	40	135		84	40	135		76	40	135	
SB	JAD117	G1K090270001	BD001X0.5	N		73	40	135		73	40	135		76	40	135		73	40	135		87	40	135	
SB	JAD117	G1K090270002	BD031X0.5	N		78	40	135		77	40	135		83	40	135		78	40	135		90	40	135	
SB	JAD118	G1K100152001	BD150X0.5	N		76	40	135		74	40	135		79	40	135		71	40	135		87	40	135	
SB	JAD173	S241177*1	BD278X0.5	N																					
SB	JAD173	S241177*2	BD010X0.5	N																					
SB	JAD173A	G2B200252001	BD278X0.5	N		62	40	135		69	40	135		71	40	135		71	40	135		102	40	135	
SB	JAD173A	G2B200252002	BD010X0.5	N		65	40	135		76	40	135		78	40	135		80	40	135		86	40	135	
SB	JAD180	S241811*7	BD707X0.5	N																					
SB	JAD180	S241811*8	BD702X0.5	N																					
SB	JAD180A	G2C140234001	BD707X0.5	N		40	40	135		39	40	135	= *	46	40	135		36	40	135	= *	52	40	135	
SB	JAD180A	G2C140234002	BD702X0.5	N		59	40	135		53	40	135		65	40	135		53	40	135		69	40	135	
SB	JAD181	S241875*2	BD700C2.0	N																					
SB	JAD181A	G2C160174001	BD700C2.0	N		63	40	135		59	40	135		68	40	135		59	40	135		83	40	135	
SB	JAD221	S245448*1	BD412X0.5	N																					
SB	JAD221	S245448*2	BD374X0.5	N																					
SB	JAD221	S245448*2*RE	BD374X0.5RE	LR	RE																				
SB	JAD221	S245448*3	BD390X0.5	N																					
SB	JAD221	S245448*4	BD386X0.5	N																					
SB	JAD221A	G2G310246001	BD390X0.5	N		63	40	135		62	40	135		76	40	135		68	40	135		84	40	135	
SB	JAD221A	G2G310246001	BD390X0.5RE	LR	RE	42	40	135		40	40	135		47	40	135		45	40	135		54	40	135	
SB	JAD221A	G2G310246002	BD386X0.5	N		33	40	135	= *	33	40	135	= *	43	40	135		37	40	135	= *	49	40	135	
SB	JAD221A	G2G310246002	BD386X0.5RE	LR	RE	79	40	135		69	40	135		68	40	135		71	40	135		86	40	135	
SB	JAD221A	G2G310246004	BD412X0.5	N		68	40	135		67	40	135		82	40	135		76	40	135		77	40	135	
SB	JAD221A	G2G310246004	BD412X0.5RE	LR	RE	72	40	135		67	40	135		76	40	135		78	40	135		100	40	135	
SB	JAD221A	G2G310246005	BD372X0.5	N		57	40	135		61	40	135		77	40	135		68	40	135		83	40	135	
SB	JAD221A	G2G310246005	BD372X0.5RE	LR	RE	67	40	135		64	40	135		69	40	135		70	40	135		94	40	135	
SQ	JAD100	G1K010000481B	G1K010000481B	LB		80	40	135		89	40	135		85	40	135		80	40	135		83	40	135	
SQ	JAD100	G1K010000481C	G1K010000481C	BS		84	40	135		93	40	135		82	40	135		80	40	135		86	40	135	
SQ	JAD102	S1JAD102*1	JAD1021LB	LB																					
SQ	JAD102	S1JAD102*2	JAD1022BS	BS																					
SQ	JAD103	G1K010000481B	G1K010000481B	LB		80	40	135		89	40	135		85	40	135		80	40	135		83	40	135	
SQ	JAD103	G1K010000481C	G1K010000481C	BS		84	40	135		93	40	135		82	40	135		80	40	135		86	40	135	
SQ	JAD105	S117006A*8	17006A8LB	LB																					
SQ	JAD105	S117006A*9	17006A9BS	BS																					
SQ	JAD106	S117093*8	170938LB	LB																					
SQ	JAD106	S117093*9	170939BS	BS																					
SQ	JAD107	G1K010000481B	G1K010000481B	LB		80	40	135		89	40	135		85	40	135		80	40	135		83	40	135	
SQ	JAD107	G1K010000481C	G1K010000481C	BS		84	40	135		93	40	135		82	40	135		80	40	135		86	40	135	
SQ	JAD109	G1K030000143B	G1K030000143B	LB		72	40	135		71	40	135		82	40	135		91	40	135		110	40	135	
SQ	JAD109	G1K030000143C	G1K030000143C	BS		71	40	135		69	40	135		84	40	135		92	40	135		107	40	135	
SQ	JAD110	G1K050000482B	G1K0500000482B	LB		75	40	135		74	40	135		85	40	135		88	40	135		110	40	135	
SQ	JAD110	G1K050000482C	G1K050000482C	BS		82	40	135		77	40	135		88	40	135		91	40	135		104	40	135	
SQ	JAD112	S117155A*13	17155A13LB	LB																					
SQ	JAD112	S117155A*14	17155A14BS	BS																					
SQ	JAD115	S117270A*14	17270A14LB	LB																					

3 10 0511

Table 6 - Surrogate Spike Control Limits and Recoveries

Matrix	SDG	Lab Sample ID	Sample ID	Sample Type	LR Type	(SW8290METHODNONE) 1,2,3,7,8-pentachlorodibenzo-p-dioxin-c13	(SW8290METHODNONE) 1,2,3,7,8-pentachlorodibenzo-p-dioxin-c13 Lower Limit	(SW8290METHODNONE) 1,2,3,7,8-pentachlorodibenzo-p-dioxin-c13 Upper Limit	(SW8290METHODNONE) 1,2,3,7,8-pentachlorodibenzo-p-dioxin-c13 Qual	(SW8290METHODNONE) 1,2,3,7,8-pentachlorodibenzofuran-c13	(SW8290METHODNONE) 1,2,3,7,8-pentachlorodibenzofuran-c13 Lower Limit	(SW8290METHODNONE) 1,2,3,7,8-pentachlorodibenzofuran-c13 Upper Limit	(SW8290METHODNONE) 1,2,3,7,8-pentachlorodibenzofuran-c13 Qual	(SW8290METHODNONE) 2,3,7,8-tetrachlorodibenzo-p-dioxin-c13	(SW8290METHODNONE) 2,3,7,8-tetrachlorodibenzo-p-dioxin-c13 Lower Limit	(SW8290METHODNONE) 2,3,7,8-tetrachlorodibenzo-p-dioxin-c13 Upper Limit	(SW8290METHODNONE) 2,3,7,8-tetrachlorodibenzo-p-dioxin-c13 Qual	(SW8290METHODNONE) 2,3,7,8-tetrachlorodibenzofuran-c13	(SW8290METHODNONE) 2,3,7,8-tetrachlorodibenzofuran-c13 Lower Limit	(SW8290METHODNONE) 2,3,7,8-tetrachlorodibenzofuran-c13 Upper Limit	(SW8290METHODNONE) 2,3,7,8-tetrachlorodibenzofuran-c13 Qual	(SW8290METHODNONE) octachlorodibenzo-p-dioxin-c13	(SW8290METHODNONE) octachlorodibenzo-p-dioxin-c13 Lower Limit	(SW8290METHODNONE) octachlorodibenzo-p-dioxin-c13 Upper Limit	(SW8290METHODNONE) octachlorodibenzo-p-dioxin-c13 Qual
SQ	JAD115	S117270A*8	17270A8LB	LB																			
SQ	JAD115	S117270A*9	17270A9BS	BS																			
SQ	JAD116	G1K090000470B	G1K090000470B	LB		72	40	135		76	40	135		90	40	135		87	40	135		76	40	135	
SQ	JAD116	G1K090000470C	G1K090000470C	BS		75	40	135		77	40	135		88	40	135		88	40	135		69	40	135	
SQ	JAD117	G1K120000547B	G1K120000547B	LB		83	40	135		80	40	135		84	40	135		78	40	135		82	40	135	
SQ	JAD117	G1K120000547C	G1K120000547C	BS		76	40	135		76	40	135		84	40	135		77	40	135		84	40	135	
SQ	JAD118	G1K120000547B	G1K120000547B	LB		83	40	135		80	40	135		84	40	135		78	40	135		82	40	135	
SQ	JAD118	G1K120000547C	G1K120000547C	BS		76	40	135		76	40	135		84	40	135		77	40	135		84	40	135	
SQ	JAD173	S241177*3	411773LB	LB																					
SQ	JAD173	S241177*4	411774BS	BS																					
SQ	JAD173A	G2B210000400B	G2B210000400B	LB		59	40	135		70	40	135		66	40	135		65	40	135		87	40	135	
SQ	JAD173A	G2B210000400C	G2B210000400C	BS		65	40	135		75	40	135		71	40	135		71	40	135		94	40	135	
SQ	JAD180	S241811*10	4181110BS	BS																					
SQ	JAD180	S241811*9	418119LB	LB																					
SQ	JAD180A	G2C180000091B	G2C180000091B	LB		59	40	135		58	40	135		62	40	135		49	40	135		65	40	135	
SQ	JAD180A	G2C180000091C	G2C180000091C	BS		62	40	135		55	40	135		59	40	135		51	40	135		64	40	135	
SQ	JAD181	S241875*3	418753LB	LB																					
SQ	JAD181	S241875*4	418754BS	BS																					
SQ	JAD181A	G2C180000478B	G2C180000478B	LB		65	40	135		63	40	135		86	40	135		61	40	135		84	40	135	
SQ	JAD181A	G2C180000478C	G2C180000478C	BS		76	40	135		70	40	135		82	40	135		71	40	135		90	40	135	
SQ	JAD221	S245448*10	4544810LB	LB																					
SQ	JAD221	S245448*11	4544811BS	BS																					
SQ	JAD221	S245448*16	4544816LB	LB																					
SQ	JAD221A	G2H040000096B	G2H040000096B	LB		30	40	135	= *	30	40	135	= *	35	40	135	= *	30	40	135	= *	31	40	135	= *
SQ	JAD221A	G2H040000096C	G2H040000096C	BS		32	40	135	= *	30	40	135	= *	39	40	135	= *	34	40	135	= *	34	40	135	= *
SQ	JAD221A	G2H310000164B	G2H310000164B	LB		83	40	135		73	40	135		73	40	135		76	40	135		86	40	135	
SQ	JAD221A	G2H310000164C	G2H310000164C	BS		83	40	135		75	40	135		58	40	135		61	40	135		70	40	135	
WQ	JAD110	G1K030177002	BD8581EB	EB		90	40	135		88	40	135		84	40	135		77	40	135		108	40	135	
WQ	JAD110	G1K030177003	BD8582EB	EB		82	40	135		85	40	135		80	40	135		73	40	135		91	40	135	
WQ	JAD110	G1K060000127B	G1K060000127B	LB		73	40	135		66	40	135		77	40	135		64	40	135		84	40	135	
WQ	JAD110	G1K060000127C	G1K060000127C	BS		73	40	135		68	40	135		79	40	135		67	40	135		89	40	135	
WQ	JAD112	S117155A*11	BD8581EB	EB																					
WQ	JAD112	S117155A*12	BD8582EB	EB																					
WQ	JAD112	S117155A*16	17155A16LB	LB																					
WQ	JAD112	S117155A*17	17155A17BS	BS																					
WQ	JAD115	S117270A*11	17270A11LB	LB																					
WQ	JAD115	S117270A*12	17270A12BS	BS																					
WQ	JAD115	S117270A*15	17270A15LB	LB																					
WQ	JAD115	S117270A*6	BD8642EB	EB																					
WQ	JAD115	S117270A*7	BD8643EB	EB																					
WQ	JAD115	S117361*3	BD8644EB	EB																					
WQ	JAD115	S117361*4	BD8645EB	EB																					
WQ	JAD116	G1K080247006	BD8642EB	EB		89	40	135		84	40	135		93	40	135		93	40	135		69	40	135	
WQ	JAD116	G1K080247007	BD8643EB	EB		80	40	135		78	40	135		91	40	135		84	40	135		73	40	135	
WQ	JAD116	G1K120000157B	G1K120000157B	LB		77	40	135		75	40	135		81	40	135		78	40	135		70	40	135	
WQ	JAD116	G1K120000157C	G1K120000157C	BS		87	40	135		86	40	135		98	40	135		97	40	135		77	40	135	
WQ	JAD118	G1K100152002	BD8644EB	EB		89	40	135		92	40	135		95	40	135		89	40	135		112	40	135	

3 10 0512

Table 6 - Surrogate Spike Control Limits and Recoveries

Matrix	SDG	Lab Sample ID	Sample ID	Sample Type	LR Type	(SW8290/METHOD/NONE) 1,2,3,7,8-pentachlorodibenzo-p-dioxin-c13	(SW8290/METHOD/NONE) 1,2,3,7,8-pentachlorodibenzo-p-dioxin-c13 Lower Limit	(SW8290/METHOD/NONE) 1,2,3,7,8-pentachlorodibenzo-p-dioxin-c13 Upper Limit	(SW8290/METHOD/NONE) 1,2,3,7,8-pentachlorodibenzo-p-dioxin-c13 Qual	(SW8290/METHOD/NONE) 1,2,3,7,8-pentachlorodibenzofuran-c13	(SW8290/METHOD/NONE) 1,2,3,7,8-pentachlorodibenzofuran-c13 Lower Limit	(SW8290/METHOD/NONE) 1,2,3,7,8-pentachlorodibenzofuran-c13 Upper Limit	(SW8290/METHOD/NONE) 1,2,3,7,8-pentachlorodibenzofuran-c13 Qual	(SW8290/METHOD/NONE) 2,3,7,8-tetrachlorodibenzo-p-dioxin-c13	(SW8290/METHOD/NONE) 2,3,7,8-tetrachlorodibenzo-p-dioxin-c13 Lower Limit	(SW8290/METHOD/NONE) 2,3,7,8-tetrachlorodibenzo-p-dioxin-c13 Upper Limit	(SW8290/METHOD/NONE) 2,3,7,8-tetrachlorodibenzo-p-dioxin-c13 Qual	(SW8290/METHOD/NONE) 2,3,7,8-tetrachlorodibenzofuran-c13	(SW8290/METHOD/NONE) 2,3,7,8-tetrachlorodibenzofuran-c13 Lower Limit	(SW8290/METHOD/NONE) 2,3,7,8-tetrachlorodibenzofuran-c13 Upper Limit	(SW8290/METHOD/NONE) 2,3,7,8-tetrachlorodibenzofuran-c13 Qual	(SW8290/METHOD/NONE) octachlorodibenzo-p-dioxin-c13	(SW8290/METHOD/NONE) octachlorodibenzo-p-dioxin-c13 Lower Limit	(SW8290/METHOD/NONE) octachlorodibenzo-p-dioxin-c13 Upper Limit	(SW8290/METHOD/NONE) octachlorodibenzo-p-dioxin-c13 Qual
WQ	JAD118	G1K100152003	BD8645EB	EB		90	40	135		91	40	135		95	40	135		90	40	135		112	40	135	
WQ	JAD118	G1K130000121B	G1K130000121B	LB		100	40	135		99	40	135		98	40	135		99	40	135		121	40	135	
WQ	JAD118	G1K130000121C	G1K130000121C	BS		95	40	135		94	40	135		95	40	135		96	40	135		106	40	135	
WQ	JAD221	S245448*13	4544813LB	LB																					
WQ	JAD221	S245448*14	4544814BS	BS																					
WQ	JAD221	S245448*9	BD8594EB	EB																					
WQ	JAD221A	G2G310246003	BD8594EB	EB		62	40	135		68	40	135		80	40	135		72	40	135		81	40	135	
WQ	JAD221A	G2H060000304B	G2H060000304B	LB		74	40	135		68	40	135		79	40	135		65	40	135		69	40	135	
WQ	JAD221A	G2H060000304C	G2H060000304C	BS		52	40	135		41	40	135		36	40	135	= *	32	40	135	= *	70	40	135	

3 10 0513

Table 7 - Matrix Spike/Matrix Spike Duplicate control Limits and Recoveries

Matrix	Parameter Class	SDG	Lab Sample ID	Sample ID	Analytical Method	Parameter	Lab Result	Lab Qual	Units	MS Recovery	MSD Recovery	RPD (conc)	Lower Limit Accuracy (Recovery)	Upper Limit Accuracy (Recovery)	Accuracy Qual	RPD Limit	Precision Qual
SB	DIOXIN	JAD107	G1J270195001	BD070X0.5	SW8290	1,2,3,4,6,7,8,9-octachlorodibenzofuran	150	=	ng/kg	92	96	2.35	58	145			
SB	DIOXIN	JAD107	G1J270195001	BD070X0.5	SW8290	1,2,3,4,6,7,8-heptachlorodibenzofuran	110	=	ng/kg	92	88	2.44	64	138			
SB	DIOXIN	JAD107	G1J270195001	BD070X0.5	SW8290	1,2,3,4,7,8,9-heptachlorodibenzofuran	8.9	=	ng/kg	88	83	5.34	58	145			
SB	DIOXIN	JAD107	G1J270195001	BD070X0.5	SW8290	1,2,3,4,7,8-hexachlorodibenzo-p-dioxin	8.5	=	ng/kg	107	113	4.92	52	152			
SB	DIOXIN	JAD107	G1J270195001	BD070X0.5	SW8290	1,2,3,4,7,8-hexachlorodibenzofuran	14	=	ng/kg	118	113	3.75	66	137			
SB	DIOXIN	JAD107	G1J270195001	BD070X0.5	SW8290	1,2,3,6,7,8-hexachlorodibenzo-p-dioxin	25	=	ng/kg	95	96	1.61	62	138			
SB	DIOXIN	JAD107	G1J270195001	BD070X0.5	SW8290	1,2,3,6,7,8-hexachlorodibenzofuran	10	=	ng/kg	101	94	7.21	60	138			
SB	DIOXIN	JAD107	G1J270195001	BD070X0.5	SW8290	1,2,3,7,8,9-hexachlorodibenzo-p-dioxin	19	=	ng/kg	104	96	7.35	58	147			
SB	DIOXIN	JAD107	G1J270195001	BD070X0.5	SW8290	1,2,3,7,8,9-hexachlorodibenzofuran	2.6	U	ng/kg	99	81	21.03	59	146			
SB	DIOXIN	JAD107	G1J270195001	BD070X0.5	SW8290	1,2,3,7,8-pentachlorodibenzo-p-dioxin	4.8	=	ng/kg	102	103	0.90	65	140			
SB	DIOXIN	JAD107	G1J270195001	BD070X0.5	SW8290	1,2,3,7,8-pentachlorodibenzofuran	5.8	=	ng/kg	100	98	1.85	64	140			
SB	DIOXIN	JAD107	G1J270195001	BD070X0.5	SW8290	2,3,4,6,7,8-hexachlorodibenzofuran	13	=	ng/kg	102	90	11.56	65	148			
SB	DIOXIN	JAD107	G1J270195001	BD070X0.5	SW8290	2,3,4,7,8-pentachlorodibenzofuran	6.7	=	ng/kg	90	92	1.98	61	141			
SB	DIOXIN	JAD107	G1J270195001	BD070X0.5	SW8290	2,3,7,8-tetrachlorodibenzo-p-dioxin	1	U	ng/kg	108	108	0.00	60	141			
SB	DIOXIN	JAD107	G1J270195001	BD070X0.5	SW8290	2,3,7,8-tetrachlorodibenzofuran	4.3	=	ng/kg	108	105	2.66	59	140			
SB	METALS	JAD119	S117361A*15	BD012C7	SW6010B	Lead	620	=	mg/Kg	0	0	0.62	80	120	*	35	
SB	METALS	JAD119	S117361A*15	BD012C7	SW7060A	Arsenic	2.6	=	mg/Kg	112	111	0.13	80	120		35	
SB	METALS	JAD111	S117155*10	BD066N0.5	SW6010B	Lead	540	=	mg/Kg	0	0	5.20	80	120	*	35	
SB	METALS	JAD111	S117155*10	BD066N0.5	SW7060A	Arsenic	1.1	U	mg/Kg	119	118	0.52	80	120		35	
SB	METALS	JAD105	S117006A*2	BD070X0.5	SW6010B	Aluminum	1900	=	mg/Kg	444	931	19.14	80	120	*	35	
SB	METALS	JAD105	S117006A*2	BD070X0.5	SW6010B	Antimony	0.37	J	mg/Kg	53	54	2.76	80	120	*	35	
SB	METALS	JAD105	S117006A*2	BD070X0.5	SW6010B	Barium	29	J	mg/Kg	90	107	12.83	80	120		35	
SB	METALS	JAD105	S117006A*2	BD070X0.5	SW6010B	Beryllium	0.12	J	mg/Kg	88	96	7.50	80	120		35	
SB	METALS	JAD105	S117006A*2	BD070X0.5	SW6010B	Cadmium	0.32	J	mg/Kg	89	90	1.50	80	120		35	
SB	METALS	JAD105	S117006A*2	BD070X0.5	SW6010B	Calcium	17000	=	mg/Kg	0	376	40.26	80	120	*	35	*
SB	METALS	JAD105	S117006A*2	BD070X0.5	SW6010B	Chromium, total	4.2	=	mg/Kg	96	97	0.70	80	120		35	
SB	METALS	JAD105	S117006A*2	BD070X0.5	SW6010B	Cobalt	0.38	J	mg/Kg	91	92	2.04	80	120		35	
SB	METALS	JAD105	S117006A*2	BD070X0.5	SW6010B	Copper	27	=	mg/Kg	83	69	5.16	80	120	*	35	
SB	METALS	JAD105	S117006A*2	BD070X0.5	SW6010B	Iron	3200	=	mg/Kg	703	0	19.53	80	120	*	35	
SB	METALS	JAD105	S117006A*2	BD070X0.5	SW6010B	Lead	75	=	mg/Kg	132	62	18.80	80	120	*	35	
SB	METALS	JAD105	S117006A*2	BD070X0.5	SW6010B	Magnesium	230	J	mg/Kg	68	333	92.16	80	120	*	35	*
SB	METALS	JAD105	S117006A*2	BD070X0.5	SW6010B	Manganese	37	=	mg/Kg	76	171	35.88	80	120	*	35	*
SB	METALS	JAD105	S117006A*2	BD070X0.5	SW6010B	Nickel	2.6	J	mg/Kg	91	92	0.75	80	120		35	
SB	METALS	JAD105	S117006A*2	BD070X0.5	SW6010B	Potassium	66	J	mg/Kg	89	128	28.98	80	120	*	35	
SB	METALS	JAD105	S117006A*2	BD070X0.5	SW6010B	Selenium	0.26	J	mg/Kg	85	88	3.40	80	120		35	
SB	METALS	JAD105	S117006A*2	BD070X0.5	SW6010B	Silver	0.1	U	mg/Kg	101	101	0.00	80	120		35	
SB	METALS	JAD105	S117006A*2	BD070X0.5	SW6010B	Sodium	38	J	mg/Kg	88	100	11.19	80	120		35	
SB	METALS	JAD105	S117006A*2	BD070X0.5	SW6010B	Thallium	0.53	U	mg/Kg	92	93	1.03	80	120		35	
SB	METALS	JAD105	S117006A*2	BD070X0.5	SW6010B	Vanadium	6.7	J	mg/Kg	82	85	2.80	80	120		35	
SB	METALS	JAD105	S117006A*2	BD070X0.5	SW6010B	Zinc	87	=	mg/Kg	75	58	4.78	80	120	*	35	
SB	METALS	JAD105	S117006C*2	BD070X0.5	SW7060A	Arsenic	1.5	=	mg/Kg	75	74	0.92	80	120	*	35	
SB	METALS	JAD105	S117006A*2	BD070X0.5	SW7471A	Mercury	0.043	J	mg/Kg	98	112	7.42	80	120		35	
SB	METALS	JAD111	S117155*14	BD111S2.0	SW6010B	Arsenic	16	=	mg/Kg	91	85	3.64	80	120		35	
SB	METALS	JAD111	S117155*14	BD111S2.0	SW6010B	Lead	1600	=	mg/Kg	0	0	8.31	80	120	*	35	
SB	METALS	JAD163	S240722*2	BD162W1.0	SW6010B	Lead	620	=	mg/Kg	0	0	6.03	75	125	*	35	
SB	METALS	JAD163	S240722*2	BD162W1.0	SW7060A	Arsenic	3.5	=	mg/Kg	108	83	15.16	75	125		35	
SB	METALS	JAD111	S117155*5	BD163C0.5	SW6010B	Arsenic	22	=	mg/Kg	91	85	0.51	80	120		35	
SB	METALS	JAD111	S117155*5	BD163C0.5	SW6010B	Lead	270	=	mg/Kg	0	0	26.62	80	120	*	35	
SB	METALS	JAD159	S240153A*8	BD288X0.5	SW6010B	Aluminum	1100	=	mg/Kg	830	783	2.47	75	125	*	35	
SB	METALS	JAD159	S240153A*8	BD288X0.5	SW6010B	Antimony	0.27	U	mg/Kg	69	70	1.57	75	125	*	35	
SB	METALS	JAD159	S240153A*8	BD288X0.5	SW6010B	Arsenic	1.1	U	mg/Kg	94	94	0.97	75	125		35	
SB	METALS	JAD159	S240153A*8	BD288X0.5	SW6010B	Barium	10	J	mg/Kg	111	109	1.52	75	125		35	
SB	METALS	JAD159	S240153A*8	BD288X0.5	SW6010B	Beryllium	0.081	J	mg/Kg	101	100	1.05	75	125		35	
SB	METALS	JAD159	S240153A*8	BD288X0.5	SW6010B	Cadmium	0.083	J	mg/Kg	96	96	0.37	75	125		35	

3 10 0514

Table 7 - Matrix Spike/Matrix Spike Duplicate control Limits and Recoveries

Matrix	Parameter Class	SDG	Lab Sample ID	Sample ID	Analytical Method	Parameter	Lab Result	Lab Qual	Units	MS Recovery	MSD Recovery	RPD (conc)	Lower Limit Accuracy (Recovery)	Upper Limit Accuracy (Recovery)	Accuracy Qual	RPD Limit	Precision Qual
SB	METALS	JAD159	S240153A*8	BD288X0.5	SW6010B	Calcium	29000	=	mg/Kg	0	0	7.19	75	125	*	35	
SB	METALS	JAD159	S240153A*8	BD288X0.5	SW6010B	Chromium, total	4.5	=	mg/Kg	106	102	1.88	75	125		35	
SB	METALS	JAD159	S240153A*8	BD288X0.5	SW6010B	Cobalt	0.22	J	mg/Kg	101	100	1.08	75	125		35	
SB	METALS	JAD159	S240153A*8	BD288X0.5	SW6010B	Copper	4.9	J	mg/Kg	111	107	2.51	75	125		35	
SB	METALS	JAD159	S240153A*8	BD288X0.5	SW6010B	Iron	1200	=	mg/Kg	455	109	13.82	75	125	*	35	
SB	METALS	JAD159	S240153A*8	BD288X0.5	SW6010B	Lead	20	=	mg/Kg	99	96	1.91	75	125		35	
SB	METALS	JAD159	S240153A*8	BD288X0.5	SW6010B	Magnesium	230	J	mg/Kg	111	106	2.87	75	125		35	
SB	METALS	JAD159	S240153A*8	BD288X0.5	SW6010B	Manganese	23	=	mg/Kg	109	93	8.83	75	125		35	
SB	METALS	JAD159	S240153A*8	BD288X0.5	SW6010B	Nickel	1.3	J	mg/Kg	100	98	1.40	75	125		35	
SB	METALS	JAD159	S240153A*8	BD288X0.5	SW6010B	Potassium	41	J	mg/Kg	114	113	1.14	75	125		35	
SB	METALS	JAD159	S240153A*8	BD288X0.5	SW6010B	Selenium	0.24	U	mg/Kg	94	93	0.98	75	125		35	
SB	METALS	JAD159	S240153A*8	BD288X0.5	SW6010B	Silver	0.1	U	mg/Kg	107	107	0.00	75	125		35	
SB	METALS	JAD159	S240153A*8	BD288X0.5	SW6010B	Sodium	45	J	mg/Kg	108	123	11.05	75	125		35	
SB	METALS	JAD159	S240153A*8	BD288X0.5	SW6010B	Thallium	0.55	U	mg/Kg	98	97	0.93	75	125		35	
SB	METALS	JAD159	S240153A*8	BD288X0.5	SW6010B	Vanadium	3.7	J	mg/Kg	102	101	1.27	75	125		35	
SB	METALS	JAD159	S240153A*8	BD288X0.5	SW6010B	Zinc	24	=	mg/Kg	95	99	2.58	75	125		35	
SB	METALS	JAD159	S240153A*8	BD288X0.5	SW7471A	Mercury	0.11	=	mg/Kg	68	94	8.64	75	125	*	35	
SB	METALS	JAD157	S240100*5	BD291S1.0	SW6010B	Lead	440	=	mg/Kg	286	108	17.38	75	125	*	35	
SB	METALS	JAD157	S240100*5	BD291S1.0	SW7060A	Arsenic	2	=	mg/Kg	94	86	6.52	75	125		35	
SS	METALS	JAD152	S118455*9	BD302W0.0	SW6010B	Lead	290	=	mg/Kg	180	107	12.55	75	125	*	35	
SS	METALS	JAD152	S118455*9	BD302W0.0	SW7060A	Arsenic	2.1	=	mg/Kg	89	83	5.15	75	125		35	
SB	METALS	JAD224	S245653A*4	BD411X0.5	SW6010B	Arsenic	1.7	U	mg/Kg	96	97	0.90	75	125		35	
SB	METALS	JAD224	S245653A*4	BD411X0.5	SW6010B	Lead	40	=	mg/Kg	162	113	26.58	75	125	*	35	
SB	PAH	JAD105	S117006A*2	BD070X0.5	SW8270C	1-methylnaphthalene	350	U	ug/Kg	80	77	3.64	10	150		50	
SB	PAH	JAD105	S117006A*2	BD070X0.5	SW8270C	2-Methylnaphthalene	350	U	ug/Kg	80	80	0.00	30	133		63	
SB	PAH	JAD105	S117006A*2	BD070X0.5	SW8270C	Acenaphthene	350	U	ug/Kg	88	94	6.25	18	123		49	
SB	PAH	JAD105	S117006A*2	BD070X0.5	SW8270C	Acenaphthylene	350	U	ug/Kg	91	97	6.06	42	119		48	
SB	PAH	JAD105	S117006A*2	BD070X0.5	SW8270C	Anthracene	47	J	ug/Kg	90	99	8.96	40	148		27	
SB	PAH	JAD105	S117006A*2	BD070X0.5	SW8270C	Benzo(a)anthracene	110	J	ug/Kg	97	100	2.82	54	137		43	
SB	PAH	JAD105	S117006A*2	BD070X0.5	SW8270C	Benzo(a)pyrene	82	J	ug/Kg	83	92	9.52	41	142		55	
SB	PAH	JAD105	S117006A*2	BD070X0.5	SW8270C	Benzo(b)fluoranthene	71	J	ug/Kg	89	98	8.96	43	134		51	
SB	PAH	JAD105	S117006A*2	BD070X0.5	SW8270C	Benzo(g,h,i)perylene	52	J	ug/Kg	78	81	3.51	10	148		50	
SB	PAH	JAD105	S117006A*2	BD070X0.5	SW8270C	Benzo(k)fluoranthene	86	J	ug/Kg	83	92	9.52	25	182		48	
SB	PAH	JAD105	S117006A*2	BD070X0.5	SW8270C	Carbazole	28	J	ug/Kg	93	99	5.88	10	158		50	
SB	PAH	JAD105	S117006A*2	BD070X0.5	SW8270C	Chrysene	120	J	ug/Kg	94	99	5.71	56	133		41	
SB	PAH	JAD105	S117006A*2	BD070X0.5	SW8270C	Dibenz(a,h)anthracene	350	U	ug/Kg	77	80	3.64	31	129		24	
SB	PAH	JAD105	S117006A*2	BD070X0.5	SW8270C	Dibenzofuran	350	U	ug/Kg	88	91	3.17	36	132		42	
SB	PAH	JAD105	S117006A*2	BD070X0.5	SW8270C	Fluoranthene	260	J	ug/Kg	95	101	5.41	39	157		50	
SB	PAH	JAD105	S117006A*2	BD070X0.5	SW8270C	Fluorene	350	U	ug/Kg	91	91	0.00	27	151		50	
SB	PAH	JAD105	S117006A*2	BD070X0.5	SW8270C	Indeno(1,2,3-c,d)pyrene	350	U	ug/Kg	86	80	6.90	24	136		28	
SB	PAH	JAD105	S117006A*2	BD070X0.5	SW8270C	Naphthalene	350	U	ug/Kg	71	77	7.69	25	131		34	
SB	PAH	JAD105	S117006A*2	BD070X0.5	SW8270C	Phenanthrene	200	J	ug/Kg	86	94	8.96	39	152		30	
SB	PAH	JAD105	S117006A*2	BD070X0.5	SW8270C	Pyrene	230	J	ug/Kg	93	96	2.82	10	133		42	

3 10 0515

Table 8 - Results Qualified Due to Matrix Spike/Matrix Spike Duplicate Recoveries

Matrix	SDG	Lab Sample ID	Sample ID	Sample Type	LR Type	Parameter Class	Analytical Method	Parameter	Lab Result	Lab Qual	Final Result	Final Qual	Detection Limit	Reporting Limit	Units	Validation Notes
SB	JAD173	S241177*2	BD010X0.5	N		METALS	SW6010B	Antimony	0.66	BN	0.66	UJ	0.31	15	mg/Kg	BL,MS
SB	JAD173	S241177*1	BD278X0.5	N		METALS	SW6010B	Antimony	0.4	BN	0.4	UJ	0.26	13	mg/Kg	BL,MS
SB	JAD115	S117329A*1	BD001X0.5	N		METALS	SW6010B	Lead	81	N*	81	J	0.2	0.57	mg/Kg	MD,MS
SB	JAD115	S117329A*3	bd005x0.5	N		METALS	SW6010B	Lead	1400	N*	1400	J	0.25	0.72	mg/Kg	MD,MS
SB	JAD115	S117329A*4	BD015X0.5	N		METALS	SW6010B	Lead	54	N*	54	J	0.21	0.61	mg/Kg	MD,MS
SB	JAD115	S117329A*2	BD031X0.5	N		METALS	SW6010B	Lead	85	N*	85	J	0.21	0.61	mg/Kg	MD,MS
SB	JAD115	S117361*2	BD033X0.5	N		METALS	SW6010B	Lead	33	N*	33	J	0.22	0.64	mg/Kg	MD,MS
SB	JAD112	S117155A*2	BD066X0.5	N		METALS	SW6010B	Manganese	30	=	30	J	0.11	3.2	mg/Kg	MD,MS
SB	JAD112	S117155A*3	BD066X0.5FD	FD		METALS	SW6010B	Manganese	34	=	34	J	0.11	3	mg/Kg	MD,MS
SB	JAD105	S117006A*2	BD070X0.5	N		METALS	SW6010B	Manganese	37	N*	37	J	0.11	3.2	mg/Kg	MD,MS
SB	JAD112	S117155A*10	BD071X0.5	N		METALS	SW6010B	Manganese	39	=	39	J	0.11	3	mg/Kg	MD,MS
SB	JAD112	S117155A*4	BD086X0.5	N		METALS	SW6010B	Manganese	16	=	16	J	0.11	3.1	mg/Kg	MD,MS
SB	JAD112	S117155A*5	BD096X0.5	N		METALS	SW6010B	Magnesium	3700	=	3700	J	3.5	1000	mg/Kg	MD,MS
SB	JAD112	S117155A*5	BD096X0.5	N		METALS	SW6010B	Manganese	71	=	71	J	0.11	3.1	mg/Kg	MD,MS
SB	JAD105	S117006A*1	BD099X0.5	N		METALS	SW6010B	Manganese	13	N*	13	J	0.11	3.1	mg/Kg	MD,MS
SB	JAD105	S117006A*4	BD105X0.5	N		METALS	SW6010B	Manganese	16	N*	16	J	0.12	3.5	mg/Kg	MD,MS
SB	JAD112	S117155A*1	BD111X0.5	N		METALS	SW6010B	Manganese	68	=	68	J	0.1	3	mg/Kg	MD,MS
SB	JAD105	S117006A*5	BD145X0.5	N		METALS	SW6010B	Manganese	21	N*	21	J	0.11	3.2	mg/Kg	MD,MS
SB	JAD105	S117006A*3	BD148X0.5	N		METALS	SW6010B	Manganese	49	N*	49	J	0.12	3.3	mg/Kg	MD,MS
SB	JAD115	S117361*1	BD150X0.5	N		METALS	SW6010B	Lead	110	N*	110	J	0.21	0.59	mg/Kg	MD,MS
SB	JAD112	S117155A*7	BD156X0.5	N		METALS	SW6010B	Manganese	68	=	68	J	0.11	3.1	mg/Kg	MD,MS
SB	JAD112	S117155A*8	BD166X0.5	N		METALS	SW6010B	Manganese	100	=	100	J	0.1	2.9	mg/Kg	MD,MS
SB	JAD115	S117270A*4	BD172X0.5	N		METALS	SW6010B	Antimony	0.25	UN*	0.25	UJ	0.25	12	mg/Kg	MD,MS
SB	JAD115	S117270A*4	BD172X0.5	N		METALS	SW6010B	Lead	29	N*	29	J	0.21	0.61	mg/Kg	MD,MS
SB	JAD115	S117270A*2	BD189X0.5	N		METALS	SW6010B	Antimony	0.27	UN*	0.27	UJ	0.27	13	mg/Kg	MD,MS
SB	JAD115	S117270A*2	BD189X0.5	N		METALS	SW6010B	Lead	40	N*	40	J	0.23	0.66	mg/Kg	MD,MS
SB	JAD115	S117270A*3	BD192X0.5	N		METALS	SW6010B	Lead	66	N*	66	J	0.23	0.65	mg/Kg	MD,MS
SB	JAD112	S117155A*9	BD196X0.5	N		METALS	SW6010B	Manganese	44	=	44	J	0.11	3.1	mg/Kg	MD,MS
SB	JAD112	S117155A*6	BD206X0.5	N		METALS	SW6010B	Manganese	40	=	40	J	0.11	3.2	mg/Kg	MD,MS
SB	JAD105	S117006A*6	BD227X0.5	N		METALS	SW6010B	Manganese	770	N*	770	J	0.12	3.4	mg/Kg	MD,MS
SB	JAD105	S117006A*7	BD227X0.5FD	FD		METALS	SW6010B	Manganese	270	N*	270	J	0.12	3.4	mg/Kg	MD,MS
SB	JAD115	S117270A*5	BD252X0.5	N		METALS	SW6010B	Lead	270	N*	270	J	0.22	0.63	mg/Kg	MD,MS
SB	JAD115	S117270A*1	BD260X0.5	N		METALS	SW6010B	Lead	36	N*	36	J	0.22	0.63	mg/Kg	MD,MS
SB	JAD115	S117329A*1	BD001X0.5	N		METALS	SW6010B	Chromium, total	3.1	N*	3.1	J	0.081	1.9	mg/Kg	MS
SB	JAD115	S117329A*1	BD001X0.5	N		METALS	SW6010B	Copper	6.5	N*	6.5	J	0.34	4.8	mg/Kg	MS
SB	JAD115	S117329A*1	BD001X0.5	N		METALS	SW6010B	Manganese	36	N*	36	J	0.1	2.9	mg/Kg	MS
SB	JAD115	S117329A*3	bd005x0.5	N		METALS	SW6010B	Chromium, total	56	N*	56	J	0.1	2.4	mg/Kg	MS
SB	JAD115	S117329A*3	bd005x0.5	N		METALS	SW6010B	Copper	3500	N*	3500	J	0.43	6	mg/Kg	MS
SB	JAD115	S117329A*3	bd005x0.5	N		METALS	SW6010B	Manganese	550	N*	550	J	0.13	3.6	mg/Kg	MS
SB	JAD173	S241177*2	BD010X0.5	N		METALS	SW6010B	Magnesium	3500	N	3500	J	4.2	1200	mg/Kg	MS
SB	JAD173	S241177*2	BD010X0.5	N		METALS	SW6010B	Zinc	130	N	130	J	0.6	4.9	mg/Kg	MS
SB	JAD115	S117329A*4	BD015X0.5	N		METALS	SW6010B	Chromium, total	7.3	N*	7.3	J	0.086	2	mg/Kg	MS
SB	JAD115	S117329A*4	BD015X0.5	N		METALS	SW6010B	Copper	12	N*	12	J	0.36	5.1	mg/Kg	MS
SB	JAD115	S117329A*4	BD015X0.5	N		METALS	SW6010B	Manganese	27	N*	27	J	0.11	3	mg/Kg	MS
SB	JAD106	S117093*1	BD020X0.5	N		METALS	SW6010B	Antimony	0.26	UN	0.26	UJ	0.26	12	mg/Kg	MS
SB	JAD106	S117093*1	BD020X0.5	N		METALS	SW6010B	Lead	43	N	43	J	0.22	0.62	mg/Kg	MS

3 10 0516

Table 8 - Results Qualified Due to Matrix Spike/Matrix Spike Duplicate Recoveries

Matrix	SDG	Lab Sample ID	Sample ID	Sample Type	LR Type	Parameter Class	Analytical Method	Parameter	Lab Result	Lab Qual	Final Result	Final Qual	Detection Limit	Reporting Limit	Units	Validation Notes
SB	JAD106	S117093*2	BD020X0.5FD	FD		METALS	SW6010B	Antimony	0.25	UN	0.25	UJ	0.25	12	mg/Kg	MS
SB	JAD106	S117093*2	BD020X0.5FD	FD		METALS	SW6010B	Lead	40	N	40	J	0.21	0.6	mg/Kg	MS
SB	JAD115	S117329A*2	BD031X0.5	N		METALS	SW6010B	Chromium, total	3.7	N*	3.7	J	0.086	2	mg/Kg	MS
SB	JAD115	S117329A*2	BD031X0.5	N		METALS	SW6010B	Copper	8.1	N*	8.1	J	0.36	5.1	mg/Kg	MS
SB	JAD115	S117329A*2	BD031X0.5	N		METALS	SW6010B	Manganese	50	N*	50	J	0.11	3	mg/Kg	MS
SB	JAD115	S117361*2	BD033X0.5	N		METALS	SW6010B	Chromium, total	4.4	N*	4.4	J	0.09	2.1	mg/Kg	MS
SB	JAD115	S117361*2	BD033X0.5	N		METALS	SW6010B	Copper	8.9	N*	8.9	J	0.38	5.3	mg/Kg	MS
SB	JAD115	S117361*2	BD033X0.5	N		METALS	SW6010B	Manganese	19	N*	19	J	0.11	3.2	mg/Kg	MS
SB	JAD102	S116955A*1	BD041X0.5	N		METALS	SW6010B	Copper	41	N	41	J	0.36	5	mg/Kg	MS
SB	JAD102	S116955A*1	BD041X0.5	N		METALS	SW6010B	Lead	96	N	96	J	0.21	0.6	mg/Kg	MS
SB	JAD102	S116955A*1	BD041X0.5	N		METALS	SW6010B	Manganese	57	N	57	J	0.1	3	mg/Kg	MS
SB	JAD106	S117093*5	BD051X0.5	N		METALS	SW6010B	Lead	44	N	44	J	0.21	0.59	mg/Kg	MS
SB	JAD106	S117093*4	BD061X0.5	N		METALS	SW6010B	Lead	180	N	180	J	0.21	0.6	mg/Kg	MS
SB	JAD112	S117155A*2	BD066X0.5	N		METALS	SW6010B	Copper	20	=	20	J	0.38	5.3	mg/Kg	MS
SB	JAD112	S117155A*2	BD066X0.5	N		METALS	SW6010B	Lead	60	=	60	J	0.22	0.63	mg/Kg	MS
SB	JAD112	S117155A*2	BD066X0.5	N		METALS	SW6010B	Zinc	60	=	60	J	0.52	4.2	mg/Kg	MS
SB	JAD112	S117155A*3	BD066X0.5FD	FD		METALS	SW6010B	Antimony	0.25	U	0.25	UJ	0.25	12	mg/Kg	MS
SB	JAD112	S117155A*3	BD066X0.5FD	FD		METALS	SW6010B	Copper	9.7	=	9.7	J	0.36	5.1	mg/Kg	MS
SB	JAD112	S117155A*3	BD066X0.5FD	FD		METALS	SW6010B	Lead	58	=	58	J	0.21	0.61	mg/Kg	MS
SB	JAD112	S117155A*3	BD066X0.5FD	FD		METALS	SW6010B	Zinc	55	=	55	J	0.5	4	mg/Kg	MS
SB	JAD105	S117006A*2	BD070X0.5	N		METALS	SW6010B	Copper	27	N	27	J	0.38	5.3	mg/Kg	MS
SB	JAD105	S117006A*2	BD070X0.5	N		METALS	SW6010B	Lead	75	N	75	J	0.22	0.63	mg/Kg	MS
SB	JAD105	S117006A*2	BD070X0.5	N		METALS	SW6010B	Zinc	87	N	87	J	0.52	4.2	mg/Kg	MS
SB	JAD112	S117155A*10	BD071X0.5	N		METALS	SW6010B	Copper	21	=	21	J	0.36	5.1	mg/Kg	MS
SB	JAD112	S117155A*10	BD071X0.5	N		METALS	SW6010B	Lead	100	=	100	J	0.21	0.61	mg/Kg	MS
SB	JAD112	S117155A*10	BD071X0.5	N		METALS	SW6010B	Zinc	86	=	86	J	0.5	4	mg/Kg	MS
SB	JAD102	S116955A*6	BD076X0.5	N		METALS	SW6010B	Copper	6.7	N	6.7	J	0.38	5.2	mg/Kg	MS
SB	JAD102	S116955A*6	BD076X0.5	N		METALS	SW6010B	Lead	79	N	79	J	0.22	0.62	mg/Kg	MS
SB	JAD102	S116955A*6	BD076X0.5	N		METALS	SW6010B	Manganese	30	N	30	J	0.11	3.1	mg/Kg	MS
SB	JAD102	S116988A*1	BD081X0.5	N		METALS	SW6010B	Antimony	0.26	UN	0.26	UJ	0.26	13	mg/Kg	MS
SB	JAD102	S116988A*1	BD081X0.5	N		METALS	SW6010B	Lead	18	N	18	J	0.22	0.63	mg/Kg	MS
SB	JAD102	S116988A*1	BD081X0.5	N		METALS	SW6010B	Manganese	12	N	12	J	0.11	3.2	mg/Kg	MS
SB	JAD112	S117155A*4	BD086X0.5	N		METALS	SW6010B	Antimony	0.26	U	0.26	UJ	0.26	13	mg/Kg	MS
SB	JAD112	S117155A*4	BD086X0.5	N		METALS	SW6010B	Copper	7.8	=	7.8	J	0.38	5.2	mg/Kg	MS
SB	JAD112	S117155A*4	BD086X0.5	N		METALS	SW6010B	Lead	52	=	52	J	0.22	0.63	mg/Kg	MS
SB	JAD112	S117155A*4	BD086X0 5	N		METALS	SW6010B	Zinc	51	=	51	J	0.51	4.2	mg/Kg	MS
SB	JAD102	S116955A*2	BD091X0.5	N		METALS	SW6010B	Copper	27	N	27	J	0.38	5.3	mg/Kg	MS
SB	JAD102	S116955A*2	BD091X0.5	N		METALS	SW6010B	Lead	95	N	95	J	0.22	0.63	mg/Kg	MS
SB	JAD102	S116955A*2	BD091X0.5	N		METALS	SW6010B	Manganese	32	N	32	J	0.11	3.2	mg/Kg	MS
SB	JAD102	S116955A*3	BD091X0.5FD	FD		METALS	SW6010B	Copper	36	N	36	J	0.38	5.2	mg/Kg	MS
SB	JAD102	S116955A*3	BD091X0.5FD	FD		METALS	SW6010B	Lead	92	N	92	J	0.22	0.63	mg/Kg	MS
SB	JAD102	S116955A*3	BD091X0.5FD	FD		METALS	SW6010B	Manganese	83	N	83	J	0.11	3.1	mg/Kg	MS
SB	JAD112	S117155A*5	BD096X0.5	N		METALS	SW6010B	Copper	18	=	18	J	0.38	5.2	mg/Kg	MS
SB	JAD112	S117155A*5	BD096X0.5	N		METALS	SW6010B	Lead	60	=	60	J	0.22	0.63	mg/Kg	MS
SB	JAD112	S117155A*5	BD096X0.5	N		METALS	SW6010B	Zinc	180	=	180	J	0.51	4.2	mg/Kg	MS
SB	JAD105	S117006A*1	BD099X0.5	N		METALS	SW6010B	Antimony	0.26	UN	0.26	UJ	0.26	12	mg/Kg	MS

3 10 0517

Table 8 - Results Qualified Due to Matrix Spike/Matrix Spike Duplicate Recoveries

Matrix	SDG	Lab Sample ID	Sample ID	Sample Type	LR Type	Parameter Class	Analytical Method	Parameter	Lab Result	Lab Qual	Final Result	Final Qual	Detection Limit	Reporting Limit	Units	Validation Notes
SB	JAD105	S117006A*1	BD099X0.5	N		METALS	SW6010B	Lead	13	N	13	J	0.21	0.61	mg/Kg	MS
SB	JAD105	S117006A*1	BD099X0.5	N		METALS	SW6010B	Zinc	17	N	17	J	0.5	4.1	mg/Kg	MS
SB	JAD105	S117006A*4	BD105X0.5	N		METALS	SW6010B	Antimony	0.29	UN	0.29	UJ	0.29	14	mg/Kg	MS
SB	JAD105	S117006A*4	BD105X0.5	N		METALS	SW6010B	Lead	32	N	32	J	0.24	0.69	mg/Kg	MS
SB	JAD105	S117006A*4	BD105X0.5	N		METALS	SW6010B	Zinc	52	N	52	J	0.57	4.6	mg/Kg	MS
SB	JAD112	S117155A*1	BD111X0.5	N		METALS	SW6010B	Copper	29	=	29	J	0.36	5	mg/Kg	MS
SB	JAD112	S117155A*1	BD111X0.5	N		METALS	SW6010B	Lead	99	=	99	J	0.21	0.6	mg/Kg	MS
SB	JAD112	S117155A*1	BD111X0.5	N		METALS	SW6010B	Zinc	140	=	140	J	0.49	4	mg/Kg	MS
SB	JAD102	S116988A*4	BD116X0.5	N		METALS	SW6010B	Copper	91	N	91	J	0.41	5.7	mg/Kg	MS
SB	JAD102	S116988A*4	BD116X0.5	N		METALS	SW6010B	Lead	570	N	570	J	0.24	0.68	mg/Kg	MS
SB	JAD102	S116988A*4	BD116X0.5	N		METALS	SW6010B	Manganese	200	N	200	J	0.12	3.4	mg/Kg	MS
SB	JAD102	S116988A*2	BD121X0.5	N		METALS	SW6010B	Copper	51	N	51	J	0.37	5.2	mg/Kg	MS
SB	JAD102	S116988A*2	BD121X0.5	N		METALS	SW6010B	Lead	180	N	180	J	0.22	0.62	mg/Kg	MS
SB	JAD102	S116988A*2	BD121X0.5	N		METALS	SW6010B	Manganese	100	N	100	J	0.11	3.1	mg/Kg	MS
SB	JAD102	S116988A*5	BD126X0.5	N		METALS	SW6010B	Antimony	0.27	UN	0.27	UJ	0.27	13	mg/Kg	MS
SB	JAD102	S116988A*5	BD126X0.5	N		METALS	SW6010B	Copper	13	N	13	J	0.38	5.3	mg/Kg	MS
SB	JAD102	S116988A*5	BD126X0.5	N		METALS	SW6010B	Lead	61	N	61	J	0.22	0.64	mg/Kg	MS
SB	JAD102	S116988A*5	BD126X0.5	N		METALS	SW6010B	Manganese	140	N	140	J	0.11	3.2	mg/Kg	MS
SB	JAD105	S117006A*5	BD145X0.5	N		METALS	SW6010B	Antimony	0.26	UN	0.26	UJ	0.26	13	mg/Kg	MS
SB	JAD105	S117006A*5	BD145X0.5	N		METALS	SW6010B	Copper	8.2	N	8.2	J	0.38	5.3	mg/Kg	MS
SB	JAD105	S117006A*5	BD145X0.5	N		METALS	SW6010B	Lead	49	N	49	J	0.22	0.63	mg/Kg	MS
SB	JAD105	S117006A*5	BD145X0.5	N		METALS	SW6010B	Zinc	76	N	76	J	0.52	4.2	mg/Kg	MS
SB	JAD105	S117006A*3	BD148X0.5	N		METALS	SW6010B	Copper	150	N	150	J	0.4	5.5	mg/Kg	MS
SB	JAD105	S117006A*3	BD148X0.5	N		METALS	SW6010B	Lead	300	N	300	J	0.23	0.66	mg/Kg	MS
SB	JAD105	S117006A*3	BD148X0.5	N		METALS	SW6010B	Zinc	230	N	230	J	0.54	4.4	mg/Kg	MS
SB	JAD115	S117361*1	BD150X0.5	N		METALS	SW6010B	Chromium, total	5.2	N*	5.2	J	0.083	2	mg/Kg	MS
SB	JAD115	S117361*1	BD150X0.5	N		METALS	SW6010B	Copper	49	N*	49	J	0.35	4.9	mg/Kg	MS
SB	JAD115	S117361*1	BD150X0.5	N		METALS	SW6010B	Manganese	34	N*	34	J	0.1	2.9	mg/Kg	MS
SB	JAD112	S117155A*7	BD156X0.5	N		METALS	SW6010B	Copper	16	=	16	J	0.38	5.2	mg/Kg	MS
SB	JAD112	S117155A*7	BD156X0.5	N		METALS	SW6010B	Lead	67	=	67	J	0.22	0.63	mg/Kg	MS
SB	JAD112	S117155A*7	BD156X0.5	N		METALS	SW6010B	Zinc	96	=	96	J	0.51	4.2	mg/Kg	MS
SB	JAD102	S116955A*5	BD161X0.5	N		METALS	SW6010B	Copper	41	N	41	J	0.37	5.1	mg/Kg	MS
SB	JAD102	S116955A*5	BD161X0.5	N		METALS	SW6010B	Lead	130	N	130	J	0.21	0.61	mg/Kg	MS
SB	JAD102	S116955A*5	BD161X0.5	N		METALS	SW6010B	Manganese	82	N	82	J	0.11	3.1	mg/Kg	MS
SB	JAD112	S117155A*8	BD166X0.5	N		METALS	SW6010B	Copper	24	=	24	J	0.34	4.8	mg/Kg	MS
SB	JAD112	S117155A*8	BD166X0.5	N		METALS	SW6010B	Lead	71	=	71	J	0.2	0.57	mg/Kg	MS
SB	JAD112	S117155A*8	BD166X0.5	N		METALS	SW6010B	Zinc	100	=	100	J	0.47	3.8	mg/Kg	MS
SB	JAD115	S117270A*4	BD172X0.5	N		METALS	SW6010B	Chromium, total	3.7	N*	3.7	J	0.086	2	mg/Kg	MS
SB	JAD115	S117270A*4	BD172X0.5	N		METALS	SW6010B	Manganese	26	N*	26	J	0.11	3	mg/Kg	MS
SB	JAD102	S116988A*6	BD176X0.5	N		METALS	SW6010B	Antimony	0.27	UN	0.27	UJ	0.27	13	mg/Kg	MS
SB	JAD102	S116988A*6	BD176X0.5	N		METALS	SW6010B	Copper	16	N	16	J	0.39	5.4	mg/Kg	MS
SB	JAD102	S116988A*6	BD176X0.5	N		METALS	SW6010B	Lead	38	N	38	J	0.23	0.65	mg/Kg	MS
SB	JAD102	S116988A*6	BD176X0.5	N		METALS	SW6010B	Manganese	42	N	42	J	0.11	3.2	mg/Kg	MS
SB	JAD115	S117270A*2	BD189X0.5	N		METALS	SW6010B	Chromium, total	8.2	N*	8.2	J	0.094	2.2	mg/Kg	MS
SB	JAD115	S117270A*2	BD189X0.5	N		METALS	SW6010B	Copper	11	N*	11	J	0.4	5.5	mg/Kg	MS
SB	JAD115	S117270A*2	BD189X0.5	N		METALS	SW6010B	Manganese	57	N*	57	J	0.12	3.3	mg/Kg	MS

3 10 0518

Table 8 - Results Qualified Due to Matrix Spike/Matrix Spike Duplicate Recoveries

Matrix	SDG	Lab Sample ID	Sample ID	Sample Type	LR-Type	Parameter Class	Analytical Method	Parameter	Lab Result	Lab Qual	Final Result	Final Qual	Detection Limit	Reporting Limit	Units	Validation Notes
SB	JAD115	S117270A*3	BD192X0.5	N		METALS	SW6010B	Chromium, total	5.4	N*	5.4	J	0.092	2.2	mg/Kg	MS
SB	JAD115	S117270A*3	BD192X0.5	N		METALS	SW6010B	Copper	9.6	N*	9.6	J	0.39	5.4	mg/Kg	MS
SB	JAD115	S117270A*3	BD192X0.5	N		METALS	SW6010B	Manganese	34	N*	34	J	0.11	3.3	mg/Kg	MS
SB	JAD112	S117155A*9	BD196X0.5	N		METALS	SW6010B	Copper	14	=	14	J	0.37	5.1	mg/Kg	MS
SB	JAD112	S117155A*9	BD196X0.5	N		METALS	SW6010B	Lead	100	=	100	J	0.21	0.61	mg/Kg	MS
SB	JAD112	S117155A*9	BD196X0.5	N		METALS	SW6010B	Zinc	150	=	150	J	0.5	4.1	mg/Kg	MS
SB	JAD106	S117093*3	BD200X0.5	N		METALS	SW6010B	Antimony	0.28	UN	0.28	UJ	0.28	13	mg/Kg	MS
SB	JAD106	S117093*3	BD200X0.5	N		METALS	SW6010B	Lead	37	N	37	J	0.23	0.67	mg/Kg	MS
SB	JAD112	S117155A*6	BD206X0.5	N		METALS	SW6010B	Antimony	0.26	U	0.26	UJ	0.26	13	mg/Kg	MS
SB	JAD112	S117155A*6	BD206X0.5	N		METALS	SW6010B	Copper	28	=	28	J	0.38	5.3	mg/Kg	MS
SB	JAD112	S117155A*6	BD206X0.5	N		METALS	SW6010B	Lead	89	=	89	J	0.22	0.64	mg/Kg	MS
SB	JAD112	S117155A*6	BD206X0.5	N		METALS	SW6010B	Zinc	150	=	150	J	0.52	4.3	mg/Kg	MS
SB	JAD102	S116988A*3	BD211X0.5	N		METALS	SW6010B	Antimony	0.27	UN	0.27	UJ	0.27	13	mg/Kg	MS
SB	JAD102	S116988A*3	BD211X0.5	N		METALS	SW6010B	Lead	13	N	13	J	0.23	0.65	mg/Kg	MS
SB	JAD102	S116988A*3	BD211X0.5	N		METALS	SW6010B	Manganese	7.8	N	7.8	J	0.11	3.2	mg/Kg	MS
SB	JAD105	S117006A*6	BD227X0.5	N		METALS	SW6010B	Copper	170	N	170	J	0.41	5.7	mg/Kg	MS
SB	JAD105	S117006A*6	BD227X0.5	N		METALS	SW6010B	Lead	460	N	460	J	0.24	0.68	mg/Kg	MS
SB	JAD105	S117006A*6	BD227X0.5	N		METALS	SW6010B	Zinc	740	N	740	J	0.56	4.5	mg/Kg	MS
SB	JAD105	S117006A*7	BD227X0.5FD	FD		METALS	SW6010B	Copper	170	N	170	J	0.41	5.7	mg/Kg	MS
SB	JAD105	S117006A*7	BD227X0.5FD	FD		METALS	SW6010B	Lead	420	N	420	J	0.24	0.69	mg/Kg	MS
SB	JAD105	S117006A*7	BD227X0.5FD	FD		METALS	SW6010B	Zinc	690	N	690	J	0.56	4 6	mg/Kg	MS
SB	JAD115	S117270A*5	BD252X0.5	N		METALS	SW6010B	Chromium, total	6.5	N*	6.5	J	0.089	2.1	mg/Kg	MS
SB	JAD115	S117270A*5	BD252X0.5	N		METALS	SW6010B	Copper	12	N*	12	J	0.38	5.2	mg/Kg	MS
SB	JAD115	S117270A*5	BD252X0.5	N		METALS	SW6010B	Manganese	29	N*	29	J	0.11	3.1	mg/Kg	MS
SB	JAD106	S117093*6	BD256X0.5	N		METALS	SW6010B	Antimony	0.24	UN	0.24	UJ	0.24	11	mg/Kg	MS
SB	JAD106	S117093*6	BD256X0.5	N		METALS	SW6010B	Lead	21	N	21	J	0.2	0.57	mg/Kg	MS
SB	JAD115	S117270A*1	BD260X0.5	N		METALS	SW6010B	Chromium, total	8.2	N*	8.2	J	0.089	2.1	mg/Kg	MS
SB	JAD115	S117270A*1	BD260X0.5	N		METALS	SW6010B	Copper	8.6	N*	8.6	J	0.38	5.2	mg/Kg	MS
SB	JAD115	S117270A*1	BD260X0.5	N		METALS	SW6010B	Manganese	33	N*	33	J	0.11	3.1	mg/Kg	MS
SB	JAD173	S241177*1	BD278X0.5	N		METALS	SW6010B	Zinc	53	N	53	J	0.51	4.2	mg/Kg	MS
SB	JAD159	S240153A*8	BD288X0.5	N		METALS	SW6010B	Antimony	0.27	UN	0.27	UJ	0.27	13	mg/Kg	MS
SB	JAD106	S117093*7	BD297X0.5	N		METALS	SW6010B	Lead	93	N	93	J	0.21	0.6	mg/Kg	MS
SB	JAD102	S116955A*7	BD306X0.5	N		METALS	SW6010B	Antimony	0.25	UN	0.25	UJ	0.25	12	mg/Kg	MS
SB	JAD102	S116955A*7	BD306X0.5	N		METALS	SW6010B	Copper	9.1	N	9.1	J	0.37	5.1	mg/Kg	MS
SB	JAD102	S116955A*7	BD306X0.5	N		METALS	SW6010B	Lead	28	N	28	J	0.21	0.61	mg/Kg	MS
SB	JAD102	S116955A*7	BD306X0.5	N		METALS	SW6010B	Manganese	24	N	24	J	0.11	3.1	mg/Kg	MS
SB	JAD102	S116955A*4	BD321X0.5	N		METALS	SW6010B	Antimony	0.26	UN	0.26	UJ	0.26	13	mg/Kg	MS
SB	JAD102	S116955A*4	BD321X0.5	N		METALS	SW6010B	Lead	24	N	24	J	0.22	0.63	mg/Kg	MS
SB	JAD102	S116955A*4	BD321X0.5	N		METALS	SW6010B	Manganese	21	N	21	J	0.11	3.1	mg/Kg	MS
SB	JAD221	S245448*6	BD350X0.5	N		METALS	SW6010B	Antimony	0.26	UN	0.26	UJ	0.26	13	mg/Kg	MS
SB	JAD221	S245448*6	BD350X0.5	N		METALS	SW6010B	Lead	120	N	120	J	0.22	0.63	mg/Kg	MS
SB	JAD221	S245448*8	BD372X0.5	N		METALS	SW6010B	Antimony	0.3	UN	0.3	UJ	0.3	14	mg/Kg	MS
SB	JAD221	S245448*8	BD372X0.5	N		METALS	SW6010B	Lead	61	N	61	J	0.25	0.71	mg/Kg	MS
SB	JAD221	S245448*2	BD374X0.5	N		METALS	SW6010B	Antimony	0.29	UN	0.29	UJ	0.29	14	mg/Kg	MS
SB	JAD221	S245448*2	BD374X0.5	N		METALS	SW6010B	Lead	36	N	36	J	0.24	0.7	mg/Kg	MS
SB	JAD221	S245448*7	BD383X0.5	N		METALS	SW6010B	Antimony	0.27	UN	0.27	UJ	0.27	13	mg/Kg	MS

3 10 0519

Table 8 - Results Qualified Due to Matrix Spike/Matrix Spike Duplicate Recoveries

Matrix	SDG	Lab Sample ID	Sample ID	Sample Type	LR Type	Parameter Class	Analytical Method	Parameter	Lab Result	Lab Qual	Final Result	Final Qual	Detection Limit	Reporting Limit	Units	Validation Notes
SB	JAD221	S245448*7	BD383X0.5	N		METALS	SW6010B	Lead	30	N	30	J	0.22	0.64	mg/Kg	MS
SB	JAD221	S245448*4	BD386X0.5	N		METALS	SW6010B	Antimony	0.26	UN	0.26	UJ	0.26	13	mg/Kg	MS
SB	JAD221	S245448*4	BD386X0.5	N		METALS	SW6010B	Lead	20	N	20	J	0.22	0.63	mg/Kg	MS
SB	JAD221	S245448*5	BD388X0.5	N		METALS	SW6010B	Lead	77	N	77	J	0.23	0.65	mg/Kg	MS
SB	JAD221	S245448*3	BD390X0.5	N		METALS	SW6010B	Antimony	0.27	UN	0.27	UJ	0.27	13	mg/Kg	MS
SB	JAD221	S245448*3	BD390X0.5	N		METALS	SW6010B	Lead	32	N	32	J	0.22	0.64	mg/Kg	MS
SB	JAD221	S245448*1	BD412X0.5	N		METALS	SW6010B	Antimony	0.28	UN	0.28	UJ	0.28	13	mg/Kg	MS
SB	JAD221	S245448*1	BD412X0.5	N		METALS	SW6010B	Lead	44	N	44	J	0.23	0.67	mg/Kg	MS
SB	JAD181	S241875*2	BD700C2.0	N		METALS	SW6010B	Lead	19	N	19	J	0.23	0.65	mg/Kg	MS
SB	JAD180	S241811*6	BD701X0.5	N		METALS	SW6010B	Zinc	38	N	38	J	0.52	4.2	mg/Kg	MS
SB	JAD180	S241811*5	BD701X0.5FD	N		METALS	SW6010B	Antimony	0.26	UN	0.26	UJ	0.26	13	mg/Kg	MS
SB	JAD180	S241811*5	BD701X0.5FD	N		METALS	SW6010B	Zinc	38	N	38	J	0.51	4.2	mg/Kg	MS
SB	JAD180	S241811*8	BD702X0.5	N		METALS	SW6010B	Antimony	0.26	UN	0.26	UJ	0.26	13	mg/Kg	MS
SB	JAD180	S241811*8	BD702X0.5	N		METALS	SW6010B	Zinc	57	N	57	J	0.52	4.2	mg/Kg	MS
SB	JAD180	S241811*4	BD703X0.5	N		METALS	SW6010B	Antimony	0.25	UN	0.25	UJ	0.25	12	mg/Kg	MS
SB	JAD180	S241811*4	BD703X0.5	N		METALS	SW6010B	Zinc	24	N	24	J	0.48	3.9	mg/Kg	MS
SB	JAD180	S241811*3	BD704X0.5	N		METALS	SW6010B	Zinc	440	N	440	J	0.48	4	mg/Kg	MS
SB	JAD181	S241875*1	BD705X0.5	N		METALS	SW6010B	Chromium, total	4.6	N	4.6	J	0.093	2.2	mg/Kg	MS
SB	JAD181	S241875*1	BD705X0.5	N		METALS	SW6010B	Lead	22	N	22	J	0.23	0.66	mg/Kg	MS
SB	JAD181	S241875*1	BD705X0.5	N		METALS	SW6010B	Zinc	87	N	87	J	0.54	4.4	mg/Kg	MS
SB	JAD187	S242051A*1	BD706X0.5	N		METALS	SW6010B	Zinc	72	=	72	J	0.72	5.9	mg/Kg	MS
SB	JAD180	S241811*7	BD707X0.5	N		METALS	SW6010B	Antimony	0.26	UN	0.26	UJ	0.26	13	mg/Kg	MS
SB	JAD180	S241811*7	BD707X0.5	N		METALS	SW6010B	Zinc	120	N	120	J	0.52	4.3	mg/Kg	MS
SB	JAD180	S241811*2	BD708X0.5	N		METALS	SW6010B	Zinc	100	N	100	J	0.48	4	mg/Kg	MS
SB	JAD180	S241811*1	BD709X0.5	N		METALS	SW6010B	Aluminum	1300	=	1300	J	3.2	44	mg/Kg	MS
SB	JAD180	S241811*1	BD709X0.5	N		METALS	SW6010B	Zinc	81	N	81	J	0.53	4.4	mg/Kg	MS
SB	JAD114	S117329*1	BD003S1.5	N		METALS	SW6010B	Arsenic	20	=	20	J	0.48	1.1	mg/Kg	MS
SB	JAD114	S117329*1	BD003S1.5	N		METALS	SW6010B	Lead	540	=	540	J	0.45	0.64	mg/Kg	MS
SB	JAD114	S117329*2	BD003W1.5	N		METALS	SW6010B	Lead	270	=	270	J	0.5	0.71	mg/Kg	MS
SB	JAD101	S116955*1	BD076N0.5	N		METALS	SW6010B	Lead	130	N	130	J	0.4	0.47	mg/Kg	MS
SB	JAD101	S116955*2	BD091N0.5	N		METALS	SW6010B	Lead	290	N	290	J	0.42	0.51	mg/Kg	MS
SB	JAD101	S116955*4	BD161C2.0	N		METALS	SW6010B	Lead	160	N	160	J	0.46	0.55	mg/Kg	MS
SB	JAD101	S116955*3	BD161S1.0	N		METALS	SW6010B	Lead	420	N	420	J	0.44	0.53	mg/Kg	MS
SB	JAD114	S117270*1	BD252C1.5	N		METALS	SW6010B	Lead	280	=	280	J	0.53	0.76	mg/Kg	MS
SB	JAD114	S117270*2	BD253S2.0	N		METALS	SW6010B	Lead	110	=	110	J	0.4	0.57	mg/Kg	MS
SB	JAD224	S245653A*2	BD329X0.5	N		METALS	SW6010B	Lead	50	N	50	J	0.66	0.94	mg/Kg	MS
SB	JAD224	S245653A*1	BD364N1.0	N		METALS	SW6010B	Lead	740	N	740	J	0.59	0.85	mg/Kg	MS
SB	JAD224	S245653A*8	BD364X0.5	N		METALS	SW6010B	Lead	150	N	150	J	0.53	0.75	mg/Kg	MS
SB	JAD224	S245653A*11	BD395X0.5	N		METALS	SW6010B	Lead	80	N	80	J	0.62	0.88	mg/Kg	MS
SB	JAD224	S245653A*7	BD397X0.5	N		METALS	SW6010B	Lead	69	N	69	J	0.63	0.91	mg/Kg	MS
SB	JAD224	S245653A*6	BD401X0.5	N		METALS	SW6010B	Lead	250	N	250	J	0.74	1.1	mg/Kg	MS
SB	JAD224	S245653A*5	BD408X0.5	N		METALS	SW6010B	Lead	180	N	180	J	0.64	0.91	mg/Kg	MS
SB	JAD224	S245653A*4	BD411X0.5	N		METALS	SW6010B	Lead	40	N	40	J	0.72	1	mg/Kg	MS
SS	JAD114	S117329*3	BD005N0.0	N		METALS	SW6010B	Lead	1200	=	1200	J	1.4	2	mg/Kg	MS
SS	JAD224	S245653A*10	BD373C0.0	N		METALS	SW6010B	Lead	85	N	85	J	0.62	0.88	mg/Kg	MS
SS	JAD224	S245653A*3	BD397C0.0	N		METALS	SW6010B	Lead	350	N	350	J	0.55	0.79	mg/Kg	MS

3 10 1520

Table 8 - Results Qualified Due to Matrix Spike/Matrix Spike Duplicate Recoveries

Matrix	SDG	Lab Sample ID	Sample ID	Sample Type	LR Type	Parameter Class	Analytical Method	Parameter	Lab Result	Lab Qual	Final Result	Final Qual	Detection Limit	Reporting Limit	Units	Validation Notes
SS	JAD224	S245653A*9	BD397C0.0FD	N		METALS	SW6010B	Lead	1100	N	1100	J	3	4.3	mg/Kg	MS
SB	JAD120	S117386*3	BD006W0.5	N		METALS	SW7060A	Arsenic	4.6	N*	4.6	J	0.38	1.1	mg/Kg	MD,MS
SB	JAD120	S117386*4	BD006W1.0	N		METALS	SW7060A	Arsenic	4.3	N*	4.3	J	0.35	0.99	mg/Kg	MD,MS
SB	JAD120	S117386*19	BD006X0.5	N		METALS	SW7060A	Arsenic	4.4	N*	4.4	J	0.32	0.91	mg/Kg	MD,MS
SB	JAD120	S117386*7	BD224N2.0	N		METALS	SW7060A	Arsenic	2.6	N*	2.6	J	0.39	1.1	mg/Kg	MD,MS
SB	JAD120	S117386*17	BD224N2.0FD	N		METALS	SW7060A	Arsenic	3.2	N*	3.2	J	0.42	1.2	mg/Kg	MD,MS
SB	JAD120	S117386*10	BD290E1.0	N		METALS	SW7060A	Arsenic	2.1	N*	2.1	J	0.34	0.97	mg/Kg	MD,MS
SB	JAD120	S117386*9	BD290N0.5	N		METALS	SW7060A	Arsenic	1.4	N*	1.4	J	0.36	1	mg/Kg	MD,MS
SB	JAD120	S117386*12	BD290S0.5	N		METALS	SW7060A	Arsenic	4.8	N*	4.8	J	0.79	2.2	mg/Kg	MD,MS
SB	JAD120	S117386*15	BD290W2.0	N		METALS	SW7060A	Arsenic	4.4	N*	4.4	J	0.34	0.97	mg/Kg	MD,MS
SS	JAD120	S117386*5	BD006C0.0	N		METALS	SW7060A	Arsenic	9.9	N*	9.9	J	2	5.7	mg/Kg	MD,MS
SS	JAD120	S117386*1	BD006E0.0	N		METALS	SW7060A	Arsenic	7.4	N*	7.4	J	0.37	1.1	mg/Kg	MD,MS
SS	JAD120	S117386*2	BD006W0.0	N		METALS	SW7060A	Arsenic	4.9	N*	4.9	J	0.32	0.93	mg/Kg	MD,MS
SS	JAD120	S117386*8	BD290N0.0	N		METALS	SW7060A	Arsenic	2.5	N*	2.5	J	0.83	2.4	mg/Kg	MD,MS
SS	JAD120	S117386*11	BD290S0.0	N		METALS	SW7060A	Arsenic	5	N*	5	J	0.37	1.1	mg/Kg	MD,MS
SS	JAD120	S117386*14	BD290W0.0	N		METALS	SW7060A	Arsenic	1.4	N*	1.4	J	0.33	0.94	mg/Kg	MD,MS
SB	JAD114	S117329*2	BD003W1.5	N		METALS	SW7060A	Arsenic	1.3	=	1.3	J	0.41	1.2	mg/Kg	MS
SB	JAD115	S117329A*4	BD015X0.5	N		METALS	SW7060A	Arsenic	1.6	N	1.6	J	0.34	0.96	mg/Kg	MS
SB	JAD104	S117006B*2	BD042W0.5	N		METALS	SW7060A	Arsenic	1.9	N	1.9	UJ	0.66	1.9	mg/Kg	MS
SB	JAD104	S117006B*7	BD042X0.5	N		METALS	SW7060A	Arsenic	4.3	N	4.3	J	0.33	0.95	mg/Kg	MS
SB	JAD104	S117006B*5	BD043N2.0	N		METALS	SW7060A	Arsenic	2.8	N	2.8	J	0.34	0.96	mg/Kg	MS
SB	JAD104	S117006B*6	BD043N2.0FD	FD		METALS	SW7060A	Arsenic	3.2	N	3.2	J	0.37	1.1	mg/Kg	MS
SB	JAD106	S117093B*4	BD061X0.5	N		METALS	SW7060A	Arsenic	2.8	=	2.8	J	0.36	1	mg/Kg	MS
SB	JAD105	S117006C*2	BD070X0.5	N		METALS	SW7060A	Arsenic	1.5	N	1.5	J	0.37	1.1	mg/Kg	MS
SB	JAD101	S116955B*2	BD091N0.5	N		METALS	SW7060A	Arsenic	7.4	N	7.4	J	0.39	1.1	mg/Kg	MS
SB	JAD102	S116955C*2	BD091X0.5	N		METALS	SW7060A	Arsenic	2.1	=	2.1	J	0.35	1	mg/Kg	MS
SB	JAD102	S116955C*3	BD091X0.5FD	FD		METALS	SW7060A	Arsenic	1.5	=	1.5	J	0.35	1	mg/Kg	MS
SB	JAD112	S117155A*5	BD096X0.5	N		METALS	SW7060A	Arsenic	1.9	=	1.9	J	0.38	1.1	mg/Kg	MS
SB	JAD105	S117006C*4	BD105X0.5	N		METALS	SW7060A	Arsenic	1.6	N	1.6	J	0.35	1	mg/Kg	MS
SB	JAD112	S117155A*1	BD111X0.5	N		METALS	SW7060A	Arsenic	1.1	=	1.1	J	0.36	1	mg/Kg	MS
SB	JAD195	S243366*8	BD113C2.0	N		METALS	SW7060A	Arsenic	2.3	N	2.3	J	0.35	0.99	mg/Kg	MS
SB	JAD195	S243366*5	BD113E1.0	N		METALS	SW7060A	Arsenic	2.8	N	2.8	J	0.35	0.99	mg/Kg	MS
SB	JAD195	S243366*2	BD113X0.5	N		METALS	SW7060A	Arsenic	3.1	N	3.1	J	0.37	1.1	mg/Kg	MS
SB	JAD101	S116988B*1	BD116E1.5	N		METALS	SW7060A	Arsenic	2.4	N	2.4	J	0.41	1.2	mg/Kg	MS
SB	JAD102	S116988C*4	BD116X0.5	N		METALS	SW7060A	Arsenic	5.1	=	5.1	J	0.35	1	mg/Kg	MS
SB	JAD101	S116988B*4	BD121C1.0	N		METALS	SW7060A	Arsenic	2.1	UN	2.1	UJ	0.73	2.1	mg/Kg	MS
SB	JAD101	S116988B*2	BD121N2.0	N		METALS	SW7060A	Arsenic	2.7	N	2.7	J	0.86	2.5	mg/Kg	MS
SB	JAD101	S116988B*3	BD121W1.0	N		METALS	SW7060A	Arsenic	3	N	3	J	0.78	2.2	mg/Kg	MS
SB	JAD102	S116988C*2	BD121X0.5	N		METALS	SW7060A	Arsenic	1.1	=	1.1	J	0.32	0.91	mg/Kg	MS
SB	JAD162	S240580*3	BD129C1.0	N		METALS	SW7060A	Arsenic	2.2	N	2.2	J	0.43	1.2	mg/Kg	MS
SB	JAD162	S240580*4	BD130N2.0	N		METALS	SW7060A	Arsenic	2.4	N	2.4	J	0.4	1.1	mg/Kg	MS
SB	JAD162	S240580*5	BD132W1.0	N		METALS	SW7060A	Arsenic	1.7	N	1.7	J	0.4	1.1	mg/Kg	MS
SB	JAD162	S240580*1	BD132W1.0FD	N		METALS	SW7060A	Arsenic	3.4	N	3.4	J	0.44	1.3	mg/Kg	MS
SB	JAD162	S240580*6	BD133E1.0	N		METALS	SW7060A	Arsenic	3	N	3	J	0.37	1.1	mg/Kg	MS
SB	JAD104	S117006B*8	BD145N2.0	N		METALS	SW7060A	Arsenic	1.5	N	1.5	J	0.38	1.1	mg/Kg	MS
SB	JAD104	S117006B*14	BD148E1.5	N		METALS	SW7060A	Arsenic	1.9	N	1.9	J	0.4	1.1	mg/Kg	MS

3 10 C521

Table 8 - Results Qualified Due to Matrix Spike/Matrix Spike Duplicate Recoveries

Matrix	SDG	Lab Sample ID	Sample ID	Sample Type	LR Type	Parameter Class	Analytical Method	Parameter	Lab Result	Lab Qual	Final Result	Final Qual	Detection Limit	Reporting Limit	Units	Validation Notes
SB	JAD104	S117006B*10	BD148N0.5	N		METALS	SW7060A	Arsenic	1.5	N	1.5	J	0.37	1.1	mg/Kg	MS
SB	JAD104	S117006B*11	BD148N1.0	N		METALS	SW7060A	Arsenic	1.6	N	1.6	J	0.32	0.9	mg/Kg	MS
SB	JAD104	S117006B*12	BD148N2.0	N		METALS	SW7060A	Arsenic	3.2	N	3.2	J	0.41	1.2	mg/Kg	MS
SB	JAD104	S117006B*15	BD148S1.0	N		METALS	SW7060A	Arsenic	1.3	N	1.3	J	0.35	1	mg/Kg	MS
SB	JAD105	S117006C*3	BD148X0.5	N		METALS	SW7060A	Arsenic	1.2	N	1.2	J	0.32	0.91	mg/Kg	MS
SB	JAD113	S117237*7	BD155C1.0	N		METALS	SW7060A	Arsenic	4.7	N	4.7	J	0.69	2	mg/Kg	MS
SB	JAD113	S117237*3	BD155S1.0	N		METALS	SW7060A	Arsenic	1.2	N	1.2	J	0.39	1.1	mg/Kg	MS
SB	JAD113	S117237*5	BD155W1.0	N		METALS	SW7060A	Arsenic	3.9	N	3.9	J	0.88	2.5	mg/Kg	MS
SB	JAD113	S117237*6	BD155W1.5	N		METALS	SW7060A	Arsenic	2.2	N	2.2	J	0.69	2	mg/Kg	MS
SB	JAD113	S117237*15	BD155X0.5	N		METALS	SW7060A	Arsenic	3.3	N	3.3	J	0.35	1	mg/Kg	MS
SB	JAD112	S117155A*7	BD156X0.5	N		METALS	SW7060A	Arsenic	3.4	=	3.4	J	0.35	0.99	mg/Kg	MS
SB	JAD113	S117237*8	BD158S2.0	N		METALS	SW7060A	Arsenic	1.3	UN	1.3	UJ	0.45	1.3	mg/Kg	MS
SB	JAD101	S116955B*4	BD161C2.0	N		METALS	SW7060A	Arsenic	1.8	N	1.8	J	0.35	1	mg/Kg	MS
SB	JAD102	S116955C*5	BD161X0.5	N		METALS	SW7060A	Arsenic	1.5	=	1.5	J	0.32	0.91	mg/Kg	MS
SB	JAD112	S117155A*8	BD166X0.5	N		METALS	SW7060A	Arsenic	2.3	=	2.3	J	0.34	0.97	mg/Kg	MS
SB	JAD101	S116988B*6	BD176C2.0	N		METALS	SW7060A	Arsenic	2.6	N	2.6	J	0.41	1.2	mg/Kg	MS
SB	JAD162	S240580*9	BD178C2.0	N		METALS	SW7060A	Arsenic	1.2	UN	1.2	UJ	0.4	1.2	mg/Kg	MS
SB	JAD113	S117237*11	BD183W1.0	N		METALS	SW7060A	Arsenic	2.9	SN	2.9	J	0.66	1.9	mg/Kg	MS
SB	JAD113	S117237*17	BD183W1.0FD	N		METALS	SW7060A	Arsenic	1.9	UN	1.9	UJ	0.67	1.9	mg/Kg	MS
SB	JAD112	S117155A*6	BD206X0.5	N		METALS	SW7060A	Arsenic	1.9	=	1.9	J	0.35	1	mg/Kg	MS
SB	JAD102	S116988C*3	BD211X0.5	N		METALS	SW7060A	Arsenic	2.7	=	2.7	J	0.32	0.91	mg/Kg	MS
SB	JAD113	S117237*13	BD226C1.0	N		METALS	SW7060A	Arsenic	13	N	13	J	3.7	11	mg/Kg	MS
SB	JAD113	S117237*12	BD226N1.0	N		METALS	SW7060A	Arsenic	3.4	N	3.4	J	0.37	1.1	mg/Kg	MS
SB	JAD113	S117237*16	BD226X0.5	N		METALS	SW7060A	Arsenic	2.4	N	2.4	J	0.71	2	mg/Kg	MS
SB	JAD104	S117006B*22	BD227C1.0	N		METALS	SW7060A	Arsenic	4.5	N	4.5	J	0.41	1.2	mg/Kg	MS
SB	JAD104	S117006B*17	BD227E0.5	N		METALS	SW7060A	Arsenic	4.9	N	4.9	J	0.72	2.1	mg/Kg	MS
SB	JAD104	S117006B*16	BD227N1.0	N		METALS	SW7060A	Arsenic	5.2	N	5.2	J	0.39	1.1	mg/Kg	MS
SB	JAD104	S117006B*19	BD227S0.5	N		METALS	SW7060A	Arsenic	5.9	N	5.9	J	0.79	2.2	mg/Kg	MS
SB	JAD105	S117006C*6	BD227X0.5	N		METALS	SW7060A	Arsenic	3.9	N	3.9	J	0.36	1	mg/Kg	MS
SB	JAD105	S117006C*7	BD227X0.5FD	FD		METALS	SW7060A	Arsenic	2.8	N	2.8	J	0.37	1	mg/Kg	MS
SB	JAD114	S117270*1	BD252C1.5	N		METALS	SW7060A	Arsenic	2.8	=	2.8	J	0.8	2.3	mg/Kg	MS
SB	JAD115	S117270A*5	BD252X0.5	N		METALS	SW7060A	Arsenic	0.99	UN	0.99	UJ	0.35	0.99	mg/Kg	MS
SB	JAD114	S117270*2	BD253S2.0	N		METALS	SW7060A	Arsenic	1.2	=	1.2	J	0.37	1	mg/Kg	MS
SB	JAD113	S117237*14	BD253W1.5	N		METALS	SW7060A	Arsenic	1.5	N	1.5	J	0.37	1	mg/Kg	MS
SB	JAD115	S117270A*1	BD260X0.5	N		METALS	SW7060A	Arsenic	0.99	UN	0.99	UJ	0.35	0.99	mg/Kg	MS
SB	JAD106	S117093B*7	BD297X0.5	N		METALS	SW7060A	Arsenic	1.2	=	1.2	J	0.33	0.95	mg/Kg	MS
SB	JAD162	S240610*2	BD312W1.0	N		METALS	SW7060A	Arsenic	2.7	UNW	2.7	UJ	0.95	2.7	mg/Kg	MS
SB	JAD102	S116955C*4	BD321X0.5	N		METALS	SW7060A	Arsenic	1.3	=	1.3	J	0.29	0.83	mg/Kg	MS
SB	JAD223	S245653*13	BD347X0.5	N		METALS	SW7060A	Arsenic	5.4	N	5.4	J	0.55	1.6	mg/Kg	MS
SB	JAD223	S245653*14	BD351X0.5	N		METALS	SW7060A	Arsenic	2.3	N	2.3	J	0.65	1.9	mg/Kg	MS
SB	JAD223	S245653*15	BD352N1.0	N		METALS	SW7060A	Arsenic	1.8	N	1.8	J	0.55	1.6	mg/Kg	MS
SB	JAD223	S245653*16	BD352X0.5	N		METALS	SW7060A	Arsenic	1.8	UN	1.8	UJ	0.62	1.8	mg/Kg	MS
SB	JAD223	S245653*2	BD387X0.5	N		METALS	SW7060A	Arsenic	1.6	UN	1.6	UJ	0.56	1.6	mg/Kg	MS
SB	JAD223	S245653*1	BD394X0.5	N		METALS	SW7060A	Arsenic	1.7	UN	1.7	UJ	0.58	1.7	mg/Kg	MS
SB	JAD180	S241811*6	BD701X0.5	N		METALS	SW7060A	Arsenic	1.6	N	1.6	J	0.37	1.1	mg/Kg	MS
SB	JAD180	S241811*5	BD701X0.5FD	N		METALS	SW7060A	Arsenic	2.1	N	2.1	J	0.37	1.1	mg/Kg	MS

3 10 1522

Table 8 - Results Qualified Due to Matrix Spike/Matrix Spike Duplicate Recoveries

Matrix	SDG	Lab Sample ID	Sample ID	Sample Type	LR Type	Parameter Class	Analytical Method	Parameter	Lab Result	Lab Qual	Final Result	Final Qual	Detection Limit	Reporting Limit	Units	Validation Notes
SB	JAD180	S241811*8	BD702X0.5	N		METALS	SW7060A	Arsenic	1.6	N	1.6	J	0.35	1	mg/Kg	MS
SB	JAD180	S241811*4	BD703X0.5	N		METALS	SW7060A	Arsenic	2.7	N	2.7	J	0.38	1.1	mg/Kg	MS
SB	JAD180	S241811*3	BD704X0.5	N		METALS	SW7060A	Arsenic	1.5	N	1.5	J	0.35	1	mg/Kg	MS
SS	JAD114	S117329*3	BD005N0.0	N		METALS	SW7060A	Arsenic	4.8	=	4.8	J	0.58	1.7	mg/Kg	MS
SS	JAD195	S243366*4	BD113E0.0	N		METALS	SW7060A	Arsenic	2.7	N	2.7	J	0.38	1.1	mg/Kg	MS
SS	JAD195	S243366*3	BD113N0.0	N		METALS	SW7060A	Arsenic	1.9	N	1.9	J	0.34	0.96	mg/Kg	MS
SS	JAD195	S243366*6	BD113W0.0	N		METALS	SW7060A	Arsenic	3.3	N	3.3	J	0.35	0.99	mg/Kg	MS
SS	JAD162	S240580*8	BD134C0.0	N		METALS	SW7060A	Arsenic	1.5	N	1.5	J	0.38	1.1	mg/Kg	MS
SS	JAD104	S117006B*13	BD148E0.0	N		METALS	SW7060A	Arsenic	2.2	UN	2.2	UJ	0.76	2.2	mg/Kg	MS
SS	JAD104	S117006B*9	BD148N0.0	N		METALS	SW7060A	Arsenic	1.8	N	1.8	J	0.36	1	mg/Kg	MS
SS	JAD195	S243366*9	BD149N0.0	N		METALS	SW7060A	Arsenic	1.8	N	1.8	J	0.34	0.96	mg/Kg	MS
SS	JAD113	S117237*1	BD155N0.0	N		METALS	SW7060A	Arsenic	5	N	5	J	0.35	1	mg/Kg	MS
SS	JAD113	S117237*9	BD158W0.0	N		METALS	SW7060A	Arsenic	3.9	N	3.9	J	0.35	0.99	mg/Kg	MS
SS	JAD104	S117006B*21	BD227C0.0	N		METALS	SW7060A	Arsenic	3.3	N	3.3	J	0.41	1.2	mg/Kg	MS
SS	JAD104	S117006B*20	BD227C0.0FD	FD		METALS	SW7060A	Arsenic	3.6	N	3.6	J	0.69	2	mg/Kg	MS
SS	JAD104	S117006B*18	BD227S0.0	N		METALS	SW7060A	Arsenic	4.6	N	4.6	J	0.8	2.3	mg/Kg	MS
SS	JAD223	S245653*20	BD364C0.0	N		METALS	SW7060A	Arsenic	2	N	2	J	0.46	1.3	mg/Kg	MS
SB	JAD115	S117329A*3	bd005x0.5	N		METALS	SW7471A	Mercury	0.26	=	0.26	J	0.0032	0.11	mg/Kg	MS
SB	JAD102	S116955A*2	BD091X0.5	N		METALS	SW7471A	Mercury	0.17	N*	0.17	J	0.0028	0.1	mg/Kg	MS
SB	JAD102	S116955A*3	BD091X0.5FD	FD		METALS	SW7471A	Mercury	0.16	N*	0.16	J	0.0028	0.099	mg/Kg	MS
SB	JAD102	S116955A*5	BD161X0.5	N		METALS	SW7471A	Mercury	0.12	N*	0.12	J	0.003	0.11	mg/Kg	MS
SB	JAD115	S117270A*4	BD172X0.5	N		METALS	SW7471A	Mercury	0.15	=	0.15	J	0.0029	0.11	mg/Kg	MS
SB	JAD115	S117270A*1	BD260X0.5	N		METALS	SW7471A	Mercury	0.19	=	0.19	J	0.0028	0.099	mg/Kg	MS
SB	JAD159	S240153A*8	BD288X0.5	N		METALS	SW7471A	Mercury	0.11	N	0.11	J	0.0028	0.1	mg/Kg	MS
SB	JAD106	S117093B*7	BD297X0.5	N		METALS	SW7471A	Thallium	0.47	U	0.47	UJ	0.19	0.47	mg/Kg	MS
SB	JAD221	S245448*1	BD412X0.5	N		PAH	SW8270C	Chrysene	370	U	370	UJ	23	370	ug/Kg	MS

3 10 .0523

Table 9 - Field Duplicates

Matrix	Parameter Class	SDG	Analytical Method	Lab Sample ID	Sample ID	Parameter	Final Result	Final Qual	Units	Detection Limit	Reporting Limit	Field Dup Sample ID	Field Dup Final Result	Field Dup Final Qual	Field Dup Detection Limit	Field Dup Reporting Limit	RPD
SB	METALS	JAD101	SW6010B	S116988*8	BD121S2.0	Arsenic	19	=	mg/Kg	0.98	2.2	BD121S2.0FD	51	=	1.1	2.4	91.42857
SB	METALS	JAD102	SW6010B	S116955A*2	BD091X0.5	Iron	4800	=	mg/Kg	2.4	21	BD091X0.5FD	14000	=	2.3	21	97.87234
SB	METALS	JAD111	SW6010B	S117155*4	BD163E0.5	Lead	1100	=	mg/Kg	0.8	1.1	BD163E0.5FD	250	=	0.4	0.57	125.9259
SB	METALS	JAD102	SW6010B	S116955A*2	BD091X0.5	Manganese	32	J	mg/Kg	0.11	3.2	BD091X0.5FD	83	J	0.11	3.1	88.69565
SB	METALS	JAD105	SW6010B	S117006A*6	BD227X0.5	Manganese	770	J	mg/Kg	0.12	3.4	BD227X0.5FD	270	J	0.12	3.4	96.15385
SB	METALS	JAD102	SW6010B	S116955A*2	BD091X0.5	Zinc	170	=	mg/Kg	0.52	4.2	BD091X0.5FD	270	=	0.51	4.2	45.45455

Appendix E

3 10 0526

CHEMICAL-SPECIFIC THRESHOLD CRITERIA (BENCHMARKS) FOR HUMAN HEALTH AND ECOLOGICAL RISK ASSESSMENT

Appendix E

Chemical-specific Screening Threshold Criteria for Human Health Risk Assessment

City of Jacksonville Ash Disposal Sites

		Groundwater PRGs				Soil PRGs						
		Drinking Water Standards		Reg. IX PRG (Tap Water)		Reg. IX Industrial Soil PRG		Reg. IX Residential Soil PRG		Reg. IX SSL Soil for GW migraton	Reg. IX SSL Soil for GW Migraton	Florida Leachability Values
Group	Chemical Name	MCLG (mg/L)	MCL (mg/L)	mg/L	Basis	mg/kg	Basis	mg/kg	Basis	mg/kg (DAF 1)	mg/kg (DAF 20)	mg/kg
Metals	Aluminum	-	0.05 to 0.2 **	3.65E+00	nc	1.00E+04	max	7.61E+03	nc	-	-	-
	Antimony	0.006	0.006	1.46E-03	nc	8.18E+01	nc	3.13E+00	nc	3.00E-01	5.00E+00	5.00E+00
	Arsenic (noncancer endpoint)	-				4.40E+02	nc	2.20E+01	nc			
	Arsenic (cancer endpoint)	-	0.05	4.48E-05	ca	2.73E+00	ca	3.90E-01	ca*	1.00E+00	2.90E+01	2.90E+01
	Barium	2	2	2.55E-01	nc	1.00E+04	max	5.37E+02	nc	8.20E+01	1.60E+03	1.60E+03
	Beryllium	0.004	0.004	7.30E-03	nc	2.24E+03	ca**	1.54E+01	nc	3.00E+00	6.30E+01	6.30E+01
	Cadmium	0.005	0.005	1.82E-03	nc	8.10E+01	nc	3.70E+00	nc	4.00E-01	8.00E+00	8.00E+00
	Chromium III	-	-	5.47E+00	nc	1.00E+04	max	1.00E+04	max	-	-	-
	Chromium VI	-	-	1.09E-02	nc	6.40E+01	ca	3.01E+01	ca**	2.00E+00	3.80E+01	3.80E+01
	Chromium (total)	0.1	0.1	-	-	4.48E+02	ca	2.11E+02	ca	2.00E+00	3.80E+01	-
	Cobalt	-	-	2.19E-01	nc	1.00E+04	max	4.69E+02	nc	-	-	-
	Copper	1.3	1.0**	1.36E-01	nc	7.59E+03	nc	2.91E+02	nc	-	-	-
	Cyanide (free)	0.2	0.2	7.30E-02	nc	1.76E+03	nc	1.22E+02	nc	2.00E+00	4.00E+01	4.00E+01
	Iron	-	0.3**	1.09E+00	nc	1.00E+04	max	2.35E+03	nc	-	-	-
	Lead	zero	0.015*	-	-	1.00E+02	nc	4.00E+01	nc	-	-	-
	Manganese	-	0.05**	8.76E-02	nc	3.23E+03	nc	1.76E+02	nc	-	-	-
	Mercury	0.002	0.002	1.09E-03	nc	6.13E+01	nc	2.35E+00	nc	-	-	2.10E+00
	Nickel	0.1	0.1	7.30E-02	nc	4.09E+03	nc	1.56E+02	nc	7.00E+00	1.30E+02	1.30E+02
	Selenium	0.05	0.05	1.82E-02	nc	1.02E+03	nc	3.91E+01	nc	3.00E-01	5.00E+00	5.00E+00
	Silver	-	0.1**	1.82E-02	nc	1.02E+03	nc	3.91E+01	nc	2.00E+00	3.40E+01	1.70E+01
	Thallium (chloride)	0.0005	0.002	2.92E-04	nc	1.64E+01	nc	6.26E-01	nc	4.00E-01	7.00E-01	-
	Vanadium	-	-	2.55E-02	nc	1.43E+03	nc	5.47E+01	nc	3.00E+02	6.00E+03	9.80E+02
	Zinc	-	5**	1.09E+00	nc	1.00E+04	max	2.35E+03	nc	6.20E+02	1.20E+04	6.00E+03
Volatiles	1,1-Dichloroethene	0.007	0.007	4.56E-05	ca	1.19E-01	ca	5.36E-02	ca	3.00E-03	6.00E-02	6.00E-02
	1,2-Dichloroethene (cis)	0.07	0.07	6.08E-03	nc	1.47E+01	nc	4.29E+00	nc	2.00E-02	4.00E-01	4.00E-01
	1,2-Dichloroethene (trans)	0.1	0.1	1.22E-02	nc	2.14E+01	nc	6.32E+00	nc	3.00E-02	7.00E-01	7.00E-01
	1,2-Dichloroethene (total)	-	-	-	-	-	-	-	-	-	-	-
	Benzene	zero	0.005	4.10E-04	ca*	1.46E+00	ca*	6.72E-01	ca*	2.00E-03	3.00E-02	7.00E-03
	Ethylbenzene	0.7	0.7	1.34E-01	nc	2.30E+01	sat	2.30E+01	sat	7.00E-01	1.30E+01	6.00E-01
	Tetrachloroethene	zero	0.005	1.08E-03	ca	1.87E+01	ca*	5.69E+00	ca*	3.00E-03	6.00E-02	3.00E-02
	Toluene	1	1	7.23E-02	nc	5.20E+01	sat	5.20E+01	sat	6.00E-01	1.20E+01	5.00E-01
	Trichloroethene	zero	0.005	1.64E-03	ca*	6.12E+00	ca*	2.77E+00	ca**	3.00E-03	6.00E-02	3.00E-02
	Vinyl chloride	zero	0.002	1.98E-05	ca	4.87E-02	ca	2.17E-02	ca	7.00E-04	1.00E-02	7.00E-03
	m-xylene	-	-	-	-	-	-	-	-	-	-	-
	o-xylene	-	-	-	-	-	-	-	-	-	-	-
	p-xylene	-	-	-	-	-	-	-	-	-	-	-
	Xylene (total)	10	10	1.43E-01	nc	2.10E+01	sat	2.10E+01	sat	1.00E+01	2.10E+02	2.00E-01

3 10 527

Appendix E
Chemical-specific Screening Threshold Criteria for Human Health Risk Assessment
City of Jacksonville Ash Disposal Sites

		Groundwater PRGs				Soil PRGs						
		Drinking Water Standards		(Tap Water)		Industrial		Residential		migraton	GW Migraton	Leachability Values
Group	Chemical Name	MCLG (mg/L)	MCL (mg/L)	mg/L	Basis	mg/kg	Basis	mg/kg	Basis	mg/kg (DAF 1)	mg/kg (DAF 20)	mg/kg
Semi-Volatiles	2-methylnaphthalene	-	-	-	-	-	-	-	-	-	-	6.10E+00
	2-Methylphenol	-	-	1.82E-01	nc	4.40E+03	nc	3.06E+02	nc	8.00E-01	1.50E+01	3.00E-01
	3-Methylphenol	-	-	1.82E-01	nc	4.40E+03	nc	3.06E+02	nc	-	-	3.00E-01
	4-Methylphenol	-	-	1.82E-02	nc	4.40E+02	nc	3.06E+01	nc	-	-	3.00E-02
	Anthracene	-	-	1.83E-01	nc	1.00E+04	max	2.19E+03	nc	5.90E+02	1.20E+04	2.50E+03
	Benzo(a)anthracene	-	-	9.21E-05	ca	2.89E+00	ca	6.21E-01	ca	8.00E-02	2.00E+00	3.20E+00
	Benzo(a)pyrene	zero	0.0002	9.21E-06	ca	2.89E-01	ca	6.21E-02	ca	4.00E-01	8.00E+00	8.00E+00
	Benzo(b)fluoranthene	-	-	9.21E-05	ca	2.89E+00	ca	6.21E-01	ca	2.00E-01	5.00E+00	1.00E+01
	Benzo(g,h,i)perylene	-	-	-	-	-	-	-	-	-	-	3.20E+04
	Benzo(k)fluoranthene	-	-	9.21E-04	ca	2.89E+01	ca	6.21E+00	ca	2.00E+00	4.90E+01	2.50E+01
	Butyl benzyl phthalate			7.30E+03	nc	1.00E+05	max	1.20E+04	nc	8.00E+02	9.00E+02	3.00E+02
	Carbazole	-	-	3.36E-03	ca	1.23E+02	ca	2.43E+01	ca	3.00E-02	6.00E-01	6.00E-01
	Chrysene	-	-	9.21E-03	ca	2.89E+02	ca	6.21E+01	ca	8.00E+00	1.60E+02	7.70E+01
	Dibenz(a,h) anthracene	-	-	9.21E-06	ca	2.89E-01	ca	6.21E-02	ca	8.00E-02	2.00E+00	3.00E+01
	Dibutyl phthalate			*3.60E+03*	*nc*	*8.80E+04*	*nc*	*6.10E+03*	*nc*	*3.00E+02*	*2.00E+03*	*4.70E+01*
	Fluoranthene	-	-	1.46E-01	nc	3.01E+03	nc	2.29E+02	nc	2.10E+02	4.30E+03	1.20E+03
	Fluorene	-	-	2.43E-02	nc	3.31E+03	nc	2.64E+02	nc	2.80E+01	5.60E+02	1.60E+02
	Indeno(1,2,3-cd)pyrene	-	-	9.21E-05	ca	2.89E+00	ca	6.21E-01	ca	7.00E-01	1.40E+01	2.80E+01
	Isopropylbenzene			6.60E+02	nc	5.20E+02	nc	1.60E+02	nc			2.00E-01
	Methyl ethyl ketone			1.90E+03	nc	2.80E+04	nc	7.30E+03	nc			
	Naphthalene	-	-	6.20E-04	nc	1.89E+01	nc	5.59E+00	nc	4.00E+00	8.40E+01	1.70E+00
	Phenanthrene	-	-	-	-	-	-	-	-	-	-	2.50E+02
	Pyrene	-	-	1.83E-02	nc	5.42E+03	nc	2.31E+02	nc	2.10E+02	4.20E+03	8.80E+02
Pesticides	Aldrin			4.00E-03	ca	1,5E-01	ca	2.90E-02	ca	6.00E+02	1.20E+04	5.00E-01
	BHC-alpha	-	-	1.07E-05	ca	5.94E-01	ca	9.02E-02	ca	3.00E-05	5.00E-04	3.00E-04
	BHC-beta	-	-	3.74E-05	ca	2.08E+00	ca	3.16E-01	ca	1.00E-04	3.00E-03	1.00E-03
	BHC-delta	-	-	-	-	-	-	-	-	-	-	2.00E-01
	BHC-gamma (Lindane)	0.0002	0.0002	5.17E-05	ca	2.88E+00	ca	4.37E-01	ca*	5.00E-04	9.00E-03	9.00E-03
	Chlordane, alpha [1]	zero	0.002	1.92E-04	ca*	1.07E+01	ca*	1.62E+00	ca*	5.00E-01	1.00E+01	9.60E+00
	Chlordane, gamma [1]	zero	0.002	1.92E-04	ca*	1.07E+01	ca*	1.62E+00	ca*	5.00E-01	1.00E+01	9.60E+00
	Chlordane, technical [1]	zero	0.002	1.92E-04	ca*	1.07E+01	ca*	1.62E+00	ca*	5.00E-01	1.00E+01	9.60E+00
	DDD, 4,4'-	-	-	2.80E-04	ca	1.71E+01	ca	2.44E+00	ca	8.00E-01	1.60E+01	4.00E+00
	DDE, 4,4'-	-	-	1.98E-04	ca	1.21E+01	ca	1.72E+00	ca	3.00E+00	5.40E+01	1.80E+01
	DDT, 4,4'-	-	-	1.98E-04	ca*	1.21E+01	ca*	1.72E+00	ca*	2.00E+00	3.20E+01	1.10E+01
	Dieldrin	-	-	4.20E-06	ca	1.54E-01	ca	3.04E-02	ca	2.00E-04	4.00E-03	4.00E-03
	Endosulfan I [2]	-	-	2.19E-02	nc	5.29E+02	nc	3.67E+01	nc	9.00E-01	1.80E+01	3.80E+00
	Endosulfan II [2]	-	-	2.19E-02	nc	5.29E+02	nc	3.67E+01	nc	9.00E-01	1.80E+01	3.80E+00
	Endosulfan [2]	-	-	2.19E-02	nc	5.29E+02	nc	3.67E+01	nc	9.00E-01	1.80E+01	3.80E+00
	Endosulfan sulfate	-	-	-	-	-	-	-	-	-	-	-
	Heptachlor	zero	0.0004	1.49E-05	ca	5.48E-01	ca	1.08E-01	ca	1.00E+00	2.30E+01	2.30E+01
	Heptachlor epoxide	zero	0.0002	7.39E-06	ca*	2.71E-01	ca*	5.34E-02	ca*	3.00E-02	7.00E-01	6.00E-01

3 10 0528

Appendix E

Chemical-specific Screening Threshold Criteria for Human Health Risk Assessment

City of Jacksonville Ash Disposal Sites

		Groundwater PRGs				Soil PRGs						
		Drinking Water Standards		(Tap Water)		Industrial		Residential		migraton	GW Migraton	Leachability Values
Group	Chemical Name	MCLG (mg/L)	MCL (mg/L)	mg/L	Basis	mg/kg	Basis	mg/kg	Basis	mg/kg (DAF 1)	mg/kg (DAF 20)	mg/kg
	Methoxychlor	0.04	0.04	1.82E-02	nc	4.40E+02	nc	3.06E+01	nc	8.00E+00	1.60E+02	1.60E+02
	Toxaphene	zero	0.003	6.11E-05	ca	2.24E+00	ca	4.42E-01	ca	2.00E+00	3.10E+01	3.10E+01
PCBs	Aroclor-1016	zero	0.0005	9.60E-04	ca	2.87E+01	ca**	3.93E-01	nc	-	-	1.70E+01
	Aroclor-1221	zero	0.0005	3.36E-05	ca	1.00E+00	ca	2.22E-01	ca	-	-	1.70E+01
	Aroclor-1232	zero	0.0005	3.36E-05	ca	1.00E+00	ca	2.22E-01	ca	-	-	1.70E+01
	Aroclor-1242	zero	0.0005	3.36E-05	ca	1.00E+00	ca	2.22E-01	ca	-	-	1.70E+01
	Aroclor-1248	zero	0.0005	3.36E-05	ca*	1.00E+00	ca	2.22E-01	ca	-	-	1.70E+01
	Aroclor-1254	zero	0.0005	3.36E-05	ca	1.00E+00	ca*	2.22E-01	ca**	-	-	1.70E+01
	Aroclor-1260	zero	0.0005	3.36E-05	ca*	1.00E+00	ca	2.22E-01	ca	-	-	1.70E+01
Dioxins	2,3,7,8-TCDD	zero	3E-08	4.48E-10	ca	2.73E-05	ca	3.90E-06	ca	-	-	3.00E-03
Other	TPH	-	-	-	-	-	-	-	-	-	-	3.40E+02

The risk-based cocnentrations are based on an hazard quotient (HQ) of 0.1 and an excess lifetime cancer risk (ELCR) of 10-6

[1] Chlordane is a mixture of alpha and gamma chlordane. The values for chlordane are used as surragotes for alpha and gamma chlordane.
[2] Endosulfan is a mixture of Endosulfan I and II. The values for Endosulfan are used as surrogates for Endosulfan I and II.

* lead action level = 0.015 mg/L
** = Secondary MCL

ca = cancer
nc = noncancer
ca* = where nc<100x ca
ca** = where nc<10x ca
sat = saturation
max = ceiling limit
DAF dilution factor
PRG Preliminary remediation goal
ARARs Applicable, relevant, and appropriate requirements
MCL Maximum contaminant level
MCLG Maximum contaminant level goal

N No toxicity value available for calculations
- No value listed
SL Screening level

Sources:
MCLGs and MCLs are from the EPA Office of Water Drinking Water and Health Advisories website:
http://www.epa.gov/OST/Tools/dwstds.html
Reg. IX values are from the EPA Reg. IX PRG table located at:
http://www.epa.gov/region09/waste/sfund/prg/s1_01.htm

3 10 0529

Appendix E

Chemical-specific Screening Threshold Criteria for Ecological Risk Assessment

City of Jacksonville Ash Disposal Sites

Group	Chemical Name	Sediment Protection of Aquatic Life (mg/kg) [1] [3] [4]	Soil (mg/kg) [5] [6] [7] [8] [9] [10] [11]	Surface Water (freshwater) Protection of Aquatic Life	
				Chronic (µg/L) (CCC)	Acute (µg/L) (CMC)
Metals	Aluminum		50	87* (pH 6.5-9.0)	750* (pH6.5-9.0)
	Antimony	12	3.5	160 (2s)	1300 (2s)
	Arsenic	7.24	10	190*	360*
	Barium		165		
	Beryllium		1.1	0.53 (1s)	16 (6s)
	Cadmium	1	1.6	0.66* [12]	1.79* [12]
	Chromium III			117.32* [12]	984.32* [12]
	Chromium VI			11*	16*
	Chromium (total?)	52.3	0.4		
	Cobalt		20		
	Copper	18.7	40	6.54* [12]	9.22* [12]
	Cyanide		5 (total)	5.2*	22*
	Iron		200	1000*	-
	Lead	30.2	50	1.32* [12]	33.78* [12]
	Manganese		100		
	Mercury	0.13	0.1 (inorganic)	0.012* [13]	2.40*
	Nickel	15.9	30	87.71* [12]	789.00* [12]
	Selenium		0.81	5.00*	20.00*
	Silver	2	2	0.012(1s) [12]	1.23* [12]
	Thallium		1	4.00 (2s)	140.00(3s)
	Vanadium		2		
	Zinc	124	50	58.91* [12]	65.04* [12]
Volatiles	1,1-Dichloroethene			303	3030 (3s)
	1,2-Dichloroethene (total)				
	Benzene		0.05	53	530 (7s)
	Ethylbenzene		0.05	453	4530 (5s)
	Tetrachloroethene		0.01	84 (1s)	528 (5s)
	Toluene		0.05	175	1750 (5s)
	Trichloroethene		0.001		
	Vinyl chloride		0.01		
	Xylene (total)		0.05		
Semi-Volatiles	2-methylnaphthalene	0.33			
	2-Methylphenol				
	3 and 4-Methylphenol				
	Anthracene	0.33	0.1		

3 10 0530

Appendix E
Chemical-specific Screening Threshold Criteria for Ecological Risk Assessment
City of Jacksonville Ash Disposal Sites

Group	Chemical Name	Sediment Protection of Aquatic Life (mg/kg) [1] [3] [4]	Soil (mg/kg) [5] [6] [7] [8] [9] [10] [11]	Surface Water (freshwater) Protection of Aquatic Life Chronic (µg/L) (CCC)	Acute (µg/L) (CMC)
	Benzo(a)anthracene	0.33			
	Benzo(a)pyrene	0.33	0.1		
	Benzo(b)fluoranthene	0.65 [2]			
	Benzo(g,h,i)perylene	0.65 [2]			
	Benzo(k)fluoranthene	0.65 [2]			
	Carbazole				
	Chrysene	0.33			
	Dibenz(a,h) anthracene	0.33			
	Fluoranthene	0.33	0.1	39.8	398(2s)
	Fluorene	0.33	30		
	Indeno(1,2,3-cd)pyrene	0.65 [2]			
	Naphthalene	0.33	0.1	62(1s)	230(4s)
	Phenanthrene	0.33	0.1		
	Pyrene	0.33	0.1		
Pesticides	BHC-alpha		0.0025	500 [14]	-
	BHC-beta		0.001	5000 [14]	-
	BHC-delta				
	BHC-gamma (Lindane)	0.0033	0.00005	0.08*	2*
	Bis(2-ethylhexyl)phthalate	0.182			
	Chlordane, alpha	0.0017		0.0043*[13]	2.4*
	Chlordane, gamma	0.0017		0.0043*[13]	2.4*
	Chlordane, technical	0.0017		0.0043*[13]	2.4*
	DDD, 4,4'-	0.0033	total for DDD, DDE, DDT: 0.0025	0.0064	0.064(8s)
	DDE, 4,4'-	0.0033		10.5	105(1s)
	DDT, 4,4'-	0.0033		0.001*	1.1*
	Dieldrin	0.0033	0.0005	0.0019* [13]	2.5*
	Endosulfan I (alpha)			0.056*	0.22*
	Endosulfan II (beta)			0.056*	0.22*
	Endosulfian sulfate				
	Endrin	0.0033			
	Heptachlor	0.01 [15]		0.0038* 13]	0.52*
	Heptachlor epoxide	0.0006 [15]		0.0038* [13]	0.52*
	Methoxychlor			0.03*	-
	Toxaphene			0.0002* [13]	0.73*
PCBs	Aroclor-1016			0.014*	0.2(7s)

3 10 0531

	Aroclor-1221	0.067		0.014*	0.2(7s)
	Aroclor-1232			0.014*	0.2(7s)
	Total PCBs	0.033			

Appendix E

Chemical-specific Screening Threshold Criteria for Ecological Risk Assessment

City of Jacksonville Ash Disposal Sites

Group	Chemical Name	Sediment Protection of Aquatic Life (mg/kg) [1] [3] [4]	Soil (mg/kg) [5] [6] [7] [8] [9] [10] [11]	Surface Water (freshwater) Protection of Aquatic Life	
				Chronic (µg/L) (CCC)	Acute (µg/L) (CMC)
	Aroclor-1242			0.014*	0.2(7s)
	Aroclor-1248			0.014*	0.2(7s)
	Aroclor-1254			0.014*	0.2(7s)
	Aroclor-1260			0.014*	0.2(7s)
Dioxins	2,3,7,8-TCDD	2.50E-06		0.00001[3]	0.1
Other	TPH				

Source: Except where noted, all values are from EPA Region 4 Ecological Risk Assessment Bulletins--Supplement to RAGS, August 11, 1999 website: www.epa.gov/region04/wastepgs/oftecser/ecolbul.htm

Hardness (mg/L as CaCO3): 50.0
pH: 6
*: Criteria
s: Number of Species

[1] Low MW (<200) PAHs = 0.33; high MW (>200) = 0.65; total PAHs = 1.684
[2] Surragote value assigned based on MW (see [1])
[3] Technical chlordane is a mixture of alpha and gamma chlordane. The values for technical chlordane are used as surrogates for alpha and gamma chlordane
[4] Total PCBs = 0.033
[5] Total PAHs = 1.0
[6] Total chlorinated hydrocarbons = 0.1
[7] Total PCBs = 0.02
[8] Total polycyclic chlorinated hydrocarbons = 0.1
[9] Aliphatic chlorinated hydrocarbons (each) = 0.1; (total) = 0.1
[10] Organochlorinated pesticides (each) = 0.1; (total) = 0.1
[11] Total pesticides = 0.1
[12] Hardness Dependent Based on the following equations:

Compound	Acute Screening Value	Chronic Screening Value
Cadmium	e(1.128(lnH)-3.828)	e(0.7825(lnH)-3.49)
Chromium III	e(0.819(lnH)+3.688)	e(0.819(lnH)+1.561)
Copper	e(0.9422(lnH)-1.464)	e(0.8545(lnH)-1.465)
Lead	e(1.273(lnH)-1.46)	e(1.273(lnH)-4.705)
Nickel	e(0.846(lnH)+3.3612	e(0.846(lnH)+1.1645)
Silver	e(1.72(lnH)-6.52)	
Zinc	e(0.8473(lnH)+0.8604)	e(0.8473(lnH)+0.7614)

3 10 0532

[13] Based on the marketability of fish. The use of other values which may have greater ecological significance may be considered.
[14] Lowest plant value reported
[15] Taken from NOAA Screening Quick Reference Table, September 1999

3 10 C534

Appendix F

BACKGROUND DETERMINATION

BACKGROUND SOIL SAMPLE CONCENTRATIONS
BROWN'S DUMP SITE AND JACKSONVILLE ASH SITE

Introduction

Many of the contaminants of concern (COCs) for soils at the ash sites are metals and other inorganic chemicals that are naturally occurring in the environment. Some of the COCs are organic chemicals that are also naturally occurring. For example, PAHs occur in decaying plant material, and petroleum hydrocarbon types of chemicals are part of natural formations in the deep subsurface environment. In an urban environment, other anthropogenic chemicals are known to be ubiquitous e.g., dioxins from aerial deposition and PAHs from asphalt-paved roads, vehicle exhaust systems, and railroad tracks. The background may also reflect chemicals from other activities that are present but not related to activities at the ash disposal sites, such as organo-chlorine pesticides.

As part of the remedial investigations conducted in 2000 for the Brown's Dump Site and the Jacksonville Ash Site, background surface soil samples were collected at a total of 60 locations. These background locations were sufficiently distant from the ash sites to be unaffected and had no visible ash. The locations were selected based on information regarding former and current land usage, an aerial photograph review, and existing soil analytical data. Areas with known or potential contamination were avoided. The 60 background locations, primarily on public property including schools and parks, were sampled and analyzed for TAL, TCL and dioxin screening. Five surface soil samples were also analyzed for laboratory dioxins by Method 8290. In addition subsurface soils were also sampled at several of the background locations and analyzed for TAL, TCL and dioxin screening.

For each surface soil location, a central boring was conducted to the water table and samples were taken at six-inch intervals for visual ash and XRF lead measurements. Four additional 2-ft borings were conducted approximately four feet diagonally from the central boring, and samples taken at 6-inch intervals for visual ash and XRF lead measurements. Locations with no visual ash and low XRF lead were sampled as follows:

- For surface soils, five samples were collected at each boring location at 0-6 inches and composited.
- For subsurface soils, a soil sample was collected at the central boring at a depth just above the water table (approximately 3 – 4 feet).

Included in this submittal are the following :

- A description and photograph of each of the 60 soil background locations
- The calculated background surface soil and subsurface soil concentrations for each contaminant of concern (COC)

- A comparison of each calculated background soil concentration to human health RGOs, Ecological PRGs, EPA Region IX Residential Exposure, FDEP Soil Cleanup Target Levels (SCTLs) for Residential Exposure, EPA Region IX GW Migration, and FDEP GW Leachability SCTLs.

Methodology for Calculating Soil Background Concentrations

During a conference call between EPA, FDEP, the City of Jacksonville and CH2M HILL on July 1, 2002, the following methodology was agreed upon for the calculation of soil background values:

- Background soil concentrations will be calculated for all COCs for the four ash sites
- The data from the 60 background locations will be combined and an arithmetical mean will be calculated for each COC.
- The background concentration for each COC will be calculated as twice the arithmetical mean of each COC
- For parameters that are undetected, half the method detection limit for that parameter will be used in calculating the arithmetical mean.

July 2002 Field Reconnaissance

A field reconnaissance of the sixty sites where background samples were collected during the summer of 2000 was conducted on July 19, 23, 24, 2002. The purpose was to determine the distance from the sample boring to asphalt. The sites were located using field notes together with latitude and longitude coordinates of the former borings. A Magellan GPS Blazer 12 was used to locate the coordinates. A flag was positioned and staked at the former boring location. The distance between the flag and the nearest asphalt was measured. A digital photograph was taken of the site.

The soil background locations are shown on the figures in Attachment A. A description of each of the sixty background soil locations is included in Attachment B; while photographs of each background soil location are included in Attachment C.

Contaminants of Concern

The COCs were taken from the remedial goal options (RGOs) developed in the human health baseline risk assessment and the preliminary remediation goals (PROs) developed in the ecological baseline risk assessment conducted by EPA for each of the four ash sites. The combined list of COCs is summarized below:

Inorganic COC, mg/Kg	Organic COC, ug/Kg
Aluminum	Aldrin

Table 1
Soil Background Concentrations

Chemical of Concern	Surface Soil Background mg/kg	Subsurface Soil Background mg/kg	Hazard Index a. mg/kg 0.1	1	3	Carcinogenic Risk a. mg/kg 10-6	10-5	10-4	Ecological PRGs mg/kg	Florida Residential SCTLs mg/kg	Florida GW Leachability mg/kg	EPA Region IX GW Migration (DAF 20) mg/kg
Aluminum	3,365	7,151	6,990	69,900	209,700	-	-	-	600	72,000	-	-
Antimony	0.68	0.5	2.9	29	87	-	-	-	5	26	5.00	5.00
Arsenic	1.21	0.65	2.3	23	69	0.59	5.9	59	-	0.8	29.00	29.00
Barium	34.65	20.14	496	4,960	14,880	-	-	-	-	110	1,600	1,600
Cadmium	0.36	0.09	3.5	35	105	-	-	-	-	75	8.00	8.00
Chromium	12.06	6.82	21.1	211	633	-	-	-	-	210	-	38.00
Copper	14.83	0.85	281	2,810	8,430	-	-	-	61	110	-	-
Iron	2,900	2,971	2,105	21,050	83,150	-	-	-	200	23,000	-	-
Lead	84.9	8.23	-	-	-	-	-	-	400 a.	400	-	-
Manganese	46.41	10.40	479	4,790	14,370	-	-	-	-	1,600	-	-
Mercury	0.12	0.028	0.7	7	21	-	-	-	0.012 a.	3.4	2.10	-
Nickel	3.16	1.79	-	-	-	-	-	-	-		130	130
Thallium	0.20	0.20	-	-	-	-	-	-	-		-	0.70
Vanadium	9.29	8.60	43	430	1,290	-	-	-	-	15	980	6000
Zinc	107.17	15.26	2,121	21,210	63,630	-	-	-	200	23,000	6,000	12,000
Benzo(a)anthracene	0.41	0.07	-	-	-	-	-	-	-	1.4	3.20	2.00
Benzo(a)pyrene	0.49	0.11	-	-	-	0.07	0.7	7	-	0.1	8.00	8.00
Benzo(b)fluoranthene	0.47	0.07	-	-	-	-	-	-	-	1.4	10.00	5.00
Benzo(k)fluoranthene	0.43	0.10	-	-	-	-	-	-	-	15	25.00	49.00
Chrysene	0.5	0.09	-	-	-	-	-	-	-	140	77.00	160
Dibenz(a,h) anthracene	0.08	0.08	-	-	-	-	-	-	-	0.1	30.00	2.00
Indeno(1,2,3-cd)pyrene	0.32	0.10	-	-	-	-	-	-	-	1.5	28.00	14.00
Carcinogenic PAHs	0.69	0.22	-	-	-	0.07	0.7	7	-	-	-	-
Aldrin	0.001	0.0002	-	-	-	0.04	0.4	4	-	0.07	0.50	12,000
DDT, 4,4'-	0.003	0.0004	-	-	-	NC	NC	NC	17.5 a.	3.3	11.00	32.00
Dieldrin	0.004	0.0002	-	-	-	0.04	0.4	4	-	0.07	0.004	0.40
Gamma-Chlordane	0.004	0.0002	2.7	2.7	81	1.85	18.5	185	-	-	9.60	10.00
Heptachlor	0.0004	0.0002	-	-	-	-	-	-	-	-	23.00	23.00
Heptachlor Epoxide	0.002	0.0001	-	-	-	-	-	-	-	-	0.60	0.70
Arochlor-1016	0.006	0.006	-	-	-	-		--	-	-	17.00	-
Arochlor-1254	0.008	0.008	-	-	-	--	-	-	-	-	17.00	-
Aroclor-1260	0.006	0.008	-	-	-	0.26	2.6	26	-	0.5	17.00	-

a. Source: Black and Veatch Special Projects Corporation, May 2002, Draft Revision 2 Baseline Risk Assessment Brown's Dump Site.

3 10 0538

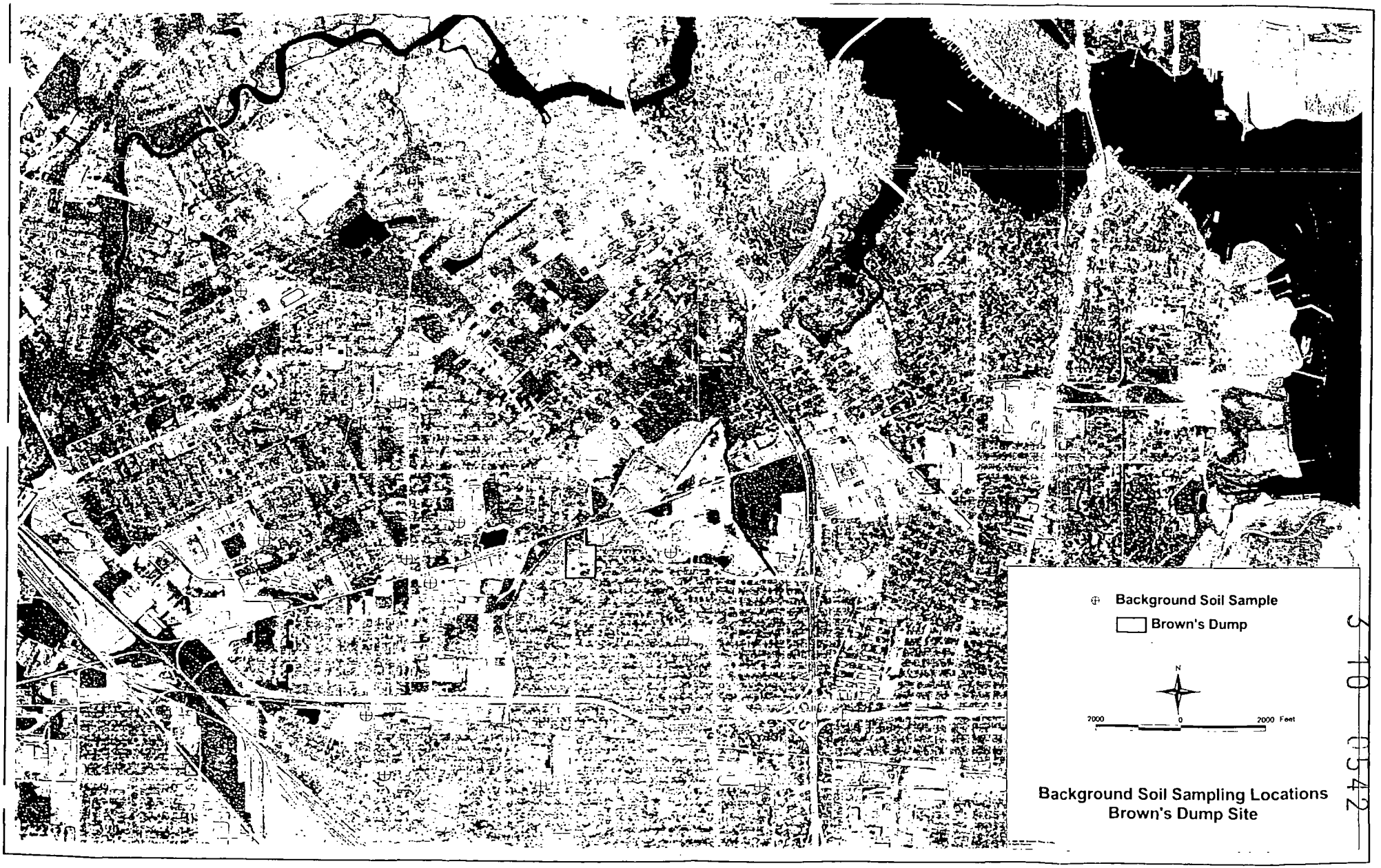
CALCULATION OF CPAH SOIL BACKGROUND CONCENTRATION
BROWN'S DUMP SITE AND JACKSONVILLE ASH SITE
SURFACE SOIL

CPAH	Mean, mg/Kg	TEF	BaP Equivalent	Twice Mean BaP Eq
Benzo(a)Pyrene	0.245	1	0.245	0.49
Benzo(a)Anthracene	0.205	0.1	0.021	0.041
Benzo(b)Fluoranthene	0.235	0.1	0.024	0.047
Benzo(k)Fluoranthene	0.215	0.01	0.002	0.004
Chrysene	0.25	0.001	0.00025	0.0005
Dibenz(a,h)Anthracene	0.04	1	0.04	0.08
Indeno(c,d)1,2,3-Pyrene	0.155	0.1	0.0155	0.031
CPAH Background				**0.6935**

CALCULATION OF CPAH SOIL BACKGROUND CONCENTRATION
BROWN'S DUMP SITE AND JACKSONVILLE ASH SITE
SUBSURFACE SOIL

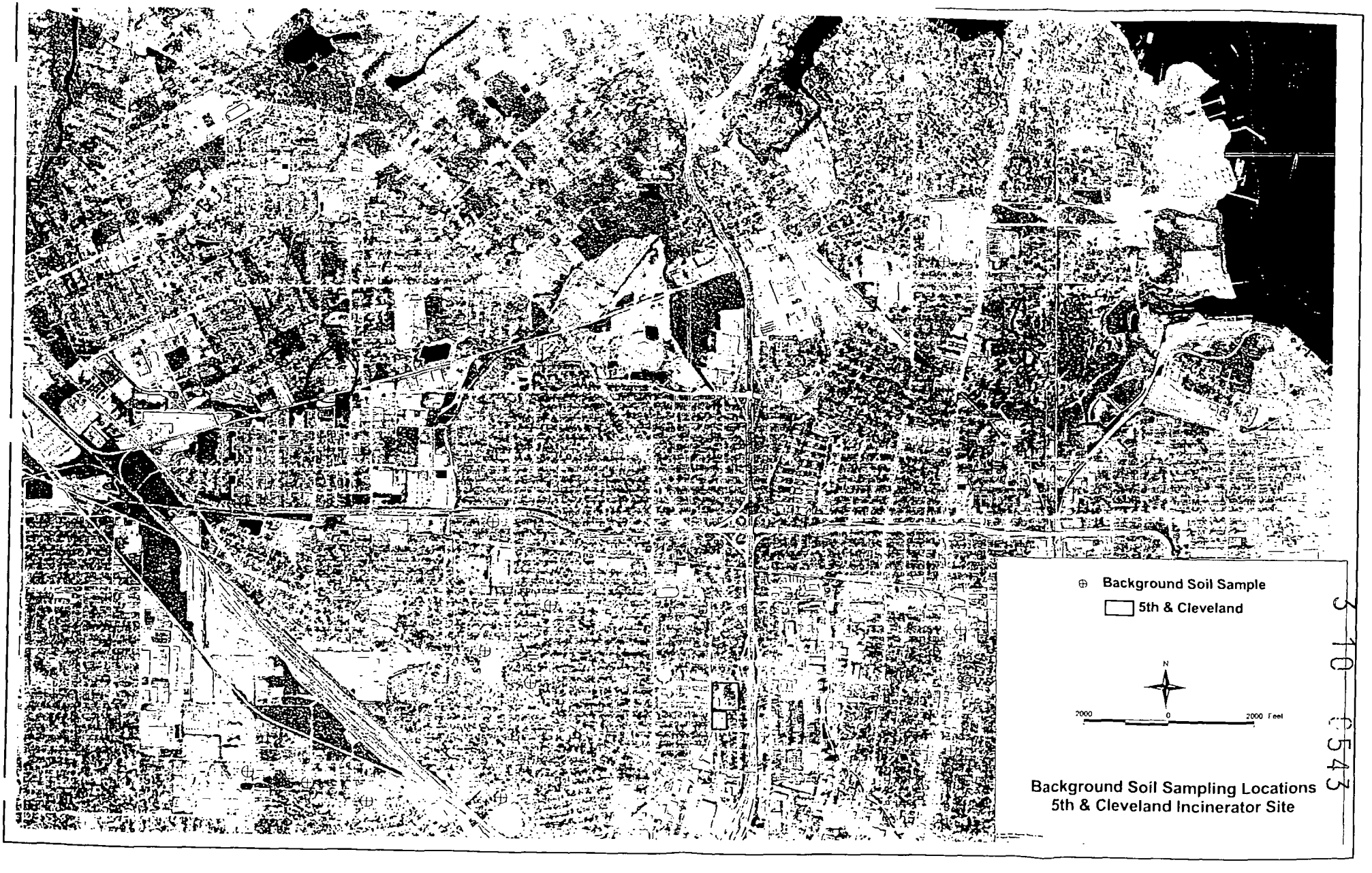
CPAH	Mean, mg/Kg	TEF	BaP Equivalent	Twice Mean BaP Eq
Benzo(a)Pyrene	0.053	1	0.053	0.106
Benzo(a)Anthracene	0.035	0.1	0.0035	0.007
Benzo(b)Fluoranthene	0.034	0.1	0.0034	0.0068
Benzo(k)Fluoranthene	0.049	0.01	0.00049	0.00098
Chrysene	0.047	0.001	0.000047	0.000094
Dibenz(a,h)Anthracene	0.04	1	0.04	0.08
Indeno(c,d)1,2,3-Pyrene	0.078	0.1	0.0078	0.0156
CPAH Background				**0.216474**

ATTACHMENT A
SOIL BACKGROUND LOCATIONS



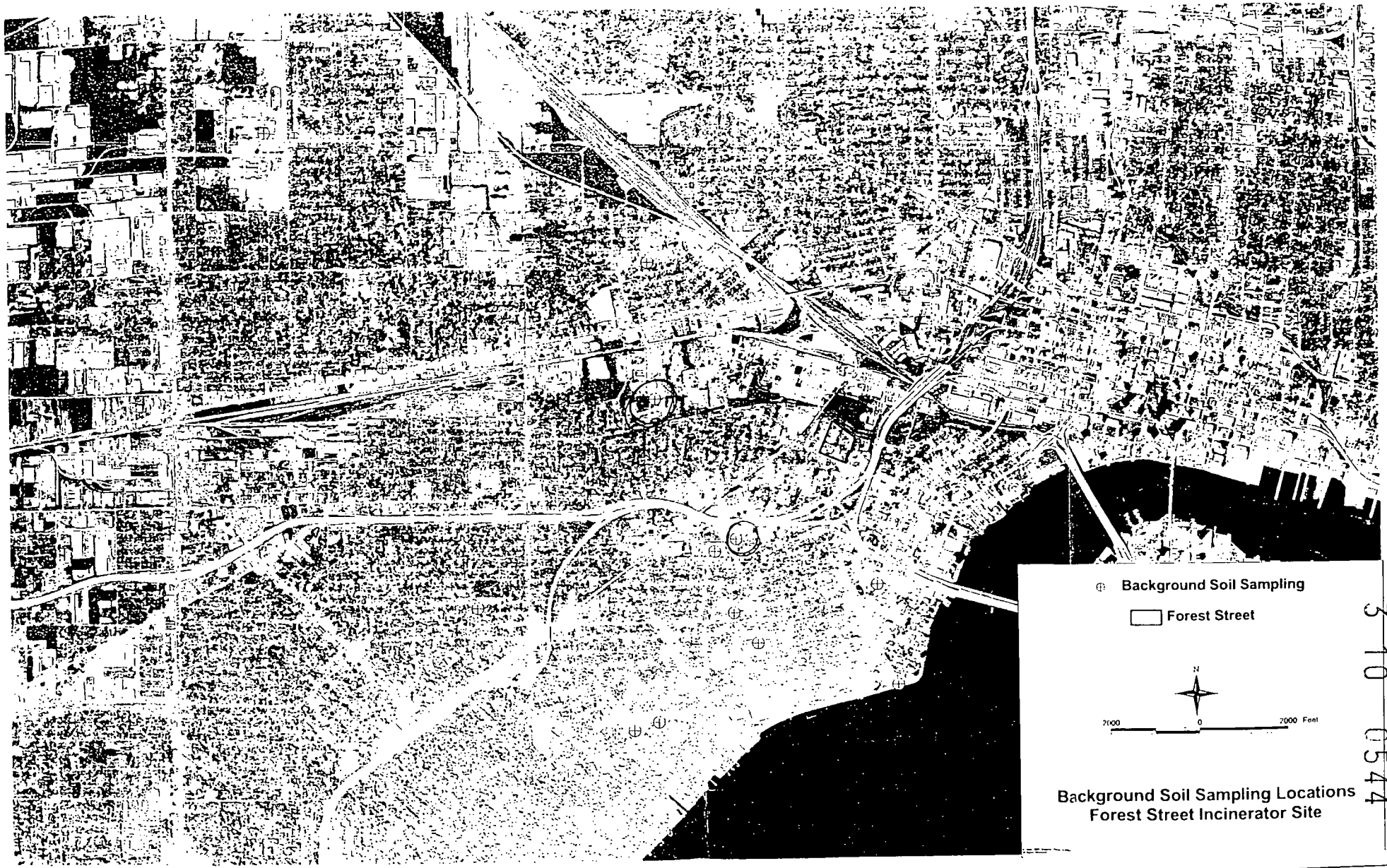
Background Soil Sampling Locations
Brown's Dump Site

3 10 0542



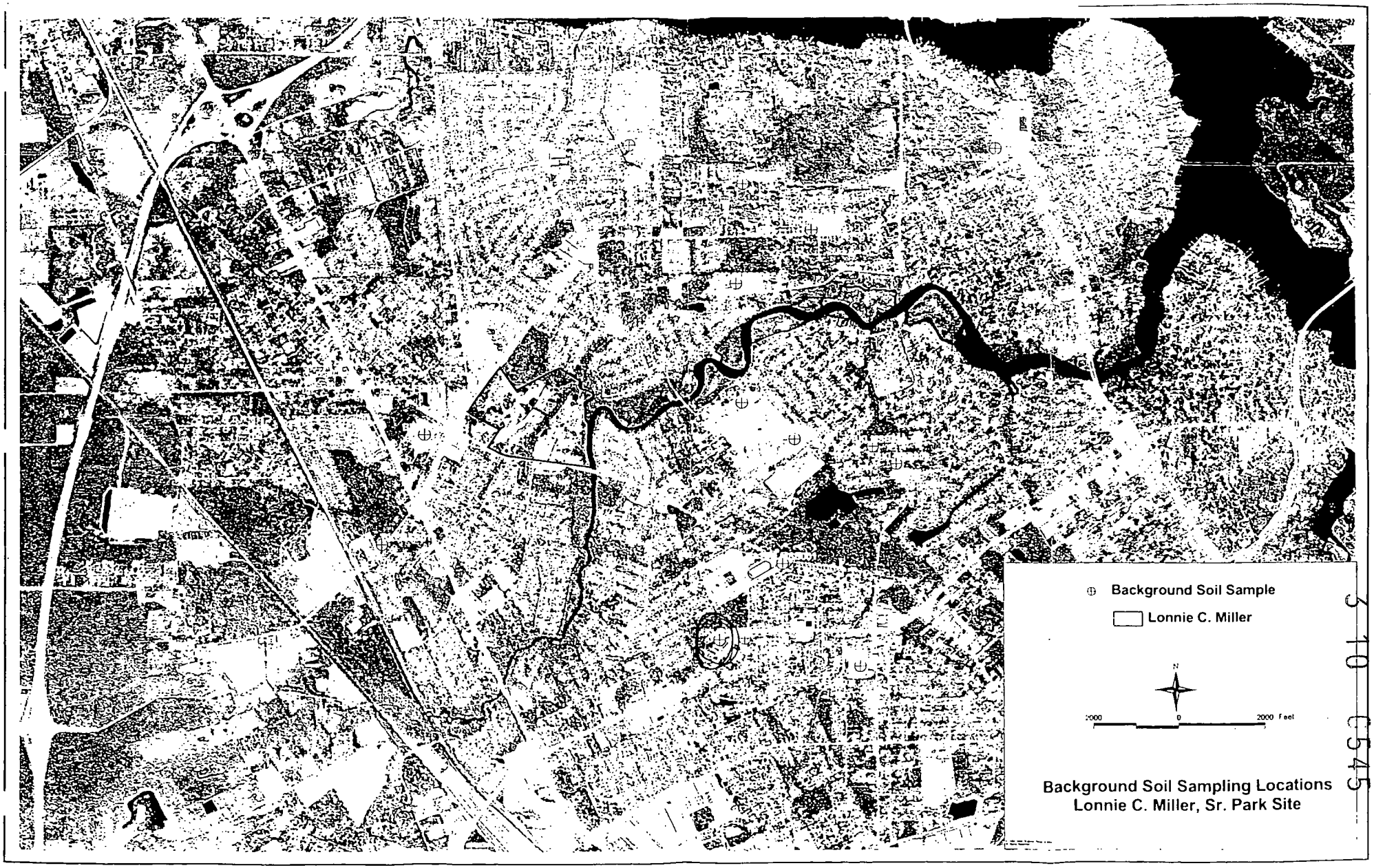
Background Soil Sampling Locations
5th & Cleveland Incinerator Site

3 10 0543



Background Soil Sampling Locations
Forest Street Incinerator Site

3 10 0544



Background Soil Sampling Locations
Lonnie C. Miller, Sr. Park Site

3 10 0545

ATTACHMENT B
SOIL BACKGROUND LOCATION DESCRIPTIONS

Background Sample Locations

Site	Address	Location Commments	Latitude	Longitude	Distance From Nearest Asphalt
Brown's Dump					
BKBDSB001	Carver School 2854 W 45th St 32202-3040	Boring next to playground adjacent to swing sets PUBLIC SCHOOL	30 22 01	81 42 35	15'
BKBDSB002	Grand Park Community Center 2500 20TH ST 32202-3429	PARK/REC	30 21 21	81 42 07	26'
BKBDSB003	Carver Post Office 4160 CANAL ST 32211-5692	FEDERAL	30 21 52	81 41 50	7.5'
BKBDSB004	Northwestern School 2100 W 45th 32207-8182	Boring infront of baseball diamond PUBLIC SCHOOL	30 22 06	81 41 43	>100'
BKBDSB005	Northside Church of Christ 4736 AVENUE B 32209-3098	10 ft from Weaver Rd CHURCH	30 21 57	81 41 57	10'
BKBDSB006	Marion Park 8105 MARION CR 32208-2814	Along Road SINGLE FAMILY	30 23 51	81 40 17	14'

Background Descriptions

Site	Address	Location Commments	Latitude	Longitude	Distance From Nearest Asphalt
BKBDSB007	Emmanuel Missionary Church 2407 DIVISION ST 32209-4564	Adjacent to Chuch CHURCH	30 21 07	81 42 02	14'
BKBDSB008	Clanzel Brown Park 4567 GEORGE R KERNS BV 32202-3429	SE corner of park; E of pool; 100 ft W of E fence COUNTY	30 21 60	81 40 46	>100'
BKBDSB009	Johnson Park 3800 MONCRIEF RD 32202-3429	50 ft from entry by Rd; 12 ft from S fence line; 55-60 ft W of gate PARK/REC	30 21 39	81 40 42	7'
BKBDSB010	Susie Tolber 1925 W 13TH 32207-8182	Adjacent to building PUBLIC SCHOOL Gate locked;no flag in picture. Boring centered approximately between trees in picture.	30 21 05	81 41 20	approximately 40'
BKBDSB011	Stanton High School 1149 W 13TH 32207-8568	Between drive and Road by trees; 15' to asphalt drive, 28 ' to road PUBLIC SCHOOL	30 21 05	81 40 21	15'
BKBDSB012	Brentwood Elementary 3750 SPRINGFIELD	Adjacent to school in park PUBLIC SCHOOL	30 21 44	81 39 47	>100'
BKBDSB013	32207-8182	Behind school in play area PUBLIC SCHOOL	30 22 34	81 42 00	>25'

3 10 548

Background Descriptions

Site	Address	Location Commments	Latitude	Longitude	Distance From Nearest Asphalt
BKBDSB014	Holy Rosary School 4920 BRENTWOOD AV 32241-4000	15 ft E of church; CHURCH	30 22 08	81 39 44	50'
BKBDSB015	Raines High School RAINES AV 32207-8182	Between fence and entrance to school PUBLIC SCHOOL Seven feet to Owen Rd.	30 22 59	81 42 42	7'
5th and Cleveland					
BKFCSB001	Mitchell Park (BROADWAY & ACORN) 32207-8182	JAMES W JOHNSON PUBLIC SCHOOL	30 20 18	81 41 13	25'
BKFCSB002	Edward Waters College 32209-6199	24 ft from tennis courts; PVT SCH/COLL	30 20 45	81 41 05	>100'
BKFCSB003	City of Jax Wastewater Plant 3000 FAIFAX ST 32202-3429	Between plant and road. COUNTY Gate locked; no flag in picture. Boring located in front of palm by second large tree.	30 21 23	81 41 16	>100'
BKFCSB004	3800 MONCRIEF RD 32202-3429	18 ft from gate PARK/REC	30 21 39	81 40 43	>25'

3 10 0549

Background Descriptions

Site	Address	Location Commments	Latitude	Longitude	Distance From Nearest Asphalt
BKFCSB005	13TH ST & GRUTHEL 32202-3429	16 ft from Road; near basketball & tennis courts PARK/REC	30 21 03	81 41 00	16'
BKFCSB006	Northside Church of Christ 4736 AVENUE B 32209-3098	Boring between church and road CHURCH	30 21 55	81 42 02	15'
BKFCSB007	Kirby Smith School 2034 HUBBARD 32207-8182	Between school and parking lot PUBLIC SCHOOL	30 20 59	81 39 09	>100'
BKFCSB008	HUBBARD 7 5TH ST 32207-8182	Between school & road PUBLIC SCHOOL	30 20 30	81 39 12	6'
BKFCSB009	Tallulah Park W 66TH ST 32202-3429	36 feet from tennis courts PARK REC	30 23 12	81 39 31	100'
BKFCSB010	James W Johnson School 1840 9TH ST 32207-8182	Between road & parking lot PUBLIC SCHOOL	30 20 52	81 41 18	16'
BKFCSB011	West Jacksonville Elementary 2115 COMMONWEALTH AV 32207-8182	Central area of school on playground PUBLIC SCHOOL	30 20 16	81 41 49	142'

Site	Address	Location Commments	Latitude	Longitude	Distance From Nearest Asphalt
BKFCSB012	2581 COMMONWEALTH AV 32202-3429	43 ft from surplus building Surplus vehicles COUNTY	30 20 23	81 42 22	>100'
BKFCSB013	Vacant Lot LIVE OAK & DIVISION 32202-3429	Original boring, 08/16/2000, near trees in vacant lot. 07/16/2002, Trees are gone, retention pond occupies former lot. Former boring inside fence. No flag in picture.	30 20 20	81 42 06	>50'
BKFCSB014	Andrew Jackson High School 3816 MAIN ST 32207-8182	Between school and pool/ track PUBLIC SCHOOL	30 21 43	81 39 19	>50'
BKFCSB015	5701 SILVER PZ 32207-8182	Central E of school on playground PUBLIC SCHOOL	30 22 26	81 39 15	30'
Lonnie C. Miller					
BKLMSB001	Raines High School RAINES AV	28 ft from Moncrief Rd by school sign PUBLIC SCHOOL	30 22 59	81 42 22	28'
BKLMSB002	Zion Hope Church 2803 EDGEWOOD AV	CHURCH	30 22 41	81 42 38	17'
BKLMSB003	Samuel Adams School	Between playground and school PUBLIC SCHOOL	30 23 29	81 43 58	>100'

Site	Address	Location Commments	Latitude	Longitude	Distance From Nearest Asphalt
		Gate locked; no flag in picture. Boring between building and play area			
BKLMSB004	Rutledge Elementary 4346 ROANOKE	Near playgroung and ditch by trees PUBLIC SCHOOL	30 24 37	81 43 03	72'
BKLMSB005	Yancey Park	Between basketball & tennis courts PARK/REC	30 24 18	81 42 14	>50'
BKLMSB006	Martin Luther King 8801 LAKE PLACID	On playgroung, boring next to bench PUBLIC SCHOOL	30 24 04	81 42 34	>200'
BKLMSB007	Ribalt Middle School 3610 RIBALT SCENIC DR	20 ft E of school, N of Basketball courts PUBLIC SCHOOL	30 23 37	81 42 32	>1,000'
BKLMSB008	Sally Malhis School 3510 WINTON	In fenced playground N of lot and adjacent to the building PUBLIC SCHOOL	30 23 29	81 42 18	41'
BKLMSB009	Mark Baptist Church 6538 RESTLAWN	Between church and Audrey RD CHURCH	30 23 22	81 41 51	17'
BKLMSB010	Carver School 2854 W 45TH ST	N of building and courts on playground PUBLIC SCHOOL	30 22 36	81 42 01	12'
BKLMSB011	St. Paul Luthern Church EDGEWOOD	Between church and Edgewood CHURCH	30 22 41	81 42 31	17'

Background Descriptions

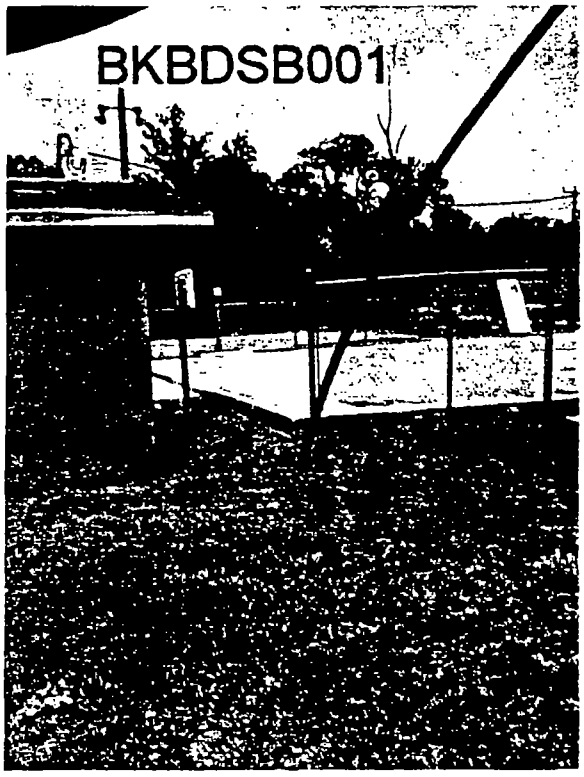
Site	Address	Location Commments	Latitude	Longitude	Distance From Nearest Asphalt
BKLMSB012	Church of God 5755 SOUTEL DR	SE corner of property CHURCH	30 23 03	81 44 09	27'
BKLMSB013	Vacant Lot 9220 RIDGE BV	On back section of lot SINGLE FAMILY	30 24 28	81 42 32	>50'
BKLMSB014	Vacant Lot RESTLAWN & VANGUNDY	30 ft N of RD, NW corner of woods, N side of Vangundy VACANT RES	30 23 27	81 41 58	30'
BKLMSB015	Kite Elementary School 9430 LEM TURNER	PUBLIC SCHOOL	30 24 37	81 41 25	30'
Forest Street					
BKFSSB001	John Lorrie Junior High COLLEGE & STOCKTON	Between school and RD PUBLIC SCHOOL	30 18 53	81 41 26	39'
BKFSSB002	West Riverside Elementary HERSHEL PARK	Between building and playground PUBLIC SCHOOL	30 18 29	81 41 46	21'
BKFSSB003	Willow Run Library 1420 CHERRY ST	Between building and street MOBILE HOME	30 18 26	81 41 52	38'
BKFSSB004	School Admin Building	Between building and street; PUBLIC SCHOOL	30 19 42	81 41 47	80'
BKFSSB005	Woodstock Park	In picnic area	30 19 49	81 42 57	73'

Site	Address	Location Commments	Latitude	Longitude	Distance From Nearest Asphalt
	2839 BEAVER ST	PARK/REC			
BKFSSB006	Paxon High School 3276 NORMAN E THAGARD BV	Between body shop & classrooms PUBLIC SCHOOL	30 20 43	81 43 28	82'
BKFSSB007	W Jackson Elementary 2115 COMMONWEALTH AV	Between Road & school PUBLIC SCHOOL	30 20 13	81 41 48	20'
BKFSSB008	Plam Ave Elementary 1301 WEST PALM	Between Road & school PUBLIC SCHOOL Gate locked; no flag in picture. Boring near fern past first center tree	30 20 32	81 43 44	>100'
BKFSSB009	2345 STOCKTON ST Fire House Rosselle Rd	Between road & station COUNTY	30 19 09	81 41 25	10.5'
BKFSSB010	Good Shepard Church 1100 STOCKTON ST	Beside Road and Building CHURCH	30 18 46	81 41 20	10.5'
BKFSSB011	Riverside Park	15 ft from Park St PARK/REC	30 18 60	81 40 48	15'
BKFSSB012	Vacant Lot 6TH & MELSON	CHURCH	30 20 41	81 43 19	58'
BKFSSB013	Powers Park 3113 PLUM ST	150 ft E of Day St in park PARK/REC	30 18 55	81 42 32	113'

Background Descriptions

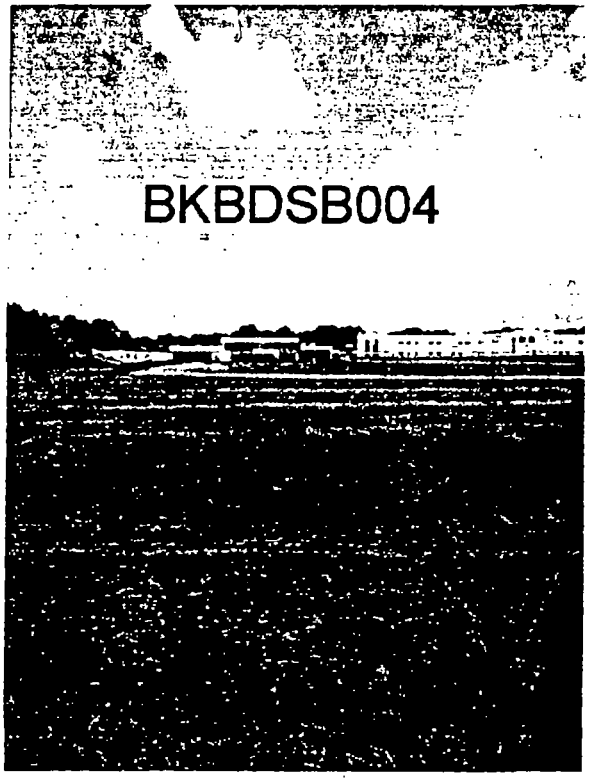
Site	Address	Location Commments	Latitude	Longitude	Distance From Nearest Asphalt
BKFSSB014	Central River Elementary School 2509 GILMORE ST	Adjacent to building and playground PUBLIC SCHOOL	30 19 07	81 41 31	83'
BKFSSB015	Memorial Park	Between river and Riverside Rd PARK/REC	30 18 37	81 40 43	86'

ATTACHMENT C
SOIL BACKGROUND LOCATION PHOTOGRAPHS


BKBDSB001

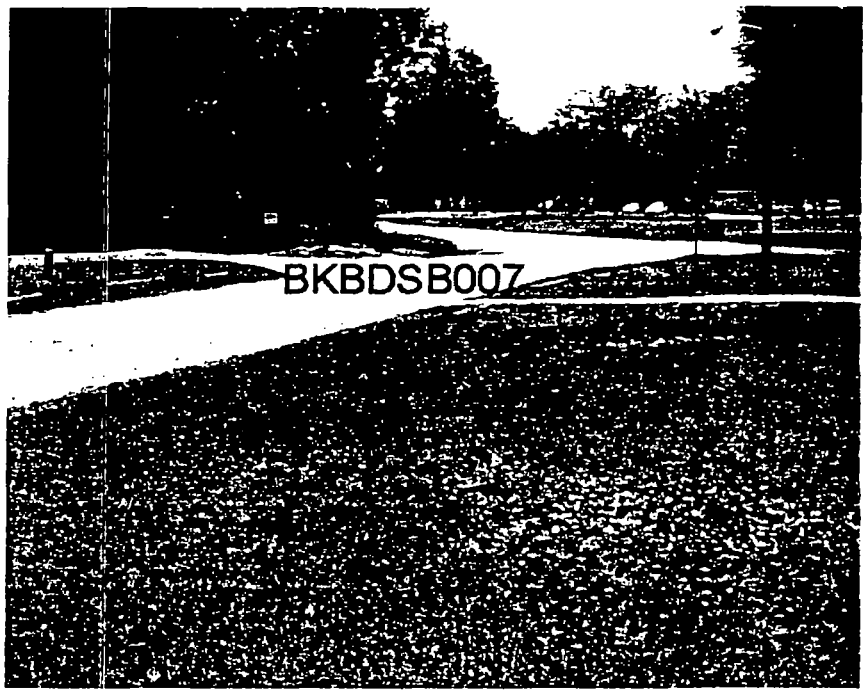
BKBDSB002

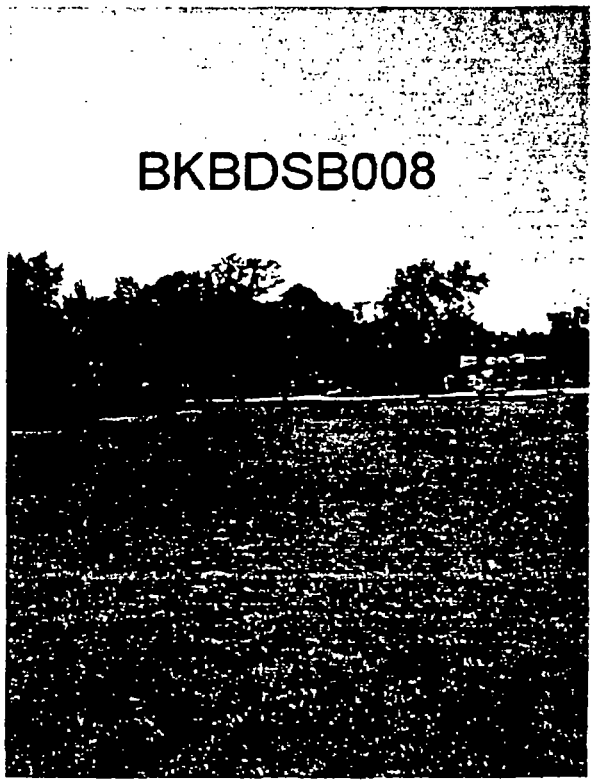
BKBDSB003


BKBDSB004

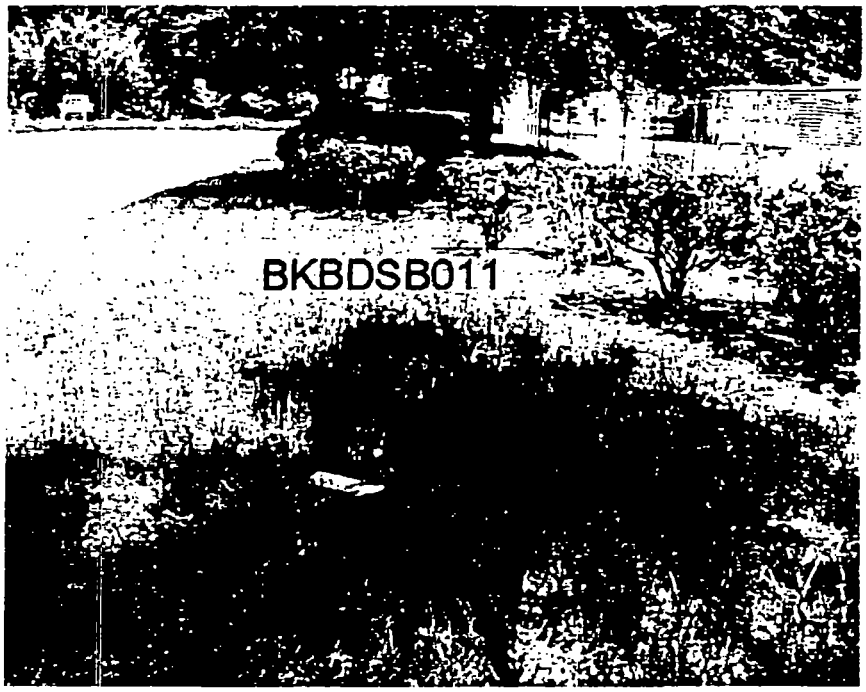
STOP
BKBDSB005

BKBDSB006

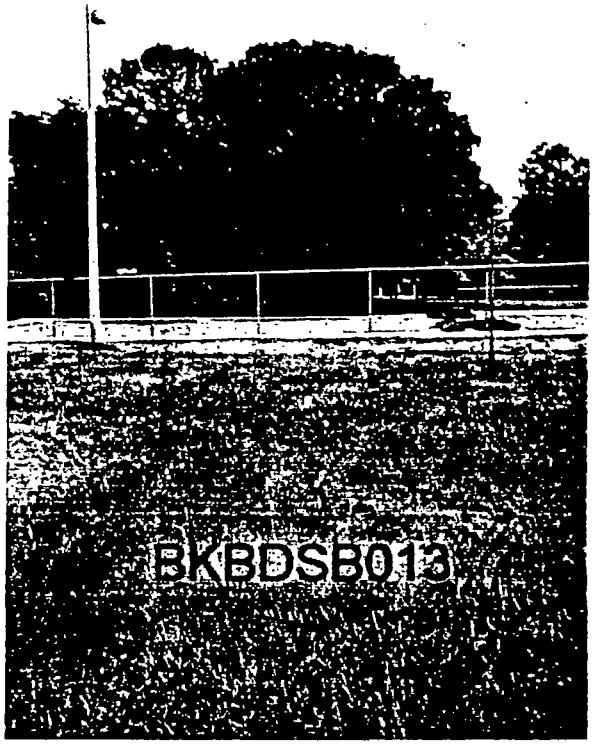

BKBDSB007

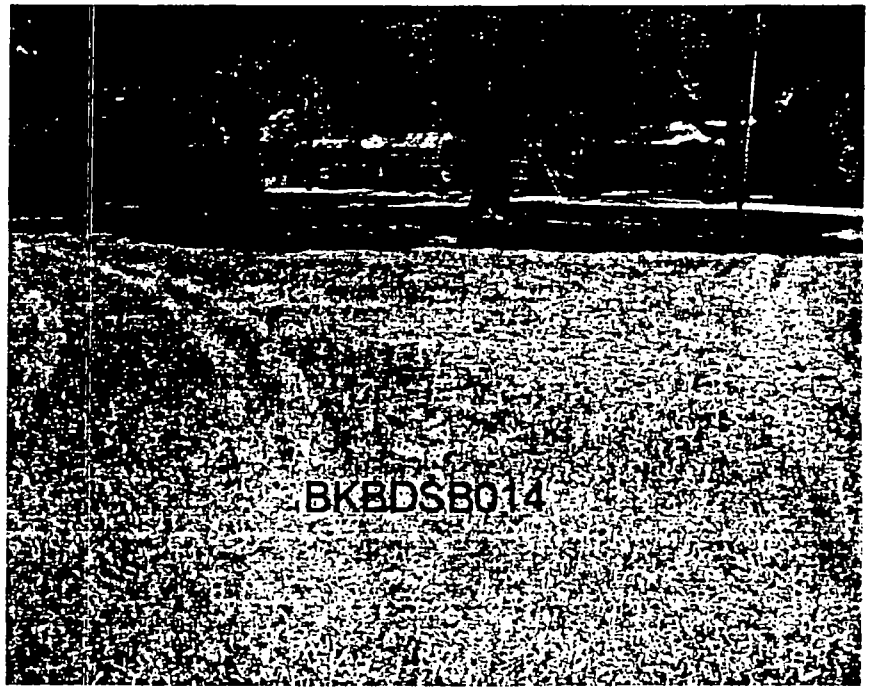

BKBDSB008

BKBDSB010

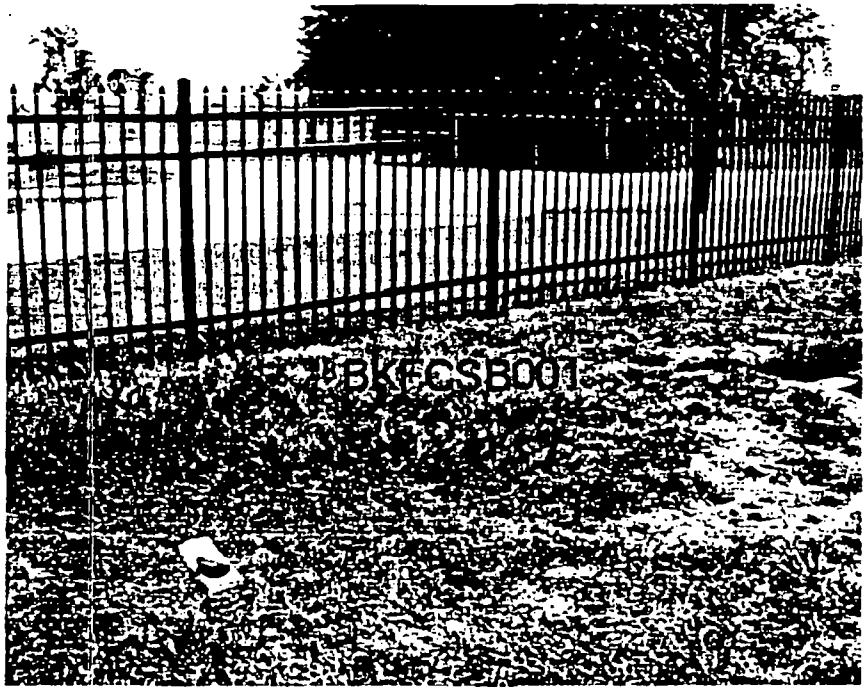

BKBDSB011

BKBDSB012


BKBDSB013


BKBDSB014

BKFDSB

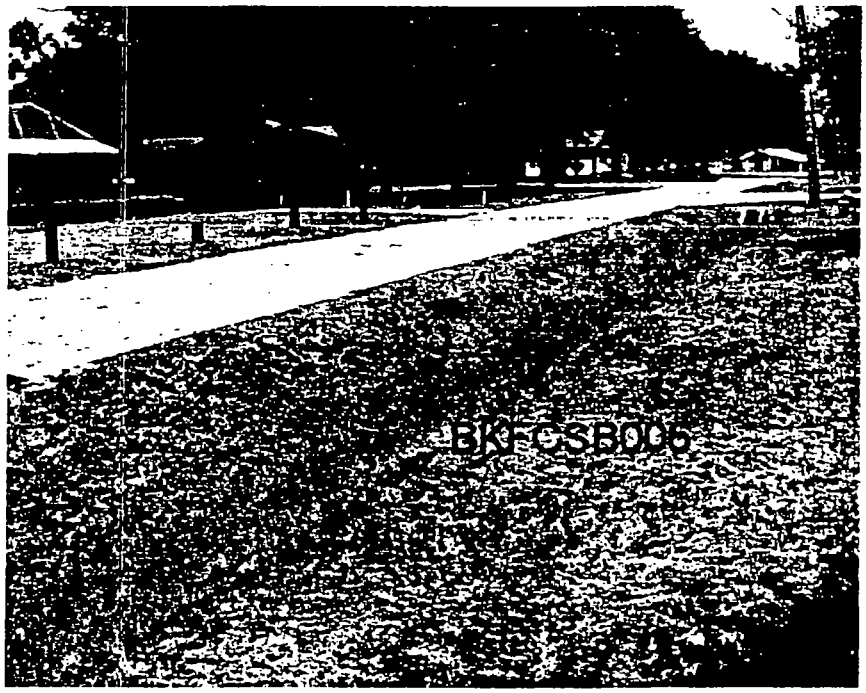

BKFCSB001

BKFCSB002

BKFCSB003

BKFCSB004

BKFCSB005



BKFCSB007

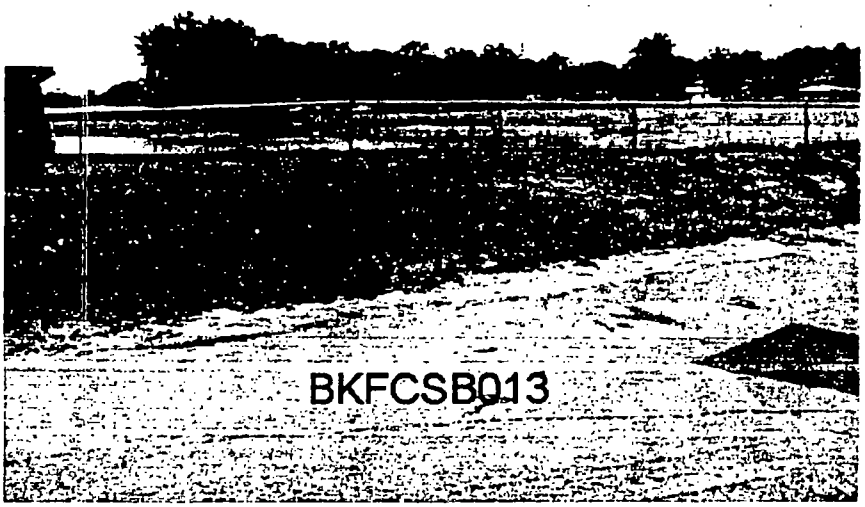
BKFCSB008

BKFCSB009

BKFCSB010

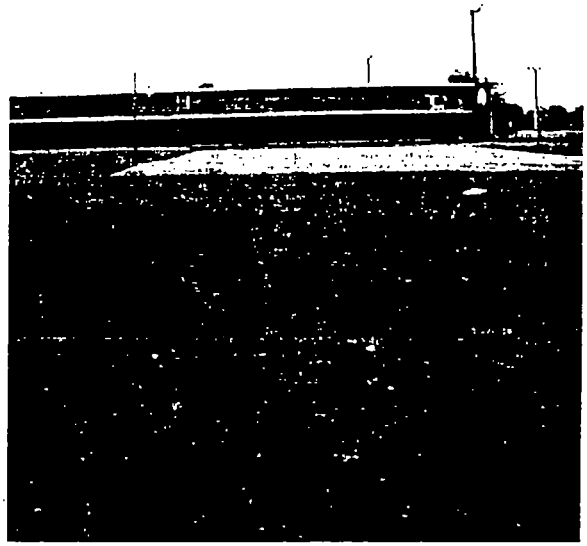
BKFCSB011

BKFCSB012

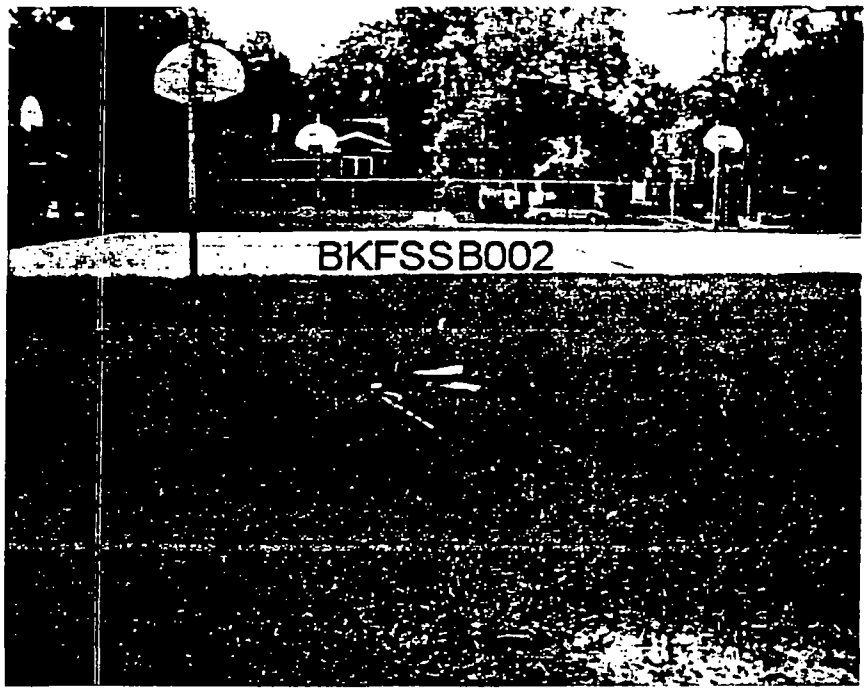

BKFCSB013

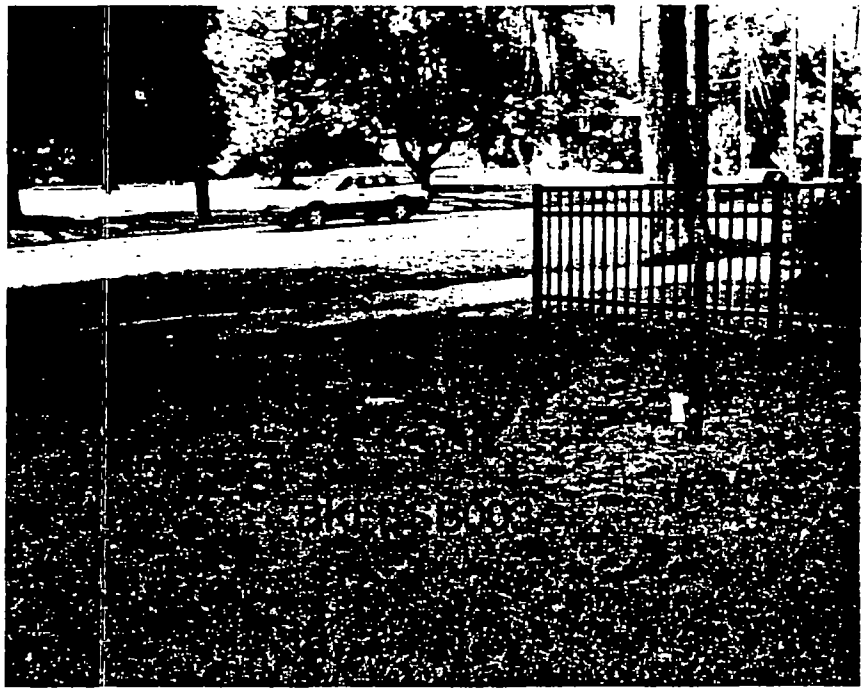
BKFCSB014

BKFCSB015

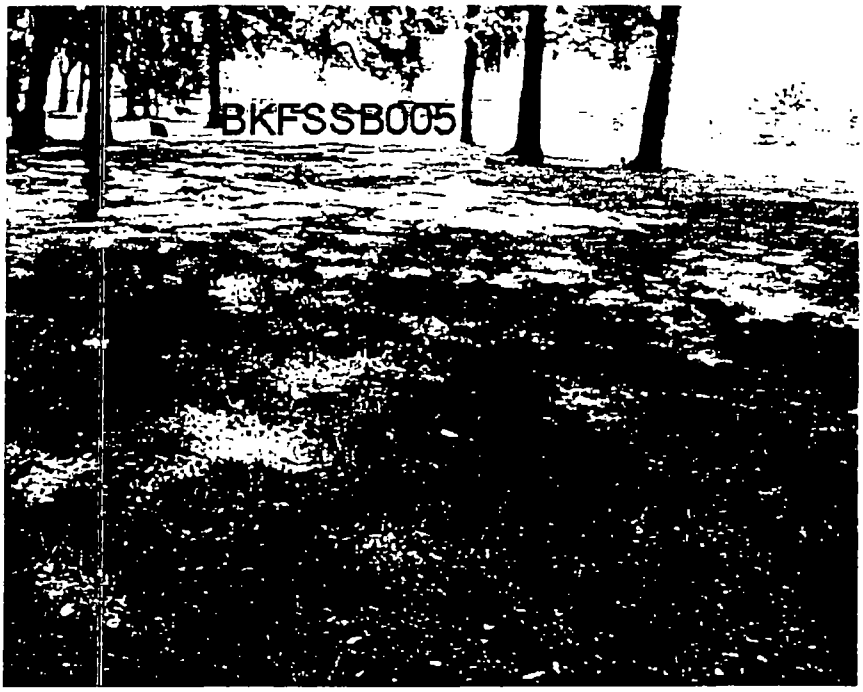


BKFSSB001


BKFSSB002



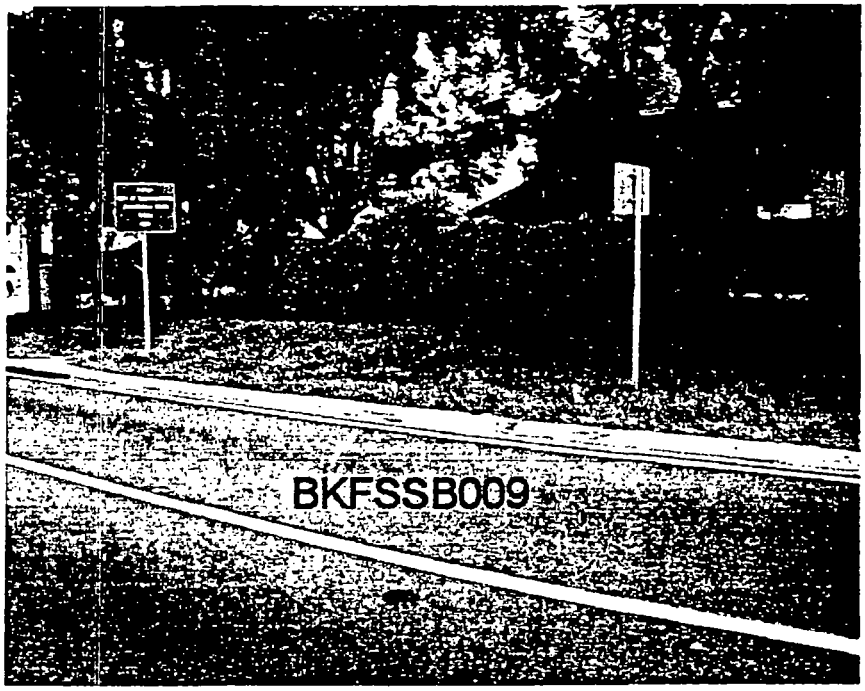
BKFSSB004


BKFSSB005

BKFSSB006

BKFSSB007

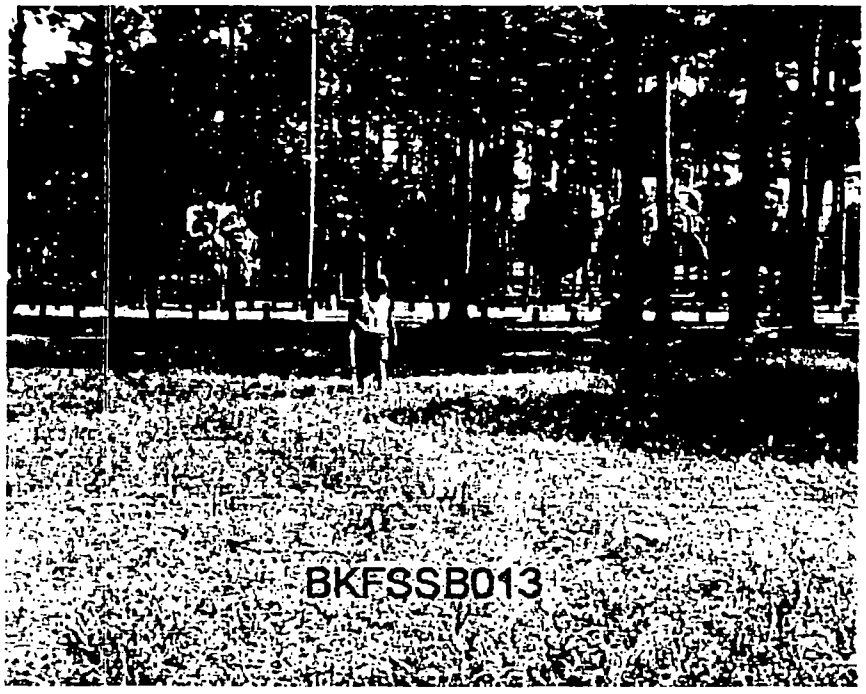
BKFSSB008


BKFSSB009

BKFSSB010

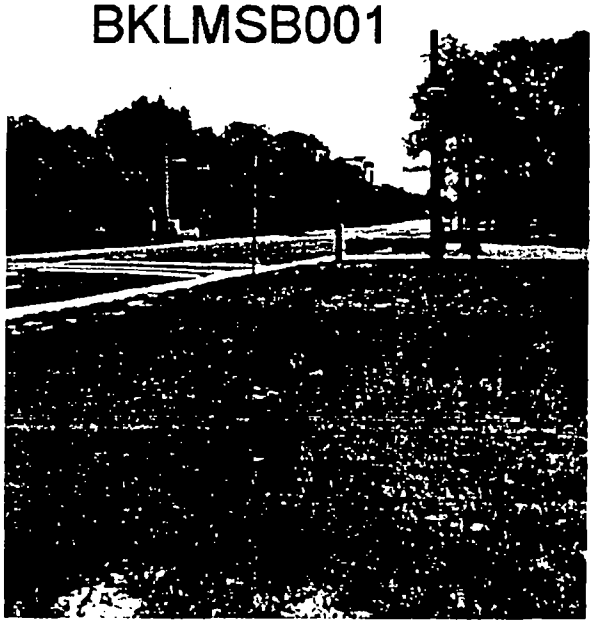
BKFSSB011

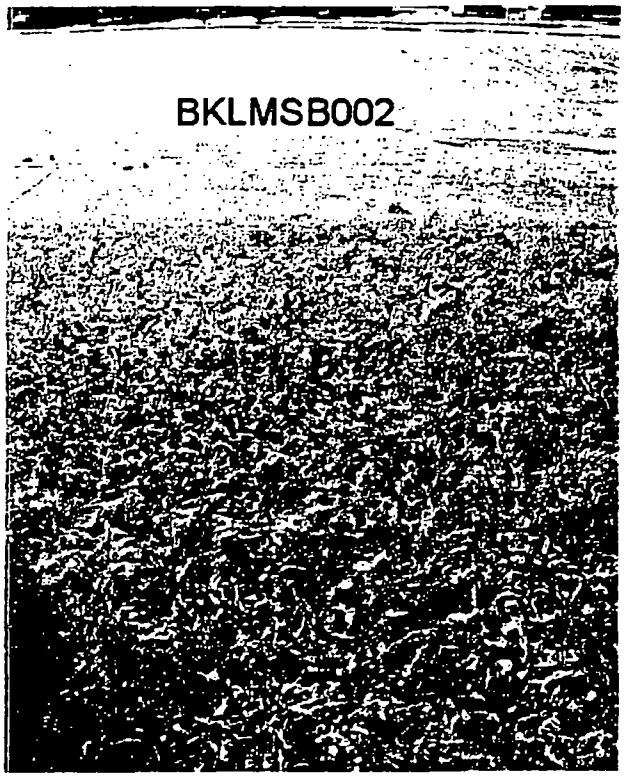
BKFSSB012

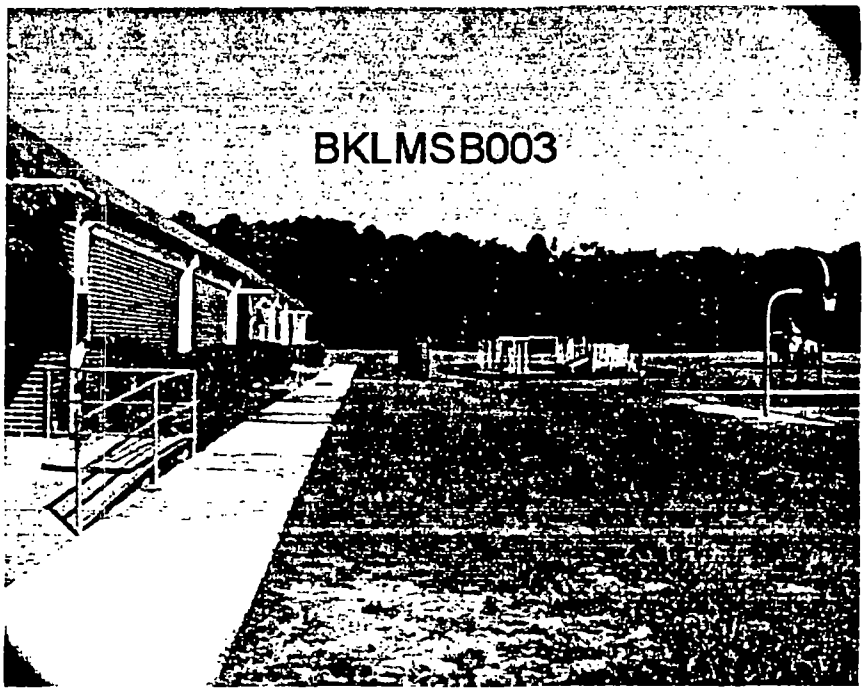

BKFSSB013

BKFSSB014

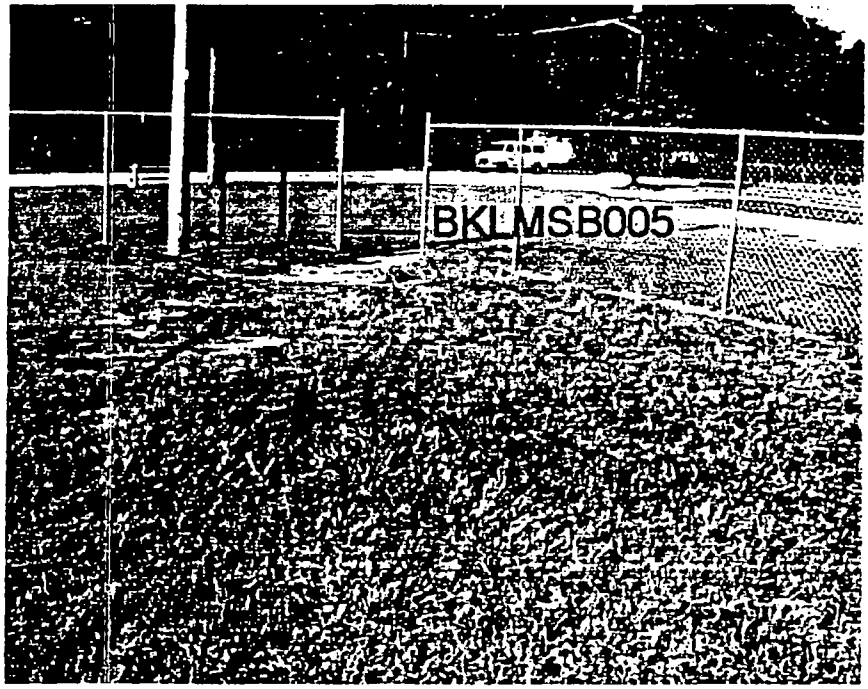
BKLMSB001




BKLMSB002


BKLMSB003

BKLMSB004


BKLMSB005

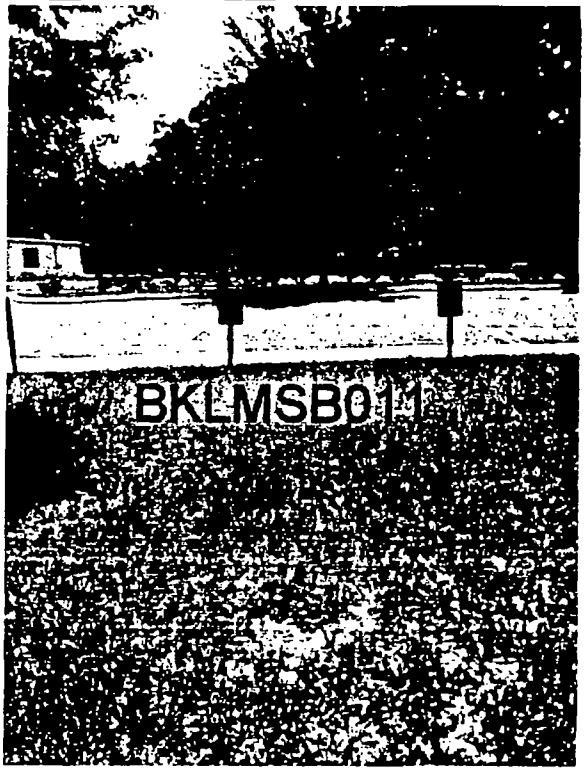
BKLMSB006

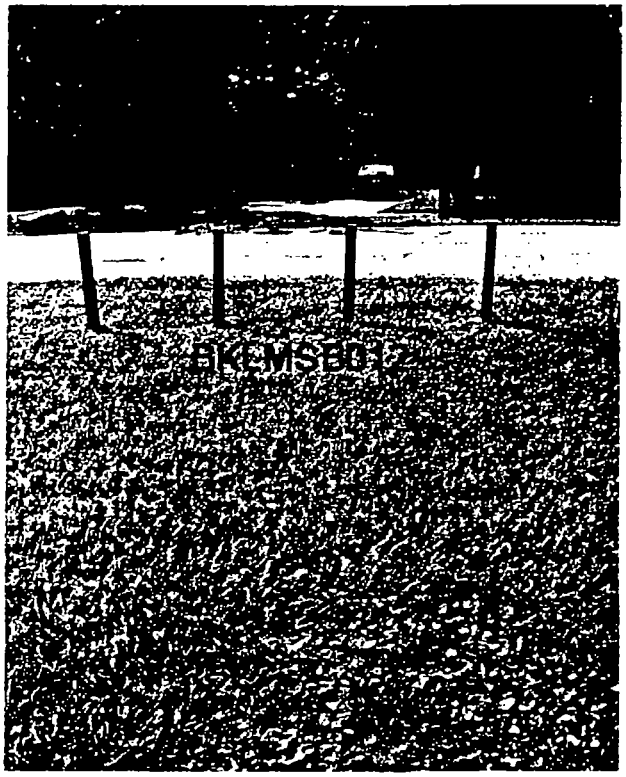
BKLMSB007

BKLMSB008

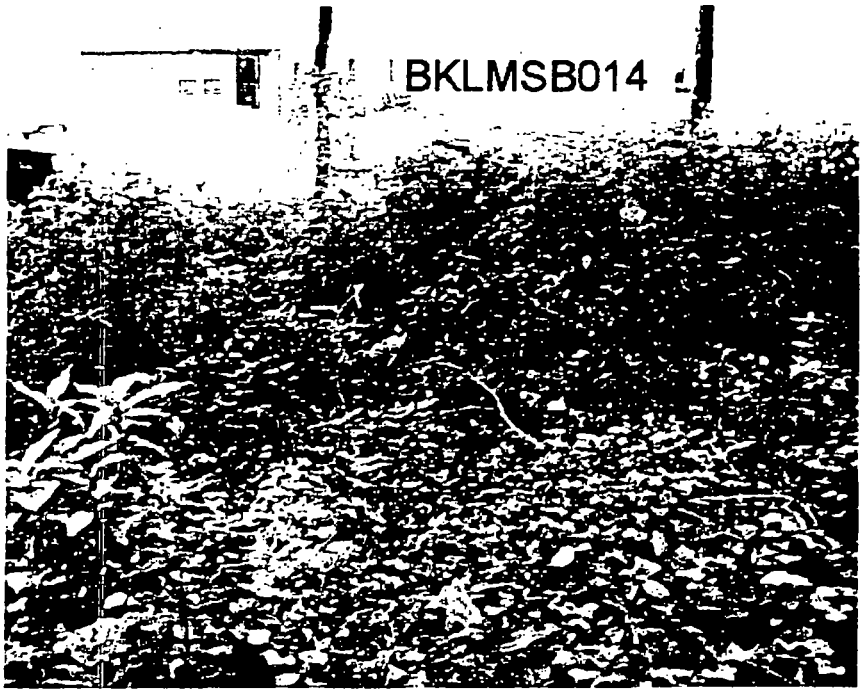
BKLMSB009

BKLMSB010


BKLMSB011


BKLMSB012

BKLMSB013


BKLMSB014

BKLMSB015

ATTACHMENT D
BACKGROUND SURFACE SOIL DATA

StationID	Parameter	MDL	Result	Analytical Results or 1/2 MDL	Qual	Units
BKBDSB001	ANTIMONY	0.5	0.49	0.25	UJ	MG/KG
BKBDSB002	ANTIMONY	0.5	0.48	0.25	UJ	MG/KG
BKBDSB003	ANTIMONY	0.5	0.53	0.25	UJ	MG/KG
BKBDSB004	ANTIMONY	0.5	0.53	0.25	UJ	MG/KG
BKBDSB005	ANTIMONY	0.5	0.52	0.25	UJ	MG/KG
BKBDSB006	ANTIMONY	0.5	0.51	0.25	UJ	MG/KG
BKBDSB007	ANTIMONY	0.5	0.51	0.25	UJ	MG/KG
BKBDSB008	ANTIMONY	0.5	0.5	0.25	UJ	MG/KG
BKBDSB009	ANTIMONY	0.5	0.54	0.25	UJ	MG/KG
BKBDSB010	ANTIMONY	0.5	0.51	0.25	UJ	MG/KG
BKBDSB011	ANTIMONY	0.5	0.47	0.25	UJ	MG/KG
BKBDSB012	ANTIMONY	0.5	0.54	0.25	UJ	MG/KG
BKBDSB013	ANTIMONY	0.5	0.51	0.25	UJ	MG/KG
BKBDSB014	ANTIMONY	0.5	0.51	0.25	UJ	MG/KG
BKBDSB015	ANTIMONY	0.5	0.55	0.25	UJ	MG/KG
BKFCSB001	ANTIMONY	0.5	0.56	0.25	U	MG/KG
BKFCSB002	ANTIMONY	0.5	0.56	0.25	U	MG/KG
BKFCSB003	ANTIMONY	0.5	0.56	0.25	U	MG/KG
BKFCSB004	ANTIMONY	0.5	0.56	0.25	U	MG/KG
BKFCSB005	ANTIMONY	0.5	0.56	0.25	U	MG/KG
BKFCSB006	ANTIMONY	0.5	0.55	0.25	U	MG/KG
BKFCSB007	ANTIMONY	0.5	0.49	0.25	U	MG/KG
BKFCSB008	ANTIMONY	0.5	5.5	5.5	J	MG/KG
BKFCSB009	ANTIMONY	0.5	0.54	0.25	U	MG/KG
BKFCSB010	ANTIMONY	0.5	0.48	0.25	U	MG/KG
BKFCSB011	ANTIMONY	0.5	0.47	0.25	U	MG/KG
BKFCSB012	ANTIMONY	0.5	0.56	0.25	U	MG/KG
BKFCSB013	ANTIMONY	0.5	0.49	0.25	U	MG/KG
BKFCSB014	ANTIMONY	0.5	0.56	0.25	U	MG/KG
BKFCSB015	ANTIMONY	0.5	0.52	0.25	U	MG/KG
BKFSSB001	ANTIMONY	0.5	0.52	0.25	U	MG/KG
BKFSSB002	ANTIMONY	0.5	0.54	0.25	U	MG/KG
BKFSSB003	ANTIMONY	0.5	0.48	0.25	U	MG/KG
BKFSSB004	ANTIMONY	0.5	0.54	0.25	UJ	MG/KG
BKFSSB005	ANTIMONY	0.5	0.48	0.25	UJ	MG/KG
BKFSSB007	ANTIMONY	0.5	0.56	0.25	U	MG/KG
BKFSSB008	ANTIMONY	0.5	0.57	0.25	U	MG/KG
BKFSSB009	ANTIMONY	0.5	0.53	0.25	U	MG/KG
BKFSSB010	ANTIMONY	0.5	0.52	0.25	U	MG/KG
BKFSSB011	ANTIMONY	0.5	0.5	0.25	U	MG/KG
BKFSSB012	ANTIMONY	0.5	0.54	0.25	U	MG/KG
BKFSSB013	ANTIMONY	0.5	0.54	0.25	U	MG/KG
BKFSSB014	ANTIMONY	0.5	0.52	0.25	UJ	MG/KG
BKFSSB015	ANTIMONY	0.5	0.48	0.25	U	MG/KG
BKLMSB001	ANTIMONY	0.5	0.48	0.25	U	MG/KG
BKLMSB002	ANTIMONY	0.5	0.48	0.25	U	MG/KG
BKLMSB003	ANTIMONY	0.5	0.49	0.25	U	MG/KG
BKLMSB004	ANTIMONY	0.5	0.52	0.25	U	MG/KG
BKLMSB006	ANTIMONY	0.5	0.46	0.25	U	MG/KG
BKLMSB007	ANTIMONY	0.5	0.46	0.25	U	MG/KG
BKLMSB008	ANTIMONY	0.5	0.46	0.25	U	MG/KG
BKLMSB009	ANTIMONY	0.5	0.47	0.25	U	MG/KG
BKLMSB010	ANTIMONY	0.5	0.53	0.25	U	MG/KG
BKLMSB011	ANTIMONY	0.5	0.53	0.25	U	MG/KG
BKLMSB012	ANTIMONY	0.5	0.51	0.25	U	MG/KG
BKLMSB013	ANTIMONY	0.5	0.52	0.25	U	MG/KG
BKLMSB014	ANTIMONY	0.5	0.5	0.25	U	MG/KG
BKLMSB015	ANTIMONY	0.5	0.53	0.25	U	MG/KG
Mean				0.340517241		
Twice Mean				0.681034483		

StationID	Parameter	MDL	Result	Analytical Results or 1/2 MDL	Qual	Units
BKBDSB001	ARSENIC	0.45	0.44	0.225	U	MG/KG
BKBDSB002	ARSENIC	0.45	0.44	0.225	U	MG/KG
BKBDSB003	ARSENIC	0.45	0.74	0.74	J	MG/KG
BKBDSB004	ARSENIC	0.45	0.48	0.225	U	MG/KG
BKBDSB005	ARSENIC	0.45	0.62	0.62	J	MG/KG
BKBDSB006	ARSENIC	0.45	0.45	0.225	U	MG/KG
BKBDSB007	ARSENIC	0.45	0.45	0.225	U	MG/KG
BKBDSB008	ARSENIC	0.45	0.45	0.225	U	MG/KG
BKBDSB009	ARSENIC	0.45	0.99	0.99	J	MG/KG
BKBDSB010	ARSENIC	0.45	0.47	0.47	J	MG/KG
BKBDSB011	ARSENIC	0.45	0.42	0.225	U	MG/KG
BKBDSB012	ARSENIC	0.45	0.49	0.225	U	MG/KG
BKBDSB013	ARSENIC	0.45	2.4	2.4	=	MG/KG
BKBDSB014	ARSENIC	0.45	0.46	0.225	U	MG/KG
BKBDSB015	ARSENIC	0.45	0.63	0.63	J	MG/KG
BKFCSB001	ARSENIC	0.45	0.98	0.98	J	MG/KG
BKFCSB002	ARSENIC	0.45	1.6	1.6	J	MG/KG
BKFCSB003	ARSENIC	0.45	1.1	1.1	J	MG/KG
BKFCSB004	ARSENIC	0.45	0.57	0.57	J	MG/KG
BKFCSB005	ARSENIC	0.45	0.5	0.225	U	MG/KG
BKFCSB006	ARSENIC	0.45	0.78	0.78	J	MG/KG
BKFCSB007	ARSENIC	0.45	0.44	0.225	U	MG/KG
BKFCSB008	ARSENIC	0.45	1.1	1.1	J	MG/KG
BKFCSB009	ARSENIC	0.45	0.72	0.72	J	MG/KG
BKFCSB010	ARSENIC	0.45	0.48	0.48	J	MG/KG
BKFCSB011	ARSENIC	0.45	0.43	0.225	U	MG/KG
BKFCSB012	ARSENIC	0.45	0.5	0.5	J	MG/KG
BKFCSB013	ARSENIC	0.45	0.44	0.225	U	MG/KG
BKFCSB014	ARSENIC	0.45	0.78	0.78	J	MG/KG
BKFCSB015	ARSENIC	0.45	0.49	0.49	J	MG/KG
BKFSSB001	ARSENIC	0.45	0.47	0.225	U	MG/KG
BKFSSB002	ARSENIC	0.45	0.67	0.67	J	MG/KG
BKFSSB003	ARSENIC	0.45	0.45	0.45	J	MG/KG
BKFSSB004	ARSENIC	0.45	1.8	1.8	J	MG/KG
BKFSSB005	ARSENIC	0.45	0.44	0.225	U	MG/KG
BKFSSB007	ARSENIC	0.45	0.9	0.9	J	MG/KG
BKFSSB008	ARSENIC	0.45	0.93	0.93	J	MG/KG
BKFSSB009	ARSENIC	0.45	0.63	0.63	J	MG/KG
BKFSSB010	ARSENIC	0.45	0.56	0.56	J	MG/KG
BKFSSB011	ARSENIC	0.45	1.4	1.4	J	MG/KG
BKFSSB012	ARSENIC	0.45	0.49	0.225	U	MG/KG
BKFSSB013	ARSENIC	0.45	0.59	0.59	J	MG/KG
BKFSSB014	ARSENIC	0.45	1.7	1.7	J	MG/KG
BKFSSB015	ARSENIC	0.45	1.1	1.1	J	MG/KG
BKLMSB001	ARSENIC	0.45	0.44	0.225	U	MG/KG
BKLMSB002	ARSENIC	0.45	0.44	0.225	U	MG/KG
BKLMSB003	ARSENIC	0.45	0.44	0.225	U	MG/KG
BKLMSB004	ARSENIC	0.45	0.47	0.225	U	MG/KG
BKLMSB006	ARSENIC	0.45	0.42	0.225	U	MG/KG
BKLMSB007	ARSENIC	0.45	0.6	0.6	J	MG/KG
BKLMSB008	ARSENIC	0.45	0.42	0.225	U	MG/KG
BKLMSB009	ARSENIC	0.45	0.43	0.225	U	MG/KG
BKLMSB010	ARSENIC	0.45	0.59	0.59	J	MG/KG
BKLMSB011	ARSENIC	0.45	0.47	0.225	U	MG/KG
BKLMSB012	ARSENIC	0.45	0.72	0.72	J	MG/KG
BKLMSB013	ARSENIC	0.45	0.52	0.52	J	MG/KG
BKLMSB014	ARSENIC	0.45	1.4	1.4	J	MG/KG
BKLMSB015	ARSENIC	0.45	0.48	0.225	U	MG/KG
Mean				0.605775862		
Twice Mean				1.211551724		

StationID	Parameter	MDL	Result	Analytical Results or 1/2 MDL	Qual	Units
BKBDSB001	BARIUM	0.16	7.3	7.3	J	MG/KG
BKBDSB002	BARIUM	0.16	64	64	=	MG/KG
BKBDSB003	BARIUM	0.16	12	12	J	MG/KG
BKBDSB004	BARIUM	0.16	7.5	7.5	J	MG/KG
BKBDSB005	BARIUM	0.16	9.1	9.1	J	MG/KG
BKBDSB006	BARIUM	0.16	6.9	6.9	J	MG/KG
BKBDSB007	BARIUM	0.16	9.5	9.5	J	MG/KG
BKBDSB008	BARIUM	0.16	8.7	8.7	J	MG/KG
BKBDSB009	BARIUM	0.16	13	13	J	MG/KG
BKBDSB010	BARIUM	0.16	5.1	5.1	J	MG/KG
BKBDSB011	BARIUM	0.16	13	13	J	MG/KG
BKBDSB012	BARIUM	0.16	3.7	3.7	J	MG/KG
BKBDSB013	BARIUM	0.16	18	18	J	MG/KG
BKBDSB014	BARIUM	0.16	3.4	3.4	J	MG/KG
BKBDSB015	BARIUM	0.16	12	12	J	MG/KG
BKFCSB001	BARIUM	0.16	29	29	J	MG/KG
BKFCSB002	BARIUM	0.16	96	96	=	MG/KG
BKFCSB003	BARIUM	0.16	20	20	J	MG/KG
BKFCSB004	BARIUM	0.16	13	13	J	MG/KG
BKFCSB005	BARIUM	0.16	9.5	9.5	J	MG/KG
BKFCSB006	BARIUM	0.16	6.8	6.8	J	MG/KG
BKFCSB007	BARIUM	0.16	16	16	J	MG/KG
BKFCSB008	BARIUM	0.16	100	100	=	MG/KG
BKFCSB009	BARIUM	0.16	38	38	J	MG/KG
BKFCSB010	BARIUM	0.16	10	10	J	MG/KG
BKFCSB011	BARIUM	0.16	2.7	2.7	J	MG/KG
BKFCSB012	BARIUM	0.16	6.8	6.8	J	MG/KG
BKFCSB013	BARIUM	0.16	11	11	J	MG/KG
BKFCSB014	BARIUM	0.16	16	16	J	MG/KG
BKFCSB015	BARIUM	0.16	15	15	J	MG/KG
BKFSSB001	BARIUM	0.16	10	10	J	MG/KG
BKFSSB002	BARIUM	0.16	11	11	J	MG/KG
BKFSSB003	BARIUM	0.16	13	13	J	MG/KG
BKFSSB004	BARIUM	0.16	68	68	=	MG/KG
BKFSSB005	BARIUM	0.16	11	11	J	MG/KG
BKFSSB007	BARIUM	0.16	26	26	J	MG/KG
BKFSSB008	BARIUM	0.16	44	44	J	MG/KG
BKFSSB009	BARIUM	0.16	27	27	J	MG/KG
BKFSSB010	BARIUM	0.16	13	13	J	MG/KG
BKFSSB011	BARIUM	0.16	19	19	J	MG/KG
BKFSSB012	BARIUM	0.16	9.9	9.9	J	MG/KG
BKFSSB013	BARIUM	0.16	28	28	J	MG/KG
BKFSSB014	BARIUM	0.16	18	18	J	MG/KG
BKFSSB015	BARIUM	0.16	14	14	J	MG/KG
BKLMSB001	BARIUM	0.16	4.9	4.9	J	MG/KG
BKLMSB002	BARIUM	0.16	14	14	J	MG/KG
BKLMSB003	BARIUM	0.16	5.2	5.2	J	MG/KG
BKLMSB004	BARIUM	0.16	3.8	3.8	J	MG/KG
BKLMSB006	BARIUM	0.16	3.4	3.4	J	MG/KG
BKLMSB007	BARIUM	0.16	7	7	J	MG/KG
BKLMSB008	BARIUM	0.16	7.6	7.6	J	MG/KG
BKLMSB009	BARIUM	0.16	3	3	J	MG/KG
BKLMSB010	BARIUM	0.16	13	13	J	MG/KG
BKLMSB011	BARIUM	0.16	7	7	J	MG/KG
BKLMSB012	BARIUM	0.16	18	18	J	MG/KG
BKLMSB013	BARIUM	0.16	9.5	9.5	J	MG/KG
BKLMSB014	BARIUM	0.16	10	10	J	MG/KG
BKLMSB015	BARIUM	0.16	3.7	3.7	J	MG/KG
Mean				17.32758621		
Twice Mean				34.65517241		

StationID	Parameter	MDL	Result	Analytical Results or 1/2 MDL	Qual	Units
BKBDSB001	BENZO(a)ANTHRACENE	20	360	10	U	UG/KG
BKBDSB002	BENZO(a)ANTHRACENE	20	350	10	U	UG/KG
BKBDSB003	BENZO(a)ANTHRACENE	20	320	320	J	UG/KG
BKBDSB004	BENZO(a)ANTHRACENE	20	350	10	U	UG/KG
BKBDSB005	BENZO(a)ANTHRACENE	20	340	10	U	UG/KG
BKBDSB006	BENZO(a)ANTHRACENE	20	370	10	U	UG/KG
BKBDSB007	BENZO(a)ANTHRACENE	20	34	34	J	UG/KG
BKBDSB008	BENZO(a)ANTHRACENE	20	360	10	U	UG/KG
BKBDSB009	BENZO(a)ANTHRACENE	20	44	44	J	UG/KG
BKBDSB010	BENZO(a)ANTHRACENE	20	370	10	U	UG/KG
BKBDSB011	BENZO(a)ANTHRACENE	20	50	50	J	UG/KG
BKBDSB012	BENZO(a)ANTHRACENE	20	360	10	U	UG/KG
BKBDSB013	BENZO(a)ANTHRACENE	20	370	10	U	UG/KG
BKBDSB014	BENZO(a)ANTHRACENE	20	340	10	U	UG/KG
BKBDSB015	BENZO(a)ANTHRACENE	20	360	10	U	UG/KG
BKFCSB001	BENZO(a)ANTHRACENE	20	370	10	U	UG/KG
BKFCSB002	BENZO(a)ANTHRACENE	20	380	380	=	UG/KG
BKFCSB003	BENZO(a)ANTHRACENE	20	200	200	J	UG/KG
BKFCSB004	BENZO(a)ANTHRACENE	20	370	10	U	UG/KG
BKFCSB005	BENZO(a)ANTHRACENE	20	370	10	U	UG/KG
BKFCSB006	BENZO(a)ANTHRACENE	20	920	920	=	UG/KG
BKFCSB007	BENZO(a)ANTHRACENE	20	350	350	J	UG/KG
BKFCSB008	BENZO(a)ANTHRACENE	20	78	78	J	UG/KG
BKFCSB009	BENZO(a)ANTHRACENE	20	150	150	J	UG/KG
BKFCSB010	BENZO(a)ANTHRACENE	20	530	530	=	UG/KG
BKFCSB011	BENZO(a)ANTHRACENE	20	53	53	J	UG/KG
BKFCSB012	BENZO(a)ANTHRACENE	20	26	26	J	UG/KG
BKFCSB013	BENZO(a)ANTHRACENE	20	360	10	U	UG/KG
BKFCSB014	BENZO(a)ANTHRACENE	20	28	28	J	UG/KG
BKFCSB015	BENZO(a)ANTHRACENE	20	53	53	J	UG/KG
BKFSSB001	BENZO(a)ANTHRACENE	20	460	460	=	UG/KG
BKFSSB002	BENZO(a)ANTHRACENE	20	28	28	J	UG/KG
BKFSSB003	BENZO(a)ANTHRACENE	20	42	42	J	UG/KG
BKFSSB004	BENZO(a)ANTHRACENE	20	1200	1200	J	UG/KG
BKFSSB005	BENZO(a)ANTHRACENE	20	350	10	U	UG/KG
BKFSSB007	BENZO(a)ANTHRACENE	20	46	46	J	UG/KG
BKFSSB008	BENZO(a)ANTHRACENE	20	380	10	U	UG/KG
BKFSSB009	BENZO(a)ANTHRACENE	20	4800	4800	=	UG/KG
BKFSSB010	BENZO(a)ANTHRACENE	20	53	53	J	UG/KG
BKFSSB011	BENZO(a)ANTHRACENE	20	110	110	J	UG/KG
BKFSSB012	BENZO(a)ANTHRACENE	20	360	10	U	UG/KG
BKFSSB013	BENZO(a)ANTHRACENE	20	390	10	U	UG/KG
BKFSSB014	BENZO(a)ANTHRACENE	20	30	30	J	UG/KG
BKFSSB015	BENZO(a)ANTHRACENE	20	130	130	J	UG/KG
BKLMSB001	BENZO(a)ANTHRACENE	20	350	10	U	UG/KG
BKLMSB002	BENZO(a)ANTHRACENE	20	1300	1300	=	UG/KG
BKLMSB003	BENZO(a)ANTHRACENE	20	360	10	U	UG/KG
BKLMSB004	BENZO(a)ANTHRACENE	20	340	10	U	UG/KG
BKLMSB006	BENZO(a)ANTHRACENE	20	340	10	U	UG/KG
BKLMSB007	BENZO(a)ANTHRACENE	20	22	22	J	UG/KG
BKLMSB008	BENZO(a)ANTHRACENE	20	69	69	J	UG/KG
BKLMSB009	BENZO(a)ANTHRACENE	20	340	10	U	UG/KG
BKLMSB010	BENZO(a)ANTHRACENE	20	24	24	J	UG/KG
BKLMSB011	BENZO(a)ANTHRACENE	20	350	10	U	UG/KG
BKLMSB012	BENZO(a)ANTHRACENE	20	370	10	U	UG/KG
BKLMSB013	BENZO(a)ANTHRACENE	20	340	10	U	UG/KG
BKLMSB014	BENZO(a)ANTHRACENE	20	360	10	U	UG/KG
BKLMSB015	BENZO(a)ANTHRACENE	20	350	10	U	UG/KG
Mean				203.7931034		
Twice Mean				407.5862069		

StationID	Parameter	MDL	Result	Analytical Results or 1/2 MDL	Qual	Units
BKBDSB001	BENZO(a)PYRENE	29	360	14.5	U	UG/KG
BKBDSB002	BENZO(a)PYRENE	29	350	14.5	U	UG/KG
BKBDSB003	BENZO(a)PYRENE	29	440	440	=	UG/KG
BKBDSB004	BENZO(a)PYRENE	29	350	14.5	U	UG/KG
BKBDSB005	BENZO(a)PYRENE	29	340	14.5	U	UG/KG
BKBDSB006	BENZO(a)PYRENE	29	370	14.5	U	UG/KG
BKBDSB007	BENZO(a)PYRENE	29	370	14 5	U	UG/KG
BKBDSB008	BENZO(a)PYRENE	29	360	14.5	U	UG/KG
BKBDSB009	BENZO(a)PYRENE	29	360	14.5	U	UG/KG
BKBDSB010	BENZO(a)PYRENE	29	370	14.5	U	UG/KG
BKBDSB011	BENZO(a)PYRENE	29	340	14.5	U	UG/KG
BKBDSB012	BENZO(a)PYRENE	29	360	14.5	U	UG/KG
BKBDSB013	BENZO(a)PYRENE	29	370	14.5	U	UG/KG
BKBDSB014	BENZO(a)PYRENE	29	340	14.5	U	UG/KG
BKBDSB015	BENZO(a)PYRENE	29	360	14.5	U	UG/KG
BKFCSB001	BENZO(a)PYRENE	29	370	14.5	U	UG/KG
BKFCSB002	BENZO(a)PYRENE	29	370	370	J	UG/KG
BKFCSB003	BENZO(a)PYRENE	29	170	170	J	UG/KG
BKFCSB004	BENZO(a)PYRENE	29	57	57	J	UG/KG
BKFCSB005	BENZO(a)PYRENE	29	370	14.5	U	UG/KG
BKFCSB006	BENZO(a)PYRENE	29	1100	1100	=	UG/KG
BKFCSB007	BENZO(a)PYRENE	29	330	330	J	UG/KG
BKFCSB008	BENZO(a)PYRENE	29	120	120	J	UG/KG
BKFCSB009	BENZO(a)PYRENE	29	140	140	J	UG/KG
BKFCSB010	BENZO(a)PYRENE	29	520	520	=	UG/KG
BKFCSB011	BENZO(a)PYRENE	29	340	14.5	U	UG/KG
BKFCSB012	BENZO(a)PYRENE	29	40	40	J	UG/KG
BKFCSB013	BENZO(a)PYRENE	29	33	33	J	UG/KG
BKFCSB014	BENZO(a)PYRENE	29	37	37	J	UG/KG
BKFCSB015	BENZO(a)PYRENE	29	62	62	J	UG/KG
BKFSSB001	BENZO(a)PYRENE	29	460	460	=	UG/KG
BKFSSB002	BENZO(a)PYRENE	29	35	35	J	UG/KG
BKFSSB003	BENZO(a)PYRENE	29	62	62	J	UG/KG
BKFSSB004	BENZO(a)PYRENE	29	1500	1500	J	UG/KG
BKFSSB005	BENZO(a)PYRENE	29	350	14.5	U	UG/KG
BKFSSB007	BENZO(a)PYRENE	29	66	66	J	UG/KG
BKFSSB008	BENZO(a)PYRENE	29	380	14.5	U	UG/KG
BKFSSB009	BENZO(a)PYRENE	29	6500	6500	=	UG/KG
BKFSSB010	BENZO(a)PYRENE	29	75	75	J	UG/KG
BKFSSB011	BENZO(a)PYRENE	29	130	130	J	UG/KG
BKFSSB012	BENZO(a)PYRENE	29	360	14.5	U	UG/KG
BKFSSB013	BENZO(a)PYRENE	29	390	14.5	U	UG/KG
BKFSSB014	BENZO(a)PYRENE	29	380	14.5	U	UG/KG
BKFSSB015	BENZO(a)PYRENE	29	170	170	J	UG/KG
BKLMSB001	BENZO(a)PYRENE	29	350	14.5	U	UG/KG
BKLMSB002	BENZO(a)PYRENE	29	1200	1200	=	UG/KG
BKLMSB003	BENZO(a)PYRENE	29	360	14.5	U	UG/KG
BKLMSB004	BENZO(a)PYRENE	29	340	14.5	U	UG/KG
BKLMSB006	BENZO(a)PYRENE	29	340	14 5	U	UG/KG
BKLMSB007	BENZO(a)PYRENE	29	340	14.5	U	UG/KG
BKLMSB008	BENZO(a)PYRENE	29	70	70	J	UG/KG
BKLMSB009	BENZO(a)PYRENE	29	340	14.5	U	UG/KG
BKLMSB010	BENZO(a)PYRENE	29	350	14.5	U	UG/KG
BKLMSB011	BENZO(a)PYRENE	29	350	14.5	U	UG/KG
BKLMSB012	BENZO(a)PYRENE	29	370	14.5	U	UG/KG
BKLMSB013	BENZO(a)PYRENE	29	340	14.5	U	UG/KG
BKLMSB014	BENZO(a)PYRENE	29	360	14.5	U	UG/KG
BKLMSB015	BENZO(a)PYRENE	29	350	14.5	U	UG/KG
Mean				244.4827586		
Twice Mean				488.9655172		

StationID	Parameter	MDL	Result	Analytical Results or 1/2 MDL	Qual	Units
BKBDSB001	BENZO(b)FLUORANTHENE	23	360	11.5	U	UG/KG
BKBDSB002	BENZO(b)FLUORANTHENE	23	350	11.5	U	UG/KG
BKBDSB003	BENZO(b)FLUORANTHENE	23	400	400	=	UG/KG
BKBDSB004	BENZO(b)FLUORANTHENE	23	350	11.5	U	UG/KG
BKBDSB005	BENZO(b)FLUORANTHENE	23	340	11.5	U	UG/KG
BKBDSB006	BENZO(b)FLUORANTHENE	23	370	11.5	U	UG/KG
BKBDSB007	BENZO(b)FLUORANTHENE	23	370	11.5	U	UG/KG
BKBDSB008	BENZO(b)FLUORANTHENE	23	360	11.5	U	UG/KG
BKBDSB009	BENZO(b)FLUORANTHENE	23	360	11.5	U	UG/KG
BKBDSB010	BENZO(b)FLUORANTHENE	23	370	11.5	U	UG/KG
BKBDSB011	BENZO(b)FLUORANTHENE	23	340	11.5	U	UG/KG
BKBDSB012	BENZO(b)FLUORANTHENE	23	360	11.5	U	UG/KG
BKBDSB013	BENZO(b)FLUORANTHENE	23	370	11.5	U	UG/KG
BKBDSB014	BENZO(b)FLUORANTHENE	23	340	11.5	U	UG/KG
BKBDSB015	BENZO(b)FLUORANTHENE	23	360	11.5	U	UG/KG
BKFCSB001	BENZO(b)FLUORANTHENE	23	370	11.5	U	UG/KG
BKFCSB002	BENZO(b)FLUORANTHENE	23	390	390	=	UG/KG
BKFCSB003	BENZO(b)FLUORANTHENE	23	180	180	J	UG/KG
BKFCSB004	BENZO(b)FLUORANTHENE	23	33	33	J	UG/KG
BKFCSB005	BENZO(b)FLUORANTHENE	23	370	11.5	U	UG/KG
BKFCSB006	BENZO(b)FLUORANTHENE	23	1800	1800	=	UG/KG
BKFCSB007	BENZO(b)FLUORANTHENE	23	280	280	J	UG/KG
BKFCSB008	BENZO(b)FLUORANTHENE	23	120	120	J	UG/KG
BKFCSB009	BENZO(b)FLUORANTHENE	23	140	140	J	UG/KG
BKFCSB010	BENZO(b)FLUORANTHENE	23	520	520	=	UG/KG
BKFCSB011	BENZO(b)FLUORANTHENE	23	340	11.5	U	UG/KG
BKFCSB012	BENZO(b)FLUORANTHENE	23	41	41	J	UG/KG
BKFCSB013	BENZO(b)FLUORANTHENE	23	30	30	J	UG/KG
BKFCSB014	BENZO(b)FLUORANTHENE	23	34	34	J	UG/KG
BKFCSB015	BENZO(b)FLUORANTHENE	23	340	11.5	U	UG/KG
BKFSSB001	BENZO(b)FLUORANTHENE	23	400	400	=	UG/KG
BKFSSB002	BENZO(b)FLUORANTHENE	23	30	30	J	UG/KG
BKFSSB003	BENZO(b)FLUORANTHENE	23	36	36	J	UG/KG
BKFSSB004	BENZO(b)FLUORANTHENE	23	1600	1600	J	UG/KG
BKFSSB005	BENZO(b)FLUORANTHENE	23	350	11.5	U	UG/KG
BKFSSB007	BENZO(b)FLUORANTHENE	23	130	130	J	UG/KG
BKFSSB008	BENZO(b)FLUORANTHENE	23	380	11.5	U	UG/KG
BKFSSB009	BENZO(b)FLUORANTHENE	23	5400	5400	=	UG/KG
BKFSSB010	BENZO(b)FLUORANTHENE	23	63	63	J	UG/KG
BKFSSB011	BENZO(b)FLUORANTHENE	23	120	120	J	UG/KG
BKFSSB012	BENZO(b)FLUORANTHENE	23	360	11.5	U	UG/KG
BKFSSB013	BENZO(b)FLUORANTHENE	23	390	11.5	U	UG/KG
BKFSSB014	BENZO(b)FLUORANTHENE	23	380	11.5	U	UG/KG
BKFSSB015	BENZO(b)FLUORANTHENE	23	160	160	J	UG/KG
BKLMSB001	BENZO(b)FLUORANTHENE	23	350	11.5	U	UG/KG
BKLMSB002	BENZO(b)FLUORANTHENE	23	1200	1200	=	UG/KG
BKLMSB003	BENZO(b)FLUORANTHENE	23	360	11.5	U	UG/KG
BKLMSB004	BENZO(b)FLUORANTHENE	23	340	11.5	U	UG/KG
BKLMSB006	BENZO(b)FLUORANTHENE	23	340	11.5	U	UG/KG
BKLMSB007	BENZO(b)FLUORANTHENE	23	340	11.5	U	UG/KG
BKLMSB008	BENZO(b)FLUORANTHENE	23	66	66	J	UG/KG
BKLMSB009	BENZO(b)FLUORANTHENE	23	340	11.5	U	UG/KG
BKLMSB010	BENZO(b)FLUORANTHENE	23	350	11.5	U	UG/KG
BKLMSB011	BENZO(b)FLUORANTHENE	23	350	11.5	U	UG/KG
BKLMSB012	BENZO(b)FLUORANTHENE	23	370	11.5	U	UG/KG
BKLMSB013	BENZO(b)FLUORANTHENE	23	340	11.5	U	UG/KG
BKLMSB014	BENZO(b)FLUORANTHENE	23	360	11.5	U	UG/KG
BKLMSB015	BENZO(b)FLUORANTHENE	23	350	11.5	U	UG/KG
Mean				234.0603448		
Twice Mean				468.1206897		

StationID	Parameter	MDL	Result	Analytical Results or 1/2 MDL	Qual	Units
BKBDSB001	BENZO(k)FLUORANTHENE	26	360	13	U	UG/KG
BKBDSB002	BENZO(k)FLUORANTHENE	26	350	13	U	UG/KG
BKBDSB003	BENZO(k)FLUORANTHENE	26	460	460	=	UG/KG
BKBDSB004	BENZO(k)FLUORANTHENE	26	350	13	U	UG/KG
BKBDSB005	BENZO(k)FLUORANTHENE	26	340	13	U	UG/KG
BKBDSB006	BENZO(k)FLUORANTHENE	26	370	13	U	UG/KG
BKBDSB007	BENZO(k)FLUORANTHENE	26	370	13	U	UG/KG
BKBDSB008	BENZO(k)FLUORANTHENE	26	360	13	U	UG/KG
BKBDSB009	BENZO(k)FLUORANTHENE	26	360	13	U	UG/KG
BKBDSB010	BENZO(k)FLUORANTHENE	26	370	13	U	UG/KG
BKBDSB011	BENZO(k)FLUORANTHENE	26	340	13	U	UG/KG
BKBDSB012	BENZO(k)FLUORANTHENE	26	360	13	U	UG/KG
BKBDSB013	BENZO(k)FLUORANTHENE	26	370	13	U	UG/KG
BKBDSB014	BENZO(k)FLUORANTHENE	26	340	13	U	UG/KG
BKBDSB015	BENZO(k)FLUORANTHENE	26	360	13	U	UG/KG
BKFCSB001	BENZO(k)FLUORANTHENE	26	370	13	U	UG/KG
BKFCSB002	BENZO(k)FLUORANTHENE	26	380	380	=	UG/KG
BKFCSB003	BENZO(k)FLUORANTHENE	26	190	190	J	UG/KG
BKFCSB004	BENZO(k)FLUORANTHENE	26	50	50	J	UG/KG
BKFCSB005	BENZO(k)FLUORANTHENE	26	370	13	U	UG/KG
BKFCSB006	BENZO(k)FLUORANTHENE	26	1100	1100	=	UG/KG
BKFCSB007	BENZO(k)FLUORANTHENE	26	290	290	J	UG/KG
BKFCSB008	BENZO(k)FLUORANTHENE	26	120	120	J	UG/KG
BKFCSB009	BENZO(k)FLUORANTHENE	26	130	130	J	UG/KG
BKFCSB010	BENZO(k)FLUORANTHENE	26	460	460	=	UG/KG
BKFCSB011	BENZO(k)FLUORANTHENE	26	340	13	U	UG/KG
BKFCSB012	BENZO(k)FLUORANTHENE	26	41	41	J	UG/KG
BKFCSB013	BENZO(k)FLUORANTHENE	26	33	33	J	UG/KG
BKFCSB014	BENZO(k)FLUORANTHENE	26	370	13	U	UG/KG
BKFCSB015	BENZO(k)FLUORANTHENE	26	340	13	U	UG/KG
BKFSSB001	BENZO(k)FLUORANTHENE	26	440	440	=	UG/KG
BKFSSB002	BENZO(k)FLUORANTHENE	26	360	13	U	UG/KG
BKFSSB003	BENZO(k)FLUORANTHENE	26	56	56	J	UG/KG
BKFSSB004	BENZO(k)FLUORANTHENE	26	1600	1600	J	UG/KG
BKFSSB005	BENZO(k)FLUORANTHENE	26	350	13	U	UG/KG
BKFSSB007	BENZO(k)FLUORANTHENE	26	83	83	J	UG/KG
BKFSSB008	BENZO(k)FLUORANTHENE	26	380	13	U	UG/KG
BKFSSB009	BENZO(k)FLUORANTHENE	26	5200	5200	=	UG/KG
BKFSSB010	BENZO(k)FLUORANTHENE	26	68	68	J	UG/KG
BKFSSB011	BENZO(k)FLUORANTHENE	26	120	120	J	UG/KG
BKFSSB012	BENZO(k)FLUORANTHENE	26	360	13	U	UG/KG
BKFSSB013	BENZO(k)FLUORANTHENE	26	390	13	U	UG/KG
BKFSSB014	BENZO(k)FLUORANTHENE	26	380	13	U	UG/KG
BKFSSB015	BENZO(k)FLUORANTHENE	26	140	140	J	UG/KG
BKLMSB001	BENZO(k)FLUORANTHENE	26	350	13	U	UG/KG
BKLMSB002	BENZO(k)FLUORANTHENE	26	1000	1000	=	UG/KG
BKLMSB003	BENZO(k)FLUORANTHENE	26	360	13	U	UG/KG
BKLMSB004	BENZO(k)FLUORANTHENE	26	340	13	U	UG/KG
BKLMSB006	BENZO(k)FLUORANTHENE	26	340	13	U	UG/KG
BKLMSB007	BENZO(k)FLUORANTHENE	26	340	13	U	UG/KG
BKLMSB008	BENZO(k)FLUORANTHENE	26	62	62	J	UG/KG
BKLMSB009	BENZO(k)FLUORANTHENE	26	340	13	U	UG/KG
BKLMSB010	BENZO(k)FLUORANTHENE	26	350	13	U	UG/KG
BKLMSB011	BENZO(k)FLUORANTHENE	26	350	13	U	UG/KG
BKLMSB012	BENZO(k)FLUORANTHENE	26	370	13	U	UG/KG
BKLMSB013	BENZO(k)FLUORANTHENE	26	340	13	U	UG/KG
BKLMSB014	BENZO(k)FLUORANTHENE	26	360	13	U	UG/KG
BKLMSB015	BENZO(k)FLUORANTHENE	26	350	13	U	UG/KG
Mean				215.5862069		
Twice Mean				431.1724138		

StationID	Parameter	MDL	Result	Analytical Results or 1/2 MDL	Qual	Units
BKBDSB001	CADMIUM	0.087	0.18	0.0435	U	MG/KG
BKBDSB002	CADMIUM	0.087	0.086	0.086	J	MG/KG
BKBDSB003	CADMIUM	0.087	0.22	0.22	J	MG/KG
BKBDSB004	CADMIUM	0.087	0.093	0.0435	U	MG/KG
BKBDSB005	CADMIUM	0.087	0.15	0.15	J	MG/KG
BKBDSB006	CADMIUM	0.087	0.088	0.0435	U	MG/KG
BKBDSB007	CADMIUM	0.087	0.13	0.0435	U	MG/KG
BKBDSB008	CADMIUM	0.087	0.087	0.0435	U	MG/KG
BKBDSB009	CADMIUM	0.087	0.16	0.0435	U	MG/KG
BKBDSB010	CADMIUM	0.087	0.089	0.0435	U	MG/KG
BKBDSB011	CADMIUM	0.087	0.14	0.0435	U	MG/KG
BKBDSB012	CADMIUM	0.087	0.095	0.0435	U	MG/KG
BKBDSB013	CADMIUM	0.087	0.096	0.0435	U	MG/KG
BKBDSB014	CADMIUM	0.087	0.089	0.0435	U	MG/KG
BKBDSB015	CADMIUM	0.087	0.24	0.0435	U	MG/KG
BKFCSB001	CADMIUM	0.087	0.31	0.31	J	MG/KG
BKFCSB002	CADMIUM	0.087	0.57	0.57	J	MG/KG
BKFCSB003	CADMIUM	0.087	0.46	0.46	J	MG/KG
BKFCSB004	CADMIUM	0.087	0.18	0.18	J	MG/KG
BKFCSB005	CADMIUM	0.087	0.13	0.13	J	MG/KG
BKFCSB006	CADMIUM	0.087	0.096	0.0435	U	MG/KG
BKFCSB007	CADMIUM	0.087	0.2	0.2	J	MG/KG
BKFCSB008	CADMIUM	0.087	0.68	0.68	J	MG/KG
BKFCSB009	CADMIUM	0.087	0.67	0.67	J	MG/KG
BKFCSB010	CADMIUM	0.087	0.097	0.097	J	MG/KG
BKFCSB011	CADMIUM	0.087	0.082	0.0435	U	MG/KG
BKFCSB012	CADMIUM	0.087	0.097	0.0435	U	MG/KG
BKFCSB013	CADMIUM	0.087	0.086	0.0435	U	MG/KG
BKFCSB014	CADMIUM	0.087	0.8	0.8	J	MG/KG
BKFCSB015	CADMIUM	0.087	0.21	0.21	J	MG/KG
BKFSSB001	CADMIUM	0.087	0.094	0.094	J	MG/KG
BKFSSB002	CADMIUM	0.087	0.15	0.15	J	MG/KG
BKFSSB003	CADMIUM	0.087	0.21	0.21	J	MG/KG
BKFSSB004	CADMIUM	0.087	1.2	1.2	=	MG/KG
BKFSSB005	CADMIUM	0.087	0.084	0.0435	U	MG/KG
BKFSSB007	CADMIUM	0.087	0.27	0.27	J	MG/KG
BKFSSB008	CADMIUM	0.087	0.12	0.12	J	MG/KG
BKFSSB009	CADMIUM	0.087	0.51	0.51	J	MG/KG
BKFSSB010	CADMIUM	0.087	0.23	0.23	J	MG/KG
BKFSSB011	CADMIUM	0.087	0.53	0.53	J	MG/KG
BKFSSB012	CADMIUM	0.087	0.095	0.0435	U	MG/KG
BKFSSB013	CADMIUM	0.087	0.094	0.0435	U	MG/KG
BKFSSB014	CADMIUM	0.087	0.099	0.099	J	MG/KG
BKFSSB015	CADMIUM	0.087	0.35	0.35	J	MG/KG
BKLMSB001	CADMIUM	0.087	0.15	0.15	J	MG/KG
BKLMSB002	CADMIUM	0.087	0.12	0.12	J	MG/KG
BKLMSB003	CADMIUM	0.087	0.086	0.0435	U	MG/KG
BKLMSB004	CADMIUM	0.087	0.091	0.0435	U	MG/KG
BKLMSB006	CADMIUM	0.087	0.081	0.0435	U	MG/KG
BKLMSB007	CADMIUM	0.087	0.081	0.0435	U	MG/KG
BKLMSB008	CADMIUM	0.087	0.081	0.0435	U	MG/KG
BKLMSB009	CADMIUM	0.087	0.082	0.0435	U	MG/KG
BKLMSB010	CADMIUM	0.087	0.096	0.096	J	MG/KG
BKLMSB011	CADMIUM	0.087	0.092	0.0435	U	MG/KG
BKLMSB012	CADMIUM	0.087	0.088	0.0435	U	MG/KG
BKLMSB013	CADMIUM	0.087	0.091	0.0435	U	MG/KG
BKLMSB014	CADMIUM	0.087	0.087	0.0435	U	MG/KG
BKLMSB015	CADMIUM	0.087	0.24	0.24	J	MG/KG
Mean				0.179198276		
Twice Mean				0.358396552		

StationID	Parameter	MDL	Result	Analytical Results or 1/2 MDL	Qual	Units
BKBDSB001	CHROMIUM, TOTAL	0.17	3	3	=	MG/KG
BKBDSB002	CHROMIUM, TOTAL	0.17	3.8	3.8	=	MG/KG
BKBDSB003	CHROMIUM, TOTAL	0.17	18	18	=	MG/KG
BKBDSB004	CHROMIUM, TOTAL	0.17	1.9	0.085	U	MG/KG
BKBDSB005	CHROMIUM, TOTAL	0.17	3.6	3.6	=	MG/KG
BKBDSB006	CHROMIUM, TOTAL	0.17	2.6	2.6	=	MG/KG
BKBDSB007	CHROMIUM, TOTAL	0.17	4	4	=	MG/KG
BKBDSB008	CHROMIUM, TOTAL	0.17	1.1	0.085	U	MG/KG
BKBDSB009	CHROMIUM, TOTAL	0.17	3.9	3.9	=	MG/KG
BKBDSB010	CHROMIUM, TOTAL	0.17	5.2	5.2	=	MG/KG
BKBDSB011	CHROMIUM, TOTAL	0.17	3.6	3.6	=	MG/KG
BKBDSB012	CHROMIUM, TOTAL	0.17	1.9	1.9	J	MG/KG
BKBDSB013	CHROMIUM, TOTAL	0.17	3.6	3.6	=	MG/KG
BKBDSB014	CHROMIUM, TOTAL	0.17	1.7	1.7	J	MG/KG
BKBDSB015	CHROMIUM, TOTAL	0.17	2.9	2.9	=	MG/KG
BKFCSB001	CHROMIUM, TOTAL	0.17	3.5	3.5	=	MG/KG
BKFCSB002	CHROMIUM, TOTAL	0.17	5.9	5.9	=	MG/KG
BKFCSB003	CHROMIUM, TOTAL	0.17	5.1	5.1	=	MG/KG
BKFCSB004	CHROMIUM, TOTAL	0.17	3.5	3.5	=	MG/KG
BKFCSB005	CHROMIUM, TOTAL	0.17	3	3	=	MG/KG
BKFCSB006	CHROMIUM, TOTAL	0.17	3.4	3.4	=	MG/KG
BKFCSB007	CHROMIUM, TOTAL	0.17	3.7	3.7	=	MG/KG
BKFCSB008	CHROMIUM, TOTAL	0.17	5.8	5.8	=	MG/KG
BKFCSB009	CHROMIUM, TOTAL	0.17	70	70	=	MG/KG
BKFCSB010	CHROMIUM, TOTAL	0.17	3.7	3.7	=	MG/KG
BKFCSB011	CHROMIUM, TOTAL	0.17	2.1	2.1	=	MG/KG
BKFCSB012	CHROMIUM, TOTAL	0.17	4.5	4.5	=	MG/KG
BKFCSB013	CHROMIUM, TOTAL	0.17	1.7	1.7	J	MG/KG
BKFCSB014	CHROMIUM, TOTAL	0.17	11	11	=	MG/KG
BKFCSB015	CHROMIUM, TOTAL	0.17	5.1	5.1	=	MG/KG
BKFSSB001	CHROMIUM, TOTAL	0.17	3.6	3.6	=	MG/KG
BKFSSB002	CHROMIUM, TOTAL	0.17	2.8	2.8	=	MG/KG
BKFSSB003	CHROMIUM, TOTAL	0.17	4.4	4.4	=	MG/KG
BKFSSB004	CHROMIUM, TOTAL	0.17	9.3	9.3	=	MG/KG
BKFSSB005	CHROMIUM, TOTAL	0.17	1.2	1.2	J	MG/KG
BKFSSB007	CHROMIUM, TOTAL	0.17	3.8	3.8	=	MG/KG
BKFSSB008	CHROMIUM, TOTAL	0.17	6.5	6.5	=	MG/KG
BKFSSB009	CHROMIUM, TOTAL	0.17	5.6	5.6	=	MG/KG
BKFSSB010	CHROMIUM, TOTAL	0.17	15	15	=	MG/KG
BKFSSB011	CHROMIUM, TOTAL	0.17	23	23	=	MG/KG
BKFSSB012	CHROMIUM, TOTAL	0.17	2.5	2.5	=	MG/KG
BKFSSB013	CHROMIUM, TOTAL	0.17	2.4	2.4	=	MG/KG
BKFSSB014	CHROMIUM, TOTAL	0.17	3.3	3.3	=	MG/KG
BKFSSB015	CHROMIUM, TOTAL	0.17	39	39	=	MG/KG
BKLMSB001	CHROMIUM, TOTAL	0.17	2.2	2.2	=	MG/KG
BKLMSB002	CHROMIUM, TOTAL	0.17	3.2	3.2	=	MG/KG
BKLMSB003	CHROMIUM, TOTAL	0.17	2.7	2.7	=	MG/KG
BKLMSB004	CHROMIUM, TOTAL	0.17	1.4	1.4	J	MG/KG
BKLMSB006	CHROMIUM, TOTAL	0.17	1.3	1.3	J	MG/KG
BKLMSB007	CHROMIUM, TOTAL	0.17	2.8	2.8	=	MG/KG
BKLMSB008	CHROMIUM, TOTAL	0.17	3	3	=	MG/KG
BKLMSB009	CHROMIUM, TOTAL	0.17	1.4	1.4	J	MG/KG
BKLMSB010	CHROMIUM, TOTAL	0.17	4.1	4.1	=	MG/KG
BKLMSB011	CHROMIUM, TOTAL	0.17	1.6	1.6	J	MG/KG
BKLMSB012	CHROMIUM, TOTAL	0.17	3.4	3.4	=	MG/KG
BKLMSB013	CHROMIUM, TOTAL	0.17	2.6	2.6	=	MG/KG
BKLMSB014	CHROMIUM, TOTAL	0.17	3.7	3.7	=	MG/KG
BKLMSB015	CHROMIUM, TOTAL	0.17	4.2	4.2	=	MG/KG
Mean				6.033965517		
Twice Mean				12.06793103		

StationID	Parameter	MDL	Result	Analytical Results or 1/2 MDL	Qual	Units
BKBDSB001	CHRYSENE	21	25	25	J	UG/KG
BKBDSB002	CHRYSENE	21	350	10.5	U	UG/KG
BKBDSB003	CHRYSENE	21	500	500	=	UG/KG
BKBDSB004	CHRYSENE	21	350	10.5	U	UG/KG
BKBDSB005	CHRYSENE	21	340	10.5	U	UG/KG
BKBDSB006	CHRYSENE	21	370	10.5	U	UG/KG
BKBDSB007	CHRYSENE	21	55	55	J	UG/KG
BKBDSB008	CHRYSENE	21	360	10.5	U	UG/KG
BKBDSB009	CHRYSENE	21	57	57	J	UG/KG
BKBDSB010	CHRYSENE	21	370	10.5	U	UG/KG
BKBDSB011	CHRYSENE	21	64	64	J	UG/KG
BKBDSB012	CHRYSENE	21	360	10.5	U	UG/KG
BKBDSB013	CHRYSENE	21	370	10.5	U	UG/KG
BKBDSB014	CHRYSENE	21	340	10.5	U	UG/KG
BKBDSB015	CHRYSENE	21	360	10.5	U	UG/KG
BKFCSB001	CHRYSENE	21	370	10.5	U	UG/KG
BKFCSB002	CHRYSENE	21	500	500	=	UG/KG
BKFCSB003	CHRYSENE	21	220	220	J	UG/KG
BKFCSB004	CHRYSENE	21	370	10.5	U	UG/KG
BKFCSB005	CHRYSENE	21	370	10.5	U	UG/KG
BKFCSB006	CHRYSENE	21	1800	1800	=	UG/KG
BKFCSB007	CHRYSENE	21	410	410	=	UG/KG
BKFCSB008	CHRYSENE	21	110	110	J	UG/KG
BKFCSB009	CHRYSENE	21	200	200	J	UG/KG
BKFCSB010	CHRYSENE	21	600	600	=	UG/KG
BKFCSB011	CHRYSENE	21	73	73	J	UG/KG
BKFCSB012	CHRYSENE	21	40	40	J	UG/KG
BKFCSB013	CHRYSENE	21	360	10.5	U	UG/KG
BKFCSB014	CHRYSENE	21	37	37	J	UG/KG
BKFCSB015	CHRYSENE	21	72	72	J	UG/KG
BKFSSB001	CHRYSENE	21	520	520	=	UG/KG
BKFSSB002	CHRYSENE	21	39	39	J	UG/KG
BKFSSB003	CHRYSENE	21	54	54	J	UG/KG
BKFSSB004	CHRYSENE	21	2000	2000	J	UG/KG
BKFSSB005	CHRYSENE	21	350	10.5	U	UG/KG
BKFSSB007	CHRYSENE	21	53	53	J	UG/KG
BKFSSB008	CHRYSENE	21	380	10.5	U	UG/KG
BKFSSB009	CHRYSENE	21	4900	4900	=	UG/KG
BKFSSB010	CHRYSENE	21	60	60	J	UG/KG
BKFSSB011	CHRYSENE	21	140	140	J	UG/KG
BKFSSB012	CHRYSENE	21	360	10.5	U	UG/KG
BKFSSB013	CHRYSENE	21	390	10.5	U	UG/KG
BKFSSB014	CHRYSENE	21	34	34	J	UG/KG
BKFSSB015	CHRYSENE	21	160	160	J	UG/KG
BKLMSB001	CHRYSENE	21	350	10.5	U	UG/KG
BKLMSB002	CHRYSENE	21	1300	1300	=	UG/KG
BKLMSB003	CHRYSENE	21	360	10.5	U	UG/KG
BKLMSB004	CHRYSENE	21	340	10.5	U	UG/KG
BKLMSB006	CHRYSENE	21	340	10.5	U	UG/KG
BKLMSB007	CHRYSENE	21	26	26	J	UG/KG
BKLMSB008	CHRYSENE	21	83	83	J	UG/KG
BKLMSB009	CHRYSENE	21	340	10.5	U	UG/KG
BKLMSB010	CHRYSENE	21	26	26	J	UG/KG
BKLMSB011	CHRYSENE	21	350	10.5	U	UG/KG
BKLMSB012	CHRYSENE	21	370	10.5	U	UG/KG
BKLMSB013	CHRYSENE	21	340	10.5	U	UG/KG
BKLMSB014	CHRYSENE	21	360	10.5	U	UG/KG
BKLMSB015	CHRYSENE	21	350	10.5	U	UG/KG
Mean				249.1724138		
Twice Mean				498.3448276		

StationID	Parameter	MDL	Result	Analytical Results or 1/2 MDL	Qual	Units
BKBDSB001	COPPER	0.72	2.8	2.8	J	MG/KG
BKBDSB002	COPPER	0.72	3	3	J	MG/KG
BKBDSB003	COPPER	0.72	11	11	=	MG/KG
BKBDSB004	COPPER	0.72	0.98	0.98	J	MG/KG
BKBDSB005	COPPER	0.72	8.9	8.9	=	MG/KG
BKBDSB006	COPPER	0.72	25	25	=	MG/KG
BKBDSB007	COPPER	0.72	4.4	4.4	J	MG/KG
BKBDSB008	COPPER	0.72	2.3	2.3	J	MG/KG
BKBDSB009	COPPER	0.72	6.3	6.3	=	MG/KG
BKBDSB010	COPPER	0.72	3	3	J	MG/KG
BKBDSB011	COPPER	0.72	12	12	=	MG/KG
BKBDSB012	COPPER	0.72	1.2	1.2	J	MG/KG
BKBDSB013	COPPER	0.72	4.2	4.2	J	MG/KG
BKBDSB014	COPPER	0.72	1.3	1.3	J	MG/KG
BKBDSB015	COPPER	0.72	2.8	2.8	J	MG/KG
BKFCSB001	COPPER	0.72	12	12	J	MG/KG
BKFCSB002	COPPER	0.72	20	20	=	MG/KG
BKFCSB003	COPPER	0.72	18	18	=	MG/KG
BKFCSB004	COPPER	0.72	5	5	J	MG/KG
BKFCSB005	COPPER	0.72	3.2	3.2	J	MG/KG
BKFCSB006	COPPER	0.72	6	6	=	MG/KG
BKFCSB007	COPPER	0.72	6.5	6.5	=	MG/KG
BKFCSB008	COPPER	0.72	47	47	J	MG/KG
BKFCSB009	COPPER	0.72	20	20	=	MG/KG
BKFCSB010	COPPER	0.72	3.8	3.8	J	MG/KG
BKFCSB011	COPPER	0.72	1.2	1.2	J	MG/KG
BKFCSB012	COPPER	0.72	3.4	3.4	J	MG/KG
BKFCSB013	COPPER	0.72	4.9	4.9	J	MG/KG
BKFCSB014	COPPER	0.72	8.1	8.1	J	MG/KG
BKFCSB015	COPPER	0.72	7.4	7.4	=	MG/KG
BKFSSB001	COPPER	0.72	6.5	6.5	=	MG/KG
BKFSSB002	COPPER	0.72	4.1	4.1	J	MG/KG
BKFSSB003	COPPER	0.72	6.2	6.2	J	MG/KG
BKFSSB004	COPPER	0.72	32	32	=	MG/KG
BKFSSB005	COPPER	0.72	0.9	0.9	J	MG/KG
BKFSSB007	COPPER	0.72	17	17	=	MG/KG
BKFSSB008	COPPER	0.72	3.6	3.6	J	MG/KG
BKFSSB009	COPPER	0.72	40	40	=	MG/KG
BKFSSB010	COPPER	0.72	10	10	J	MG/KG
BKFSSB011	COPPER	0.72	6.6	6.6	J	MG/KG
BKFSSB012	COPPER	0.72	2.1	2.1	J	MG/KG
BKFSSB013	COPPER	0.72	1.6	1.6	J	MG/KG
BKFSSB014	COPPER	0.72	3.6	3.6	J	MG/KG
BKFSSB015	COPPER	0.72	7.3	7.3	=	MG/KG
BKLMSB001	COPPER	0.72	2.1	2.1	J	MG/KG
BKLMSB002	COPPER	0.72	5.6	5.6	=	MG/KG
BKLMSB003	COPPER	0.72	1.9	1.9	J	MG/KG
BKLMSB004	COPPER	0.72	0.75	0.36	U	MG/KG
BKLMSB006	COPPER	0.72	0.67	0.36	U	MG/KG
BKLMSB007	COPPER	0.72	1.9	1.9	J	MG/KG
BKLMSB008	COPPER	0.72	3.6	3.6	J	MG/KG
BKLMSB009	COPPER	0.72	4.4	4.4	J	MG/KG
BKLMSB010	COPPER	0.72	4.4	4.4	J	MG/KG
BKLMSB011	COPPER	0.72	1.1	1.1	J	MG/KG
BKLMSB012	COPPER	0.72	1.8	1.8	J	MG/KG
BKLMSB013	COPPER	0.72	1	1	J	MG/KG
BKLMSB014	COPPER	0.72	1.1	1.1	J	MG/KG
BKLMSB015	COPPER	0.72	3.5	3.5	J	MG/KG
Mean				7.418965517		
Twice Mean				14.83793103		

StationID	Parameter	MDL	Result	Analytical Results or 1/2 MDL	Qual	Units
BKBDSB001	DIBENZ(a,h)ANTHRACENE	52	360	26	U	UG/KG
BKBDSB002	DIBENZ(a,h)ANTHRACENE	52	350	26	U	UG/KG
BKBDSB003	DIBENZ(a,h)ANTHRACENE	52	350	26	U	UG/KG
BKBDSB004	DIBENZ(a,h)ANTHRACENE	52	350	26	U	UG/KG
BKBDSB005	DIBENZ(a,h)ANTHRACENE	52	340	26	U	UG/KG
BKBDSB006	DIBENZ(a,h)ANTHRACENE	52	370	26	U	UG/KG
BKBDSB007	DIBENZ(a,h)ANTHRACENE	52	370	26	U	UG/KG
BKBDSB008	DIBENZ(a,h)ANTHRACENE	52	360	26	U	UG/KG
BKBDSB009	DIBENZ(a,h)ANTHRACENE	52	360	26	U	UG/KG
BKBDSB010	DIBENZ(a,h)ANTHRACENE	52	370	26	U	UG/KG
BKBDSB011	DIBENZ(a,h)ANTHRACENE	52	340	26	U	UG/KG
BKBDSB012	DIBENZ(a,h)ANTHRACENE	52	360	26	U	UG/KG
BKBDSB013	DIBENZ(a,h)ANTHRACENE	52	370	26	U	UG/KG
BKBDSB014	DIBENZ(a,h)ANTHRACENE	52	340	26	U	UG/KG
BKBDSB015	DIBENZ(a,h)ANTHRACENE	52	360	26	U	UG/KG
BKFCSB001	DIBENZ(a,h)ANTHRACENE	52	370	26	U	UG/KG
BKFCSB002	DIBENZ(a,h)ANTHRACENE	52	110	110	J	UG/KG
BKFCSB003	DIBENZ(a,h)ANTHRACENE	52	370	26	U	UG/KG
BKFCSB004	DIBENZ(a,h)ANTHRACENE	52	370	26	U	UG/KG
BKFCSB005	DIBENZ(a,h)ANTHRACENE	52	370	26	U	UG/KG
BKFCSB006	DIBENZ(a,h)ANTHRACENE	52	360	26	U	UG/KG
BKFCSB007	DIBENZ(a,h)ANTHRACENE	52	350	26	U	UG/KG
BKFCSB008	DIBENZ(a,h)ANTHRACENE	52	350	26	U	UG/KG
BKFCSB009	DIBENZ(a,h)ANTHRACENE	52	360	26	U	UG/KG
BKFCSB010	DIBENZ(a,h)ANTHRACENE	52	350	26	U	UG/KG
BKFCSB011	DIBENZ(a,h)ANTHRACENE	52	340	26	U	UG/KG
BKFCSB012	DIBENZ(a,h)ANTHRACENE	52	370	26	U	UG/KG
BKFCSB013	DIBENZ(a,h)ANTHRACENE	52	360	26	U	UG/KG
BKFCSB014	DIBENZ(a,h)ANTHRACENE	52	370	26	U	UG/KG
BKFCSB015	DIBENZ(a,h)ANTHRACENE	52	340	26	U	UG/KG
BKFSSB001	DIBENZ(a,h)ANTHRACENE	52	340	26	U	UG/KG
BKFSSB002	DIBENZ(a,h)ANTHRACENE	52	360	26	U	UG/KG
BKFSSB003	DIBENZ(a,h)ANTHRACENE	52	350	26	U	UG/KG
BKFSSB004	DIBENZ(a,h)ANTHRACENE	52	7100	26	U	UG/KG
BKFSSB005	DIBENZ(a,h)ANTHRACENE	52	350	26	U	UG/KG
BKFSSB007	DIBENZ(a,h)ANTHRACENE	52	370	26	U	UG/KG
BKFSSB008	DIBENZ(a,h)ANTHRACENE	52	380	26	U	UG/KG
BKFSSB009	DIBENZ(a,h)ANTHRACENE	52	430	430	=	UG/KG
BKFSSB010	DIBENZ(a,h)ANTHRACENE	52	380	26	U	UG/KG
BKFSSB011	DIBENZ(a,h)ANTHRACENE	52	360	26	U	UG/KG
BKFSSB012	DIBENZ(a,h)ANTHRACENE	52	360	26	U	UG/KG
BKFSSB013	DIBENZ(a,h)ANTHRACENE	52	390	26	U	UG/KG
BKFSSB014	DIBENZ(a,h)ANTHRACENE	52	380	26	U	UG/KG
BKFSSB015	DIBENZ(a,h)ANTHRACENE	52	350	26	U	UG/KG
BKLMSB001	DIBENZ(a,h)ANTHRACENE	52	350	26	U	UG/KG
BKLMSB002	DIBENZ(a,h)ANTHRACENE	52	210	210	J	UG/KG
BKLMSB003	DIBENZ(a,h)ANTHRACENE	52	360	26	U	UG/KG
BKLMSB004	DIBENZ(a,h)ANTHRACENE	52	340	26	U	UG/KG
BKLMSB006	DIBENZ(a,h)ANTHRACENE	52	340	26	U	UG/KG
BKLMSB007	DIBENZ(a,h)ANTHRACENE	52	340	26	U	UG/KG
BKLMSB008	DIBENZ(a,h)ANTHRACENE	52	340	26	U	UG/KG
BKLMSB009	DIBENZ(a,h)ANTHRACENE	52	340	26	U	UG/KG
BKLMSB010	DIBENZ(a,h)ANTHRACENE	52	350	26	U	UG/KG
BKLMSB011	DIBENZ(a,h)ANTHRACENE	52	350	26	U	UG/KG
BKLMSB012	DIBENZ(a,h)ANTHRACENE	52	370	26	U	UG/KG
BKLMSB013	DIBENZ(a,h)ANTHRACENE	52	340	26	U	UG/KG
BKLMSB014	DIBENZ(a,h)ANTHRACENE	52	360	26	U	UG/KG
BKLMSB015	DIBENZ(a,h)ANTHRACENE	52	350	26	U	UG/KG
Mean				37.5862069		
Twice Mean				75.17241379		

3 10 600

StationID	Parameter	MDL	Result	Analytical Results or 1/2 MDL	Qual	Units
BKBDSB001	INDENO(1,2,3-c,d)PYRENE	67	360	33.5	U	UG/KG
BKBDSB002	INDENO(1,2,3-c,d)PYRENE	67	350	33.5	U	UG/KG
BKBDSB003	INDENO(1,2,3-c,d)PYRENE	67	170	170	J	UG/KG
BKBDSB004	INDENO(1,2,3-c,d)PYRENE	67	350	33.5	U	UG/KG
BKBDSB005	INDENO(1,2,3-c,d)PYRENE	67	340	33.5	U	UG/KG
BKBDSB006	INDENO(1,2,3-c,d)PYRENE	67	370	33.5	U	UG/KG
BKBDSB007	INDENO(1,2,3-c,d)PYRENE	67	370	33.5	U	UG/KG
BKBDSB008	INDENO(1,2,3-c,d)PYRENE	67	360	33.5	U	UG/KG
BKBDSB009	INDENO(1,2,3-c,d)PYRENE	67	360	33.5	U	UG/KG
BKBDSB010	INDENO(1,2,3-c,d)PYRENE	67	370	33.5	U	UG/KG
BKBDSB011	INDENO(1,2,3-c,d)PYRENE	67	340	33.5	U	UG/KG
BKBDSB012	INDENO(1,2,3-c,d)PYRENE	67	360	33.5	U	UG/KG
BKBDSB013	INDENO(1,2,3-c,d)PYRENE	67	370	33.5	U	UG/KG
BKBDSB014	INDENO(1,2,3-c,d)PYRENE	67	340	33.5	U	UG/KG
BKBDSB015	INDENO(1,2,3-c,d)PYRENE	67	360	33.5	U	UG/KG
BKFCSB001	INDENO(1,2,3-c,d)PYRENE	67	370	33.5	U	UG/KG
BKFCSB002	INDENO(1,2,3-c,d)PYRENE	67	360	360	J	UG/KG
BKFCSB003	INDENO(1,2,3-c,d)PYRENE	67	100	100	J	UG/KG
BKFCSB004	INDENO(1,2,3-c,d)PYRENE	67	370	33.5	U	UG/KG
BKFCSB005	INDENO(1,2,3-c,d)PYRENE	67	370	33.5	U	UG/KG
BKFCSB006	INDENO(1,2,3-c,d)PYRENE	67	730	730	=	UG/KG
BKFCSB007	INDENO(1,2,3-c,d)PYRENE	67	140	140	J	UG/KG
BKFCSB008	INDENO(1,2,3-c,d)PYRENE	67	97	97	J	UG/KG
BKFCSB009	INDENO(1,2,3-c,d)PYRENE	67	100	100	J	UG/KG
BKFCSB010	INDENO(1,2,3-c,d)PYRENE	67	330	330	J	UG/KG
BKFCSB011	INDENO(1,2,3-c,d)PYRENE	67	340	33.5	U	UG/KG
BKFCSB012	INDENO(1,2,3-c,d)PYRENE	67	370	33.5	U	UG/KG
BKFCSB013	INDENO(1,2,3-c,d)PYRENE	67	360	33.5	U	UG/KG
BKFCSB014	INDENO(1,2,3-c,d)PYRENE	67	370	33.5	U	UG/KG
BKFCSB015	INDENO(1,2,3-c,d)PYRENE	67	340	33.5	U	UG/KG
BKFSSB001	INDENO(1,2,3-c,d)PYRENE	67	220	220	J	UG/KG
BKFSSB002	INDENO(1,2,3-c,d)PYRENE	67	360	33.5	U	UG/KG
BKFSSB003	INDENO(1,2,3-c,d)PYRENE	67	350	33.5	U	UG/KG
BKFSSB004	INDENO(1,2,3-c,d)PYRENE	67	7100	33.5	U	UG/KG
BKFSSB005	INDENO(1,2,3-c,d)PYRENE	67	350	33.5	U	UG/KG
BKFSSB007	INDENO(1,2,3-c,d)PYRENE	67	370	33.5	U	UG/KG
BKFSSB008	INDENO(1,2,3-c,d)PYRENE	67	380	33.5	U	UG/KG
BKFSSB009	INDENO(1,2,3-c,d)PYRENE	67	4500	4500	=	UG/KG
BKFSSB010	INDENO(1,2,3-c,d)PYRENE	67	380	33.5	U	UG/KG
BKFSSB011	INDENO(1,2,3-c,d)PYRENE	67	78	78	J	UG/KG
BKFSSB012	INDENO(1,2,3-c,d)PYRENE	67	360	33.5	U	UG/KG
BKFSSB013	INDENO(1,2,3-c,d)PYRENE	67	390	33.5	U	UG/KG
BKFSSB014	INDENO(1,2,3-c,d)PYRENE	67	380	33.5	U	UG/KG
BKFSSB015	INDENO(1,2,3-c,d)PYRENE	67	350	33.5	U	UG/KG
BKLMSB001	INDENO(1,2,3-c,d)PYRENE	67	350	33.5	U	UG/KG
BKLMSB002	INDENO(1,2,3-c,d)PYRENE	67	760	760	=	UG/KG
BKLMSB003	INDENO(1,2,3-c,d)PYRENE	67	360	33.5	U	UG/KG
BKLMSB004	INDENO(1,2,3-c,d)PYRENE	67	340	33.5	U	UG/KG
BKLMSB006	INDENO(1,2,3-c,d)PYRENE	67	340	33.5	U	UG/KG
BKLMSB007	INDENO(1,2,3-c,d)PYRENE	67	340	33.5	U	UG/KG
BKLMSB008	INDENO(1,2,3-c,d)PYRENE	67	340	33.5	U	UG/KG
BKLMSB009	INDENO(1,2,3-c,d)PYRENE	67	340	33.5	U	UG/KG
BKLMSB010	INDENO(1,2,3-c,d)PYRENE	67	350	33.5	U	UG/KG
BKLMSB011	INDENO(1,2,3-c,d)PYRENE	67	350	33.5	U	UG/KG
BKLMSB012	INDENO(1,2,3-c,d)PYRENE	67	370	33.5	U	UG/KG
BKLMSB013	INDENO(1,2,3-c,d)PYRENE	67	340	33.5	U	UG/KG
BKLMSB014	INDENO(1,2,3-c,d)PYRENE	67	360	33.5	U	UG/KG
BKLMSB015	INDENO(1,2,3-c,d)PYRENE	67	350	33.5	U	UG/KG
Mean				157.3448276		
Twice Mean				314.6896552		

StationID	Parameter	MDL	Result	Analytical Results or 1/2 MDL	Qual	Units
BKBDSB001	LEAD	0.42	14	14	=	MG/KG
BKBDSB002	LEAD	0.42	21	21	=	MG/KG
BKBDSB003	LEAD	0.42	31	31	=	MG/KG
BKBDSB004	LEAD	0.42	12	12	=	MG/KG
BKBDSB005	LEAD	0.42	39	39	=	MG/KG
BKBDSB006	LEAD	0.42	9.1	9.1	=	MG/KG
BKBDSB007	LEAD	0.42	39	39	=	MG/KG
BKBDSB008	LEAD	0.42	38	38	=	MG/KG
BKBDSB009	LEAD	0.42	31	31	=	MG/KG
BKBDSB010	LEAD	0.42	15	15	=	MG/KG
BKBDSB011	LEAD	0.42	41	41	=	MG/KG
BKBDSB012	LEAD	0.42	7.9	7.9	=	MG/KG
BKBDSB013	LEAD	0.42	12	12	=	MG/KG
BKBDSB014	LEAD	0.42	10	10	=	MG/KG
BKBDSB015	LEAD	0.42	39	39	=	MG/KG
BKFCSB001	LEAD	0.42	55	55	J	MG/KG
BKFCSB002	LEAD	0.42	160	160	=	MG/KG
BKFCSB003	LEAD	0.42	52	52	=	MG/KG
BKFCSB004	LEAD	0.42	29	29	=	MG/KG
BKFCSB005	LEAD	0.42	17	17	=	MG/KG
BKFCSB006	LEAD	0.42	56	56	=	MG/KG
BKFCSB007	LEAD	0.42	27	27	=	MG/KG
BKFCSB008	LEAD	0.42	230	230	J	MG/KG
BKFCSB009	LEAD	0.42	51	51	=	MG/KG
BKFCSB010	LEAD	0.42	24	24	J	MG/KG
BKFCSB011	LEAD	0.42	4.2	4.2	=	MG/KG
BKFCSB012	LEAD	0.42	11	11	=	MG/KG
BKFCSB013	LEAD	0.42	28	28	=	MG/KG
BKFCSB014	LEAD	0.42	34	34	J	MG/KG
BKFCSB015	LEAD	0.42	21	21	=	MG/KG
BKFSSB001	LEAD	0.42	83	83	=	MG/KG
BKFSSB002	LEAD	0.42	40	40	=	MG/KG
BKFSSB003	LEAD	0.42	33	33	J	MG/KG
BKFSSB004	LEAD	0.42	340	340	=	MG/KG
BKFSSB005	LEAD	0.42	8.1	8.1	=	MG/KG
BKFSSB007	LEAD	0.42	63	63	=	MG/KG
BKFSSB008	LEAD	0.42	35	35	=	MG/KG
BKFSSB009	LEAD	0.42	180	180	=	MG/KG
BKFSSB010	LEAD	0.42	64	64	J	MG/KG
BKFSSB011	LEAD	0.42	68	68	J	MG/KG
BKFSSB012	LEAD	0.42	16	16	=	MG/KG
BKFSSB013	LEAD	0.42	27	27	=	MG/KG
BKFSSB014	LEAD	0.42	29	29	=	MG/KG
BKFSSB015	LEAD	0.42	50	50	=	MG/KG
BKLMSB001	LEAD	0.42	18	18	=	MG/KG
BKLMSB002	LEAD	0.42	29	29	=	MG/KG
BKLMSB003	LEAD	0.42	13	13	=	MG/KG
BKLMSB004	LEAD	0.42	6	6	=	MG/KG
BKLMSB006	LEAD	0.42	2.9	2.9	=	MG/KG
BKLMSB007	LEAD	0.42	6.8	6.8	=	MG/KG
BKLMSB008	LEAD	0.42	7.7	7.7	=	MG/KG
BKLMSB009	LEAD	0.42	14	14	=	MG/KG
BKLMSB010	LEAD	0.42	51	51	=	MG/KG
BKLMSB011	LEAD	0.42	9.9	9.9	=	MG/KG
BKLMSB012	LEAD	0.42	42	42	=	MG/KG
BKLMSB013	LEAD	0.42	5.7	5.7	=	MG/KG
BKLMSB014	LEAD	0.42	18	18	=	MG/KG
BKLMSB015	LEAD	0.42	44	44	=	MG/KG
Mean				42.45344828		
Twice Mean				84.90689655		

3 10 C602

StationID	Parameter	MDL	Result	Analytical Results or 1/2 MDL	Qual	Units
BKBDSB001	MANGANESE	0.21	14	14	=	MG/KG
BKBDSB002	MANGANESE	0.21	23	23	=	MG/KG
BKBDSB003	MANGANESE	0.21	23	23	=	MG/KG
BKBDSB004	MANGANESE	0.21	2.8	2.8	J	MG/KG
BKBDSB005	MANGANESE	0.21	13	13	=	MG/KG
BKBDSB006	MANGANESE	0.21	8.6	8.6	=	MG/KG
BKBDSB007	MANGANESE	0.21	20	20	=	MG/KG
BKBDSB008	MANGANESE	0.21	3.9	3.9	=	MG/KG
BKBDSB009	MANGANESE	0.21	16	16	=	MG/KG
BKBDSB010	MANGANESE	0.21	4.9	4.9	=	MG/KG
BKBDSB011	MANGANESE	0.21	28	28	=	MG/KG
BKBDSB012	MANGANESE	0.21	5.4	5.4	=	MG/KG
BKBDSB013	MANGANESE	0.21	25	25	=	MG/KG
BKBDSB014	MANGANESE	0.21	7	7	=	MG/KG
BKBDSB015	MANGANESE	0.21	9.3	9.3	=	MG/KG
BKFCSB001	MANGANESE	0.21	25	25	=	MG/KG
BKFCSB002	MANGANESE	0.21	42	42	J	MG/KG
BKFCSB003	MANGANESE	0.21	23	23	=	MG/KG
BKFCSB004	MANGANESE	0.21	16	16	J	MG/KG
BKFCSB005	MANGANESE	0.21	18	18	J	MG/KG
BKFCSB006	MANGANESE	0.21	15	15	=	MG/KG
BKFCSB007	MANGANESE	0.21	12	12	=	MG/KG
BKFCSB008	MANGANESE	0.21	45	45	=	MG/KG
BKFCSB009	MANGANESE	0.21	45	45	J	MG/KG
BKFCSB010	MANGANESE	0.21	34	34	=	MG/KG
BKFCSB011	MANGANESE	0.21	3.6	3.6	=	MG/KG
BKFCSB012	MANGANESE	0.21	26	26	J	MG/KG
BKFCSB013	MANGANESE	0.21	15	15	=	MG/KG
BKFCSB014	MANGANESE	0.21	25	25	=	MG/KG
BKFCSB015	MANGANESE	0.21	22	22	=	MG/KG
BKFSSB001	MANGANESE	0.21	9.5	9.5	=	MG/KG
BKFSSB002	MANGANESE	0.21	12	12	=	MG/KG
BKFSSB003	MANGANESE	0.21	8	8	=	MG/KG
BKFSSB004	MANGANESE	0.21	69	69	J	MG/KG
BKFSSB005	MANGANESE	0.21	3.3	3.3	J	MG/KG
BKFSSB007	MANGANESE	0.21	39	39	=	MG/KG
BKFSSB008	MANGANESE	0.21	19	19	=	MG/KG
BKFSSB009	MANGANESE	0.21	66	66	J	MG/KG
BKFSSB010	MANGANESE	0.21	43	43	=	MG/KG
BKFSSB011	MANGANESE	0.21	85	85	=	MG/KG
BKFSSB012	MANGANESE	0.21	6.3	6.3	=	MG/KG
BKFSSB013	MANGANESE	0.21	4.2	4.2	J	MG/KG
BKFSSB014	MANGANESE	0.21	13	13	=	MG/KG
BKFSSB015	MANGANESE	0.21	17	17	=	MG/KG
BKLMSB001	MANGANESE	0.21	15	15	=	MG/KG
BKLMSB002	MANGANESE	0.21	49	49	J	MG/KG
BKLMSB003	MANGANESE	0.21	5	5	=	MG/KG
BKLMSB004	MANGANESE	0.21	14	14	=	MG/KG
BKLMSB006	MANGANESE	0.21	19	19	=	MG/KG
BKLMSB007	MANGANESE	0.21	34	34	=	MG/KG
BKLMSB008	MANGANESE	0.21	42	42	=	MG/KG
BKLMSB009	MANGANESE	0.21	8.2	8.2	J	MG/KG
BKLMSB010	MANGANESE	0.21	17	17	=	MG/KG
BKLMSB011	MANGANESE	0.21	46	46	J	MG/KG
BKLMSB012	MANGANESE	0.21	10	10	=	MG/KG
BKLMSB013	MANGANESE	0.21	38	38	=	MG/KG
BKLMSB014	MANGANESE	0.21	57	57	J	MG/KG
BKLMSB015	MANGANESE	0.21	27	27	=	MG/KG
Mean				23.20689655		
Twice Mean				46.4137931		

3 10 0603

StationID	Parameter	MDL	Result	Analytical Results or 1/2 MDL	Qual	Units
BKBDSB001	NICKEL	0.43	0.81	0.81	J	MG/KG
BKBDSB002	NICKEL	0.43	1	1	J	MG/KG
BKBDSB003	NICKEL	0.43	9.9	9.9	=	MG/KG
BKBDSB004	NICKEL	0.43	0.46	0.215	U	MG/KG
BKBDSB005	NICKEL	0.43	1.2	1.2	J	MG/KG
BKBDSB006	NICKEL	0.43	1.1	1.1	J	MG/KG
BKBDSB007	NICKEL	0.43	1.2	1.2	J	MG/KG
BKBDSB008	NICKEL	0.43	1.1	1.1	J	MG/KG
BKBDSB009	NICKEL	0.43	1.2	1.2	J	MG/KG
BKBDSB010	NICKEL	0.43	0.79	0.79	J	MG/KG
BKBDSB011	NICKEL	0.43	1.4	1.4	J	MG/KG
BKBDSB012	NICKEL	0.43	0.71	0.71	J	MG/KG
BKBDSB013	NICKEL	0.43	1.2	1.2	J	MG/KG
BKBDSB014	NICKEL	0.43	0.56	0.56	J	MG/KG
BKBDSB015	NICKEL	0.43	1.9	1.9	J	MG/KG
BKFCSB001	NICKEL	0.43	1.9	1.9	J	MG/KG
BKFCSB002	NICKEL	0.43	3.5	3.5	J	MG/KG
BKFCSB003	NICKEL	0.43	1.5	1.5	J	MG/KG
BKFCSB004	NICKEL	0.43	1.5	1.5	J	MG/KG
BKFCSB005	NICKEL	0.43	1.1	1.1	J	MG/KG
BKFCSB006	NICKEL	0.43	1.7	1.7	J	MG/KG
BKFCSB007	NICKEL	0.43	1.8	1.8	J	MG/KG
BKFCSB008	NICKEL	0.43	3.7	3.7	J	MG/KG
BKFCSB009	NICKEL	0.43	2.8	2.8	J	MG/KG
BKFCSB010	NICKEL	0.43	1.1	1.1	J	MG/KG
BKFCSB011	NICKEL	0.43	0.59	0.59	J	MG/KG
BKFCSB012	NICKEL	0.43	0.8	0.8	J	MG/KG
BKFCSB013	NICKEL	0.43	0.65	0.65	J	MG/KG
BKFCSB014	NICKEL	0.43	3.2	3.2	J	MG/KG
BKFCSB015	NICKEL	0.43	1.8	1.8	J	MG/KG
BKFSSB001	NICKEL	0.43	1.5	1.5	J	MG/KG
BKFSSB002	NICKEL	0.43	1.1	1.1	J	MG/KG
BKFSSB003	NICKEL	0.43	0.98	0.98	J	MG/KG
BKFSSB004	NICKEL	0.43	5.2	5.2	J	MG/KG
BKFSSB005	NICKEL	0.43	0.42	0.215	U	MG/KG
BKFSSB007	NICKEL	0.43	2	2	J	MG/KG
BKFSSB008	NICKEL	0.43	2.1	2.1	J	MG/KG
BKFSSB009	NICKEL	0.43	2.9	2.9	J	MG/KG
BKFSSB010	NICKEL	0.43	1.9	1.9	J	MG/KG
BKFSSB011	NICKEL	0.43	3.1	3.1	J	MG/KG
BKFSSB012	NICKEL	0.43	0.75	0.75	J	MG/KG
BKFSSB013	NICKEL	0.43	0.9	0.9	J	MG/KG
BKFSSB014	NICKEL	0.43	1.2	1.2	J	MG/KG
BKFSSB015	NICKEL	0.43	3.3	3.3	J	MG/KG
BKLMSB001	NICKEL	0.43	0.53	0.53	J	MG/KG
BKLMSB002	NICKEL	0.43	1.3	1.3	J	MG/KG
BKLMSB003	NICKEL	0.43	1	1	J	MG/KG
BKLMSB004	NICKEL	0.43	0.47	0.47	J	MG/KG
BKLMSB006	NICKEL	0.43	0.44	0.44	J	MG/KG
BKLMSB007	NICKEL	0.43	0.64	0.64	J	MG/KG
BKLMSB008	NICKEL	0.43	0.96	0.96	J	MG/KG
BKLMSB009	NICKEL	0.43	0.63	0.63	J	MG/KG
BKLMSB010	NICKEL	0.43	1.2	1.2	J	MG/KG
BKLMSB011	NICKEL	0.43	0.57	0.57	J	MG/KG
BKLMSB012	NICKEL	0.43	1.1	1.1	J	MG/KG
BKLMSB013	NICKEL	0.43	1.2	1.2	J	MG/KG
BKLMSB014	NICKEL	0.43	0.83	0.83	J	MG/KG
BKLMSB015	NICKEL	0.43	1.8	1.8	J	MG/KG
Mean				1.581724138		
Twice Mean				3.163448276		

StationID	Parameter	MDL	Result	Analytical Results or 1/2 MDL	Qual	Units
BKBDSB001	PCB-1254 (AROCHLOR 1254)	8.2	36	4.1	U	UG/KG
BKBDSB002	PCB-1254 (AROCHLOR 1254)	8.2	70	4.1	U	UG/KG
BKBDSB003	PCB-1254 (AROCHLOR 1254)	8.2	35	4.1	U	UG/KG
BKBDSB004	PCB-1254 (AROCHLOR 1254)	8.2	35	4.1	U	UG/KG
BKBDSB005	PCB-1254 (AROCHLOR 1254)	8.2	34	4.1	U	UG/KG
BKBDSB006	PCB-1254 (AROCHLOR 1254)	8.2	37	4.1	U	UG/KG
BKBDSB007	PCB-1254 (AROCHLOR 1254)	8.2	36	4.1	U	UG/KG
BKBDSB008	PCB-1254 (AROCHLOR 1254)	8.2	36	4.1	U	UG/KG
BKBDSB009	PCB-1254 (AROCHLOR 1254)	8.2	36	4.1	U	UG/KG
BKBDSB010	PCB-1254 (AROCHLOR 1254)	8.2	37	4.1	U	UG/KG
BKBDSB011	PCB-1254 (AROCHLOR 1254)	8.2	34	4.1	U	UG/KG
BKBDSB012	PCB-1254 (AROCHLOR 1254)	8.2	36	4.1	U	UG/KG
BKBDSB013	PCB-1254 (AROCHLOR 1254)	8.2	37	0	R	UG/KG
BKBDSB014	PCB-1254 (AROCHLOR 1254)	8.2	34	4.1	U	UG/KG
BKBDSB015	PCB-1254 (AROCHLOR 1254)	8.2	36	4.1	U	UG/KG
BKFCSB001	PCB-1254 (AROCHLOR 1254)	8.2	37	4.1	U	UG/KG
BKFCSB002	PCB-1254 (AROCHLOR 1254)	8.2	37	4.1	U	UG/KG
BKFCSB003	PCB-1254 (AROCHLOR 1254)	8.2	37	4.1	UJ	UG/KG
BKFCSB004	PCB-1254 (AROCHLOR 1254)	8.2	37	4.1	U	UG/KG
BKFCSB005	PCB-1254 (AROCHLOR 1254)	8.2	37	4.1	U	UG/KG
BKFCSB006	PCB-1254 (AROCHLOR 1254)	8.2	36	4.1	U	UG/KG
BKFCSB007	PCB-1254 (AROCHLOR 1254)	8.2	35	4.1	U	UG/KG
BKFCSB008	PCB-1254 (AROCHLOR 1254)	8.2	35	4.1	U	UG/KG
BKFCSB009	PCB-1254 (AROCHLOR 1254)	8.2	36	4.1	U	UG/KG
BKFCSB010	PCB-1254 (AROCHLOR 1254)	8.2	35	4.1	U	UG/KG
BKFCSB011	PCB-1254 (AROCHLOR 1254)	8.2	34	4.1	U	UG/KG
BKFCSB012	PCB-1254 (AROCHLOR 1254)	8.2	37	4.1	U	UG/KG
BKFCSB013	PCB-1254 (AROCHLOR 1254)	8.2	36	4.1	UJ	UG/KG
BKFCSB014	PCB-1254 (AROCHLOR 1254)	8.2	37	4.1	U	UG/KG
BKFCSB015	PCB-1254 (AROCHLOR 1254)	8.2	34	4.1	U	UG/KG
BKFSSB001	PCB-1254 (AROCHLOR 1254)	8.2	34	4.1	U	UG/KG
BKFSSB002	PCB-1254 (AROCHLOR 1254)	8.2	36	4.1	U	UG/KG
BKFSSB003	PCB-1254 (AROCHLOR 1254)	8.2	35	4.1	U	UG/KG
BKFSSB004	PCB-1254 (AROCHLOR 1254)	8.2	35	4.1	U	UG/KG
BKFSSB005	PCB-1254 (AROCHLOR 1254)	8.2	35	4.1	U	UG/KG
BKFSSB007	PCB-1254 (AROCHLOR 1254)	8.2	37	4.1	U	UG/KG
BKFSSB008	PCB-1254 (AROCHLOR 1254)	8.2	38	4.1	U	UG/KG
BKFSSB009	PCB-1254 (AROCHLOR 1254)	8.2	35	4.1	U	UG/KG
BKFSSB010	PCB-1254 (AROCHLOR 1254)	8.2	38	4.1	U	UG/KG
BKFSSB011	PCB-1254 (AROCHLOR 1254)	8.2	36	4.1	U	UG/KG
BKFSSB012	PCB-1254 (AROCHLOR 1254)	8.2	36	4.1	U	UG/KG
BKFSSB013	PCB-1254 (AROCHLOR 1254)	8.2	39	4.1	U	UG/KG
BKFSSB014	PCB-1254 (AROCHLOR 1254)	8.2	38	4.1	U	UG/KG
BKFSSB015	PCB-1254 (AROCHLOR 1254)	8.2	35	4.1	UJ	UG/KG
BKLMSB001	PCB-1254 (AROCHLOR 1254)	8.2	35	4.1	U	UG/KG
BKLMSB002	PCB-1254 (AROCHLOR 1254)	8.2	35	4.1	U	UG/KG
BKLMSB003	PCB-1254 (AROCHLOR 1254)	8.2	36	4.1	U	UG/KG
BKLMSB004	PCB-1254 (AROCHLOR 1254)	8.2	34	4.1	U	UG/KG
BKLMSB006	PCB-1254 (AROCHLOR 1254)	8.2	34	4.1	U	UG/KG
BKLMSB007	PCB-1254 (AROCHLOR 1254)	8.2	34	4.1	U	UG/KG
BKLMSB008	PCB-1254 (AROCHLOR 1254)	8.2	34	4.1	U	UG/KG
BKLMSB009	PCB-1254 (AROCHLOR 1254)	8.2	34	4.1	U	UG/KG
BKLMSB010	PCB-1254 (AROCHLOR 1254)	8.2	35	4.1	U	UG/KG
BKLMSB011	PCB-1254 (AROCHLOR 1254)	8.2	35	4.1	U	UG/KG
BKLMSB012	PCB-1254 (AROCHLOR 1254)	8.2	37	4.1	U	UG/KG
BKLMSB013	PCB-1254 (AROCHLOR 1254)	8.2	34	4.1	UJ	UG/KG
BKLMSB014	PCB-1254 (AROCHLOR 1254)	8.2	36	4.1	U	UG/KG
BKLMSB015	PCB-1254 (AROCHLOR 1254)	8.2	35	4.1	U	UG/KG
Mean				4.029310345		
Twice Mean				8.05862069		

Surficial Background Calculations

StationID	Parameter	MDL	Result	Analytical Results or 1/2 MDL	Qual	Units
BKBDSB001	PCB-1260 (AROCHLOR 1260)	8	36	4	U	UG/KG
BKBDSB002	PCB-1260 (AROCHLOR 1260)	8	70	4	U	UG/KG
BKBDSB003	PCB-1260 (AROCHLOR 1260)	8	35	4	U	UG/KG
BKBDSB004	PCB-1260 (AROCHLOR 1260)	8	35	4	U	UG/KG
BKBDSB005	PCB-1260 (AROCHLOR 1260)	8	34	4	U	UG/KG
BKBDSB006	PCB-1260 (AROCHLOR 1260)	8	37	4	U	UG/KG
BKBDSB007	PCB-1260 (AROCHLOR 1260)	8	36	4	U	UG/KG
BKBDSB008	PCB-1260 (AROCHLOR 1260)	8	36	4	U	UG/KG
BKBDSB009	PCB-1260 (AROCHLOR 1260)	8	36	4	U	UG/KG
BKBDSB010	PCB-1260 (AROCHLOR 1260)	8	37	4	U	UG/KG
BKBDSB011	PCB-1260 (AROCHLOR 1260)	8	34	4	U	UG/KG
BKBDSB012	PCB-1260 (AROCHLOR 1260)	8	36	4	U	UG/KG
BKBDSB013	PCB-1260 (AROCHLOR 1260)	8	37	0	R	UG/KG
BKBDSB014	PCB-1260 (AROCHLOR 1260)	8	34	4	U	UG/KG
BKBDSB015	PCB-1260 (AROCHLOR 1260)	8	36	4	U	UG/KG
BKFCSB001	PCB-1260 (AROCHLOR 1260)	8	37	4	U	UG/KG
BKFCSB002	PCB-1260 (AROCHLOR 1260)	8	37	4	U	UG/KG
BKFCSB003	PCB-1260 (AROCHLOR 1260)	8	110	4	UJ	UG/KG
BKFCSB004	PCB-1260 (AROCHLOR 1260)	8	37	4	U	UG/KG
BKFCSB005	PCB-1260 (AROCHLOR 1260)	8	37	4	U	UG/KG
BKFCSB006	PCB-1260 (AROCHLOR 1260)	8	36	4	U	UG/KG
BKFCSB007	PCB-1260 (AROCHLOR 1260)	8	35	4	U	UG/KG
BKFCSB008	PCB-1260 (AROCHLOR 1260)	8	1100	1100	=	UG/KG
BKFCSB009	PCB-1260 (AROCHLOR 1260)	8	36	4	U	UG/KG
BKFCSB010	PCB-1260 (AROCHLOR 1260)	8	35	4	U	UG/KG
BKFCSB011	PCB-1260 (AROCHLOR 1260)	8	34	4	U	UG/KG
BKFCSB012	PCB-1260 (AROCHLOR 1260)	8	37	4	U	UG/KG
BKFCSB013	PCB-1260 (AROCHLOR 1260)	8	36	4	UJ	UG/KG
BKFCSB014	PCB-1260 (AROCHLOR 1260)	8	150	150	J	UG/KG
BKFCSB015	PCB-1260 (AROCHLOR 1260)	8	34	4	U	UG/KG
BKFSSB001	PCB-1260 (AROCHLOR 1260)	8	34	4	U	UG/KG
BKFSSB002	PCB-1260 (AROCHLOR 1260)	8	36	4	U	UG/KG
BKFSSB003	PCB-1260 (AROCHLOR 1260)	8	35	4	U	UG/KG
BKFSSB004	PCB-1260 (AROCHLOR 1260)	8	35	4	U	UG/KG
BKFSSB005	PCB-1260 (AROCHLOR 1260)	8	35	4	U	UG/KG
BKFSSB007	PCB-1260 (AROCHLOR 1260)	8	37	4	U	UG/KG
BKFSSB008	PCB-1260 (AROCHLOR 1260)	8	38	4	U	UG/KG
BKFSSB009	PCB-1260 (AROCHLOR 1260)	8	35	4	U	UG/KG
BKFSSB010	PCB-1260 (AROCHLOR 1260)	8	150	150	=	UG/KG
BKFSSB011	PCB-1260 (AROCHLOR 1260)	8	36	4	U	UG/KG
BKFSSB012	PCB-1260 (AROCHLOR 1260)	8	36	4	U	UG/KG
BKFSSB013	PCB-1260 (AROCHLOR 1260)	8	39	4	U	UG/KG
BKFSSB014	PCB-1260 (AROCHLOR 1260)	8	38	4	U	UG/KG
BKFSSB015	PCB-1260 (AROCHLOR 1260)	8	35	4	UJ	UG/KG
BKLMSB001	PCB-1260 (AROCHLOR 1260)	8	35	4	U	UG/KG
BKLMSB002	PCB-1260 (AROCHLOR 1260)	8	35	4	U	UG/KG
BKLMSB003	PCB-1260 (AROCHLOR 1260)	8	36	4	U	UG/KG
BKLMSB004	PCB-1260 (AROCHLOR 1260)	8	34	4	U	UG/KG
BKLMSB006	PCB-1260 (AROCHLOR 1260)	8	34	4	U	UG/KG
BKLMSB007	PCB-1260 (AROCHLOR 1260)	8	34	4	U	UG/KG
BKLMSB008	PCB-1260 (AROCHLOR 1260)	8	34	4	U	UG/KG
BKLMSB009	PCB-1260 (AROCHLOR 1260)	8	34	4	U	UG/KG
BKLMSB010	PCB-1260 (AROCHLOR 1260)	8	35	4	U	UG/KG
BKLMSB011	PCB-1260 (AROCHLOR 1260)	8	35	4	U	UG/KG
BKLMSB012	PCB-1260 (AROCHLOR 1260)	8	37	4	U	UG/KG
BKLMSB013	PCB-1260 (AROCHLOR 1260)	8	34	4	UJ	UG/KG
BKLMSB014	PCB-1260 (AROCHLOR 1260)	8	36	4	U	UG/KG
BKLMSB015	PCB-1260 (AROCHLOR 1260)	8	35	4	U	UG/KG
Mean				27.86206897		
Twice Mean				55.72413793		

3 10 0606

StationID	Parameter	MDL	Result	Analytical Results or 1/2 MDL	Qual	Units
BKBDSB001	THALLIUM	0.2	0.56	0.1	U	MG/KG
BKBDSB002	THALLIUM	0.2	0.55	0.1	U	MG/KG
BKBDSB003	THALLIUM	0.2	0.6	0.1	U	MG/KG
BKBDSB004	THALLIUM	0.2	0.61	0.1	U	MG/KG
BKBDSB005	THALLIUM	0.2	0.59	0.1	U	MG/KG
BKBDSB006	THALLIUM	0.2	0.58	0.1	U	MG/KG
BKBDSB007	THALLIUM	0.2	0.58	0.1	U	MG/KG
BKBDSB008	THALLIUM	0.2	0.57	0.1	U	MG/KG
BKBDSB009	THALLIUM	0.2	0.62	0.1	U	MG/KG
BKBDSB010	THALLIUM	0.2	0.58	0.1	U	MG/KG
BKBDSB011	THALLIUM	0.2	0.53	0.1	U	MG/KG
BKBDSB012	THALLIUM	0.2	0.62	0.1	U	MG/KG
BKBDSB013	THALLIUM	0.2	0.58	0.1	U	MG/KG
BKBDSB014	THALLIUM	0.2	0.58	0.1	U	MG/KG
BKBDSB015	THALLIUM	0.2	0.63	0.1	U	MG/KG
BKFCSB001	THALLIUM	0.2	0.63	0.1	U	MG/KG
BKFCSB002	THALLIUM	0.2	0.64	0.1	U	MG/KG
BKFCSB003	THALLIUM	0.2	0.64	0.1	U	MG/KG
BKFCSB004	THALLIUM	0.2	0.64	0.1	U	MG/KG
BKFCSB005	THALLIUM	0.2	0.63	0.1	U	MG/KG
BKFCSB006	THALLIUM	0.2	0.63	0.1	U	MG/KG
BKFCSB007	THALLIUM	0.2	0.56	0.1	U	MG/KG
BKFCSB008	THALLIUM	0.2	0.61	0.1	U	MG/KG
BKFCSB009	THALLIUM	0.2	0.62	0.1	U	MG/KG
BKFCSB010	THALLIUM	0.2	0.55	0.1	U	MG/KG
BKFCSB011	THALLIUM	0.2	0.54	0.1	U	MG/KG
BKFCSB012	THALLIUM	0.2	0.63	0.1	U	MG/KG
BKFCSB013	THALLIUM	0.2	0.56	0.1	U	MG/KG
BKFCSB014	THALLIUM	0.2	0.64	0.1	U	MG/KG
BKFCSB015	THALLIUM	0.2	0.59	0.1	U	MG/KG
BKFSSB001	THALLIUM	0.2	0.59	0.1	U	MG/KG
BKFSSB002	THALLIUM	0.2	0.62	0.1	U	MG/KG
BKFSSB003	THALLIUM	0.2	0.55	0.1	U	MG/KG
BKFSSB004	THALLIUM	0.2	0.61	0.1	U	MG/KG
BKFSSB005	THALLIUM	0.2	0.55	0.1	U	MG/KG
BKFSSB007	THALLIUM	0.2	0.64	0.1	U	MG/KG
BKFSSB008	THALLIUM	0.2	0.66	0.1	U	MG/KG
BKFSSB009	THALLIUM	0.2	0.61	0.1	U	MG/KG
BKFSSB010	THALLIUM	0.2	0.6	0.1	U	MG/KG
BKFSSB011	THALLIUM	0.2	0.57	0.1	U	MG/KG
BKFSSB012	THALLIUM	0.2	0.62	0.1	U	MG/KG
BKFSSB013	THALLIUM	0.2	0.62	0.1	U	MG/KG
BKFSSB014	THALLIUM	0.2	0.59	0.1	U	MG/KG
BKFSSB015	THALLIUM	0.2	0.55	0.1	U	MG/KG
BKLMSB001	THALLIUM	0.2	0.55	0.1	U	MG/KG
BKLMSB002	THALLIUM	0.2	0.55	0.1	U	MG/KG
BKLMSB003	THALLIUM	0.2	0.56	0.1	U	MG/KG
BKLMSB004	THALLIUM	0.2	0.59	0.1	U	MG/KG
BKLMSB006	THALLIUM	0.2	0.53	0.1	U	MG/KG
BKLMSB007	THALLIUM	0.2	0.53	0.1	U	MG/KG
BKLMSB008	THALLIUM	0.2	0.53	0.1	U	MG/KG
BKLMSB009	THALLIUM	0.2	0.54	0.1	U	MG/KG
BKLMSB010	THALLIUM	0.2	0.6	0.1	U	MG/KG
BKLMSB011	THALLIUM	0.2	0.6	0.1	U	MG/KG
BKLMSB012	THALLIUM	0.2	0.58	0.1	U	MG/KG
BKLMSB013	THALLIUM	0.2	0.59	0.1	U	MG/KG
BKLMSB014	THALLIUM	0.2	0.57	0.1	U	MG/KG
BKLMSB015	THALLIUM	0.2	0.61	0.1	U	MG/KG
Mean				0.1		
Twice Mean				0.2		

StationID	Parameter	MDL	Result	Analytical Results or 1/2 MDL	Qual	Units
BKBDSB001	VANADIUM	0.11	3.1	3.1	J	MG/KG
BKBDSB002	VANADIUM	0.11	4.1	4.1	J	MG/KG
BKBDSB003	VANADIUM	0.11	6.5	6.5	J	MG/KG
BKBDSB004	VANADIUM	0.11	2.5	2.5	J	MG/KG
BKBDSB005	VANADIUM	0.11	5.5	5.5	J	MG/KG
BKBDSB006	VANADIUM	0.11	1.4	1.4	J	MG/KG
BKBDSB007	VANADIUM	0.11	3.4	3.4	J	MG/KG
BKBDSB008	VANADIUM	0.11	6.2	6.2	J	MG/KG
BKBDSB009	VANADIUM	0.11	6.1	6.1	J	MG/KG
BKBDSB010	VANADIUM	0.11	4.8	4.8	J	MG/KG
BKBDSB011	VANADIUM	0.11	4.9	4.9	J	MG/KG
BKBDSB012	VANADIUM	0.11	2.4	2.4	J	MG/KG
BKBDSB013	VANADIUM	0.11	4.7	4.7	J	MG/KG
BKBDSB014	VANADIUM	0.11	1.7	1.7	J	MG/KG
BKBDSB015	VANADIUM	0.11	6.4	6.4	J	MG/KG
BKFCSB001	VANADIUM	0.11	3.8	3.8	J	MG/KG
BKFCSB002	VANADIUM	0.11	8.2	8.2	J	MG/KG
BKFCSB003	VANADIUM	0.11	5.6	5.6	J	MG/KG
BKFCSB004	VANADIUM	0.11	5.1	5.1	J	MG/KG
BKFCSB005	VANADIUM	0.11	3.6	3.6	J	MG/KG
BKFCSB006	VANADIUM	0.11	9	9	J	MG/KG
BKFCSB007	VANADIUM	0.11	5.8	5.8	J	MG/KG
BKFCSB008	VANADIUM	0.11	8	8	J	MG/KG
BKFCSB009	VANADIUM	0.11	4.6	4.6	J	MG/KG
BKFCSB010	VANADIUM	0.11	3.2	3.2	J	MG/KG
BKFCSB011	VANADIUM	0.11	1.6	1.6	J	MG/KG
BKFCSB012	VANADIUM	0.11	3.6	3.6	J	MG/KG
BKFCSB013	VANADIUM	0.11	3	3	J	MG/KG
BKFCSB014	VANADIUM	0.11	6	6	J	MG/KG
BKFCSB015	VANADIUM	0.11	4.5	4.5	J	MG/KG
BKFSSB001	VANADIUM	0.11	5.6	5.6	J	MG/KG
BKFSSB002	VANADIUM	0.11	4.8	4.8	J	MG/KG
BKFSSB003	VANADIUM	0.11	3.8	3.8	J	MG/KG
BKFSSB004	VANADIUM	0.11	14	14	=	MG/KG
BKFSSB005	VANADIUM	0.11	2.6	2.6	J	MG/KG
BKFSSB007	VANADIUM	0.11	4.9	4.9	J	MG/KG
BKFSSB008	VANADIUM	0.11	7.3	7.3	J	MG/KG
BKFSSB009	VANADIUM	0.11	6.8	6.8	J	MG/KG
BKFSSB010	VANADIUM	0.11	4.2	4.2	J	MG/KG
BKFSSB011	VANADIUM	0.11	8.3	8.3	J	MG/KG
BKFSSB012	VANADIUM	0.11	5	5	J	MG/KG
BKFSSB013	VANADIUM	0.11	6	6	J	MG/KG
BKFSSB014	VANADIUM	0.11	3	3	J	MG/KG
BKFSSB015	VANADIUM	0.11	7.6	7.6	J	MG/KG
BKLMSB001	VANADIUM	0.11	2.2	2.2	J	MG/KG
BKLMSB002	VANADIUM	0.11	3.4	3.4	J	MG/KG
BKLMSB003	VANADIUM	0.11	2.5	2.5	J	MG/KG
BKLMSB004	VANADIUM	0.11	2.2	2.2	J	MG/KG
BKLMSB006	VANADIUM	0.11	1.6	1.6	J	MG/KG
BKLMSB007	VANADIUM	0.11	2.4	2.4	J	MG/KG
BKLMSB008	VANADIUM	0.11	2.4	2.4	J	MG/KG
BKLMSB009	VANADIUM	0.11	1.6	1.6	J	MG/KG
BKLMSB010	VANADIUM	0.11	3.4	3.4	J	MG/KG
BKLMSB011	VANADIUM	0.11	2.7	2.7	J	MG/KG
BKLMSB012	VANADIUM	0.11	4.3	4.3	J	MG/KG
BKLMSB013	VANADIUM	0.11	3.2	3.2	J	MG/KG
BKLMSB014	VANADIUM	0.11	8.9	8.9	J	MG/KG
BKLMSB015	VANADIUM	0.11	5.5	5.5	J	MG/KG
Mean				4.646551724		
Twice Mean				9.293103448		

StationID	Parameter	MDL	Result	Analytical Results or 1/2 MDL	Qual	Units
BKBDSB001	ZINC	0.98	34	34	=	MG/KG
BKBDSB002	ZINC	0.98	48	48	=	MG/KG
BKBDSB003	ZINC	0.98	53	53	=	MG/KG
BKBDSB004	ZINC	0.98	5	5	=	MG/KG
BKBDSB005	ZINC	0.98	25	25	=	MG/KG
BKBDSB006	ZINC	0.98	13	13	=	MG/KG
BKBDSB007	ZINC	0.98	60	60	=	MG/KG
BKBDSB008	ZINC	0.98	11	11	=	MG/KG
BKBDSB009	ZINC	0.98	51	51	=	MG/KG
BKBDSB010	ZINC	0.98	19	19	=	MG/KG
BKBDSB011	ZINC	0.98	45	45	=	MG/KG
BKBDSB012	ZINC	0.98	9.6	9.6	=	MG/KG
BKBDSB013	ZINC	0.98	21	21	=	MG/KG
BKBDSB014	ZINC	0.98	13	13	=	MG/KG
BKBDSB015	ZINC	0.98	110	110	=	MG/KG
BKFCSB001	ZINC	0.98	95	95	J	MG/KG
BKFCSB002	ZINC	0.98	290	290	=	MG/KG
BKFCSB003	ZINC	0.98	160	160	=	MG/KG
BKFCSB004	ZINC	0.98	46	46	=	MG/KG
BKFCSB005	ZINC	0.98	31	31	=	MG/KG
BKFCSB006	ZINC	0.98	28	28	=	MG/KG
BKFCSB007	ZINC	0.98	65	65	=	MG/KG
BKFCSB008	ZINC	0.98	270	270	J	MG/KG
BKFCSB009	ZINC	0.98	54	54	=	MG/KG
BKFCSB010	ZINC	0.98	39	39	J	MG/KG
BKFCSB011	ZINC	0.98	5.7	5.7	=	MG/KG
BKFCSB012	ZINC	0.98	12	12	=	MG/KG
BKFCSB013	ZINC	0.98	19	19	=	MG/KG
BKFCSB014	ZINC	0.98	120	120	J	MG/KG
BKFCSB015	ZINC	0.98	43	43	=	MG/KG
BKFSSB001	ZINC	0.98	64	64	=	MG/KG
BKFSSB002	ZINC	0.98	46	46	=	MG/KG
BKFSSB003	ZINC	0.98	31	31	J	MG/KG
BKFSSB004	ZINC	0.98	360	360	=	MG/KG
BKFSSB005	ZINC	0.98	3.8	3.8	J	MG/KG
BKFSSB007	ZINC	0.98	79	79	=	MG/KG
BKFSSB008	ZINC	0.98	26	26	=	MG/KG
BKFSSB009	ZINC	0.98	150	150	=	MG/KG
BKFSSB010	ZINC	0.98	69	69	J	MG/KG
BKFSSB011	ZINC	0.98	52	52	J	MG/KG
BKFSSB012	ZINC	0.98	8.4	8.4	=	MG/KG
BKFSSB013	ZINC	0.98	7.7	7.7	=	MG/KG
BKFSSB014	ZINC	0.98	44	44	=	MG/KG
BKFSSB015	ZINC	0.98	39	39	=	MG/KG
BKLMSB001	ZINC	0.98	25	25	J	MG/KG
BKLMSB002	ZINC	0.98	46	46	=	MG/KG
BKLMSB003	ZINC	0.98	21	21	=	MG/KG
BKLMSB004	ZINC	0.98	9.7	9.7	=	MG/KG
BKLMSB006	ZINC	0.98	8.3	8.3	=	MG/KG
BKLMSB007	ZINC	0.98	16	16	=	MG/KG
BKLMSB008	ZINC	0.98	17	17	=	MG/KG
BKLMSB009	ZINC	0.98	12	12	=	MG/KG
BKLMSB010	ZINC	0.98	43	43	=	MG/KG
BKLMSB011	ZINC	0.98	8.8	8.8	=	MG/KG
BKLMSB012	ZINC	0.98	12	12	=	MG/KG
BKLMSB013	ZINC	0.98	4	4	J	MG/KG
BKLMSB014	ZINC	0.98	10	10	=	MG/KG
BKLMSB015	ZINC	0.98	100	100	J	MG/KG
Mean				53.5862069		
Twice Mean				107.1724138		

StationID	Parameter	MDL	Result	Result or 1/2 MDL	Qual	Units
BKBDSB001	ALDRIN	0.15	1.8	0.075	U	UG/KG
BKBDSB002	ALDRIN	0.15	3.6	0.075	U	UG/KG
BKBDSB003	ALDRIN	0.15	1.8	0.075	U	UG/KG
BKBDSB004	ALDRIN	0.15	1.8	0.075	U	UG/KG
BKBDSB005	ALDRIN	0.15	1.8	0.075	U	UG/KG
BKBDSB006	ALDRIN	0.15	1.9	0.075	U	UG/KG
BKBDSB007	ALDRIN	0.15	1.9	0.075	U	UG/KG
BKBDSB008	ALDRIN	0.15	1.9	0.075	U	UG/KG
BKBDSB009	ALDRIN	0.15	1.8	0.075	U	UG/KG
BKBDSB010	ALDRIN	0.15	1.9	0.075	U	UG/KG
BKBDSB011	ALDRIN	0.15	1.8	0.075	U	UG/KG
BKBDSB012	ALDRIN	0.15	1.8	0.075	U	UG/KG
BKBDSB014	ALDRIN	0.15	1.7	0.075	U	UG/KG
BKBDSB015	ALDRIN	0.15	1.9	0.075	U	UG/KG
BKFCSB001	ALDRIN	0.15	1.9	0.075	U	UG/KG
BKFCSB002	ALDRIN	0.15	1.9	0.075	U	UG/KG
BKFCSB003	ALDRIN	0.15	1.9	0.075	UJ	UG/KG
BKFCSB004	ALDRIN	0.15	2	0.075	UJ	UG/KG
BKFCSB005	ALDRIN	0.15	1.9	0.075	U	UG/KG
BKFCSB006	ALDRIN	0.15	1.9	0.075	U	UG/KG
BKFCSB007	ALDRIN	0.15	1.8	0.075	U	UG/KG
BKFCSB008	ALDRIN	0.15	1.8	0.075	U	UG/KG
BKFCSB009	ALDRIN	0.15	1.8	0.075	U	UG/KG
BKFCSB010	ALDRIN	0.15	1.8	0.075	U	UG/KG
BKFCSB011	ALDRIN	0.15	1.8	0.075	U	UG/KG
BKFCSB012	ALDRIN	0.15	1.9	0.075	U	UG/KG
BKFCSB013	ALDRIN	0.15	1.8	0.075	UJ	UG/KG
BKFCSB014	ALDRIN	0.15	1.9	0.075	U	UG/KG
BKFCSB015	ALDRIN	0.15	1.8	0.075	U	UG/KG
BKLMSB001	ALDRIN	0.15	1.8	0.075	U	UG/KG
BKLMSB002	ALDRIN	0.15	1.8	0.075	U	UG/KG
BKLMSB003	ALDRIN	0.15	1.8	0.075	U	UG/KG
BKLMSB004	ALDRIN	0.15	1.8	0.075	U	UG/KG
BKLMSB006	ALDRIN	0.15	1.7	0.075	U	UG/KG
BKLMSB007	ALDRIN	0.15	1.7	0.075	U	UG/KG
BKLMSB008	ALDRIN	0.15	1.7	0.075	U	UG/KG
BKLMSB009	ALDRIN	0.15	1.8	0.075	U	UG/KG
BKLMSB010	ALDRIN	0.15	1.8	0.075	U	UG/KG
BKLMSB011	ALDRIN	0.15	1.8	0.075	U	UG/KG
BKLMSB012	ALDRIN	0.15	1.9	0.075	U	UG/KG
BKLMSB013	ALDRIN	0.15	1.8	0.075	UJ	UG/KG
BKLMSB014	ALDRIN	0.15	1.9	0.075	U	UG/KG
BKLMSB015	ALDRIN	0.15	1.8	0.075	U	UG/KG
BKFSSB001	ALDRIN	0.15	1.8	0.075	U	UG/KG
BKFSSB002	ALDRIN	0.15	1.8	0.075	U	UG/KG
BKFSSB003	ALDRIN	0.15	1.8	0.075	U	UG/KG
BKFSSB004	ALDRIN	0.15	1.8	0.075	U	UG/KG
BKFSSB005	ALDRIN	0.15	1.8	0.075	U	UG/KG
BKFSSB007	ALDRIN	0.15	1.9	0.075	U	UG/KG
BKFSSB008	ALDRIN	0.15	2	0.075	U	UG/KG
BKFSSB009	ALDRIN	0.15	1.8	0.075	U	UG/KG
BKFSSB010	ALDRIN	0.15	1.9	1.9	J	UG/KG
BKFSSB011	ALDRIN	0.15	1.9	0.075	U	UG/KG
BKFSSB012	ALDRIN	0.15	1.8	0.075	U	UG/KG
BKFSSB013	ALDRIN	0.15	2	0.075	U	UG/KG
BKFSSB014	ALDRIN	0.15	13	13	=	UG/KG
BKFSSB015	ALDRIN	0.15	1.8	0.075	UJ	UG/KG
			Mean	0.333772		
			Twice Mean	0.667544		

StationID	Parameter	MDL	Result	Result or 1/2 MDL	Qual	Units
BKBDSB001	ALUMINUM	2.9	1500	1500	=	MG/KG
BKBDSB002	ALUMINUM	2.9	1600	1600	=	MG/KG
BKBDSB003	ALUMINUM	2.9	1600	1600	=	MG/KG
BKBDSB004	ALUMINUM	2.9	520	520	=	MG/KG
BKBDSB005	ALUMINUM	2.9	1700	1700	=	MG/KG
BKBDSB006	ALUMINUM	2.9	830	830	=	MG/KG
BKBDSB007	ALUMINUM	2.9	1400	1400	=	MG/KG
BKBDSB008	ALUMINUM	2.9	400	400	=	MG/KG
BKBDSB009	ALUMINUM	2.9	1600	1600	=	MG/KG
BKBDSB010	ALUMINUM	2.9	2700	2700	=	MG/KG
BKBDSB011	ALUMINUM	2.9	1500	1500	=	MG/KG
BKBDSB012	ALUMINUM	2.9	1200	1200	=	MG/KG
BKBDSB013	ALUMINUM	2.9	2000	2000	=	MG/KG
BKBDSB014	ALUMINUM	2.9	780	780	=	MG/KG
BKBDSB015	ALUMINUM	2.9	2800	2800	=	MG/KG
BKFCSB001	ALUMINUM	2.9	620	620	J	MG/KG
BKFCSB002	ALUMINUM	2.9	1900	1900	=	MG/KG
BKFCSB003	ALUMINUM	2.9	1700	1700	=	MG/KG
BKFCSB004	ALUMINUM	2.9	1600	1600	=	MG/KG
BKFCSB005	ALUMINUM	2.9	1900	1900	=	MG/KG
BKFCSB006	ALUMINUM	2.9	1300	1300	=	MG/KG
BKFCSB007	ALUMINUM	2.9	2300	2300	=	MG/KG
BKFCSB008	ALUMINUM	2.9	1600	1600	J	MG/KG
BKFCSB009	ALUMINUM	2.9	1800	1800	=	MG/KG
BKFCSB010	ALUMINUM	2.9	1900	1900	J	MG/KG
BKFCSB011	ALUMINUM	2.9	1300	1300	=	MG/KG
BKFCSB012	ALUMINUM	2.9	2300	2300	=	MG/KG
BKFCSB013	ALUMINUM	2.9	420	420	=	MG/KG
BKFCSB014	ALUMINUM	2.9	5200	5200	J	MG/KG
BKFCSB015	ALUMINUM	2.9	2000	2000	=	MG/KG
BKLMSB001	ALUMINUM	2.9	770	770	J	MG/KG
BKLMSB002	ALUMINUM	2.9	1500	1500	=	MG/KG
BKLMSB003	ALUMINUM	2.9	2900	2900	=	MG/KG
BKLMSB004	ALUMINUM	2.9	770	770	=	MG/KG
BKLMSB006	ALUMINUM	2.9	870	870	=	MG/KG
BKLMSB007	ALUMINUM	2.9	1700	1700	=	MG/KG
BKLMSB008	ALUMINUM	2.9	1400	1400	=	MG/KG
BKLMSB009	ALUMINUM	2.9	1400	1400	=	MG/KG
BKLMSB010	ALUMINUM	2.9	1700	1700	=	MG/KG
BKLMSB011	ALUMINUM	2.9	1600	1600	=	MG/KG
BKLMSB012	ALUMINUM	2.9	1900	1900	=	MG/KG
BKLMSB013	ALUMINUM	2.9	4600	4600	=	MG/KG
BKLMSB014	ALUMINUM	2.9	2200	2200	=	MG/KG
BKLMSB015	ALUMINUM	2.9	1400	1400	=	MG/KG
BKFSSB001	ALUMINUM	2.9	1100	1100	=	MG/KG
BKFSSB002	ALUMINUM	2.9	960	960	=	MG/KG
BKFSSB003	ALUMINUM	2.9	1100	1100	J	MG/KG
BKFSSB004	ALUMINUM	2.9	1200	1200	=	MG/KG
BKFSSB005	ALUMINUM	2.9	750	750	=	MG/KG
BKFSSB007	ALUMINUM	2.9	1700	1700	=	MG/KG
BKFSSB008	ALUMINUM	2.9	4100	4100	=	MG/KG
BKFSSB009	ALUMINUM	2.9	2300	2300	=	MG/KG
BKFSSB010	ALUMINUM	2.9	1800	1800	J	MG/KG
BKFSSB011	ALUMINUM	2.9	1800	1800	J	MG/KG
BKFSSB012	ALUMINUM	2.9	1400	1400	=	MG/KG
BKFSSB013	ALUMINUM	2.9	1600	1600	=	MG/KG
BKFSSB014	ALUMINUM	2.9	1700	1700	=	MG/KG
BKFSSB015	ALUMINUM	2.9	1400	1400	=	MG/KG
			Mean	1682.586		
			Twice Mean	3365.172		

Surficial Background Calculations

StationID	Parameter	MDL	Result	Result or 1/2 MDL	Qual	Units
BKBDSB001	DIELDRIN	0.24	3.6	0.12	U	UG/KG
BKBDSB002	DIELDRIN	0.24	10	10	=	UG/KG
BKBDSB003	DIELDRIN	0.24	3.5	0.12	U	UG/KG
BKBDSB004	DIELDRIN	0.24	3.5	0.12	U	UG/KG
BKBDSB005	DIELDRIN	0.24	3.4	0.12	U	UG/KG
BKBDSB006	DIELDRIN	0.24	3.7	0.12	U	UG/KG
BKBDSB007	DIELDRIN	0.24	3.6	0.12	U	UG/KG
BKBDSB008	DIELDRIN	0.24	3.6	0.12	U	UG/KG
BKBDSB009	DIELDRIN	0.24	3.6	0.12	U	UG/KG
BKBDSB010	DIELDRIN	0.24	3.7	0.12	U	UG/KG
BKBDSB011	DIELDRIN	0.24	3.4	0.12	U	UG/KG
BKBDSB012	DIELDRIN	0.24	3.6	0.12	U	UG/KG
BKBDSB014	DIELDRIN	0.24	3.4	0.12	U	UG/KG
BKBDSB015	DIELDRIN	0.24	3.6	0.12	U	UG/KG
BKFCSB001	DIELDRIN	0.24	3.7	0.12	U	UG/KG
BKFCSB002	DIELDRIN	0.24	3.7	0.12	U	UG/KG
BKFCSB003	DIELDRIN	0.24	3.7	0.12	UJ	UG/KG
BKFCSB004	DIELDRIN	0.24	3.8	0.12	UJ	UG/KG
BKFCSB005	DIELDRIN	0.24	3.7	0.12	U	UG/KG
BKFCSB006	DIELDRIN	0.24	3.6	0.12	U	UG/KG
BKFCSB007	DIELDRIN	0.24	3.5	0.12	U	UG/KG
BKFCSB008	DIELDRIN	0.24	3.5	0.12	U	UG/KG
BKFCSB009	DIELDRIN	0.24	3.6	0.12	U	UG/KG
BKFCSB010	DIELDRIN	0.24	3.5	0.12	U	UG/KG
BKFCSB011	DIELDRIN	0.24	3.4	0.12	U	UG/KG
BKFCSB012	DIELDRIN	0.24	3.7	0.12	U	UG/KG
BKFCSB013	DIELDRIN	0.24	3.6	0.12	UJ	UG/KG
BKFCSB014	DIELDRIN	0.24	3.7	0.12	U	UG/KG
BKFCSB015	DIELDRIN	0.24	3.4	0.12	U	UG/KG
BKLMSB001	DIELDRIN	0.24	3.5	0.12	U	UG/KG
BKLMSB002	DIELDRIN	0.24	3.5	0.12	U	UG/KG
BKLMSB003	DIELDRIN	0.24	3.6	0.12	U	UG/KG
BKLMSB004	DIELDRIN	0.24	3.4	0.12	U	UG/KG
BKLMSB006	DIELDRIN	0.24	3.4	0.12	U	UG/KG
BKLMSB007	DIELDRIN	0.24	3.4	0.12	U	UG/KG
BKLMSB008	DIELDRIN	0.24	3.4	0.12	U	UG/KG
BKLMSB009	DIELDRIN	0.24	3.5	0.12	UJ	UG/KG
BKLMSB010	DIELDRIN	0.24	3.5	0.12	U	UG/KG
BKLMSB011	DIELDRIN	0.24	3.5	0.12	U	UG/KG
BKLMSB012	DIELDRIN	0.24	3.7	0.12	U	UG/KG
BKLMSB013	DIELDRIN	0.24	3.4	0.12	UJ	UG/KG
BKLMSB014	DIELDRIN	0.24	3.6	0.12	U	UG/KG
BKLMSB015	DIELDRIN	0.24	3.5	0.12	U	UG/KG
BKFSSB001	DIELDRIN	0.24	3.4	0.12	U	UG/KG
BKFSSB002	DIELDRIN	0.24	3.6	0.12	U	UG/KG
BKFSSB003	DIELDRIN	0.24	3.9	3.9	=	UG/KG
BKFSSB004	DIELDRIN	0.24	3.5	0.12	U	UG/KG
BKFSSB005	DIELDRIN	0.24	3.5	0.12	U	UG/KG
BKFSSB007	DIELDRIN	0.24	3.7	0.12	U	UG/KG
BKFSSB008	DIELDRIN	0.24	3.8	0.12	U	UG/KG
BKFSSB009	DIELDRIN	0.24	3.5	0.12	U	UG/KG
BKFSSB010	DIELDRIN	0.24	15	15	=	UG/KG
BKFSSB011	DIELDRIN	0.24	3.6	0.12	U	UG/KG
BKFSSB012	DIELDRIN	0.24	3.6	0.12	U	UG/KG
BKFSSB013	DIELDRIN	0.24	3.9	0.12	U	UG/KG
BKFSSB014	DIELDRIN	0.24	38	38	=	UG/KG
BKFSSB015	DIELDRIN	0.24	36	36	J	UG/KG
			Mean	1.914737		
			Twice Mean	3.829474		

Surficial Background Calculations

3 10 ^612

StationID	Parameter	MDL	Result	Result or 1/2 MDL	Qual	Units
BKBDSB001	GAMMA-CHLORDANE	0.2	1.8	0.1	U	UG/KG
BKBDSB002	GAMMA-CHLORDANE	0.2	32	32	=	UG/KG
BKBDSB003	GAMMA-CHLORDANE	0.2	1.8	0.1	U	UG/KG
BKBDSB004	GAMMA-CHLORDANE	0.2	1.8	0.1	U	UG/KG
BKBDSB005	GAMMA-CHLORDANE	0.2	0.59	0.59	J	UG/KG
BKBDSB006	GAMMA-CHLORDANE	0.2	1.9	0.1	U	UG/KG
BKBDSB007	GAMMA-CHLORDANE	0.2	1.9	0.1	U	UG/KG
BKBDSB008	GAMMA-CHLORDANE	0.2	1.9	0.1	U	UG/KG
BKBDSB009	GAMMA-CHLORDANE	0.2	1.8	0.1	U	UG/KG
BKBDSB010	GAMMA-CHLORDANE	0.2	1.9	0.1	U	UG/KG
BKBDSB011	GAMMA-CHLORDANE	0.2	1.8	0.1	U	UG/KG
BKBDSB012	GAMMA-CHLORDANE	0.2	1.8	0.1	U	UG/KG
BKBDSB014	GAMMA-CHLORDANE	0.2	1.7	0.1	U	UG/KG
BKBDSB015	GAMMA-CHLORDANE	0.2	1.9	0.1	U	UG/KG
BKFCSB001	GAMMA-CHLORDANE	0.2	1.9	0.1	U	UG/KG
BKFCSB002	GAMMA-CHLORDANE	0.2	1.9	0.1	U	UG/KG
BKFCSB003	GAMMA-CHLORDANE	0.2	1.9	0.1	UJ	UG/KG
BKFCSB004	GAMMA-CHLORDANE	0.2	2	0.1	UJ	UG/KG
BKFCSB005	GAMMA-CHLORDANE	0.2	1.9	0.1	U	UG/KG
BKFCSB006	GAMMA-CHLORDANE	0.2	1.9	0.1	U	UG/KG
BKFCSB007	GAMMA-CHLORDANE	0.2	3.4	3.4	=	UG/KG
BKFCSB008	GAMMA-CHLORDANE	0.2	10	10	=	UG/KG
BKFCSB009	GAMMA-CHLORDANE	0.2	1.8	0.1	U	UG/KG
BKFCSB010	GAMMA-CHLORDANE	0.2	1	1	J	UG/KG
BKFCSB011	GAMMA-CHLORDANE	0.2	1.8	0.1	U	UG/KG
BKFCSB012	GAMMA-CHLORDANE	0.2	1.9	0.1	U	UG/KG
BKFCSB013	GAMMA-CHLORDANE	0.2	1.8	0.1	UJ	UG/KG
BKFCSB014	GAMMA-CHLORDANE	0.2	27	27	=	UG/KG
BKFCSB015	GAMMA-CHLORDANE	0.2	1.8	0.1	U	UG/KG
BKLMSB001	GAMMA-CHLORDANE	0.2	1.8	0.1	U	UG/KG
BKLMSB002	GAMMA-CHLORDANE	0.2	1.8	0.1	U	UG/KG
BKLMSB003	GAMMA-CHLORDANE	0.2	1.2	1.2	J	UG/KG
BKLMSB004	GAMMA-CHLORDANE	0.2	1.8	0.1	U	UG/KG
BKLMSB006	GAMMA-CHLORDANE	0.2	1.7	0.1	U	UG/KG
BKLMSB007	GAMMA-CHLORDANE	0.2	1.7	0.1	U	UG/KG
BKLMSB008	GAMMA-CHLORDANE	0.2	1.7	0.1	U	UG/KG
BKLMSB009	GAMMA-CHLORDANE	0.2	1.8	0.1	U	UG/KG
BKLMSB010	GAMMA-CHLORDANE	0.2	1.1	1.1	J	UG/KG
BKLMSB011	GAMMA-CHLORDANE	0.2	1.8	0.1	U	UG/KG
BKLMSB012	GAMMA-CHLORDANE	0.2	1.9	0.1	U	UG/KG
BKLMSB013	GAMMA-CHLORDANE	0.2	1.8	0.1	UJ	UG/KG
BKLMSB014	GAMMA-CHLORDANE	0.2	1.9	0.1	U	UG/KG
BKLMSB015	GAMMA-CHLORDANE	0.2	1.8	0.1	U	UG/KG
BKFSSB001	GAMMA-CHLORDANE	0.2	1.8	0.1	U	UG/KG
BKFSSB002	GAMMA-CHLORDANE	0.2	1.8	0.1	U	UG/KG
BKFSSB003	GAMMA-CHLORDANE	0.2	17	17	=	UG/KG
BKFSSB004	GAMMA-CHLORDANE	0.2	7	7	=	UG/KG
BKFSSB005	GAMMA-CHLORDANE	0.2	1.8	0.1	U	UG/KG
BKFSSB007	GAMMA-CHLORDANE	0.2	1.9	0.1	U	UG/KG
BKFSSB008	GAMMA-CHLORDANE	0.2	2	0.1	U	UG/KG
BKFSSB009	GAMMA-CHLORDANE	0.2	1.8	0.1	U	UG/KG
BKFSSB010	GAMMA-CHLORDANE	0.2	2	0.1	U	UG/KG
BKFSSB011	GAMMA-CHLORDANE	0.2	1.9	0.1	U	UG/KG
BKFSSB012	GAMMA-CHLORDANE	0.2	1.8	0.1	U	UG/KG
BKFSSB013	GAMMA-CHLORDANE	0.2	2	0.1	U	UG/KG
BKFSSB014	GAMMA-CHLORDANE	0.2	19	19	=	UG/KG
BKFSSB015	GAMMA-CHLORDANE	0.2	4.4	4.4	J	UG/KG
			Mean	2.248947		
			Twice Mean	4.497895		

Surficial Background Calculations

3 10 0613

StationID	Parameter	MDL	Result	Result or 1/2 MDL	Qual	Units
BKBDSB001	IRON	2.25	980	980	=	MG/KG
BKBDSB002	IRON	2.25	1200	1200	=	MG/KG
BKBDSB003	IRON	2.25	2200	2200	=	MG/KG
BKBDSB004	IRON	2.25	340	340	=	MG/KG
BKBDSB005	IRON	2.25	1700	1700	=	MG/KG
BKBDSB006	IRON	2.25	1300	1300	=	MG/KG
BKBDSB007	IRON	2.25	770	770	=	MG/KG
BKBDSB008	IRON	2.25	410	410	=	MG/KG
BKBDSB009	IRON	2.25	2900	2900	=	MG/KG
BKBDSB010	IRON	2.25	750	750	=	MG/KG
BKBDSB011	IRON	2.25	1500	1500	=	MG/KG
BKBDSB012	IRON	2.25	670	670	=	MG/KG
BKBDSB013	IRON	2.25	3400	3400	=	MG/KG
BKBDSB014	IRON	2.25	430	430	=	MG/KG
BKBDSB015	IRON	2.25	1500	1500	=	MG/KG
BKFCSB001	IRON	2.25	1500	1500	=	MG/KG
BKFCSB002	IRON	2.25	4400	4400	=	MG/KG
BKFCSB003	IRON	2.25	2000	2000	=	MG/KG
BKFCSB004	IRON	2.25	1500	1500	=	MG/KG
BKFCSB005	IRON	2.25	1200	1200	=	MG/KG
BKFCSB006	IRON	2.25	1200	1200	=	MG/KG
BKFCSB007	IRON	2.25	840	840	=	MG/KG
BKFCSB008	IRON	2.25	2100	2100	=	MG/KG
BKFCSB009	IRON	2.25	1700	1700	=	MG/KG
BKFCSB010	IRON	2.25	1200	1200	=	MG/KG
BKFCSB011	IRON	2.25	420	420	=	MG/KG
BKFCSB012	IRON	2.25	510	510	=	MG/KG
BKFCSB013	IRON	2.25	910	910	=	MG/KG
BKFCSB014	IRON	2.25	1600	1600	=	MG/KG
BKFCSB015	IRON	2.25	3000	3000	=	MG/KG
BKLMSB001	IRON	2.25	630	630	J	MG/KG
BKLMSB002	IRON	2.25	1500	1500	=	MG/KG
BKLMSB003	IRON	2.25	470	470	=	MG/KG
BKLMSB004	IRON	2.25	500	500	=	MG/KG
BKLMSB006	IRON	2.25	550	550	=	MG/KG
BKLMSB007	IRON	2.25	710	710	=	MG/KG
BKLMSB008	IRON	2.25	830	830	=	MG/KG
BKLMSB009	IRON	2.25	500	500	=	MG/KG
BKLMSB010	IRON	2.25	1800	1800	=	MG/KG
BKLMSB011	IRON	2.25	870	870	=	MG/KG
BKLMSB012	IRON	2.25	1700	1700	=	MG/KG
BKLMSB013	IRON	2.25	1400	1400	=	MG/KG
BKLMSB014	IRON	2.25	3800	3800	=	MG/KG
BKLMSB015	IRON	2.25	1600	1600	J	MG/KG
BKFSSB001	IRON	2.25	1400	1400	=	MG/KG
BKFSSB002	IRON	2.25	1300	1300	=	MG/KG
BKFSSB003	IRON	2.25	1100	1100	=	MG/KG
BKFSSB004	IRON	2.25	4000	4000	J	MG/KG
BKFSSB005	IRON	2.25	810	810	J	MG/KG
BKFSSB007	IRON	2.25	1500	1500	=	MG/KG
BKFSSB008	IRON	2.25	1600	1600	=	MG/KG
BKFSSB009	IRON	2.25	2300	2300	=	MG/KG
BKFSSB010	IRON	2.25	1600	1600	=	MG/KG
BKFSSB011	IRON	2.25	1500	1500	=	MG/KG
BKFSSB012	IRON	2.25	1500	1500	=	MG/KG
BKFSSB013	IRON	2.25	1800	1800	=	MG/KG
BKFSSB014	IRON	2.25	1000	1000	=	MG/KG
BKFSSB015	IRON	2.25	1700	1700	=	MG/KG
			Mean	1450		
			Twice Mean	2900		

Surficial Background Calculations

3 10 614

StationID	Parameter	MDL	Result	Result or 1/2 MDL	Qual	Units
BKBDSB001	HEPTACHLOR	0.2	1.8	0.1	U	UG/KG
BKBDSB002	HEPTACHLOR	0.2	0.96	0.96	J	UG/KG
BKBDSB003	HEPTACHLOR	0.2	1.8	0.1	U	UG/KG
BKBDSB004	HEPTACHLOR	0.2	1.8	0.1	U	UG/KG
BKBDSB005	HEPTACHLOR	0.2	1.8	0.1	U	UG/KG
BKBDSB006	HEPTACHLOR	0.2	1.9	0.1	U	UG/KG
BKBDSB007	HEPTACHLOR	0.2	1.9	0.1	U	UG/KG
BKBDSB008	HEPTACHLOR	0.2	1.9	0.1	U	UG/KG
BKBDSB009	HEPTACHLOR	0.2	1.8	0.1	U	UG/KG
BKBDSB010	HEPTACHLOR	0.2	1.9	0.1	U	UG/KG
BKBDSB011	HEPTACHLOR	0.2	1.8	0.1	U	UG/KG
BKBDSB012	HEPTACHLOR	0.2	1.8	0.1	U	UG/KG
BKBDSB014	HEPTACHLOR	0.2	1.7	0.1	U	UG/KG
BKBDSB015	HEPTACHLOR	0.2	1.9	0.1	U	UG/KG
BKFCSB001	HEPTACHLOR	0.2	1.9	0.1	U	UG/KG
BKFCSB002	HEPTACHLOR	0.2	1.9	0.1	U	UG/KG
BKFCSB003	HEPTACHLOR	0.2	1.9	0.1	UJ	UG/KG
BKFCSB004	HEPTACHLOR	0.2	1.9	0.1	U	UG/KG
BKFCSB005	HEPTACHLOR	0.2	1.9	0.1	U	UG/KG
BKFCSB006	HEPTACHLOR	0.2	1.9	0.1	U	UG/KG
BKFCSB007	HEPTACHLOR	0.2	1	1	J	UG/KG
BKFCSB008	HEPTACHLOR	0.2	1.8	0.1	U	UG/KG
BKFCSB009	HEPTACHLOR	0.2	1.8	0.1	U	UG/KG
BKFCSB010	HEPTACHLOR	0.2	1.8	0.1	U	UG/KG
BKFCSB011	HEPTACHLOR	0.2	1.8	0.1	U	UG/KG
BKFCSB012	HEPTACHLOR	0.2	1.9	0.1	U	UG/KG
BKFCSB013	HEPTACHLOR	0.2	1.8	0.1	UJ	UG/KG
BKFCSB014	HEPTACHLOR	0.2	6	6	=	UG/KG
BKFCSB015	HEPTACHLOR	0.2	1.8	0.1	U	UG/KG
BKLMSB001	HEPTACHLOR	0.2	1.8	0.1	U	UG/KG
BKLMSB002	HEPTACHLOR	0.2	1.8	0.1	U	UG/KG
BKLMSB003	HEPTACHLOR	0.2	1.8	0.1	U	UG/KG
BKLMSB004	HEPTACHLOR	0.2	1.8	0.1	U	UG/KG
BKLMSB006	HEPTACHLOR	0.2	1.7	0.1	U	UG/KG
BKLMSB007	HEPTACHLOR	0.2	1.7	0.1	U	UG/KG
BKLMSB008	HEPTACHLOR	0.2	1.7	0.1	U	UG/KG
BKLMSB009	HEPTACHLOR	0.2	1.8	0.1	U	UG/KG
BKLMSB010	HEPTACHLOR	0.2	1.8	0.1	U	UG/KG
BKLMSB011	HEPTACHLOR	0.2	1.8	0.1	U	UG/KG
BKLMSB012	HEPTACHLOR	0.2	1.9	0.1	U	UG/KG
BKLMSB013	HEPTACHLOR	0.2	1.8	0.1	UJ	UG/KG
BKLMSB014	HEPTACHLOR	0.2	1.9	0.1	U	UG/KG
BKLMSB015	HEPTACHLOR	0.2	1.8	0.1	U	UG/KG
BKFSSB001	HEPTACHLOR	0.2	1.8	0.1	U	UG/KG
BKFSSB002	HEPTACHLOR	0.2	1.8	0.1	U	UG/KG
BKFSSB003	HEPTACHLOR	0.2	1.8	0.1	U	UG/KG
BKFSSB004	HEPTACHLOR	0.2	1.8	0.1	U	UG/KG
BKFSSB005	HEPTACHLOR	0.2	1.8	0.1	U	UG/KG
BKFSSB007	HEPTACHLOR	0.2	1.9	0.1	U	UG/KG
BKFSSB008	HEPTACHLOR	0.2	2	0.1	U	UG/KG
BKFSSB009	HEPTACHLOR	0.2	1.8	0.1	U	UG/KG
BKFSSB010	HEPTACHLOR	0.2	2	0.1	U	UG/KG
BKFSSB011	HEPTACHLOR	0.2	1.9	0.1	U	UG/KG
BKFSSB012	HEPTACHLOR	0.2	1.8	0.1	U	UG/KG
BKFSSB013	HEPTACHLOR	0.2	2	0.1	U	UG/KG
BKFSSB014	HEPTACHLOR	0.2	1.9	0.1	U	UG/KG
BKFSSB015	HEPTACHLOR	0.2	1.8	0.1	UJ	UG/KG
			Mean	0.234386		
			Twice Mean	0.468772		

StationID	Parameter	MDL	Result	Result or 1/2 MDL	Qual	Units
BKBDSB001	HEPTACHLOR EPOXIDE	0.12	1.8	0.06	U	UG/KG
BKBDSB002	HEPTACHLOR EPOXIDE	0.12	1.8	1.8	J	UG/KG
BKBDSB003	HEPTACHLOR EPOXIDE	0.12	1.8	0.06	U	UG/KG
BKBDSB004	HEPTACHLOR EPOXIDE	0.12	1.8	0.06	U	UG/KG
BKBDSB005	HEPTACHLOR EPOXIDE	0.12	1.8	0.06	U	UG/KG
BKBDSB006	HEPTACHLOR EPOXIDE	0.12	1.9	0.06	U	UG/KG
BKBDSB007	HEPTACHLOR EPOXIDE	0.12	1.9	0.06	U	UG/KG
BKBDSB008	HEPTACHLOR EPOXIDE	0.12	1.9	0.06	U	UG/KG
BKBDSB009	HEPTACHLOR EPOXIDE	0.12	1.8	0.06	U	UG/KG
BKBDSB010	HEPTACHLOR EPOXIDE	0.12	1.9	0.06	U	UG/KG
BKBDSB011	HEPTACHLOR EPOXIDE	0.12	1.8	0.06	U	UG/KG
BKBDSB012	HEPTACHLOR EPOXIDE	0.12	1.8	0.06	U	UG/KG
BKBDSB014	HEPTACHLOR EPOXIDE	0.12	1.7	0.06	U	UG/KG
BKBDSB015	HEPTACHLOR EPOXIDE	0.12	1.9	0.06	U	UG/KG
BKFCSB001	HEPTACHLOR EPOXIDE	0.12	1.9	0.06	U	UG/KG
BKFCSB002	HEPTACHLOR EPOXIDE	0.12	1.9	0.06	U	UG/KG
BKFCSB003	HEPTACHLOR EPOXIDE	0.12	1.2	1.2	J	UG/KG
BKFCSB004	HEPTACHLOR EPOXIDE	0.12	1.9	0.06	U	UG/KG
BKFCSB005	HEPTACHLOR EPOXIDE	0.12	1.9	0.06	U	UG/KG
BKFCSB006	HEPTACHLOR EPOXIDE	0.12	1.9	0.06	U	UG/KG
BKFCSB007	HEPTACHLOR EPOXIDE	0.12	1.8	0.06	U	UG/KG
BKFCSB008	HEPTACHLOR EPOXIDE	0.12	3.5	3.5	=	UG/KG
BKFCSB009	HEPTACHLOR EPOXIDE	0.12	1.8	0.06	U	UG/KG
BKFCSB010	HEPTACHLOR EPOXIDE	0.12	1.8	0.06	U	UG/KG
BKFCSB011	HEPTACHLOR EPOXIDE	0.12	1.8	0.06	U	UG/KG
BKFCSB012	HEPTACHLOR EPOXIDE	0.12	1.9	0.06	U	UG/KG
BKFCSB013	HEPTACHLOR EPOXIDE	0.12	1.8	0.06	UJ	UG/KG
BKFCSB014	HEPTACHLOR EPOXIDE	0.12	16	16	=	UG/KG
BKFCSB015	HEPTACHLOR EPOXIDE	0.12	1.8	0.06	U	UG/KG
BKLMSB001	HEPTACHLOR EPOXIDE	0.12	1.8	0.06	U	UG/KG
BKLMSB002	HEPTACHLOR EPOXIDE	0.12	1.8	0.06	U	UG/KG
BKLMSB003	HEPTACHLOR EPOXIDE	0.12	1.8	0.06	U	UG/KG
BKLMSB004	HEPTACHLOR EPOXIDE	0.12	1.8	0.06	U	UG/KG
BKLMSB006	HEPTACHLOR EPOXIDE	0.12	1.7	0.06	U	UG/KG
BKLMSB007	HEPTACHLOR EPOXIDE	0.12	1.7	0.06	U	UG/KG
BKLMSB008	HEPTACHLOR EPOXIDE	0.12	1.7	0.06	U	UG/KG
BKLMSB009	HEPTACHLOR EPOXIDE	0.12	1.8	0.06	U	UG/KG
BKLMSB010	HEPTACHLOR EPOXIDE	0.12	1.8	0.06	U	UG/KG
BKLMSB011	HEPTACHLOR EPOXIDE	0.12	1.8	0.06	U	UG/KG
BKLMSB012	HEPTACHLOR EPOXIDE	0.12	1.9	0.06	U	UG/KG
BKLMSB013	HEPTACHLOR EPOXIDE	0.12	1.8	0.06	UJ	UG/KG
BKLMSB014	HEPTACHLOR EPOXIDE	0.12	1.9	0.06	U	UG/KG
BKLMSB015	HEPTACHLOR EPOXIDE	0.12	1.8	0.06	U	UG/KG
BKFSSB001	HEPTACHLOR EPOXIDE	0.12	1.8	0.06	U	UG/KG
BKFSSB002	HEPTACHLOR EPOXIDE	0.12	1.8	0.06	U	UG/KG
BKFSSB003	HEPTACHLOR EPOXIDE	0.12	4.1	4.1	J	UG/KG
BKFSSB004	HEPTACHLOR EPOXIDE	0.12	1.1	1.1	J	UG/KG
BKFSSB005	HEPTACHLOR EPOXIDE	0.12	1.8	0.06	U	UG/KG
BKFSSB007	HEPTACHLOR EPOXIDE	0.12	1.9	0.06	U	UG/KG
BKFSSB008	HEPTACHLOR EPOXIDE	0.12	2	0.06	U	UG/KG
BKFSSB009	HEPTACHLOR EPOXIDE	0.12	1.8	0.06	U	UG/KG
BKFSSB010	HEPTACHLOR EPOXIDE	0.12	2	0.06	U	UG/KG
BKFSSB011	HEPTACHLOR EPOXIDE	0.12	1.9	0.06	U	UG/KG
BKFSSB012	HEPTACHLOR EPOXIDE	0.12	1.8	0.06	U	UG/KG
BKFSSB013	HEPTACHLOR EPOXIDE	0.12	2	0.06	U	UG/KG
BKFSSB014	HEPTACHLOR EPOXIDE	0.12	6.4	6.4	=	UG/KG
BKFSSB015	HEPTACHLOR EPOXIDE	0.12	6.4	6.4	J	UG/KG
			Mean	0.762105		
			Twice Mean	1.524211		

StationID	Parameter	MDL	Result	Result or 1/2 MDL	Qual	Units
BKBDSB001	MERCURY	0.0028	0.017	0.017	J	MG/KG
BKBDSB002	MERCURY	0.0028	0.048	0.048	J	MG/KG
BKBDSB003	MERCURY	0.0028	0.017	0.017	J	MG/KG
BKBDSB004	MERCURY	0.0028	0.039	0.039	J	MG/KG
BKBDSB005	MERCURY	0.0028	0.028	0.028	J	MG/KG
BKBDSB006	MERCURY	0.0028	0.02	0.02	J	MG/KG
BKBDSB007	MERCURY	0.0028	0.046	0.046	J	MG/KG
BKBDSB008	MERCURY	0.0028	0.022	0.022	J	MG/KG
BKBDSB009	MERCURY	0.0028	0.041	0.041	J	MG/KG
BKBDSB010	MERCURY	0.0028	0.047	0.047	J	MG/KG
BKBDSB011	MERCURY	0.0028	0.031	0.031	J	MG/KG
BKBDSB012	MERCURY	0.0028	0.015	0.015	J	MG/KG
BKBDSB013	MERCURY	0.0028	0.018	0.018	J	MG/KG
BKBDSB014	MERCURY	0.0028	0.0054	0.0054	J	MG/KG
BKBDSB015	MERCURY	0.0028	0.031	0.031	J	MG/KG
BKFCSB001	MERCURY	0.0028	0.072	0.072	J	MG/KG
BKFCSB002	MERCURY	0.0028	0.21	0.21	=	MG/KG
BKFCSB003	MERCURY	0.0028	0.17	0.17	=	MG/KG
BKFCSB004	MERCURY	0.0028	0.041	0.041	J	MG/KG
BKFCSB005	MERCURY	0.0028	0.017	0.017	J	MG/KG
BKFCSB006	MERCURY	0.0028	0.036	0.036	J	MG/KG
BKFCSB007	MERCURY	0.0028	0.072	0.072	J	MG/KG
BKFCSB008	MERCURY	0.0028	0.27	0.27	J	MG/KG
BKFCSB009	MERCURY	0.0028	0.089	0.089	J	MG/KG
BKFCSB010	MERCURY	0.0028	0.022	0.022	J	MG/KG
BKFCSB011	MERCURY	0.0028	0.023	0.023	J	MG/KG
BKFCSB012	MERCURY	0.0028	0.044	0.044	J	MG/KG
BKFCSB013	MERCURY	0.0028	0.058	0.058	J	MG/KG
BKFCSB014	MERCURY	0.0028	0.053	0.053	J	MG/KG
BKFCSB015	MERCURY	0.0028	0.019	0.019	J	MG/KG
BKLMSB001	MERCURY	0.0028	0.017	0.017	J	MG/KG
BKLMSB002	MERCURY	0.0028	0.072	0.072	J	MG/KG
BKLMSB003	MERCURY	0.0028	0.012	0.012	J	MG/KG
BKLMSB004	MERCURY	0.0028	0.0067	0.0067	J	MG/KG
BKLMSB006	MERCURY	0.0028	0.0044	0.0044	J	MG/KG
BKLMSB007	MERCURY	0.0028	0.019	0.019	J	MG/KG
BKLMSB008	MERCURY	0.0028	0.013	0.013	J	MG/KG
BKLMSB009	MERCURY	0.0028	0.018	0.0014	U	MG/KG
BKLMSB010	MERCURY	0.0028	0.017	0.017	J	MG/KG
BKLMSB011	MERCURY	0.0028	0.015	0.0014	U	MG/KG
BKLMSB012	MERCURY	0.0028	0.017	0.017	J	MG/KG
BKLMSB013	MERCURY	0.0028	0.019	0.019	J	MG/KG
BKLMSB014	MERCURY	0.0028	0.043	0.043	J	MG/KG
BKLMSB015	MERCURY	0.0028	0.026	0.026	J	MG/KG
BKFSSB001	MERCURY	0.0028	0.061	0.061	J	MG/KG
BKFSSB002	MERCURY	0.0028	0.037	0.037	J	MG/KG
BKFSSB003	MERCURY	0.0028	0.065	0.065	J	MG/KG
BKFSSB004	MERCURY	0.0028	0.77	0.77	=	MG/KG
BKFSSB005	MERCURY	0.0028	0.012	0.012	J	MG/KG
BKFSSB007	MERCURY	0.0028	0.047	0.047	J	MG/KG
BKFSSB008	MERCURY	0.0028	0.068	0.068	J	MG/KG
BKFSSB009	MERCURY	0.0028	0.063	0.063	J	MG/KG
BKFSSB010	MERCURY	0.0028	0.057	0.057	J	MG/KG
BKFSSB011	MERCURY	0.0028	0.11	0.11	J	MG/KG
BKFSSB012	MERCURY	0.0028	0.013	0.013	J	MG/KG
BKFSSB013	MERCURY	0.0028	0.042	0.042	J	MG/KG
BKFSSB014	MERCURY	0.0028	0.052	0.052	J	MG/KG
BKFSSB015	MERCURY	0.0028	0.099	0.099	J	MG/KG
			Mean	0.058384		
			Twice Mean	0.116769		

StationID	Parameter	MDL	Result	Result or 1/2 MDL	Qual	Units
BKBDSB001	p,p'-DDT	0.35	3.6	0.175	U	UG/KG
BKBDSB002	p,p'-DDT	0.35	5.5	5.5	J	UG/KG
BKBDSB003	p,p'-DDT	0.35	3.5	0.175	U	UG/KG
BKBDSB004	p,p'-DDT	0.35	3.5	0.175	U	UG/KG
BKBDSB005	p,p'-DDT	0.35	3.4	0.175	U	UG/KG
BKBDSB006	p,p'-DDT	0.35	3.7	0.175	U	UG/KG
BKBDSB007	p,p'-DDT	0.35	3.6	0.175	U	UG/KG
BKBDSB008	p,p'-DDT	0.35	3.6	0.175	U	UG/KG
BKBDSB009	p,p'-DDT	0.35	3.6	0.175	U	UG/KG
BKBDSB010	p,p'-DDT	0.35	3.7	0.175	U	UG/KG
BKBDSB011	p,p'-DDT	0.35	3.4	0.175	U	UG/KG
BKBDSB012	p,p'-DDT	0.35	3.6	0.175	U	UG/KG
BKBDSB014	p,p'-DDT	0.35	3.4	0.175	U	UG/KG
BKBDSB015	p,p'-DDT	0.35	3.6	0.175	U	UG/KG
BKFCSB001	p,p'-DDT	0.35	3.7	0.175	U	UG/KG
BKFCSB002	p,p'-DDT	0.35	3.7	0.175	U	UG/KG
BKFCSB003	p,p'-DDT	0.35	3.7	0.175	UJ	UG/KG
BKFCSB004	p,p'-DDT	0.35	3.7	0.175	U	UG/KG
BKFCSB005	p,p'-DDT	0.35	3.7	0.175	U	UG/KG
BKFCSB006	p,p'-DDT	0.35	3.6	0.175	U	UG/KG
BKFCSB007	p,p'-DDT	0.35	2.2	2.2	J	UG/KG
BKFCSB008	p,p'-DDT	0.35	3.5	0.175	U	UG/KG
BKFCSB009	p,p'-DDT	0.35	2	2	J	UG/KG
BKFCSB010	p,p'-DDT	0.35	3.5	0.175	U	UG/KG
BKFCSB011	p,p'-DDT	0.35	3.4	0.175	U	UG/KG
BKFCSB012	p,p'-DDT	0.35	3.7	0.175	U	UG/KG
BKFCSB013	p,p'-DDT	0.35	3.6	0.175	UJ	UG/KG
BKFCSB014	p,p'-DDT	0.35	3.7	0.175	U	UG/KG
BKFCSB015	p,p'-DDT	0.35	3.4	0.175	U	UG/KG
BKLMSB001	p,p'-DDT	0.35	3.5	0.175	U	UG/KG
BKLMSB002	p,p'-DDT	0.35	3.5	0.175	U	UG/KG
BKLMSB003	p,p'-DDT	0.35	3.6	0.175	U	UG/KG
BKLMSB004	p,p'-DDT	0.35	3.4	0.175	U	UG/KG
BKLMSB006	p,p'-DDT	0.35	3.4	0.175	U	UG/KG
BKLMSB007	p,p'-DDT	0.35	3.4	0.175	U	UG/KG
BKLMSB008	p,p'-DDT	0.35	3.4	0.175	U	UG/KG
BKLMSB009	p,p'-DDT	0.35	3.4	0.175	U	UG/KG
BKLMSB010	p,p'-DDT	0.35	3.5	0.175	U	UG/KG
BKLMSB011	p,p'-DDT	0.35	3.5	0.175	U	UG/KG
BKLMSB012	p,p'-DDT	0.35	3.7	0.175	U	UG/KG
BKLMSB013	p,p'-DDT	0.35	3.4	0.175	UJ	UG/KG
BKLMSB014	p,p'-DDT	0.35	3.6	0.175	U	UG/KG
BKLMSB015	p,p'-DDT	0.35	3.5	0.175	U	UG/KG
BKFSSB001	p,p'-DDT	0.35	3.4	0.175	U	UG/KG
BKFSSB002	p,p'-DDT	0.35	3.6	0.175	U	UG/KG
BKFSSB003	p,p'-DDT	0.35	3	3	J	UG/KG
BKFSSB004	p,p'-DDT	0.35	2.5	2.5	J	UG/KG
BKFSSB005	p,p'-DDT	0.35	3.5	0.175	U	UG/KG
BKFSSB007	p,p'-DDT	0.35	3.7	0.175	U	UG/KG
BKFSSB008	p,p'-DDT	0.35	3.8	0.175	U	UG/KG
BKFSSB009	p,p'-DDT	0.35	1.9	1.9	J	UG/KG
BKFSSB010	p,p'-DDT	0.35	3.8	0.175	U	UG/KG
BKFSSB011	p,p'-DDT	0.35	3.6	0.175	U	UG/KG
BKFSSB012	p,p'-DDT	0.35	3.6	0.175	U	UG/KG
BKFSSB013	p,p'-DDT	0.35	3.9	0.175	U	UG/KG
BKFSSB014	p,p'-DDT	0.35	3.8	0.175	U	UG/KG
BKFSSB015	p,p'-DDT	0.35	49	49	J	UG/KG
			Mean	1.313158		
			Twice Mean	2.626316		

3 10 C618

StationID	Parameter	MDL	Result	Result or 1/2 MDL	Qual	Units
BKBDSB001	PCB-1016 (AROCHLOR 1016)	5.7	36	2.85	U	UG/KG
BKBDSB002	PCB-1016 (AROCHLOR 1016)	5.7	70	2.85	U	UG/KG
BKBDSB003	PCB-1016 (AROCHLOR 1016)	5.7	35	2.85	U	UG/KG
BKBDSB004	PCB-1016 (AROCHLOR 1016)	5.7	35	2.85	U	UG/KG
BKBDSB005	PCB-1016 (AROCHLOR 1016)	5.7	34	2.85	U	UG/KG
BKBDSB006	PCB-1016 (AROCHLOR 1016)	5.7	37	2.85	U	UG/KG
BKBDSB007	PCB-1016 (AROCHLOR 1016)	5.7	36	2.85	U	UG/KG
BKBDSB008	PCB-1016 (AROCHLOR 1016)	5.7	36	2.85	U	UG/KG
BKBDSB009	PCB-1016 (AROCHLOR 1016)	5.7	36	2.85	U	UG/KG
BKBDSB010	PCB-1016 (AROCHLOR 1016)	5.7	37	2.85	U	UG/KG
BKBDSB011	PCB-1016 (AROCHLOR 1016)	5.7	34	2.85	U	UG/KG
BKBDSB012	PCB-1016 (AROCHLOR 1016)	5.7	36	2.85	U	UG/KG
BKBDSB014	PCB-1016 (AROCHLOR 1016)	5.7	34	2.85	U	UG/KG
BKBDSB015	PCB-1016 (AROCHLOR 1016)	5.7	36	2.85	U	UG/KG
BKFCSB001	PCB-1016 (AROCHLOR 1016)	5.7	37	2.85	U	UG/KG
BKFCSB002	PCB-1016 (AROCHLOR 1016)	5.7	37	2.85	U	UG/KG
BKFCSB003	PCB-1016 (AROCHLOR 1016)	5.7	37	2.85	UJ	UG/KG
BKFCSB004	PCB-1016 (AROCHLOR 1016)	5.7	37	2.85	U	UG/KG
BKFCSB005	PCB-1016 (AROCHLOR 1016)	5.7	37	2.85	U	UG/KG
BKFCSB006	PCB-1016 (AROCHLOR 1016)	5.7	36	2.85	U	UG/KG
BKFCSB007	PCB-1016 (AROCHLOR 1016)	5.7	35	2.85	U	UG/KG
BKFCSB008	PCB-1016 (AROCHLOR 1016)	5.7	35	2.85	U	UG/KG
BKFCSB009	PCB-1016 (AROCHLOR 1016)	5.7	36	2.85	U	UG/KG
BKFCSB010	PCB-1016 (AROCHLOR 1016)	5.7	35	2.85	U	UG/KG
BKFCSB011	PCB-1016 (AROCHLOR 1016)	5.7	34	2.85	U	UG/KG
BKFCSB012	PCB-1016 (AROCHLOR 1016)	5.7	37	2.85	U	UG/KG
BKFCSB013	PCB-1016 (AROCHLOR 1016)	5.7	36	2.85	UJ	UG/KG
BKFCSB014	PCB-1016 (AROCHLOR 1016)	5.7	37	2.85	U	UG/KG
BKFCSB015	PCB-1016 (AROCHLOR 1016)	5.7	34	2.85	U	UG/KG
BKLMSB001	PCB-1016 (AROCHLOR 1016)	5.7	35	2.85	U	UG/KG
BKLMSB002	PCB-1016 (AROCHLOR 1016)	5.7	35	2.85	U	UG/KG
BKLMSB003	PCB-1016 (AROCHLOR 1016)	5.7	36	2.85	U	UG/KG
BKLMSB004	PCB-1016 (AROCHLOR 1016)	5.7	34	2.85	U	UG/KG
BKLMSB006	PCB-1016 (AROCHLOR 1016)	5.7	34	2.85	U	UG/KG
BKLMSB007	PCB-1016 (AROCHLOR 1016)	5.7	34	2.85	U	UG/KG
BKLMSB008	PCB-1016 (AROCHLOR 1016)	5.7	34	2.85	U	UG/KG
BKLMSB009	PCB-1016 (AROCHLOR 1016)	5.7	34	2.85	U	UG/KG
BKLMSB010	PCB-1016 (AROCHLOR 1016)	5.7	35	2.85	U	UG/KG
BKLMSB011	PCB-1016 (AROCHLOR 1016)	5.7	35	2.85	U	UG/KG
BKLMSB012	PCB-1016 (AROCHLOR 1016)	5.7	37	2.85	U	UG/KG
BKLMSB013	PCB-1016 (AROCHLOR 1016)	5.7	34	2.85	UJ	UG/KG
BKLMSB014	PCB-1016 (AROCHLOR 1016)	5.7	36	2.85	U	UG/KG
BKLMSB015	PCB-1016 (AROCHLOR 1016)	5.7	35	2.85	U	UG/KG
BKFSSB001	PCB-1016 (AROCHLOR 1016)	5.7	34	2.85	U	UG/KG
BKFSSB002	PCB-1016 (AROCHLOR 1016)	5.7	36	2.85	U	UG/KG
BKFSSB003	PCB-1016 (AROCHLOR 1016)	5.7	35	2.85	U	UG/KG
BKFSSB004	PCB-1016 (AROCHLOR 1016)	5.7	35	2.85	U	UG/KG
BKFSSB005	PCB-1016 (AROCHLOR 1016)	5.7	35	2.85	U	UG/KG
BKFSSB007	PCB-1016 (AROCHLOR 1016)	5.7	37	2.85	U	UG/KG
BKFSSB008	PCB-1016 (AROCHLOR 1016)	5.7	38	2.85	U	UG/KG
BKFSSB009	PCB-1016 (AROCHLOR 1016)	5.7	35	2.85	U	UG/KG
BKFSSB010	PCB-1016 (AROCHLOR 1016)	5.7	38	2.85	U	UG/KG
BKFSSB011	PCB-1016 (AROCHLOR 1016)	5.7	36	2.85	U	UG/KG
BKFSSB012	PCB-1016 (AROCHLOR 1016)	5.7	36	2.85	U	UG/KG
BKFSSB013	PCB-1016 (AROCHLOR 1016)	5.7	39	2.85	U	UG/KG
BKFSSB014	PCB-1016 (AROCHLOR 1016)	5.7	38	2.85	U	UG/KG
BKFSSB015	PCB-1016 (AROCHLOR 1016)	5.7	35	2.85	UJ	UG/KG
			Mean	2.85		
			Twice Mean	5.7		

StationID	Parameter	MDL	Result	Results or 1/2 MDL	Qual	Units
BKBDSB001	ANTIMONY	0.5	0.56	0.25	UJ	MG/KG
BKBDSB004	ANTIMONY	0.5	0.52	0.25	UJ	MG/KG
BKBDSB008	ANTIMONY	0.5	0.56	0.25	UJ	MG/KG
BKBDSB010	ANTIMONY	0.5	0.57	0.25	UJ	MG/KG
BKFCSB001	ANTIMONY	0.5	0.55	0.25	U	MG/KG
BKFCSB008	ANTIMONY	0.5	0.48	0.25	U	MG/KG
BKFCSB009	ANTIMONY	0.5	0.47	0.25	U	MG/KG
BKFCSB010	ANTIMONY	0.5	0.47	0.25	U	MG/KG
BKFSSB004	ANTIMONY	0.5	0.48	0.25	UJ	MG/KG
BKFSSB010	ANTIMONY	0.5	0.57	0.25	U	MG/KG
BKFSSB011	ANTIMONY	0.5	0.52	0.25	U	MG/KG
BKLMSB001	ANTIMONY	0.5	0.53	0.25	U	MG/KG
BKLMSB015	ANTIMONY	0.5	0.47	0.25	U	MG/KG
Mean				0.25		
Twice mean				0.5		
BKBDSB001	ARSENIC	0.45	0.51	0.225	U	MG/KG
BKBDSB004	ARSENIC	0.45	0.97	0.97	J	MG/KG
BKBDSB008	ARSENIC	0.45	0.79	0.79	J	MG/KG
BKBDSB010	ARSENIC	0.45	0.51	0.225	U	MG/KG
BKFCSB001	ARSENIC	0.45	0.49	0.225	U	MG/KG
BKFCSB008	ARSENIC	0.45	0.43	0.225	U	MG/KG
BKFCSB009	ARSENIC	0.45	0.43	0.225	U	MG/KG
BKFCSB010	ARSENIC	0.45	0.43	0.225	U	MG/KG
BKFSSB004	ARSENIC	0.45	0.44	0.225	U	MG/KG
BKFSSB010	ARSENIC	0.45	0.51	0.225	U	MG/KG
BKFSSB011	ARSENIC	0.45	0.46	0.225	U	MG/KG
BKLMSB001	ARSENIC	0.45	0.47	0.225	U	MG/KG
BKLMSB015	ARSENIC	0.45	0.43	0.225	U	MG/KG
Mean				0.325769231		
Twice mean				0.651538462		
BKBDSB001	BARIUM	0.16	7.9	7.9	J	MG/KG
BKBDSB004	BARIUM	0.16	23	23	J	MG/KG
BKBDSB008	BARIUM	0.16	17	17	J	MG/KG
BKBDSB010	BARIUM	0.16	7.4	7.4	J	MG/KG
BKFCSB001	BARIUM	0.16	11	11	J	MG/KG
BKFCSB008	BARIUM	0.16	3.7	3.7	J	MG/KG
BKFCSB009	BARIUM	0.16	2.7	2.7	J	MG/KG
BKFCSB010	BARIUM	0.16	2.9	2.9	J	MG/KG
BKFSSB004	BARIUM	0.16	12	12	J	MG/KG
BKFSSB010	BARIUM	0.16	7.5	7.5	J	MG/KG
BKFSSB011	BARIUM	0.16	4.7	4.7	J	MG/KG
BKLMSB001	BARIUM	0.16	2.1	2.1	J	MG/KG
BKLMSB015	BARIUM	0.16	29	29	J	MG/KG
Mean				10.06923077		
Twice mean				20.13846154		
BKBDSB010	BENZO(a)ANTHRACENE	20	85	85	J	UG/KG
BKFCSB009	BENZO(a)ANTHRACENE	20	340	10	U	UG/KG
BKFSSB010	BENZO(a)ANTHRACENE	20	380	10	U	UG/KG
Mean				35		
Twice mean				70		

StationID	Parameter	MDL	Result	Results or 1/2 MDL	Qual	Units
BKBDSB010	BENZO(a)PYRENE	29	130	130	J	UG/KG
BKFCSB009	BENZO(a)PYRENE	29	340	14.5	U	UG/KG
BKFSSB010	BENZO(a)PYRENE	29	380	14.5	U	UG/KG
Mean				53		
Twice mean				106		
BKBDSB010	BENZO(b)FLUORANTHENE	23	78	78	J	UG/KG
BKFCSB009	BENZO(b)FLUORANTHENE	23	340	11.5	U	UG/KG
BKFSSB010	BENZO(b)FLUORANTHENE	23	380	11.5	U	UG/KG
Mean				33.66666667		
Twice mean				67.33333333		
BKBDSB010	BENZO(k)FLUORANTHENE	26	120	120	J	UG/KG
BKFCSB009	BENZO(k)FLUORANTHENE	26	340	13	U	UG/KG
BKFSSB010	BENZO(k)FLUORANTHENE	26	380	13	U	UG/KG
Mean				48.66666667		
Twice mean				97.33333333		
BKBDSB001	CADMIUM	0.087	0.098	0.0435	U	MG/KG
BKBDSB004	CADMIUM	0.087	0.091	0.0435	U	MG/KG
BKBDSB008	CADMIUM	0.087	0.098	0.0435	U	MG/KG
BKBDSB010	CADMIUM	0.087	0.099	0.0435	U	MG/KG
BKFCSB001	CADMIUM	0.087	0.095	0.0435	U	MG/KG
BKFCSB008	CADMIUM	0.087	0.083	0.0435	U	MG/KG
BKFCSB009	CADMIUM	0.087	0.082	0.0435	U	MG/KG
BKFCSB010	CADMIUM	0.087	0.082	0.0435	U	MG/KG
BKFSSB004	CADMIUM	0.087	0.086	0.086	J	MG/KG
BKFSSB010	CADMIUM	0.087	0.099	0.0435	U	MG/KG
BKFSSB011	CADMIUM	0.087	0.09	0.0435	U	MG/KG
BKLMSB001	CADMIUM	0.087	0.092	0.0435	U	MG/KG
BKLMSB015	CADMIUM	0.087	0.082	0.0435	U	MG/KG
Mean				0.046769231		
Twice mean				0.093538462		
BKBDSB001	CHROMIUM, TOTAL	0.17	1.3	0.085	U	MG/KG
BKBDSB004	CHROMIUM, TOTAL	0.17	13	13	=	MG/KG
BKBDSB008	CHROMIUM, TOTAL	0.17	9.5	9.5	=	MG/KG
BKBDSB010	CHROMIUM, TOTAL	0.17	5.8	5.8	=	MG/KG
BKFCSB001	CHROMIUM, TOTAL	0.17	6.9	6.9	=	MG/KG
BKFCSB008	CHROMIUM, TOTAL	0.17	0.76	0.085	U	MG/KG
BKFCSB009	CHROMIUM, TOTAL	0.17	2	2	=	MG/KG
BKFCSB010	CHROMIUM, TOTAL	0.17	1.1	1.1	J	MG/KG
BKFSSB004	CHROMIUM, TOTAL	0.17	1.1	1.1	J	MG/KG
BKFSSB010	CHROMIUM, TOTAL	0.17	1.6	1.6	J	MG/KG
BKFSSB011	CHROMIUM, TOTAL	0.17	1.4	1.4	J	MG/KG
BKLMSB001	CHROMIUM, TOTAL	0.17	1	0.085	U	MG/KG
BKLMSB015	CHROMIUM, TOTAL	0.17	1.7	1.7	J	MG/KG
Mean				3.411923077		
Twice mean				6.823846154		
BKBDSB010	CHRYSENE	21	120	120	J	UG/KG
BKFCSB009	CHRYSENE	21	340	10.5	U	UG/KG
BKFSSB010	CHRYSENE	21	380	10.5	U	UG/KG
Mean				47		
Twice mean				94		

StationID	Parameter	MDL	Result	Results or 1/2 MDL	Qual	Units
BKBDSB001	COPPER	0.72	0.81	0.36	U	MG/KG
BKBDSB004	COPPER	0.72	0.75	0.36	U	MG/KG
BKBDSB008	COPPER	0.72	0.81	0.36	U	MG/KG
BKBDSB010	COPPER	0.72	0.82	0.36	U	MG/KG
BKFCSB001	COPPER	0.72	0.79	0.36	UJ	MG/KG
BKFCSB008	COPPER	0.72	0.69	0.36	UJ	MG/KG
BKFCSB009	COPPER	0.72	0.68	0.36	U	MG/KG
BKFCSB010	COPPER	0.72	0.68	0.36	UJ	MG/KG
BKFSSB004	COPPER	0.72	1.2	1.2	J	MG/KG
BKFSSB010	COPPER	0.72	0.82	0.36	UJ	MG/KG
BKFSSB011	COPPER	0.72	0.74	0.36	UJ	MG/KG
BKLMSB001	COPPER	0.72	0.76	0.36	U	MG/KG
BKLMSB015	COPPER	0.72	0.68	0.36	U	MG/KG
Mean				0.424615385		
Twice mean				0.849230769		
BKBDSB010	DIBENZ(a,h)ANTHRACENE	52	68	68	J	UG/KG
BKFCSB009	DIBENZ(a,h)ANTHRACENE	52	340	26	U	UG/KG
BKFSSB010	DIBENZ(a,h)ANTHRACENE	52	380	26	U	UG/KG
Mean				40		
Twice mean				80		
BKBDSB010	INDENO(1,2,3-c,d)PYRENE	67	87	87	J	UG/KG
BKFCSB009	INDENO(1,2,3-c,d)PYRENE	67	340	33.5	U	UG/KG
BKFSSB010	INDENO(1,2,3-c,d)PYRENE	67	380	33.5	U	UG/KG
Mean				51.33333333		
Twice mean				102.6666667		
BKBDSB001	LEAD	0.42	4.5	4.5	=	MG/KG
BKBDSB004	LEAD	0.42	10	10	=	MG/KG
BKBDSB008	LEAD	0.42	6.8	6.8	=	MG/KG
BKBDSB010	LEAD	0.42	3.9	3.9	=	MG/KG
BKFCSB001	LEAD	0.42	4.1	4.1	J	MG/KG
BKFCSB008	LEAD	0.42	2	2	J	MG/KG
BKFCSB009	LEAD	0.42	1.6	1.6	=	MG/KG
BKFCSB010	LEAD	0.42	2.6	2.6	J	MG/KG
BKFSSB004	LEAD	0.42	4.3	4.3	=	MG/KG
BKFSSB010	LEAD	0.42	6.7	6.7	J	MG/KG
BKFSSB011	LEAD	0.42	2.3	2.3	J	MG/KG
BKLMSB001	LEAD	0.42	1.6	1.6	=	MG/KG
BKLMSB015	LEAD	0.42	3.1	3.1	=	MG/KG
Mean				4.115384615		
Twice mean				8.230769231		
BKBDSB001	MANGANESE	0.21	6.6	6.6	=	MG/KG
BKBDSB004	MANGANESE	0.21	5.2	5.2	=	MG/KG
BKBDSB008	MANGANESE	0.21	2.1	2.1	J	MG/KG
BKBDSB010	MANGANESE	0.21	3.8	3.8	=	MG/KG
BKFCSB001	MANGANESE	0.21	2.8	2.8	J	MG/KG
BKFCSB008	MANGANESE	0.21	1.9	1.9	J	MG/KG
BKFCSB009	MANGANESE	0.21	4.9	4.9	J	MG/KG
BKFCSB010	MANGANESE	0.21	1.4	1.4	J	MG/KG
BKFSSB004	MANGANESE	0.21	5.4	5.4	J	MG/KG
BKFSSB010	MANGANESE	0.21	9.9	9.9	=	MG/KG
BKFSSB011	MANGANESE	0.21	17	17	=	MG/KG
BKLMSB001	MANGANESE	0.21	2.1	2.1	J	MG/KG
BKLMSB015	MANGANESE	0.21	4.5	4.5	=	MG/KG
Mean				5.2		
Twice mean				10.4		

StationID	Parameter	MDL	Result	Results or 1/2 MDL	Qual	Units
BKBDSB001	NICKEL	0.43	0.48	0.215	U	MG/KG
BKBDSB004	NICKEL	0.43	1.4	1.4	J	MG/KG
BKBDSB008	NICKEL	0.43	1.2	1.2	J	MG/KG
BKBDSB010	NICKEL	0.43	3.1	3.1	J	MG/KG
BKFCSB001	NICKEL	0.43	2.2	2.2	J	MG/KG
BKFCSB008	NICKEL	0.43	0.41	0.215	U	MG/KG
BKFCSB009	NICKEL	0.43	0.41	0.215	U	MG/KG
BKFCSB010	NICKEL	0.43	0.41	0.215	U	MG/KG
BKFSSB004	NICKEL	0.43	1.6	1.6	J	MG/KG
BKFSSB010	NICKEL	0.43	0.49	0.215	U	MG/KG
BKFSSB011	NICKEL	0.43	0.44	0.215	U	MG/KG
BKLMSB001	NICKEL	0.43	0.45	0.215	U	MG/KG
BKLMSB015	NICKEL	0.43	0.62	0.62	J	MG/KG
Mean				0.894230769		
Twice mean				1.788461538		
BKBDSB010	PCB-1254 (AROCHLOR 1254)	8.2	38	4.1	U	UG/KG
BKFCSB009	PCB-1254 (AROCHLOR 1254)	8.2	34	4.1	UJ	UG/KG
BKFSSB010	PCB-1254 (AROCHLOR 1254)	8.2	38	4.1	U	UG/KG
Mean				4.1		
Twice mean				8.2		
BKBDSB010	PCB-1260 (AROCHLOR 1260)	8	38	4	U	UG/KG
BKFCSB009	PCB-1260 (AROCHLOR 1260)	8	34	4	UJ	UG/KG
BKFSSB010	PCB-1260 (AROCHLOR 1260)	8	38	4	U	UG/KG
Mean				4		
Twice mean				8		
BKBDSB001	THALLIUM	0.2	0.64	0.1	U	MG/KG
BKBDSB004	THALLIUM	0.2	0.6	0.1	U	MG/KG
BKBDSB008	THALLIUM	0.2	0.64	0.1	U	MG/KG
BKBDSB010	THALLIUM	0.2	0.65	0.1	U	MG/KG
BKFCSB001	THALLIUM	0.2	0.62	0.1	U	MG/KG
BKFCSB008	THALLIUM	0.2	0.55	0.1	U	MG/KG
BKFCSB009	THALLIUM	0.2	0.54	0.1	U	MG/KG
BKFCSB010	THALLIUM	0.2	0.54	0.1	U	MG/KG
BKFSSB004	THALLIUM	0.2	0.55	0.1	U	MG/KG
BKFSSB010	THALLIUM	0.2	0.65	0.1	U	MG/KG
BKFSSB011	THALLIUM	0.2	0.59	0.1	U	MG/KG
BKLMSB001	THALLIUM	0.2	0.6	0.1	U	MG/KG
BKLMSB015	THALLIUM	0.2	0.54	0.1	U	MG/KG
Mean				0.1		
Twice mean				0.2		
BKBDSB001	VANADIUM	0.11	2.1	2.1	J	MG/KG
BKBDSB004	VANADIUM	0.11	12	12	=	MG/KG
BKBDSB008	VANADIUM	0.11	11	11	J	MG/KG
BKBDSB010	VANADIUM	0.11	13	13	=	MG/KG
BKFCSB001	VANADIUM	0.11	8	8	J	MG/KG
BKFCSB008	VANADIUM	0.11	0.67	0.055	U	MG/KG
BKFCSB009	VANADIUM	0.11	1.3	1.3	J	MG/KG
BKFCSB010	VANADIUM	0.11	1.4	1.4	J	MG/KG
BKFSSB004	VANADIUM	0.11	1.3	1.3	J	MG/KG
BKFSSB010	VANADIUM	0.11	1.4	1.4	J	MG/KG
BKFSSB011	VANADIUM	0.11	1.6	1.6	J	MG/KG
BKLMSB001	VANADIUM	0.11	0.75	0.75	J	MG/KG
BKLMSB015	VANADIUM	0.11	2	2	J	MG/KG
Mean				4.300384615		
Twice mean				8.600769231		

StationID	Parameter	MDL	Result	Results or 1/2 MDL	Qual	Units
BKBDSB001	ZINC	0.98	1.7	1.7	J	MG/KG
BKBDSB004	ZINC	0.98	3.8	3.8	J	MG/KG
BKBDSB008	ZINC	0.98	2	2	J	MG/KG
BKBDSB010	ZINC	0.98	1.9	1.9	J	MG/KG
BKFCSB001	ZINC	0.98	2.4	2.4	J	MG/KG
BKFCSB008	ZINC	0.98	1.9	1.9	J	MG/KG
BKFCSB009	ZINC	0.98	1.6	0.49	U	MG/KG
BKFCSB010	ZINC	0.98	1.6	1.6	J	MG/KG
BKFSSB004	ZINC	0.98	42	42	=	MG/KG
BKFSSB010	ZINC	0.98	5.4	5.4	J	MG/KG
BKFSSB011	ZINC	0.98	21	21	J	MG/KG
BKLMSB001	ZINC	0.98	5.2	5.2	J	MG/KG
BKLMSB015	ZINC	0.98	9.8	9.8	J	MG/KG
Mean				7.63		
Twice mean				15.26		

StationID	Parameter	MDL	Result	Result or 1/2 MDL	Qual	Units
BKBDSB010	ALDRIN	0.15	1.9	0.075	U	UG/KG
BKFCSB009	ALDRIN	0.15	1.8	0.075	UJ	UG/KG
BKFSSB010	ALDRIN	0.15	1.9	0.075	U	UG/KG
			Mean	0.075		
			Twice Mean	0.15		
BKBDSB001	ALUMINUM	2.9	1100	1100	=	MG/KG
BKBDSB004	ALUMINUM	2.9	11000	11000	=	MG/KG
BKBDSB008	ALUMINUM	2.9	8100	8100	=	MG/KG
BKBDSB010	ALUMINUM	2.9	7400	7400	=	MG/KG
BKFCSB001	ALUMINUM	2.9	11000	11000	J	MG/KG
BKFCSB008	ALUMINUM	2.9	370	370	J	MG/KG
BKFCSB009	ALUMINUM	2.9	1200	1200	=	MG/KG
BKFCSB010	ALUMINUM	2.9	540	540	J	MG/KG
BKFSSB004	ALUMINUM	2.9	1200	1200	=	MG/KG
BKFSSB010	ALUMINUM	2.9	1100	1100	J	MG/KG
BKFSSB011	ALUMINUM	2.9	740	740	J	MG/KG
BKLMSB001	ALUMINUM	2.9	530	530	J	MG/KG
BKLMSB015	ALUMINUM	2.9	2200	2200	J	MG/KG
			Mean	3575.38		
			Twice Mean	7150.77		
BKBDSB010	DIELDRIN	0.24	3.8	0.12	U	UG/KG
BKFCSB009	DIELDRIN	0.24	3.4	0.12	UJ	UG/KG
BKFSSB010	DIELDRIN	0.24	3.8	0.12	U	UG/KG
			Mean	0.12		
			Twice Mean	0.24		
BKBDSB010	GAMMA-CHLORDANE	0.2	1.9	0.1	U	UG/KG
BKFCSB009	GAMMA-CHLORDANE	0.2	1.8	0.1	UJ	UG/KG
BKFSSB010	GAMMA-CHLORDANE	0.2	1.9	0.1	U	UG/KG
			Mean	0.1		
			Twice Mean	0.2		
BKBDSB010	HEPTACHLOR	0.2	1.9	0.1	U	UG/KG
BKFCSB009	HEPTACHLOR	0.2	1.8	0.1	UJ	UG/KG
BKFSSB010	HEPTACHLOR	0.2	1.9	0.1	U	UG/KG
			Mean	0.1		
			Twice Mean	0.2		
BKBDSB010	HEPTACHLOR EPOXIDE	0.12	1.9	0.06	U	UG/KG
BKFCSB009	HEPTACHLOR EPOXIDE	0.12	1.8	0.06	UJ	UG/KG
BKFSSB010	HEPTACHLOR EPOXIDE	0.12	1.9	0.06	U	UG/KG
			Mean	0.06		
			Twice Mean	0.12		
BKBDSB001	IRON	2.25	670	670	=	MG/KG
BKBDSB004	IRON	2.25	3900	3900	=	MG/KG
BKBDSB008	IRON	2.25	7000	7000	=	MG/KG
BKBDSB010	IRON	2.25	3000	3000	=	MG/KG
BKFCSB001	IRON	2.25	1400	1400	=	MG/KG
BKFCSB008	IRON	2.25	77	77	=	MG/KG
BKFCSB009	IRON	2.25	560	560	=	MG/KG
BKFCSB010	IRON	2.25	530	530	=	MG/KG
BKFSSB004	IRON	2.25	650	650	J	MG/KG
BKFSSB010	IRON	2.25	360	360	=	MG/KG
BKFSSB011	IRON	2.25	520	520	=	MG/KG
BKLMSB001	IRON	2.25	240	240	J	MG/KG
BKLMSB015	IRON	2.25	410	410	J	MG/KG
			Mean	1485.92		
			Twice Mean	2971.85		

Subsurface Background Calculations

BKBDSB001	MERCURY	0.0028	0.011	0.011	J	MG/KG
BKBDSB004	MERCURY	0.0028	0.016	0.016	J	MG/KG
BKBDSB008	MERCURY	0.0028	0.018	0.018	J	MG/KG
BKBDSB010	MERCURY	0.0028	0.014	0.014	J	MG/KG
BKFCSB001	MERCURY	0.0028	0.016	0.016	J	MG/KG
BKFCSB008	MERCURY	0.0028	0.0048	0.0048	J	MG/KG
BKFCSB009	MERCURY	0.0028	0.0068	0.0014	U	MG/KG
BKFCSB010	MERCURY	0.0028	0.0062	0.0062	J	MG/KG
BKFSSB004	MERCURY	0.0028	0.054	0.054	J	MG/KG
BKFSSB010	MERCURY	0.0028	0.018	0.018	J	MG/KG
BKFSSB011	MERCURY	0.0028	0.0094	0.0094	J	MG/KG
BKLMSB001	MERCURY	0.0028	0.0051	0.0051	J	MG/KG
BKLMSB015	MERCURY	0.0028	0.0065	0.0065	J	MG/KG
			Mean	0.01387692		
			Twice Mean	0.02775385		
BKBDSB010	p,p'-DDT	0.35	3.8	0.175	U	UG/KG
BKFCSB009	p,p'-DDT	0.35	3.4	0.175	UJ	UG/KG
BKFSSB010	p,p'-DDT	0.35	3.8	0.175	U	UG/KG
			Mean	0.175		
			Twice Mean	0.35		
BKBDSB010	PCB-1016 (AROCHLOR 1016)	5.7	38	2.85	U	UG/KG
BKFCSB009	PCB-1016 (AROCHLOR 1016)	5.7	34	2.85	UJ	UG/KG
BKFSSB010	PCB-1016 (AROCHLOR 1016)	5.7	38	2.85	U	UG/KG
			Mean	2.85		
			Twice Mean	5.7		

3 10 0626

Appendix G

CHECKLIST FOR ECOLOGICAL ASSESSMENT

Checklist for Ecological Assessment

I. SITE DESCRIPTION

1. Site Name: Brown's Dump Site (Mary McLeod Bethune Elementary School)

   Location: 4330 Pearce Street

   County: Duval City: Jacksonville State: FL

2. Latitude: 30°22'00" Longitude: 81°41'10"

3. What is the approximate area of the site? 50 acres

4. Is this the first site visit? ☒Yes ☐No *If no, attach trip report of previous site visit(s), if available.*

   Date(s) of previous site visit(s): NA

5. Please attach to the checklist USGS topographic map(s) of the site, if available. See attached

6. Are aerial or other site photographs available? ☒Yes ☐No *If yes, please attach any available photo(s) to the site map at the conclusion of this section.* See attached

7. The land use on the site is:

	The area surrounding the site is: 0.7mile radius
___% Urban	___% Urban
___% Rural	___% Rural
63% Residential	69 % Residential
2% Industrial (☒light ☐heavy)	18 % Industrial (☒light ☐heavy)
___% Agriculture	___% Agriculture
(Crops:___)	*(Crops___)*
___% Recreational	1 % Recreational
(Describe; note if it is a park, etc.)	*(Describe; note if it is a park, etc.)*
___% Undisturbed	___% Undisturbed
35% Other: Public facility (elementary school)	12 % Other: Public buildings and facilities

8. Has any movement of soil taken place at the site? ☐Yes ☒No *If yes, please identify the most likely cause of this disturbance:*

☐Agricultural Use ☐Heavy Equipment ☐Mining

☐Natural Events ☐Erosion ☐Other

Please describe:NA

9. Do any potentially sensitive environmental areas exist adjacent to or in proximity to the site, e.g., Federal and State parks, National and State monuments, wetlands, prairie potholes? *Remember, flood plains and wetlands are not always obvious; do not answer "no" without confirming information.* No

Please provide the source(s) of information used to identify these sensitive areas, and indicate their general location on the site map.NA

10. What type of facility is located at the site?

☐Chemical ☐Manufacturing ☐Mixing ☐Waste Disposal

☒Other (specify)Public institution (school) and an electrical substation

11. What are the suspected contaminants of concern at the site? *If known, what are the maximum concentration levels?* Primarily inorganics (lead, arsenic) and some low levels of PAHs, PCBs and pesticides.

12. Check any potential routes of off-site migration of contaminants observed at the site:

☐Swales ☐Depressions ☐Drainage Ditches

☒Runoff ☐Windblown Particulates ☐Vehicular Traffic

☐Other(specify)

13. If known, what is the approximate depth to the water table? 16-18 feet below ground

14. Is the direction of surface runoff apparent from site observations? ☒Yes ☐No *If yes, to which of the following does the surface runoff discharge?* Indicate all that apply.

☒Suface Water ☐Groundwater ☒Sewer ☐Collection Impoundment

15. Is there a navigable waterbody or tributary to a navigable waterbody? ☒Yes ☐No

3 10 0630

16. Is there a waterbody anywhere on or in the vicinity of the site? *If yes, also complete Section III: Aquatic Habitat Checklist – Non-Flowing Systems and/or Section IV: Aquatic Habitat Checklist – Flowing Systems.*

☒Yes (approximate distance: borders site boundary) ☐No

17. Is there evidence of flooding? ☐Yes ☒No *Wetlands and flood plains are not always obvious; do not answer "no" without confirming information. If yes, complete Section V: Wetland Habitat Checklist.*

18. If a field guide was used to aid any of the identifications, please provide a reference. Also, estimate the time spent identifying fauna. *[Use a blank sheet if additional space is needed for text.]* Peterson's Field Guides; approximately one hour was spent observing fauna.

19. Are any threatened and/or endangered species (plant or animal) known to inhabit the area of the site? ☐Yes ☒No *If yes, you are required to verify this information with the U.S. Fish and Wildlife Service. If species' identities are known, please list them next.*

20. Record weather conditions at the time this checklist was prepared:

DATE: 8/10/2000

31/87 Temperature (°C/°F) _____ Normal daily high temperature

_____ Wind (direction/speed) none Precipitation (rain, snow)

_____ Cloud cover

3 10 ?631

IA. SUMMARY OF OBSERVATIONS AND SITE SETTING

Brown' Dump is located in northeastern Duval County, Florida in the city of Jacksonville. The site encompasses approximately fifty acres and consists of the Mary McLeod Bethune Elementary School, a JEA electrical substation, and surrounding single- and multiple-family residential homes. The northern edge of the site is bounded by Moncrief Creek and a CSXT Railroad line while the remaining boundry is surrounded by residential areas.

The site itself contains no natural habitat. The school consists of three buildings, parking areas, and open spaces. The open spaces are primarily mowed grasses with areas of bare soil and a few large, isolated oak trees. A playground and basketball court are also located in the open areas of the school property. Potentially occurring terrestrial wildlife would primarily be urban adapted species such as sparrows, cardinals, blue jays, mockingbirds, and small mammals such as mice, shrews, and rabbits. These animals are capable of utilizing disturbed habitat and can exploit multiple habitat types. The school property is surrounded by a high fence that would likely exclude larger mammals such as deer and racoons. Overall, the school provides habitat of low ecological value.

The northeast corner of the site is occupied by an electrical substation operated by the Jacksonville Electrical Authority (JEA). This site is approximately two acres in size and is surrounded by a high fence. The area is mowed grass and gravel and provides no natural habitat. No animals were observed during the visit and potentially occurring wildlife would be limited to small mammals such as mice and shrews.

The surrounding residential areas of the site are covered primarily with routinely maintained lawns and grass covered right-of-ways near streets and intersections. These areas and generally unsuitable for most wildlife species. Use of these areas would be limited to to residential adapted species of birds and small mammals.

Offsite, Moncrief Creek flows northeasterly and forms the northern boundry of the site. Moncrief Creek is a significant aquatic habitat associated with this site. The creek is a Class III surface water body which corresponds to recreational use and maintenance/propogation of fish populations. The creek is a continuous, moderate flow water body approximately 15 ft wide and 1-2 ft deep. A variety of submerged and emerged aquatic vegetation was observed, including: ludwigia (*Ludwigia* spp.), arrowhead (*Sagittaria* spp.), and hydrilla (*Hydrilla* spp.). Commonly observed creekbank vegetation includes willow (*Salix* spp.), elephant ear (Colocasia esculenta), cabbage palm (*Sabal palmetto*), and ferns. Bluegill (*Lepomis* spp.) and mosquitofish (*Gamubsia* spp.) were observed during the visit and it is likely that other commonly occurring fish species such as sunfish and catfish may be present as well. A turtle was observed during the visit and it can be assumed that other potentially occurring wildlife includes amphibians (such as frogs) and reptiles.

Above the creekbank along the creek corridor there are areas of mixed upland tree species of canopy and subcanopy size. Several bird species were observed in proximity to the creek, including: fish crows, a laughing gull, chimney swifts, and a Mississippi Kite.

Although no direct discharge areas to the creek were observed, it is possible that it receives surface runoff from the site during rainfall events. This creek has been dredged in the past and dredge material along the creekbank was observed to include ash material; presenting a potential source for contamination to the creek.
No potential wetland areas were observed during the site visit. National Wetlands Inventory maps from the USFWS indicate that there are two downstream wetlands and one upstream wetland associated with Moncrief Creek in the general area of the site. All three sites are small, less than 3 acres each. The two downstream wetland areas are approximately 0.4 and 0.8 km from the site boundary. They are both described as seasonally flooded, forested palustrine with deciduous and evergreen trees (PFO1/4C). The upstream wetland is approximately 0.8 km from the site and is described as seasonally flooded, forested palustrine with deciduous trees (PFO1C). No federal or state threatened or endangered species were observed and FNAI does not have a record of occurrence for any tracked species at this site.

In summary, the site itself is mostly disturbed habitat and of little ecological value. The area of greatest ecological value is primarily the off-site areas associated with Moncrief Creek and its corridor. Potential impacts to this area from the site are likely to be associated with potential surface runoff from the site which may release ash material (which was observed next to the creek) and contaminants to surface water and sediments of the creek.

Completed by: John Martin Affiliation CH2M HILL

Additional Preparers: Jason Kase / CH2M HILL

Site Manager: _____

Date: 8/10/00

3 10 0632

II. TERRESTRIAL HABITAT CHECKLIST

IIA. WOODED

1. Are there any wooded areas at the site? ☒Yes ☐No *If no, go to Section IIB: Shrub/Scrub.*

2. What percentage of area of the site is wooded? (<10%<5acres). *Indicate the wooded area on the site map which is attached to a copy of this checklist. Please identify what information was used to determine the wooded area of the site.* Direct, qualitative observation during site visit and aerial maps

3. What is the dominant type of vegetation in the wooded area?

   (Check one: ☐Evergreen ☐Deciduous ☒Mixed) *Provide a photograph, if available.*

   Dominant plant, if known: primarily hardwood trees

4. What is the predominant size of the trees at the site? *Use diameter at breast height.*

   ☐0-6 inches ☒6-12 inches ☐> 12 inches

5. Specify type of understory present, if known. *Provide a photograph, if available.*

IIB. SHRUB/SCRUB

1. Is shrub/scrub vegetation present at the site? ☐Yes ☒No *If no, go to Section IIC: Open Field.*

2. What percentage of the site is covered by scrub/shrub vegetation? (_____%_____acres). *Indicate the areas of shrub/scrub on the site map. Please identify what information was used to determine this area.*

3. What is the dominant type of scrub/shrub vegetation, if known? *Provide a photograph, if available.*

4. What is the approximate average height of the scrub/shrub vegetation?

   ☐0-2 feet ☐2-5 feet ☐>5 feet

5. Based on site observations, how dense is the scrub/shrub vegetation?

   ☐Dense ☐Patchy ☐Sparse

IIC. OPEN FIELD

3 10 0633

1. Are there open (bare, barren) field present at the site? ☒Yes ☐No *If yes, please indicate the type below:*

   ☐Prarie/Plains ☐Savannah ☐Old Field ☒Other (specify) primarily mowed grass

2. What percentage of the site is open field? (<7%<4acres). *Indicate the open fields on the site map.*

3. What is/are the dominant plant(s)? *Provide a photograph, if available.* lawn/turf type grasses (i.e. bahia, St. Augustine)

IID. MISCELLANEOUS

1. Are other types of terrestrial habitats present at the site, other than woods, scrub/shrub, and open field? ☐Yes ☒No *If yes, identify and describe them below.*

2. Describe the terrestrial miscellaneous habitat(s) and identify these area(s) on the site map.NA

3. What observations, if any, were made at the site regarding the presence and/or absence of insects, fish, birds, mammals, etc.?

4. Review the questions in Section I to determine if any additional habitat checklists should be completed for this site.

3 10 0634

IV. AQUATIC HABITAT CHECKLIST – FLOWING SYSTEMS

Note: Aquatic systems are often associated with wetland habitats. Please refer to Section V. Wetland Habitat Checklist.

1. What type(s) of flowing water system(s) is(are) present at the site?

☐River ☐Stream ☒Creek

☐Dry Wash ☐Arroyo ☐Brook

☐Artificially Created (ditch, etc) ☐Intermittent Stream ☐Channeling

☐Other (specify)

2. If known, what is the name of the waterbody? Moncrief Creek

3. For natural systems, are there any indicators of physical alteration (e.g., channeling, debris, etc.)?

☒Yes ☐No *If yes, please describe indicators that were observed.* Channeling/erosion barrier observed in upstream section of creek. Dredge material along banks of downstream sections observed and known from site history.

4. What is the general composition of the substrate? *Check all that apply.*

☐Bedrock ☒Sand ☐Muck (fine/black)

☐Boulder (>10 inches) ☐Silt (fine) ☐Debris

☐Cobble (2.5-10 inches) ☐Marl (shells) ☐Detritus

☐Gravel (0.1-2.5 inches) ☐Clay (slick) ☐Concrete

☐Other (specify)_____

5. What is the condition of the bank (e.g., height, slope, extent of vegetative cover?) Bank height varies between 3 and 10 feet above surface of creek. Generally steep slopes with fair vegetative cover. Extensive erosion observed in steeper bank sections.

6. Is the system influenced by tides? ☐Yes ☒No *What information was used to make this determination?*

7. Is the flow intermittent? ☐Yes ☒No *If yes, please note the information that was used in making this determination.*

8. Is there a discharge from the site to the waterbody? ☐Yes ☒No *If yes, please describe the discharge and its path.*

9. Is there a discharge from the waterbody? Yes☒ No☐ If yes, and the information is available, please identify what the waterbody discharges to and whether the discharge is on site or off site. Joins Trout River approximately 2.5 miles downstream of site.

10. Identify any field measurements and observations of water quality that were made. For those parameters for which data were collected, provide the measurement and the units of measure in the appropriate space below:

5-10 Width (feet)

1-2 Depth (feet)

moderate Velocity (specify units):

_____Temperature (depth of the water at which the reading was taken_____)

_____pH

_____Dissolved Oxygen

_____Salinity

slightly turbid Turbidity (clear, slightly turbid, turbid, opaque) (Secchi disk depth_____)

_____Other (specify)

11. Describe observed color and area of coloration. tea colored

12. Is any aquatic vegetation present? ☒Yes ☐No *If yes, please identify the type of vegetation present, if known.*

☒Emergent ☒Submergent ☐Floating

13. Mark the flowing water system on the attached site map. see map in section ??

14. What observations were made at the waterbody regarding the presence and/or absence of benthic macroinvertebrates, fish, birds, mammals, etc.?) Bluegill, mosquitofish, turtle, fish crow, laughing gull, chimney swift, and Mississippi Kite were observed.

V. WETLAND HABITAT CHECKLIST

3 10 0636

1. Based on observations and/or available information, are designated or known wetlands definitely present at the site? ☐Yes ☒No

   Please note the sources of observations and information used (e.g., USGS Topographic Maps, National Wetland Inventory, Federal or State Agency, etc.) to make this determination. National Wetland Inventory Map.

2. Based on the location of the site (e.g., along a waterbody, in a floodplain) and site conditions (e.g., standing water, dark, wet soils; mud cracks; debris line; water marks), are wetland habitats suspected? ☐Yes ☒No *If yes, proceed with the remainder of the wetland habitat identification checklist.*

3. What type(s) of vegetation are present in the wetland?

   ☐Submergent ☐Emergent ☐Scrub/Shrub ☐Wooded

   ☐Other (specify)

4. Provide a general description of the vegetation present in and around the wetland (height, color, etc). *Provide a photograph of the known or suspected wetlands, if available.*

5. Is standing water present? ☐Yes ☐No *If yes, is this water:* ☐Fresh ☐Brackish

   What is the approximate area of the water (sq. ft.)?

   Please complete question 4, 11, 12 in Checklist III – Aquatic Habitat – Non-Flowing Systems.

6. Is there evidence of flooding at the site? What observations were noted?

   ☐Buttressing ☐Water marks ☐Mud Cracks ☐Debris Line

   ☐Other (describe below)

7. If known, what is the source of the water in the wetland?

   ☐Stream/River/Creek/Lake/Pond ☐Groundwater

   ☐Flooding ☐Surface Runoff

8. Is there a discharge from the site to a known or suspected wetland? ☐Yes ☐No *If yes, please describe.*

3 10 0637

9. Is there a discharge from the wetland? ☐Yes ☐No *If yes, to what waterbody is discharged released?*

☐Surface Stream/River ☐Groundwater ☐Lake/Pond ☐Marine

10. If a soil sample was collected, describe the appearance of the soil in the wetland area. Check or write in the best response.

Color: ☐blue/gray ☐brown ☐black ☐mottled

Water Content: ☐dry ☐wet ☐saturated/unsaturated

11. Mark the observed wetland area(s) on the attached site map.

Rare, Threatened, and Endangered Species Known or Potentially Occurring in Duval County, FL

Common Name	Scientific Name	Federal Status[a]	State Status[b]	Habitat	Source[c]	Habitat On or Near Browns Dump Potentially Supportive?
Fish						
Shortnose sturgeon	*Acipenser brevirostrum*	LE	LE	Brackish to freshwater, 2-30 m deep	1	N
Reptiles and Amphibians						
American alligator	*Alligator mississippiensis*	T(S/A)	LS	Swamps, lakes, river, marshes and other bodies of water	6	Y
Eastern indigo snake	*Drymarchon corais couperi*	LT	LT	Mangrove swamps, wet prairies, and xeric pinelands; typically winters in Gopher tortoise burrows.	2	N
Flatwoods salamander	*Ambystoma cingulatum*	LT	N	Pine flatwoods-wire grass communities with adjoining cypress heads and natural ponds	2	N
Florida pine snake	*Pituophis melanoleucus*	N	LS	Longleaf pine-xerophytic oak woodlands (sandhills), sand pine scrub, and pine flatwoods	2	N
Gopher frog	*Rana capiio*	N	LS	Native, xeric, upland habitats and pine flatwoods with seasonally flooded, grassy ponds; found almost exclusively associated with Gopher tortoise habitat	2	N
Gopher tortoise	*Gopherus polyphemus*	N	LS	Longleaf pine-xerophytic oak woodlands (sandhills); may be found in sand pine scrub, live oak hammocks, dry prairies, pine flatwoods, and mixed hardwood-pine communities	2	N
Birds						
Bald eagle	*Haliaeetus leucocephalus*	LT, PD	LT	Coasts, rivers, large lakes	3	N
Least tern	*Sterna antillarum*	N	LT	Sea beaches, bays, large rivers, salt flats	3	N
Limpkin	*Aramus guarauna*	N	LS	Open freshwater swamps and marshes	3	N
Little blue heron	*Egretta caerulea*	N	LS	Marshes, swamps, rice fields, ponds, shores	3	Y
Peregrine falcon	*Falco peregrinus*	N	LE	Open country, cliffs, occasionally cities	3	N
Piping plover	*Charadrius melodus*	LT	LT	Sandy beaches and tidal flats	3	N
Red-cockaded woodpecker	*Picoides borealis*	LE	LT	Open pine woodlands	3	N
Snowy egret	*Egretta thula*	N	LS	Marshes, swamps, ponds, shores	3	Y
Southeastern American kestrel	*Falco sparverius paulus*	N	LT	Dry prairies, old fields, pine flatwoods, sandhills, open suburban areas	11	Y
Tricolored heron	*Egretta tricolor*	N	LS	Marshes, swamps, streams, shores;	3	Y
White ibis	*Eudocimus albus*	N	LS	Salt, brackish, and fresh marshes, rice fields, mangroves	3	N
Wood stork	*Mycteria americana*	LE	LE	Cypress swamps, marshes, ponds, lagoons	3	N
Worthington's marsh wren	*Cistothorus palustris griseus*	N	LS	Freshwater and brackish marshes with abundant reeds	11	N
Mammals						
Florida black bear	*Ursus americanus floridanus*	N	LT	Temperate to subtropical communities; generally >150 hectacres	4	N
Manatee	*Trichechus manatus*	LE	LE	Coastal, estuarine, and occasional riverine habitat with access to vascular plants	4	N
Sherman's fox squirrel	*Sciurus niger shermani*	N	LS	Longleaf pine-turkey oak sandhills	4	N
Invertebrates						
Black Creek crayfish	*Procambarus pictus*	N	LS	Cool, flowing, tanic-stained streams and creeks of the Black Creek drainage system	5	N
Plants						
Atlantic Coast Florida lantana	*Lantana depressa var floridana*	N	LE	Coastal upland	13	N
Bartram's Ixia	*Calydorea coelestina*	N	LE	Wet, level, grassy flatwoods beneath slash or long-leaf pine	7	N
Chaffseed	*Schwalbea americana*	LE	LE	Moist to dry pinelands, oak woodlands, seasonally wet savannahs	8	N
Curtiss' sandgrass	*Calamovilfa curtissii*	N	LT	Pinelands	10	N
Florida spiny-pod	*Matelea floridana*	N	LE	Bluffs, pine-oak-hickory woods	10	N
Godfrey's privet	*Forestiera godfreyi*	N	LE	Mesic, calcareous, wooded bluffs	12	N

3 10 638

Rare, Threatened, and Endangered Species Known or Potentially Occurring in Duval County, FL

Common Name	Scientific Name	Federal Status[a]	State Status[b]	Habitat	Source[c]	Habitat On or Near Browns Dump Potentially Supportive?
Green ladies'-tresses	*Spiranthes polyantha*	N	LE	Flatwoods, bogs, moist hammocks, swamps, and marshes; assumed from related species descriptions	9	N
Lake-side sunflower	*Helianthus carnosus*	N	LE	Seasonally wet pine flatwoods	8	N
Southern lip fern	*Cheilanthes microphylla*	N	LE	Limestone formations in dry, shaded areas	7	N
Southern milkweed	*Asclepias viridula*	N	LT	Wet pine flatwoods, borders of sloughs and bogs	9	N
Spoon-leaved sundew	*Drosera intermedia*	N	LT	Bogs and wet sand areas		N
Terrestrial peperomia	*Peperomia humilis*	N	LE	Moist, acidic, organic bases of swamp trees	14	N
White-flowered wild petunia	*Ruellia noctiflora*	N	LE	Bogs and wet pine flatwoods	15	N

[a] Key to Federal Status:
- LE=Listed as Endangered under provisions of Endangered Species Act
- PE=Proposed for listing as LE
- LT=Listed as Threatened Species
- PT=Proposed for listing as LT
- C=Candidate Species for listing as LE or LT
- T(S/A)=Threatened due to similarity of appearance
- N=Not currently listed or considered for listing
- PD=Proposed delisting (7/6/99)

[b] Key to State Status:

Animals:
- LE=Listed as Endangered Species by FGFWFC
- LT=Listed as Threatened Species by the FGFWFC
- LS=Listed as Species of Special Concern by FGFWFC
- N=Not currently listed

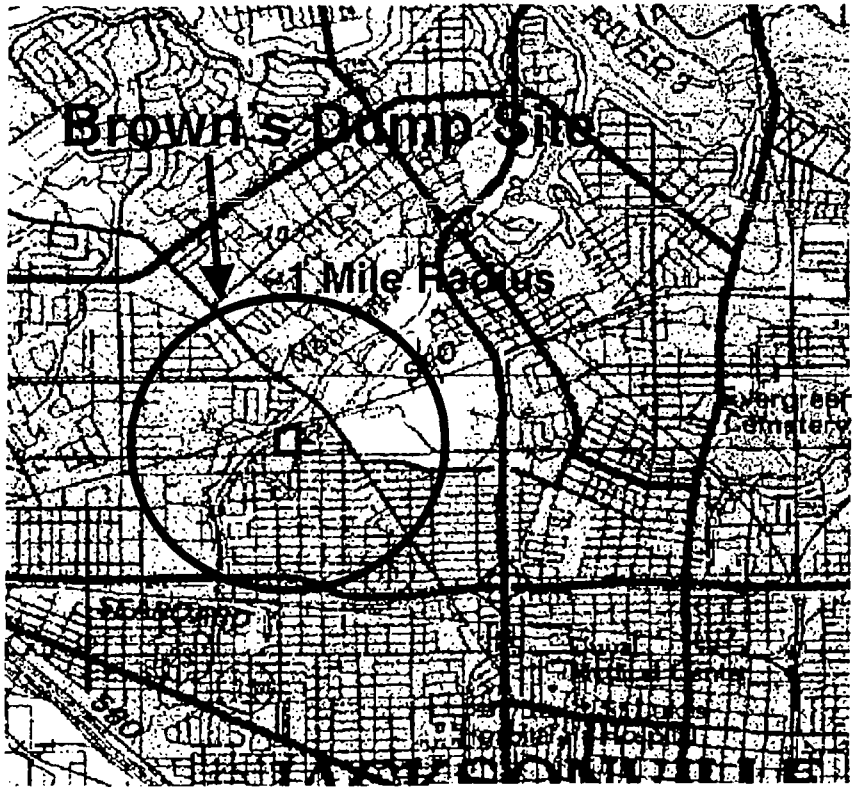
Plants:
- LE=Listed as Endangered Plants in the Preservation of Native Flora of Florida Act
- LT=Listed as Threatened Plants in the Preservation of Native Flora of Florida Act
- N=Not currently listed

[c] Habitat Source:
1. Gilbert, Carter R., ed. 1992. Rare and Endangered Biota of Florida. Volume II. Fishes. University Press of Florida, Gainesville, FL.
2. Moler, Paul E., ed. 1992. Rare and Endangered Biota of Florida. Volume III. Amphibians and Reptiles. University Press of Florida, Gainesville, FL
3. Kaufman, Kenn. 1996. Lives of North American Birds. Houghton Mifflin Company: Boston, MA.
4. Humphrey, Stephen R. ed. 1992. Rare and Endangered Biota of Florida. Volume I. Mammals. University Press of Florida, Gainesville, FL.
5. Franz, Richard, ed. 1982. Rare and Endangered Biota of Florida. Volume VI. Invertebrates. University Press of Florida. Gainesville, FL.
6. Conanat, Roger. 1975. A Field Guide to Reptiles and Amphibians of Eastern/Central North America. Houghton Mifflin Company: Boston, MA.
7. Ward, Daniel B., ed. 1979. Rare and Endangered Biota of Florida. Volume V. Plants. University Press of Florida. Gainesville, FL.
8. Godfrey, Robert K. and Jean W. Wooten. 1981. Aquatic and Wetland Plants of the Southeastern United States. University of Georgia Press: Athens, GA.
9. Tobe, John D, et. al. 1998. Florida Wetland Plants. An Identification Manual. Florida Department of Environmental Protection. Tallahassee, FL.
10. Clewell, Andre F. 1985. Guide to the Vascular Plants of the Florida Panhandle. University Presses of Florida. Tallahassee, FL.
11. http://edis.ifas.ufl.edu/BODY_UW066#TABLE_2
12. http://www.dnr.state.ga.us/dnr/wild/sppl_t.htm
13. http://everglades.fiu.edu/serp/action/appendixa.html
14. http://www.fau.edu/divdept/science/envscl/fakahatchee.htm
15. http://www.ifas.ufl.edu/~duval/CCapril00.HTM

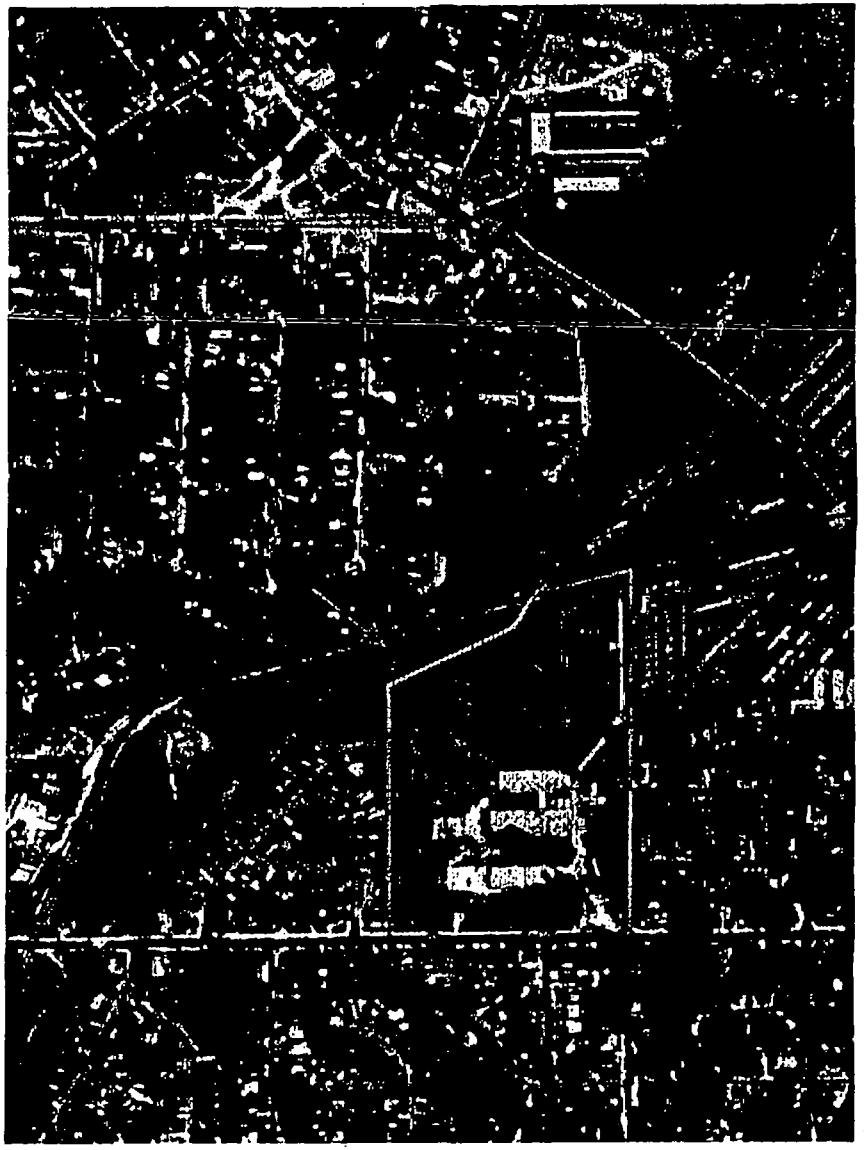
Note: Listed marine or Atlantic coast species (e.g. sea turtles, whales) were excluded from this county table since required habitat does not occur on or near the site.

3 10 1639

Ecological Checklist - Attachment
Brown's Dump Site Maps



Source: USGS Topo Map, July 1980
http://terraserver.microsoft.com



Source: USGS Aerial Photo August 27, 1996
http://terraserver.microsoft.com

3 10 0640

3 10 641

Moncrief Creek Near North Side of Brown's Dump