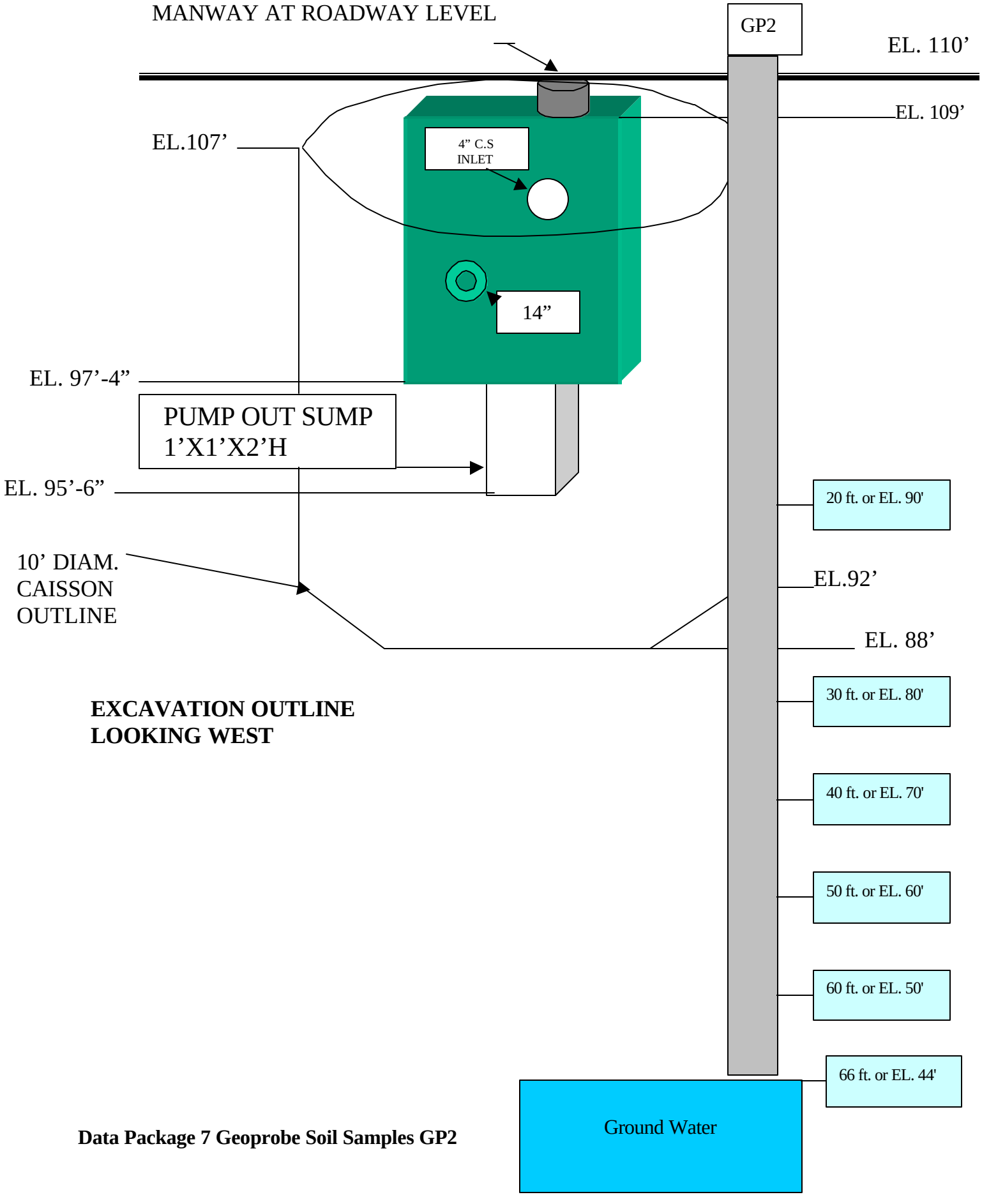
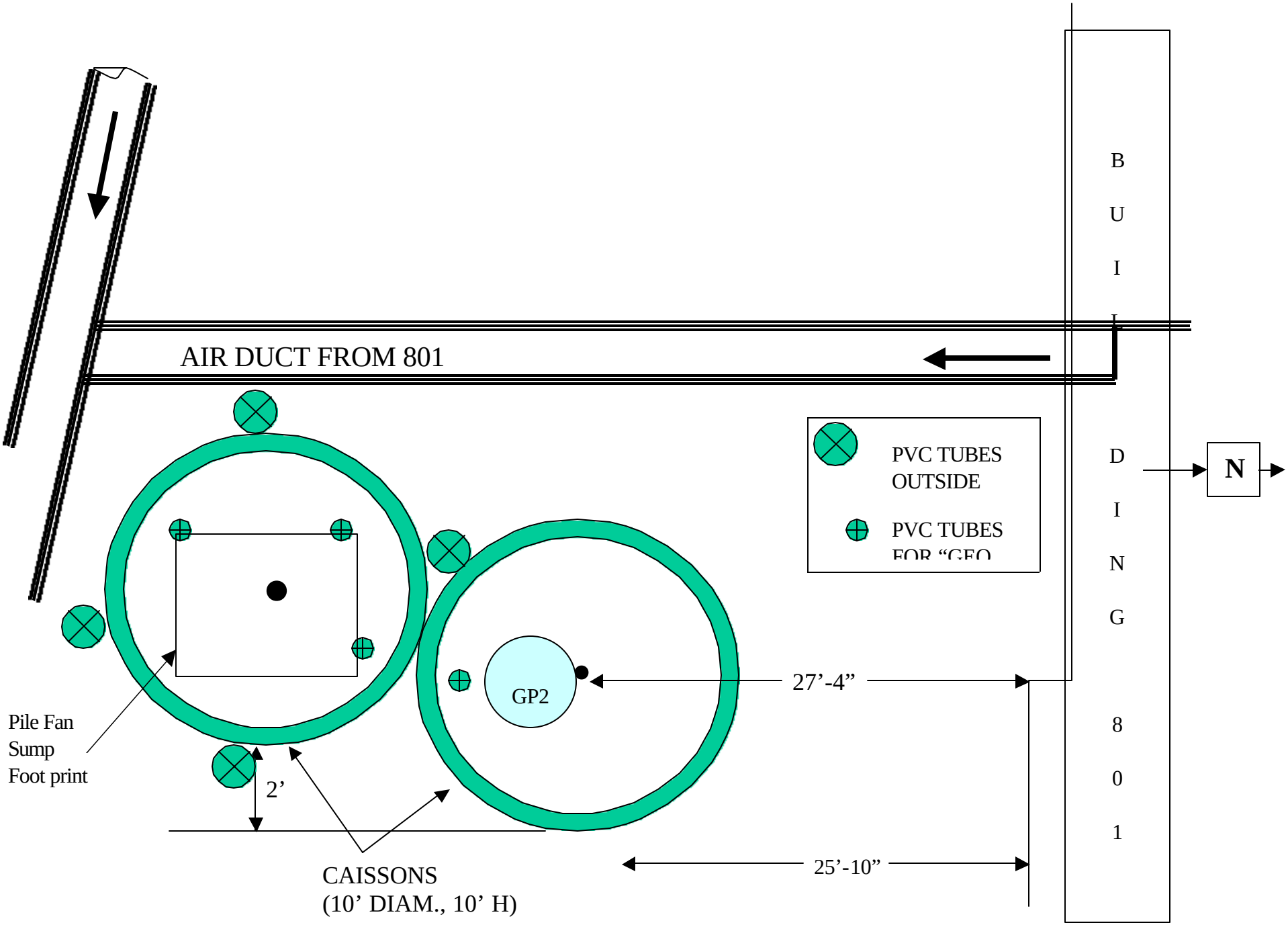
PFS Remediation -Final Verification Sampling

Data Package 7

COC #	SDG#	Sample Description	Sample Number	Location #
6545	23482	Trip Blank	076-400000322-12	
6545	23482	G2 - Geoprobe (20-22')	065-001000322-30	GP2
6545	23482	G2 - Geoprobe (20-30')	065-001000322-36	GP2
6545	23482	G2 - Geoprobe (30-40')	065-002000322-30	GP2
6545	23482	G2 - Geoprobe (30-32')	065-002000322-36	GP2
6545	23482	G2 - Geoprobe (40-50')	065-003000322-36	GP2
6545	23482	G2 - Geoprobe (40-42')	065-003000322-30	GP2
6545	23482	G2 - Geoprobe (50-52')	065-004000322-30	GP2
6545	23482	BD-1	065-004000322-31	
6545	23482	G2 - Geoprobe (50-60')	065-004000322-36	GP2
6545	23482	G2 - Geoprobe (60-62')	065-005000322-30	GP2
6545	23482	G2 - Geoprobe (60-66')	065-005000322-36	GP2



EXCAVATION OUTLINE
LOOKING WEST



Data Package 7 Geoprobe Soil Samples GP2

PAGE 2/ 22

FAX:

FILE No.096 04/25 '00 15:27 ID:

23482

ASL Prefix No.

DQL

BROOKHAVEN NATIONAL LABORATORY

Page 1 of 2

Chain of Custody No. 6545

SAMPLING CHAIN OF CUSTODY

Carrier/Waybill #

ASL Analysis Requested By	Sampling Contractor	Analytical Laboratory
Name: S. Musolino	Name: ESD Field Sampling	Name: GEL
Life No: 15075 Ext: ERD	Address: TR 533	Address: 2040 Savage Rd
Acct. No: 07314 Dept: 4211	City: Upton St: NY Zip: 11973	City: Charleston St: NC Zip: 29417
Email Reports To:	Contact: R. Lagattolla	Contact: Nancy Slater
1 S. Musolino	Phone: 631-344-7129	Phone: 843-556-8171
2 C. Newson	Email / Fax:	Email / Fax:
Project Name:	Project Manager:	Field Engineer:
BGRR / PFS	Steve Musolino	Matt Labarge

Comments: * see attached list for methods

ASL SEQ. UID	ASL SEQ. SFX	Sample Information: Site ID	Depth	Date	Time	Matrix	Additional Sample Information: Location Description	Cont Volume	Cont Type	No of Cont	Preservative
001		076-400000322-12	0	3/22/00	0830	W	TB-1	3-40ml	G	3	HCL
002		065-001000322-30	20-22		1010	WS	G2 Casson 2	40z	G	1	—
003		065-001000322-36	20-30'		1140	S		80z	G	1	—
003			20-30'		1140	S		80z	G	1	—
003			20-30'		1140	S		80z	G	1	—
004		065-002000322-36	30-40'		1535	S	G2 Casson 2	80z	G	1	—
004		065-002000322-36	30-40'		1535	S		80z	G	1	—
004		065-002000322-36	30-40'		1535	S		80z	G	1	—
006		065-002000322-30	30-32'		1336	S		40z	G	1	—
006		065-003000322-36	40-50'		1855	S		80z	G	1	—
006		065-003000322-30	40-50'		1855	S		80z	G	1	—

Analysis Requested: Alpha/Beta; Tritium; Gamma; Strontium; 524.2; 624; VOA CLP OLM 03.2; BNA's; Total metals TC-99, I-14, Ni-63 Th-232, Ra-226, I-129 U-234/5/6 Pu-238/9/40

1 Relinquished By / Date / Time	2 Relinquished By / Date / Time	3 Relinquished By / Date / Time
Print: Carlee Beecher 3/23/00 1530	Print:	Print:
Signature: Carlee Beecher	Signature:	Signature:
1 Received By / Date / Time	2 Received By / Date / Time	3 Received By / Date / Time
Print: Maneto 3/24/00 1000	Print:	Print:
Signature:	Signature:	Signature:

Contractor Lab Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Turn-Around Time Required: ☐ RUSH (1 Day) ☐ 14 Days ☐ 30 Days ☐ 7 Days ☐ Other ( )

ASL F3101

Distribution: WHITE - Stays with Sample; PINK - Field Copy (Sampler); GOLDENROD - Returned to Client with Report

PAGE 3/ 22

FAX:

FILE No.096 04/25 '00 15:27 ID:

ASL Prefix No. | DQL

BROOKHAVEN NATIONAL LABORATORY

Page 3 of 3

Chain of Custody No. 6545

SAMPLING CHAIN OF CUSTODY

Carrier/Waybill #

ASL Analysis Requested By	Sampling Contractor	Analytical Laboratory
Name: Steve Musolino	Name: ESA Field Sampling	Name: GRL
Life No: 15075 Ext: 4211	Address:	Address:
Accl. No: 07314 Dept: ERD	City: St: Zip:	City: St: Zip:
Email Reports To:	Contact:	Contact:
1 S. Musolino	Phone:	Phone:
2 C. Newson	Email / Fax:	Email / Fax:
Project Name:	Project Manager:	Field Engineer:
BGRR / PFS	S. Musolino	Matt Labarge

Comments:

Analysis Requested: Alpha/Beta; Tritium; Gamma; Strontium; 524.2; 624; VOA CLP OLM03.2; BNA's; Total Metals; Tc-99, C-14, Ni-63; Th-232, Ra-226, I-129; U-234, 5/6; Pu-238/9/40

ASL SEQ. UID	SFX	Sample Information: Site ID	Depth	Date	Time	Matrix	Additional Sample Information: Location Description →	Cont Volume	Cont Type	No of Cont	Preservative
006		065-003000322-36	40-50'	3-22-00	1455	S	G2 Casson 2	80z	G	1	—
007		065-003000322-30	40-42'	3-22-00	1606	S	G2 Casson 2	40z	G	1	—
008		065-004000323-30	50-52'	3-23-00	0730	S	G2 Casson 2	40z	G	1	—
009		065-004000323-31	50-52'	3-23-00	0750	S	G2 Casson 2 (BD-1)	40z	G	1	—
010		065-004000323-36	50-60'		1047	S	G2 Casson 2	80z			
010		065-004000323-36	50-60'		1047	S		80z			
010		065-004000323-36	50-60'		1047	S		80z			
011		065-004000323-31	50-60'		1047	S		80z			
011		065-004000323-31	50-60'		1047	S		80z			
011		065-004000323-31	50-60'		1047	S		80z			
012		065-005000323-30	60-62		1147	S		40z			
013		065-005000323-36	60-66		1500	S		80z			

1 Relinquished By / Date / Time
Print: C. Beecher 3/23/00 1530
Signature:

2 Received By / Date / Time
Print: Franco 3/24/00 1000
Signature:

3 Relinquished By / Date / Time
Print:
Signature:

4 Received By / Date / Time
Print:
Signature:

Contractor Lab Sample Disposal:
- Return To Client
- Dispose By Lab
- Archive For ____ Months

Turn-Around Time Required:
- RUSH (1 Day)
- 14 Days
- 30 Days
- 7 Days
- Other ( )

Distribution: WHITE - Stays with Sample; PINK - Field Copy (Sampler); GOLDENROD - Returned to Client with Report

BNL F3101

PAGE 4/ 22
FAX:
FILE No.096 04/25 '00 15:27 ID:

ASL Prefix No.: DOE

BROOKHAVEN NATIONAL LABORATORY

Page 3 of 3

Chain of Custody No 6545

Carrier/Waybill #

SAMPLING CHAIN OF CUSTODY

ASL Analysis Requested By	Sampling Contractor	Analytical Laboratory
Name: S. Musolino	Name: E3D Field Sampling	Name: GEL
Life No: 15075 Ext: 4211	Address:	Address:
Acct. No: 07314 Dept: ERD	City: St: Zip:	City: St: Zip:
Email Reports To:	Contact:	Contact:
1 S. Musolino	Phone:	Phone:
2 C. Newson	Email / Fax:	Email / Fax:
Project Name:	Project Manager:	Field Engineer:
BGRR / PFS		

Comments: * See attached for methods

ASL SEQ. UID	SFX	Site ID	Depth	Date	Time	Matrix	Additional Sample Information: Location Description →	Cont Volume	Cont Type	# of Cont	Preservative	Alpha/Beta	Tritium	Gamma	Strontium	524.2	624	VOA CLP OLM 03.2	BNA's	Total Metals	Tc-99, U-234/5/8, Th-232, Ra-226, I-129
013		065-005000323-36	60-66	3/23/00	1500	S	G2 Casing 2	80z	G	1	—	X	X	X	X					X	X X X
013		065-005000323-36	60-66	"	1500	S	"	80z	G	1	—	X	X	X	X					X	X X X

1 Relinquished By / Date / Time: Corlee Beecher 3/23/00 1530 — Signature: Corlee Beecher

1 Received By / Date / Time: Francis 3/24/00 1020 — Signature:

2 Relinquished By / Date / Time — Print: — Signature:

2 Received By / Date / Time — Print: — Signature:

3 Relinquished By / Date / Time — Print: — Signature:

3 Received By / Date / Time — Print: — Signature:

Contractor Lab Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Turn-Around Time Required: ☐ RUSH (1 Day) ☐ 14 Days ☐ 30 Days ☐ 7 Days ☐ Other ( )

BNL F3101

Distribution: WHITE - Stays with Sample; PINK - Field Copy (Sampler); GOLDENROD - Returned to Client with Report

Certificate of Analysis

Company : Brookhaven National Laboratory
Address : OER
Building 51M
Upton, NY 11973-5000
Contact: Ms. Anna Bou
Project: Routine Analytical

Report Date: April 25, 2000

Client Sample ID: 065-001000322-36
Sample ID: 23482001
Matrix: Soil
Collect Date: 22-MAR-00 11:40
Receive Date: 24-MAR-00 10:00
Collector: Client

Project: BRKL00297
Client ID: BRKL001
COC: 6545

Parameter	Qualifier	Result		DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec												
Alphaspec Pu, solid												
Plutonium-238	U	-0.0138	+/-0.0197	0.179	6.60	pCi/g	1	RDK	04/06/00	1334	18391	1
Plutonium-239/240	UJ-K	-0.0138	+/-0.0197	0.179	4.00	pCi/g	1					
Alphaspec Th, solid												
Thorium-228		0.449	+/-0.161	0.162	1.00	pCi/g	1	RDK	04/10/00	2028	18390	2
Thorium-230		0.125	+/-0.0757	0.0793	1.00	pCi/g	1					
Thorium-232		0.162	+/-0.0853	0.0793	1.00	pCi/g	1					
Alphaspec U, solid												
Uranium-233/234	UJ-K	0.0389	+/-0.109	0.266	0.900	pCi/g	1	RDK	04/06/00	1805	18389	3
Uranium-235/236	U	0.00	+/-0	0.0886	0.900	pCi/g	1					
Uranium-238	UJ	0.0813	+/-0.103	0.155	0.900	pCi/g	1					
Rad Gamma Spec												
Gamma I129, solid												
Iodine-129	U	-0.0673	+/-0.2336	0.290	1.00	pCi/g	1	SRB	04/12/00	1857	18349	4
Gammaspec, Gamma, solid												
Americium-241	U	0.0158	+/-0.02407	0.0416	4.00	pCi/g	1	SRB	04/04/00	1139	18345	5
Beryllium-7	U	-0.0306	+/-0.1515	0.274	1.00	pCi/g	1					
Cesium-134	UJ-K	-0.0117	+/-0.02038	0.0303	0.100	pCi/g	1					
Cesium-137		0.559	+/-0.09161	0.0353	2.30	pCi/g	1					
Cobalt-57	UJ-K	-0.000687	+/-0.00877	0.0168	0.100	pCi/g	1					
Cobalt-60	U	0.0167	+/-0.01883	0.0363	0.100	pCi/g	1					
Europium-152	UJ	0.0463	+/-0.05402	0.0816	4.80	pCi/g	1					
Europium-154	UJ-K	-0.00232	+/-0.05476	0.0971	17.0	pCi/g	1					
Europium-155	U	0.0228	+/-0.05908	0.0664	0.200	pCi/g	1					
Manganese-54	UJ-K	-0.00316	+/-0.02123	0.0335	0.100	pCi/g	1					
Radium-226		0.216	+/-0.08838	0.0625	1.00	pCi/g	1					
Sodium-22	UJ-K	-0.000829	+/-0.01958	0.0347	0.700	pCi/g	1					
Vanadium-48	UJ-K	0.00184	+/-0.02916	0.0535	1.00	pCi/g	1					
Zinc-65	UJ-K	-0.06	+/-0.04422	0.0699	0.200	pCi/g	1					
Rad Gas Flow												
GFPC, Gross A/B, solid												
Alpha		2.66	+/-0.53483	0.476	1.00	pCi/g	1	TMC	04/15/00	0607	18118	6
Beta	J-D	4.19	+/-0.8484	1.27	1.00	pCi/g	1					
GFPC, Sr90, solid												
Strontium-90	U	-1.12	+/-1.4331	4.21	7.50	pCi/g	1	AAK	04/04/00	1626	18124	7
Rad Liquid Scint												

Certificate of Analysis

Company : Brookhaven National Laboratory
Address : OER
Building 51M
Upton, NY 11973-5000
Contact: Ms. Anna Bou
Project: Routine Analytical

Report Date: April 25, 2000

Client Sample ID: 065-001000322-36
Sample ID: 23482001

Project: BRKL00297
Client ID: BRKL001
COC: 6545

Parameter	Qualifier	Result		DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scint												
LSC, Tritium Dist, solid Tritium	UJ-K	-1.2	+/-2.5016	4.41	6.00	pCi/g	1	CSM1	03/31/00	0824	18012	8
Liquid Scint C14, solid Carbon-14	UJ	0.0404	+/-0.1327	0.228	1.00	pCi/g	1	KDA	03/27/00	2008	18010	9
Liquid Scint Ni63, solid Nickel-63	UJ-K	-1.03	+/-0.6591	1.60	2.00	pCi/g	1	ADD	04/17/00	1901	18248	10
Liquid Scint Tc99, solid Technetium-99	UJ-K	-0.263	+/-0.2164	0.603	5.00	pCi/g	1	AEA	04/04/00	0910	18027	11

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep EPI A-021,A-021B,A-026	TC1	03/25/00	1521	18000
Dry Soil Prep	Dry Soil Prep EPI A-021,A-021B,A-026	TC1	03/24/00	1708	17967

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL 300
2	DOE EML HASL 300
3	DOE EML HASL 300
4	LANL EM-9
5	DOE EML HASL 300
6	EPA 900
7	EPA 905.0
8	EPA 906.0
9	EPA 504.1
10	DOE RESL Ni-1
11	DOE EML HASL 300

Notes:
The Qualifiers in this report are defined as follows :

DL Failed required detection limit.
RI Not quantified due to interference.
U Sample result < .5*MDA and MDA <= RDL.
UJ .5*MDA < Sample result < MDA and MDA <= RDL.
UJ-Q Not quantified due to low abundance.

FILE No.096 04/25 '00 15:28 ID: FAX: PAGE 6/ 22

Certificate of Analysis

Company : Brookhaven National Laboratory
Address : OER
Building 51M
Upton, NY 11973-5000
Contact: Ms. Anna Bou
Project: Routine Analytical

Report Date: April 25, 2000

Client Sample ID: 065-001000322-36
Sample ID: 23482001

Project: BRKL00297
Client ID: BRKL001
COC: 6545

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method

The above sample is reported on an "as received" basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, Inc. standard operating procedures. Please direct any questions to your Project Manager, Nancy Slater at 843-556-8171 Ext. 4438.

Reviewed by

FILE No.096 04/25 '00 15:28 ID: FAX: PAGE 7/ 22

Certificate of Analysis

Company : Brookhaven National Laboratory
Address : OER
Building 51M
Upton, NY 11973-5000
Contact: Ms. Anna Bou
Project: Routine Analytical

Report Date: April 25, 2000

Client Sample ID: 065-002000322-36
Sample ID: 23482002
Matrix: Soil
Collect Date: 22-MAR-00 15:35
Receive Date: 24-MAR-00 10:00
Collector: Client

Project: BRKL00297
Client ID: BRKL001
COC: 6545

Parameter	Qualifier	Result		DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec												
Alphaspec Pu, solid												
Plutonium-238	U	-0.00773	+/-0.0155	0.170	6.60	pCi/g	1	RDK	04/06/00	1334	18391	1
Plutonium-239/240	UJ-K	0.00	+/-0	0.0965	4.00	pCi/g	1					
Alphaspec Th, solid												
Thorium-228		0.307	+/-0.124	0.121	1.00	pCi/g	1	RDK	04/10/00	2028	18390	2
Thorium-230		0.135	+/-0.074	0.0615	1.00	pCi/g	1					
Thorium-232		0.0973	+/-0.06	0.0265	1.00	pCi/g	1					
Alphaspec U, solid												
Uranium-233/234	UJ-K	0.0502	+/-0.128	0.299	0.900	pCi/g	1	RDK	04/06/00	1805	18389	3
Uranium-235/236	U	0.0439	+/-0.129	0.309	0.900	pCi/g	1					
Uranium-238	U	0.101	+/-0.123	0.216	0.900	pCi/g	1					
Rad Gamma Spec												
Gamma I129, solid												
Iodine-129	UJ	0.222	+/-0.4074	0.331	1.00	pCi/g	1	SRB	04/12/00	2025	18349	4
Gammaspec, Gamma, solid												
Americium-241	U	-0.00682	+/-0.06335	0.106	4.00	pCi/g	1	SRB	04/04/00	1140	18345	5
Beryllium-7	U	0.0201	+/-0.09608	0.173	1.00	pCi/g	1					
Cesium-134	UJ-K	-0.0149	+/-0.00951	0.0152	0.100	pCi/g	1					
Cesium-137		0.0804	+/-0.02752	0.0203	2.30	pCi/g	1					
Cobalt-57	UJ-K	0.0011	+/-0.00707	0.0138	0.100	pCi/g	1					
Cobalt-60	U	0.0103	+/-0.0092	0.0235	0.100	pCi/g	1					
Europium-152	U	-0.0146	+/-0.03154	0.055	4.80	pCi/g	1					
Europium-154	UJ-K	0.00564	+/-0.03782	0.0718	17.0	pCi/g	1					
Europium-155	U	0.00	+/-0.06214	0.0556	0.200	pCi/g	1					
Manganese-54	UJ-K	0.00207	+/-0.01033	0.0194	0.100	pCi/g	1					
Radium-226	UJ-B	0.172	+/-0.05197	0.0338	1.00	pCi/g	1					
Sodium-22	UJ-K	0.00212	+/-0.01354	0.0257	0.700	pCi/g	1					
Vanadium-48	UJ-K	-0.00783	+/-0.01955	0.0338	1.00	pCi/g	1					
Zinc-65	UJ-K	0.000406	+/-0.02425	0.0438	0.200	pCi/g	1					
Rad Gas Flow												
GFPC, Gross A/B, solid												
Alpha		1.98	+/-0.54081	0.637	1.00	pCi/g	1	TMC	04/15/00	0607	18118	6
Beta	J-D	4.33	+/-0.74402	1.06	1.00	pCi/g	1					
GFPC, Sr90, solid												
Strontium-90	U	0.239	+/-1.4158	3.47	7.50	pCi/g	1	AAK	04/04/00	1626	18124	7
Rad Liquid Scint												
LSC, Tritium Dist, solid												

FILE No.096 04/25 '00 15:28 ID: FAX: PAGE 8/ 22

Certificate of Analysis

Company : Brookhaven National Laboratory
Address : OER
Building 51M
Upton, NY 11973-5000
Contact: Ms. Anna Bou
Project: Routine Analytical

Report Date: April 25, 2000

Client Sample ID: 065-002000322-36
Sample ID: 23482002

Project: BRKL00297
Client ID: BRKL001
COC: 6545

Parameter	Qualifier	Result		DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scint												
LSC, Tritium Dist, solid												
Tritium	UJ-K	-2.88	+/-2.4983	4.51	6.00	pCi/g	1	CSM1	03/31/00	0911	18012	8
Liquid Scint C14, solid												
Carbon-14	UJ	0.0175	+/-0.1317	0.227	1.00	pCi/g	1	KDA	03/27/00	2040	18010	9
Liquid Scint Ni63, solid												
Nickel-63	UJ-K	0.687	+/-0.9475	2.30	2.00	pCi/g	1	ADD	04/17/00	2004	18248	10
Liquid Scint Tc99, solid												
Technetium-99	UJ-K	-0.17	+/-0.3513	0.907	5.00	pCi/g	1	AEA	04/04/00	0942	18027	11

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep EPI A-021,A-021B,A-026	TC1	03/25/00	1521	18000
Dry Soil Prep	Dry Soil Prep EPI A-021,A-021B,A-026	TC1	03/24/00	1708	17967

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL 300
2	DOE EML HASL 300
3	DOE EML HASL 300
4	LANL EM-9
5	DOE EML HASL 300
6	EPA 900
7	EPA 905.0
8	EPA 906.0
9	EPA 504.1
10	DOE RESL Ni-1
11	DOE EML HASL 300

Notes:
The Qualifiers in this report are defined as follows :

DL Failed required detection limit.
RI Not quantified due to interference.
U Sample result < .5*MDA and MDA <= RDL.
UJ .5*MDA < Sample result < MDA and MDA <= RDL.
UJ-Q Not quantified due to low abundance.

Certificate of Analysis

Company : Brookhaven National Laboratory
Address : OER
Building 51M
Upton, NY 11973-5000
Contact: Ms. Anna Bou
Project: Routine Analytical

Report Date: April 25, 2000

Client Sample ID: 065-002000322-36
Sample ID: 23482002

Project: BRKL00297
Client ID: BRKL001
COC: 6545

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method

The above sample is reported on an "as received" basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, Inc. standard operating procedures. Please direct any questions to your Project Manager, Nancy Slater at 843-556-8171 Ext. 4438.

Reviewed by

FILE No.096 04/25 '00 15:29 ID: FAX: PAGE 10/ 22

Certificate of Analysis

Company : Brookhaven National Laboratory
Address : OER
Building 51M
Upton, NY 11973-5000
Contact: Ms. Anna Bou
Project: Routine Analytical

Report Date: April 25, 2000

Client Sample ID: 065-003000322-36
Sample ID: 23482003
Matrix: Soil
Collect Date: 22-MAR-00 18:55
Receive Date: 24-MAR-00 10:00
Collector: Client

Project: BRKL00297
Client ID: BRKL001
COC: 6545

Parameter	Qualifier	Result		DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec												
Alphaspec Pu, solid												
Plutonium-238	U	-0.0115	+/-0.0164	0.149	6.60	pCi/g	1	RDK	04/06/00	1334	18391	1
Plutonium-239/240	UJ-K	0.0125	+/-0.0507	0.149	4.00	pCi/g	1					
Alphaspec Th, solid												
Thorium-228		0.205	+/-0.1	0.128	1.00	pCi/g	1	RDK	04/10/00	2028	18390	2
Thorium-230	UJ	0.0627	+/-0.0522	0.0749	1.00	pCi/g	1					
Thorium-232		0.131	+/-0.0622	0.0206	1.00	pCi/g	1					
Alphaspec U, solid												
Uranium-233/234	UJ-K	0.0327	+/-0.173	0.411	0.900	pCi/g	1	RDK	04/06/00	1805	18389	3
Uranium-235/236	U	-0.0182	+/-0.103	0.300	0.900	pCi/g	1					
Uranium-238	U	0.0926	+/-0.116	0.214	0.900	pCi/g	1					
Rad Gamma Spec												
Gamma I129, solid												
Iodine-129	U	0.143	+/-0.2136	0.311	1.00	pCi/g	1	SRB	04/12/00	2140	18349	4
Gammaspec, Gamma, solid												
Americium-241	U	0.00241	+/-0.01256	0.0235	4.00	pCi/g	1	SRB	04/04/00	1141	18345	5
Beryllium-7	UJ	0.0971	+/-0.09602	0.137	1.00	pCi/g	1					
Cesium-134	UJ-K	-0.0014	+/-0.00932	0.0175	0.100	pCi/g	1					
Cesium-137		0.052	+/-0.02642	0.0194	2.30	pCi/g	1					
Cobalt-57	UJ-K	0.000163	+/-0.0058	0.0114	0.100	pCi/g	1					
Cobalt-60	U	0.0113	+/-0.0108	0.023	0.100	pCi/g	1					
Europium-152	UJ	0.036	+/-0.02542	0.0513	4.80	pCi/g	1					
Europium-154	UJ-K	0.00251	+/-0.03504	0.0646	17.0	pCi/g	1					
Europium-155	U	0.0142	+/-0.02115	0.0431	0.200	pCi/g	1					
Manganese-54	UJ-K	0.00562	+/-0.00999	0.0198	0.100	pCi/g	1					
Radium-226	UJ-B	0.103	+/-0.04491	0.0367	1.00	pCi/g	1					
Sodium-22	UJ-K	0.00116	+/-0.01256	0.0232	0.700	pCi/g	1					
Vanadium-48	UJ-K	0.0143	+/-0.01712	0.0352	1.00	pCi/g	1					
Zinc-65	UJ-K	-0.00762	+/-0.02246	0.0398	0.200	pCi/g	1					
Rad Gas Flow												
GFPC, Gross A/B, solid												
Alpha		3.32	+/-0.68251	0.749	1.00	pCi/g	1	TMC	04/15/00	0607	18118	6
Beta	J-D	5.80	+/-0.85892	1.20	1.00	pCi/g	1					
GFPC, Sr90, solid												
Strontium-90	U	0.489	+/-1.5496	3.73	7.50	pCi/g	1	AAK	04/04/00	1626	18124	7
Rad Liquid Scint												
LSC, Tritium Dist, solid												

FILE No.096 04/25 '00 15:29 ID: FAX: PAGE 11/ 22

Certificate of Analysis

Company : Brookhaven National Laboratory
Address : OER
Building 51M
Upton, NY 11973-5000
Contact: Ms. Anna Bou
Project: Routine Analytical

Report Date: April 25, 2000

Client Sample ID: 065-003000322-36
Sample ID: 23482003

Project: BRKL00297
Client ID: BRKL001
COC: 6545

Parameter	Qualifier	Result		DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scint												
LSC, Tritium Dist, solid												
Tritium	UJ-K	-1.66	+/-2.4534	4.35	6.00	pCi/g	1	CSM1	03/31/00	0958	18012	8
Liquid Scint C14, solid												
Carbon-14	UJ	0.0125	+/-0.1347	0.233	1.00	pCi/g	1	KDA	03/27/00	2112	18010	9
Liquid Scint Ni63, solid												
Nickel-63	UJ-K	0.246	+/-1.2959	3.14	2.00	pCi/g	1	ADD	04/17/00	2106	18248	10
Liquid Scint Tc99, solid												
Technetium-99	UJ-K	-0.265	+/-0.248	0.681	5.00	pCi/g	1	AEA	04/04/00	1014	18027	11

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep EPI A-021,A-021B,A-026	TC1	03/25/00	1521	18000
Dry Soil Prep	Dry Soil Prep EPI A-021,A-021B,A-026	TC1	03/24/00	1708	17967

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL 300
2	DOE EML HASL 300
3	DOE EML HASL 300
4	LANL EM-9
5	DOE EML HASL 300
6	EPA 900
7	EPA 905.0
8	EPA 906.0
9	EPA 504.1
10	DOE RESL Ni-1
11	DOE EML HASL 300

Notes:
The Qualifiers in this report are defined as follows :

DL Failed required detection limit.
RI Not quantified due to interference.
U Sample result < .5*MDA and MDA <= RDL.
UJ .5*MDA < Sample result < MDA and MDA <= RDL.
UJ-Q Not quantified due to low abundance.

Certificate of Analysis

Company : Brookhaven National Laboratory
Address : OER
Building 51M
Upton, NY 11973-5000
Contact: Ms. Anna Bou
Project: Routine Analytical

Report Date: April 25, 2000

Client Sample ID: 065-003000322-36
Sample ID: 23482003

Project: BRKL00297
Client ID: BRKL001
COC: 6545

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method

The above sample is reported on an "as received" basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, Inc. standard operating procedures. Please direct any questions to your Project Manager, Nancy Slater at 843-556-8171 Ext. 4438.

Reviewed by

Certificate of Analysis

Company : Brookhaven National Laboratory
Address : OER
Building 51M
Upton, NY 11973-5000
Contact: Ms. Anna Bou
Project: Routine Analytical

Report Date: April 25, 2000

Client Sample ID: 065-004000323-36
Sample ID: 23482004
Matrix: Soil
Collect Date: 23-MAR-00 10:47
Receive Date: 24-MAR-00 10:00
Collector: Client

Project: BRKL00297
Client ID: BRKL001
COC: 6545

Parameter	Qualifier	Result		DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec												
Alphaspec Pu, solid												
Plutonium-238	U	0.00	+/-0	0.092	6.60	pCi/g	1	RDK	04/06/00	1334	18391	1
Plutonium-239/240	UJ-K	-0.0221	+/-0.0258	0.213	4.00	pCi/g	1					
Alphaspec Th, solid												
Thorium-228		0.228	+/-0.145	0.220	1.00	pCi/g	1	RDK	04/10/00	2028	18390	2
Thorium-230	UJ-B	0.153	+/-0.0771	0.0271	1.00	pCi/g	1					
Thorium-232		0.0927	+/-0.0624	0.0626	1.00	pCi/g	1					
Alphaspec U, solid												
Uranium-233/234	UJ-K	0.127	+/-0.137	0.235	0.900	pCi/g	1	RDK	04/06/00	1805	18389	3
Uranium-235/236	U	-0.024	+/-0.0242	0.189	0.900	pCi/g	1					
Uranium-238	U	0.0379	+/-0.0726	0.155	0.900	pCi/g	1					
Rad Gamma Spec												
Gamma I129, solid												
Iodine-129	U	-0.155	+/-0.2364	0.271	1.00	pCi/g	1	SRB	04/12/00	2230	18349	4
Gammaspec, Gamma, solid												
Americium-241	U	-0.0161	+/-0.08766	0.147	4.00	pCi/g	1	SRB	04/04/00	1141	18345	5
Beryllium-7	U	-0.0373	+/-0.1115	0.169	1.00	pCi/g	1					
Cesium-134	UJ-K	-0.0148	+/-0.01242	0.0209	0.100	pCi/g	1					
Cesium-137		0.0731	+/-0.0309	0.0246	2.30	pCi/g	1					
Cobalt-57	UJ-K	-0.000135	+/-0.00729	0.0142	0.100	pCi/g	1					
Cobalt-60	U	0.00193	+/-0.01171	0.0232	0.100	pCi/g	1					
Europium-152	U	-0.011	+/-0.03174	0.0562	4.80	pCi/g	1					
Europium-154	UJ-K	-0.0142	+/-0.03865	0.0702	17.0	pCi/g	1					
Europium-155	U	-0.0298	+/-0.03204	0.0598	0.200	pCi/g	1					
Manganese-54	UJ-K	0.00569	+/-0.01204	0.0232	0.100	pCi/g	1					
Radium-226	UJ-B	0.135	+/-0.05181	0.0469	1.00	pCi/g	1					
Sodium-22	UJ-K	-0.00501	+/-0.01382	0.0251	0.700	pCi/g	1					
Vanadium-48	UJ-K	0.00983	+/-0.01777	0.0354	1.00	pCi/g	1					
Zinc-65	UJ-K	-0.0177	+/-0.02852	0.0474	0.200	pCi/g	1					
Rad Gas Flow												
GFPC, Gross A/B, solid												
Alpha		0.867	+/-0.41627	0.549	1.00	pCi/g	1	TMC	04/15/00	0607	18118	6
Beta	J-D	3.02	+/-0.72144	1.09	1.00	pCi/g	1					
GFPC, Sr90, solid												
Strontium-90	U	-1.38	+/-0.877	2.94	7.50	pCi/g	1	AAK	04/04/00	1626	18124	7
Rad Liquid Scint												
LSC, Tritium Dist, solid												

FILE No.096 04/25 '00 15:30 ID: FAX: PAGE 14/ 22

Certificate of Analysis

Company : Brookhaven National Laboratory
Address : OER
Building 51M
Upton, NY 11973-5000
Contact: Ms. Anna Bou
Project: Routine Analytical

Report Date: April 25, 2000

Client Sample ID: 065-004000323-36
Sample ID: 23482004

Project: BRKL00297
Client ID: BRKL001
COC: 6545

Parameter	Qualifier	Result		DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scint												
LSC, Tritium Dist, solid Tritium	UJ-K	-4.03	+/-2.4013	4.42	6.00	pCi/g	1	CSM1	03/31/00	1045	18012	8
Liquid Scint C14, solid Carbon-14	UJ	0.0196	+/-0.1308	0.225	1.00	pCi/g	1	KDA	03/27/00	2144	18010	9
Liquid Scint Ni63, solid Nickel-63	UJ-K	0.166	+/-1.207	2.93	2.00	pCi/g	1	ADD	04/17/00	2209	18248	10
Liquid Scint Tc99, solid Technetium-99	UJ-K	-0.0793	+/-0.2591	0.656	5.00	pCi/g	1	AEA	04/04/00	1046	18027	11

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep EPI A-021,A-021B,A-026	TC1	03/25/00	1521	18000
Dry Soil Prep	Dry Soil Prep EPI A-021,A-021B,A-026	TC1	03/24/00	1708	17967

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL 300
2	DOE EML HASL 300
3	DOE EML HASL 300
4	LANL EM-9
5	DOE EML HASL 300
6	EPA 900
7	EPA 905.0
8	EPA 906.0
9	EPA 504.1
10	DOE RESL Ni-1
11	DOE EML HASL 300

Notes:
The Qualifiers in this report are defined as follows :

DL Failed required detection limit.
RI Not quantified due to interference.
U Sample result < .5*MDA and MDA <= RDL.
UJ .5*MDA < Sample result < MDA and MDA <= RDL.
UJ-Q Not quantified due to low abundance.

Certificate of Analysis

Company : Brookhaven National Laboratory
Address : OER
Building 51M
Upton, NY 11973-5000
Contact: Ms. Anna Bou
Project: Routine Analytical

Report Date: April 25, 2000

Client Sample ID: 065-004000323-36
Sample ID: 23482004

Project: BRKL00297
Client ID: BRKL001
COC: 6545

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method

The above sample is reported on an "as received" basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, Inc. standard operating procedures. Please direct any questions to your Project Manager, Nancy Slater at 843-556-8171 Ext. 4438.

Reviewed by

FILE No.096 04/25 '00 15:30 ID: FAX: PAGE 16/ 22

Certificate of Analysis

Company : Brookhaven National Laboratory
Address : OER
Building 51M
Upton, NY 11973-5000
Contact: Ms. Anna Bou
Project: Routine Analytical

Report Date: April 25, 2000

Client Sample ID: 065-004000323-31
Sample ID: 23482005
Matrix: Soil
Collect Date: 23-MAR-00 10:47
Receive Date: 24-MAR-00 10:00
Collector: Client

Project: BRKL00297
Client ID: BRKL001
COC: 6545

Parameter	Qualifier	Result		DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec												
Alphaspec Pu, solid												
Plutonium-238	U	0.00935	+/-0.038	0.112	6.60	pCi/g	1	RDK	04/06/00	1334	18391	1
Plutonium-239/240	UJ-K	-0.0129	+/-0.0151	0.125	4.00	pCi/g	1					
Alphaspec Th, solid												
Thorium-228	UJ	0.106	+/-0.0738	0.114	1.00	pCi/g	1	RDK	04/10/00	2028	18390	2
Thorium-230	UJ-B	0.102	+/-0.0473	0.0153	1.00	pCi/g	1					
Thorium-232	UJ	0.0218	+/-0.0241	0.0353	1.00	pCi/g	1					
Alphaspec U, solid												
Uranium-233/234	UJ-K	0.110	+/-0.106	0.171	0.900	pCi/g	1	RDK	04/06/00	1805	18389	3
Uranium-235/236	U	0.00947	+/-0.0385	0.113	0.900	pCi/g	1					
Uranium-238	U	0.0457	+/-0.0643	0.113	0.900	pCi/g	1					
Rad Gamma Spec												
Gamma I129, solid												
Iodine-129	U	0.124	+/-0.1925	0.310	1.00	pCi/g	1	SRB	04/13/00	1147	18349	4
Gammaspec, Gamma, solid												
Americium-241	U	0.000392	+/-0.02294	0.0428	4.00	pCi/g	1	SRB	04/04/00	1142	18345	5
Beryllium-7	U	0.0486	+/-0.135	0.253	1.00	pCi/g	1					
Cesium-134	UJ-K	-0.00711	+/-0.01908	0.0285	0.100	pCi/g	1					
Cesium-137	U	0.0104	+/-0.01862	0.0346	2.30	pCi/g	1					
Cobalt-57	UJ-K	0.00344	+/-0.00937	0.0172	0.100	pCi/g	1					
Cobalt-60	U	0.00228	+/-0.01899	0.0354	0.100	pCi/g	1					
Europium-152	U	-0.0279	+/-0.0415	0.0732	4.80	pCi/g	1					
Europium-154	UJ-K	0.0369	+/-0.05759	0.112	17.0	pCi/g	1					
Europium-155	U	0.0212	+/-0.03723	0.0693	0.200	pCi/g	1					
Manganese-54	UJ-K	0.003	+/-0.01647	0.0313	0.100	pCi/g	1					
Radium-226	UJ-B	0.214	+/-0.08412	0.0576	1.00	pCi/g	1					
Sodium-22	UJ-K	0.013	+/-0.02055	0.0399	0.700	pCi/g	1					
Vanadium-48	UJ-K	0.0198	+/-0.0267	0.0536	1.00	pCi/g	1					
Zinc-65	UJ-K	-0.0221	+/-0.04204	0.0728	0.200	pCi/g	1					
Rad Gas Flow												
GFPC, Gross A/B, solid												
Alpha		2.33	+/-0.54061	0.592	1.00	pCi/g	1	TMC	04/15/00	0609	18118	6
Beta	J-D	3.01	+/-0.63819	0.936	1.00	pCi/g	1					
GFPC, Sr90, solid												
Strontium-90	U	-0.102	+/-1.0705	2.79	7.50	pCi/g	1	AAK	04/04/00	1626	18124	7
Rad Liquid Scint												
LSC, Tritium Dist, solid												

FILE No.096 04/25 '00 15:30 ID: FAX: PAGE 17/ 22

Certificate of Analysis

Company : Brookhaven National Laboratory
Address : OER
Building 51M
Upton, NY 11973-5000
Contact: Ms. Anna Bou
Project: Routine Analytical

Report Date: April 25, 2000

Client Sample ID: 065-004000323-31
Sample ID: 23482005

Project: BRKL00297
Client ID: BRKL001
COC: 6545

Parameter	Qualifier	Result		DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scint												
LSC, Tritium Dist, solid												
Tritium	UJ-K	-3.4	+/-2.4178	4.41	6.00	pCi/g	1	CSM1	03/31/00	1133	18012	8
Liquid Scint C14, solid												
Carbon-14	UJ	0.132	+/-0.1358	0.227	1.00	pCi/g	1	KDA	03/27/00	2216	18010	9
Liquid Scint Ni63, solid												
Nickel-63	UJ-K	-0.217	+/-1.1974	2.90	2.00	pCi/g	1	ADD	04/17/00	2311	18248	10
Liquid Scint Tc99, solid												
Technetium-99	UJ-K	-0.0282	+/-0.2606	0.646	5.00	pCi/g	1	AEA	04/04/00	1118	18027	11

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep EPI A-021,A-021B,A-026	TC1	03/25/00	1521	18000
Dry Soil Prep	Dry Soil Prep EPI A-021,A-021B,A-026	TC1	03/24/00	1708	17967

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL 300
2	DOE EML HASL 300
3	DOE EML HASL 300
4	LANL EM-9
5	DOE EML HASL 300
6	EPA 900
7	EPA 905.0
8	EPA 906.0
9	EPA 504.1
10	DOE RESL Ni-1
11	DOE EML HASL 300

Notes:
The Qualifiers in this report are defined as follows :

DL Failed required detection limit.
RI Not quantified due to interference.
U Sample result < .5*MDA and MDA <= RDL.
UJ .5*MDA < Sample result < MDA and MDA <= RDL.
UJ-Q Not quantified due to low abundance.

Certificate of Analysis

Company : Brookhaven National Laboratory
Address : OER
Building 51M
Upton, NY 11973-5000
Contact: Ms. Anna Bou
Project: Routine Analytical

Report Date: April 25, 2000

Client Sample ID: 065-004000323-31
Sample ID: 23482005

Project: BRKL00297
Client ID: BRKL001
COC: 6545

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method

The above sample is reported on an "as received" basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, Inc. standard operating procedures. Please direct any questions to your Project Manager, Nancy Slater at 843-556-8171 Ext. 4438.

Reviewed by

FILE No.096 04/25 '00 15:31 ID: FAX: PAGE 19/ 22

Certificate of Analysis

Company : Brookhaven National Laboratory
Address : OER
Building 51M
Upton, NY 11973-5000
Contact: Ms. Anna Bou
Project: Routine Analytical

Report Date: April 25, 2000

Client Sample ID: 065-005000323-36
Sample ID: 23482006
Matrix: Soil
Collect Date: 23-MAR-00 15:00
Receive Date: 24-MAR-00 10:00
Collector: Client

Project: BRKL00297
Client ID: BRKL001
COC: 6545

Parameter	Qualifier	Result		DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec												
Alphaspec Pu, solid												
Plutonium-238	U	-0.00579	+/-0.0116	0.127	6.60	pCi/g	1	RDK	04/06/00	1334	18391	1
Plutonium-239/240	UJ-K	0.00	+/-0	0.0723	4.00	pCi/g	1					
Alphaspec Th, solid												
Thorium-228		0.149	+/-0.0979	0.145	1.00	pCi/g	1	RDK	04/10/00	2028	18390	2
Thorium-230		0.107	+/-0.0624	0.0633	1.00	pCi/g	1					
Thorium-232		0.148	+/-0.0686	0.0221	1.00	pCi/g	1					
Alphaspec U, solid												
Uranium-233/234	UJ-K	-0.0367	+/-0.0904	0.311	0.900	pCi/g	1	RDK	04/06/00	1805	18389	3
Uranium-235/236	U	0.0108	+/-0.119	0.320	0.900	pCi/g	1					
Uranium-238	UJ	0.142	+/-0.135	0.187	0.900	pCi/g	1					
Rad Gamma Spec												
Gamma I129, solid												
Iodine-129	U	-0.0461	+/-0.2363	0.298	1.00	pCi/g	1	SRB	04/13/00	1406	18349	4
Gammaspec, Gamma, solid												
Americium-241	U	0.00512	+/-0.02628	0.0479	4.00	pCi/g	1	SRB	04/04/00	1143	18345	5
Beryllium-7	U	0.040	+/-0.08817	0.164	1.00	pCi/g	1					
Cesium-134	UJ-K	-0.00484	+/-0.01316	0.0192	0.100	pCi/g	1					
Cesium-137		0.141	+/-0.02801	0.0191	2.30	pCi/g	1					
Cobalt-57	UJ-K	-0.0011	+/-0.00691	0.0125	0.100	pCi/g	1					
Cobalt-60	U	0.00483	+/-0.01215	0.0223	0.100	pCi/g	1					
Europium-152	U	-0.0184	+/-0.02763	0.0485	4.80	pCi/g	1					
Europium-154	UJ-K	0.0213	+/-0.0345	0.0644	17.0	pCi/g	1					
Europium-155	U	-0.00219	+/-0.02847	0.0528	0.200	pCi/g	1					
Manganese-54	UJ-K	0.000272	+/-0.01118	0.0197	0.100	pCi/g	1					
Radium-226	UJ-B	0.155	+/-0.04839	0.0396	1.00	pCi/g	1					
Sodium-22	UJ-K	0.00763	+/-0.01232	0.023	0.700	pCi/g	1					
Vanadium-48	UJ-K	0.00294	+/-0.01811	0.0328	1.00	pCi/g	1					
Zinc-65	UJ-K	0.0273	+/-0.03034	0.0489	0.200	pCi/g	1					
Rad Gas Flow												
GFPC, Gross A/B, solid												
Alpha		1.14	+/-0.38492	0.466	1.00	pCi/g	1	TMC	04/15/00	0609	18118	6
Beta	J-D	1.68	+/-0.59242	0.930	1.00	pCi/g	1					
GFPC, Sr90, solid												
Strontium-90	U	0.411	+/-1.278	3.07	7.50	pCi/g	1	AAK	04/04/00	1626	18124	7
Rad Liquid Scint												
LSC, Tritium Dist, solid												

FILE No. 096 04/25 '00 15:31 ID: FAX: PAGE 20/ 22

Certificate of Analysis

Company : Brookhaven National Laboratory
Address : OER
Building 51M
Upton, NY 11973-5000
Contact: Ms. Anna Bou
Project: Routine Analytical

Report Date: April 25, 2000

Client Sample ID: 065-005000323-36
Sample ID: 23482006

Project: BRKL00297
Client ID: BRKL001
COC: 6545

Parameter	Qualifier	Result		DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scint												
LSC, Tritium Dist, solid Tritium	UJ-K	-2.7	+/-2.522	4.54	6.00	pCi/g	1	CSM1	03/31/00	1220	18012	8
Liquid Scint C14, solid Carbon-14	UJ	0.0271	+/-0.1304	0.224	1.00	pCi/g	1	KDA	03/27/00	2248	18010	9
Liquid Scint Ni63, solid Nickel-63	UJ-K	0.128	+/-1.1042	2.68	2.00	pCi/g	1	ADD	04/18/00	0013	18248	10
Liquid Scint Tc99, solid Technetium-99	UJ-K	-0.132	+/-0.2883	0.742	5.00	pCi/g	1	AEA	04/04/00	1150	18027	11

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep EPI A-021,A-021B,A-026	TC1	03/25/00	1521	18000
Dry Soil Prep	Dry Soil Prep EPI A-021,A-021B,A-026	TC1	03/24/00	1708	17967

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL 300
2	DOE EML HASL 300
3	DOE EML HASL 300
4	LANL EM-9
5	DOE EML HASL 300
6	EPA 900
7	EPA 905.0
8	EPA 906.0
9	EPA 504.1
10	DOE RESL Ni-1
11	DOE EML HASL 300

Notes:
The Qualifiers in this report are defined as follows :

DL Failed required detection limit.
RI Not quantified due to interference.
U Sample result < .5*MDA and MDA <= RDL.
UJ .5*MDA < Sample result < MDA and MDA <= RDL.
UJ-Q Not quantified due to low abundance.

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Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method

The above sample is reported on an "as received" basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, Inc. standard operating procedures. Please direct any questions to your Project Manager, Nancy Slater at 843-556-8171 Ext. 4438.

Reviewed by

FILE No.096 04/25 '00 15:32 ID: FAX: PAGE 22/ 22