



GENERAL ENGINEERING LABORATORIES, LLC
a Member of THE GEL GROUP, INC.
Meeting Today's Needs with a Vision for Tomorrow

December 15, 2004

Mr. Pete Hollenbeck
Connecticut Yankee Atomic Power
Haddam Neck Plant
362 Injun Hollow Road
East Hampton, Connecticut 06424

Re: Bedrock PO# 002337

Work Order: 126303

SDG: MSR#04-3908

BCY-SSWP-04-01-002 Rev. 1

SML 176, 178 B

Dear Mr. Hollenbeck:

General Engineering Laboratories, LLC (GEL) appreciates the opportunity to provide the following analytical results for the sample(s) we received on November 26, 2004. This data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4243.

Sincerely,

Cheryl Jones
Project Manager

Purchase Order: 002337
Chain of Custody: 2004-00273
Enclosures

CONNECTICUT YANKEE
RE: BEDROCK SAMPLES
PO# 002337
Work Order: 126303
MSR# 04-3908

126303001 3101-0000-176-B01-01
126303002 3101-0000-176-B01-02
126303003 3101-0000-178-B01-01

Table of Contents

General Narrative.....	1
Chain of Custody.....	4
Cooler Receipt Checklist	6
Radiological Analysis	8

GENERAL NARRATIVE

CASE NARRATIVE
For
CONNECTICUT YANKEE
RE: Quarterly Groundwater
PO# 002337
Work Order: 126303

December 15, 2004

Laboratory Identification:

General Engineering Laboratories, LLC

Mailing Address:

P.O. Box 30712
Charleston, South Carolina 29417

Express Mail Delivery and Shipping Address:

2040 Savage Road
Charleston, South Carolina 29407

Telephone Number:

(843) 556-8171

Summary:

Sample receipt

The sample(s) arrived at General Engineering Laboratories, LLC, (GEL) in Charleston, South Carolina November 26, 2004. All sample containers arrived without any visible signs of tampering or breakage. The chain of custody contained the proper documentation and signatures.

The laboratory prepared the following sample:

<u>Sample ID</u>	<u>Client Sample ID</u>
126303001	3101-0000-176-B01-01
126303002	3101-0000-176-B01-02
126303003	3101-0000-178-B01-01

Items of Note:

There are no items to note.

Case Narrative:

Sample analyses were conducted using methodology as outlined in General Engineering Laboratories (GEL) Standard Operating Procedures. Any technical or administrative problems during analysis, data review, and reduction are listed below by analytical parameter.

Analytical Request:

Three bedrock samples were analyzed for CHGAM, H-3, and Sr-90.

Internal Chain of Custody:

Custody was maintained for all of these samples.

Data Package:

The enclosed data package contains the following sections: Case Narrative, Chain of Custody, Cooler Receipt Checklist, and Radiochemistry.

I certify that this data package is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or a designee, as verified by the following signature.



Cheryl Jones
Project Manager

CHAIN OF CUSTODY

126303% 126304%

Connecticut Yankee Atomic Power Company

Chain of Custody Form

No. 2004-00273

362 Injun Hollow Road, East Hampton, CT 06424
860-267-2556

Project Name: Haddam Neck Decommissioning			Media Code	Sample Type Code	Container Size- & Type Code	Analyses Requested					Lab Use Only			
Contact Name & Phone: Pete Hollenbeck 860-267-3923						CHGAM	H-3	Sr-90	CHALL	Comments: 94 lbs 40 lbs * in this package				
Analytical Lab (Name, City, State): General Engineering Laboratories 2040 Savage Road Charleston, SC 29407 ATT: Cheryl Jones														
Priority: <input type="checkbox"/> 30 D. <input type="checkbox"/> 15 D. <input checked="" type="checkbox"/> 7 D. Other:														
Sample Designation	Date	Time								Comment, Preservation	Lab Sample ID			
9312-0003-111-S	11/17/04	1338	TS	G	BP	X	X	X						
9312-0003-112-S	11/17/04	1325	TS	G	BP	X	X	X						
3107-0000-192-SI	11/18/04	0834	TS	G	BP	X	X	X						
3107-0000-192-SP	11/17/04	1320	TS	G	BP	X	X	X						
3107-0000-193-SI	11/18/04	1015	TS	G	BP	X	X	X						
3107-0000-193-SP	11/17/04	1305	TS	G	BP	X	X	X						
3101-0000-176-B01-01 *	11/15/04	1540	B	C	BP	X	X	X						
3101-0000-176-B01-02 *	11/15/04	1540	B	C	BP	X	X	X						
3101-0000-178-B01-01 *	10/20/04	1110	B	C	BP	X	X	X						

NOTES: PO #: 002337 MSR #: 04-3908 LTP QA Radwaste QA Non QA

NOTE: * BEDROCK SAMPLES HAVE A 30 DAY TAT.

1) Relinquished By <i>[Signature]</i> Date/Time 11/24/04 0900	2) Received By <i>[Signature]</i> Date/Time 11/26/04 1000
3) Relinquished By _____ Date/Time _____	4) Received By _____ Date/Time _____
5) Relinquished By _____ Date/Time _____	6) Received By _____ Date/Time _____

Samples Shipped Via:
 Fed Ex
 UPS
 Hand
 Other _____

790347608663
Bill of Lading #

Internal Container Temp.: 16 Deg. C

Custody Sealed? Y N
Custody Seal Intact? Y N

5

**COOLER
RECEIPT
CHECKLIST**

Figure 1. Sample Check-in List

Date/Time Received: 11/26/04 1000

SDG#: MSR# 04-3908

Work Order Number: 126304/

Shipping Container ID: 7913 9801 1270
7903 4760 8063 Chain of Custody # 2004-00272 thru 00276

- 1. Custody Seals on shipping container intact? Yes No
- 2. Custody Seals dated and signed? Yes No
- 3. Chain-of-Custody record present? Yes No
- 4. Cooler temperature 16.0C
- 5. Vermiculite/packing materials is: Wet Dry N/A
- 6. Number of samples in shipping container: 47
- 7. Sample holding times exceeded? Yes No

8. Samples have:	
<input checked="" type="checkbox"/> tape	<input type="checkbox"/> hazard labels
<input checked="" type="checkbox"/> custody seals	<input checked="" type="checkbox"/> appropriate sample labels
9. Samples are:	
<input checked="" type="checkbox"/> in good condition	<input type="checkbox"/> leaking
<input type="checkbox"/> broken	<input type="checkbox"/> have air bubbles

10. Were any anomalies identified in sample receipt? Yes No

11. Description of anomalies (include sample numbers): _____

Sample Custodian/Laboratory: W. C. Smith Date: 11-26-04 1000

Telephoned to: _____ On _____ By _____

RADIOLOGICAL ANALYSIS

**Radiochemistry Case Narrative
Connecticut Yankee Atomic Power Co. (YANK)
SDG MSR#04-3908**

Method/Analysis Information

Product:	Gammasec, Gamma, Solid-GAM2,ALL2 (CT)
Analytical Method:	EML HASL 300, 4.5.2.3
Prep Method:	Dry Soil Prep
Analytical Batch Number:	384336
Prep Batch Number:	384222

Sample ID	Client ID
126303001	3101-0000-176-B01-01
126303002	3101-0000-176-B01-02
126303003	3101-0000-178-B01-01
1200747624	Method Blank (MB)
1200747625	126303001(3101-0000-176-B01-01) Sample Duplicate (DUP)
1200747626	Laboratory Control Sample (LCS)

SOP Reference

Procedures for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-013 REV# 10.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 126303001 (3101-0000-176-B01-01).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Miscellaneous Information:**NCR Documentation**

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Qualifier information

Qualifier	Reason	Analyte	Sample
UI	Data rejected due to low abundance.	Bismuth-214	1200747625
			126303003
		Lead-212	126303001

Method/Analysis Information

Product: GFPC, Sr90, solid-HTD2,ALL2 (CT)
Analytical Method: EPA 905.0 Modified
Prep Method: Ash Soil Prep
Dry Soil Prep GL-RAD-A-021 Method: Dry Soil Prep
Analytical Batch Number: 386685
Prep Batch Number: 384223
Dry Soil Prep GL-RAD-A-021 Batch Number: 384222

Sample ID	Client ID
126303001	3101-0000-176-B01-01
126303002	3101-0000-176-B01-02
126303003	3101-0000-178-B01-01
1200753466	Method Blank (MB)
1200753467	126826005(9530-0004-005F) Sample Duplicate (DUP)
1200753468	126826005(9530-0004-005F) Matrix Spike (MS)
1200753469	Laboratory Control Sample (LCS)

SOP Reference

Procedures for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-004 REV# 9.

Calibration Information:**Calibration Information**

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:**Blank Information**

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 126826005 (9530-0004-005F).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Chemical Recoveries

All chemical recoveries meet the required acceptance limits for this sample set.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product:	LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)
Analytical Method:	EPA 906.0 Modified
Analytical Batch Number:	389455

Sample ID	Client ID
126303001	3101-0000-176-B01-01
126303002	3101-0000-176-B01-02
126303003	3101-0000-178-B01-01
1200760124	Method Blank (MB)
1200760125	126303003(3101-0000-178-B01-01) Sample Duplicate (DUP)
1200760126	126303003(3101-0000-178-B01-01) Matrix Spike (MS)
1200760127	Laboratory Control Sample (LCS)

SOP Reference

Procedures for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-002 REV# 9.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 126303003 (3101-0000-178-B01-01).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

Sample 1200760127 (LCS) was recounted due to low/high recovery.

The batch was recounted due to spectral interference.

The batch was reprepared due to low/high recovery.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

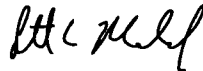
Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Review Validation:

GEL requires all analytical data to be verified by a qualified data validator. In addition, all data designated for CLP or CLP-like packaging will receive a third level validation upon completion of the data package.

The following data validator verified the information presented in this case narrative:



Reviewer: _____

SAMPLE DATA SUMMARY

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report for

YANK001 Connecticut Yankee Atomic Power Co.

Client SDG: MSR#04-3908 GEL Work Order: 126303

The Qualifiers in this report are defined as follows:

- * Indicates that a quality control analyte recovery is outside of specified acceptance criteria.
- ** Indicates the analyte is a surrogate compound.
- < Result is less than amount reported.
- > Result is greater than amount reported.
- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D.
- R Sample results are rejected due to sample preservation with HCl.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- Y QC Samples were not spiked with this compound.
- h Sample preparation or preservation holding time exceeded.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

** Indicates the analyte is a surrogate compound.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Cheryl Jones.



Reviewed by _____

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : Haddam Neck Plant
 362 Injun Hollow Road
 East Hampton, Connecticut 06424
 Contact: Mr. Pete Hollenbeck
 Project: Soils and Concrete PO# 002337

Report Date: December 22, 2004

Client Sample ID:	3101-0000-176-B01-01	Project:	YANK01304
Sample ID:	126303001	Client ID:	YANK001
Matrix:	B	Vol. Recv.:	
Collect Date:	15-NOV-04		
Receive Date:	26-NOV-04		
Collector:	Client		
Moisture:	.229%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch
Rad Gamma Spec Analysis												
<i>Gammaspec, Gamma, Solid-GAM2,ALL2 (CT)</i>												
Actinium-228		0.118	+/-0.0706	0.0397	+/-0.0692	0.0896	pCi/g		AKB	12/04/04	1501	384336 1
Americium-241	U	-0.0168	+/-0.0538	0.046	+/-0.0527	0.0974	pCi/g					
Bismuth-212	U	0.0338	+/-0.119	0.0937	+/-0.116	0.207	pCi/g					
Bismuth-214		0.102	+/-0.047	0.0252	+/-0.0461	0.0546	pCi/g					
Cesium-134	U	0.0161	+/-0.0149	0.0146	+/-0.0146	0.0323	pCi/g					
Cesium-137		0.0376	+/-0.026	0.0125	+/-0.0255	0.0276	pCi/g					
Cobalt-60		0.0363	+/-0.0247	0.0084	+/-0.0242	0.0208	pCi/g					
Europium-152	U	0.0486	+/-0.0448	0.0355	+/-0.0439	0.076	pCi/g					
Europium-154	U	-0.00513	+/-0.0366	0.0302	+/-0.0359	0.0711	pCi/g					
Europium-155	U	0.0102	+/-0.0354	0.0343	+/-0.0347	0.0724	pCi/g					
Lead-212	U	0.00	+/-0.0321	0.0306	+/-0.0315	0.0635	pCi/g					
	UI											
Lead-214		0.132	+/-0.0507	0.0257	+/-0.0497	0.0549	pCi/g					
Manganese-54	U	0.00266	+/-0.0127	0.0117	+/-0.0125	0.0261	pCi/g					
Niobium-94	U	-0.00132	+/-0.0116	0.00982	+/-0.0114	0.0219	pCi/g					
Potassium-40		2.30	+/-0.443	0.115	+/-0.434	0.269	pCi/g					
Radium-226		0.102	+/-0.047	0.0252	+/-0.0461	0.0546	pCi/g					
Silver-108m	U	0.0106	+/-0.0209	0.0109	+/-0.0205	0.0236	pCi/g					
Thallium-208	U	0.0298	+/-0.0274	0.018	+/-0.0269	0.0383	pCi/g					
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid-HTD2,ALL2 (CT)</i>												
Strontium-90	U	-0.00835	+/-0.00525	0.00463	+/-0.00554	0.0095	pCi/g		JMB1	12/16/04	0537	386685 2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>												
Tritium	U	0.146	+/-1.46	1.22	+/-1.46	2.44	pCi/g		ATH1	12/21/04	1947	389455 3

Solid Preparation

Laboratory Composite

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	DLD1	11/30/04	1248	384223
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	TC1	11/29/04	1046	384222
GL-RAD-A-026	Laboratory sample composite				384221

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : Haddam Neck Plant
 : 362 Injun Hollow Road
 : East Hampton, Connecticut 06424
Contact: Mr. Pete Hollenbeck
Project: Soils and Concrete PO# 002337

Report Date: December 22, 2004

Client Sample ID: 3101-0000-176-B01-01
Sample ID: 126303001

Project: YANK01304
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch M
-----------	-----------	--------	-------------	----	-----	-----	-------	----	-------------	------	---------

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	EPA 906.0 Modified
5	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid-HTD2,ALL2 ((112	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- * Indicates that a quality control analyte recovery is outside of specified acceptance criteria.
- ** Indicates the analyte is a surrogate compound.
- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : Haddam Neck Plant
 362 Injun Hollow Road
 East Hampton, Connecticut 06424
 Contact: Mr. Pete Hollenbeck
 Project: Soils and Concrete PO# 002337

Report Date: December 22, 2004

Client Sample ID:	3101-0000-176-B01-02	Project:	YANK01304
Sample ID:	126303002	Client ID:	YANK001
Matrix:	B	Vol. Recv.:	
Collect Date:	15-NOV-04		
Receive Date:	26-NOV-04		
Collector:	Client		
Moisture:	.111%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid-GAM2,ALL2 (CT)</i>												
Actinium-228		0.131	+/-0.0641	0.0293	+/-0.0628	0.0644	pCi/g		AKB	12/04/04	1501	384336 1
Americium-241	U	0.000334	+/-0.0319	0.0297	+/-0.0312	0.0627	pCi/g					
Bismuth-212	U	0.106	+/-0.0777	0.0771	+/-0.0762	0.166	pCi/g					
Bismuth-214		0.114	+/-0.042	0.0159	+/-0.0411	0.0343	pCi/g					
Cesium-134	U	-0.00116	+/-0.00944	0.00815	+/-0.00925	0.018	pCi/g					
Cesium-137	U	0.00755	+/-0.00992	0.00953	+/-0.00972	0.0205	pCi/g					
Cobalt-60	U	0.00538	+/-0.00959	0.00887	+/-0.00939	0.0199	pCi/g					
Europium-152	U	-0.00448	+/-0.0258	0.0236	+/-0.0253	0.0503	pCi/g					
Europium-154	U	0.0128	+/-0.0268	0.0246	+/-0.0262	0.0549	pCi/g					
Europium-155	U	-0.0116	+/-0.0269	0.0257	+/-0.0264	0.0542	pCi/g					
Lead-212		0.133	+/-0.031	0.0145	+/-0.0303	0.0305	pCi/g					
Lead-214		0.119	+/-0.0387	0.0168	+/-0.038	0.0359	pCi/g					
Manganese-54	U	-0.0123	+/-0.0125	0.00784	+/-0.0122	0.0172	pCi/g					
Niobium-94	U	0.0103	+/-0.00949	0.00922	+/-0.0093	0.0197	pCi/g					
Potassium-40		2.29	+/-0.361	0.0832	+/-0.354	0.188	pCi/g					
Radium-226		0.114	+/-0.042	0.0159	+/-0.0411	0.0343	pCi/g					
Silver-108m	U	0.0108	+/-0.00878	0.00872	+/-0.0086	0.0186	pCi/g					
Thallium-208		0.0233	+/-0.0178	0.00823	+/-0.0174	0.0178	pCi/g					

Rad Gas Flow Proportional Counting

GFPC, Sr90, solid-HTD2,ALL2 (CT)

Strontium-90	U	0.000792	+/-0.00465	0.00388	+/-0.00465	0.00797	pCi/g		JMB1	12/16/04	0537	386685 2
--------------	---	----------	------------	---------	------------	---------	-------	--	------	----------	------	----------

Rad Liquid Scintillation Analysis

LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)

Tritium	U	-0.163	+/-1.50	1.26	+/-1.50	2.53	pCi/g		ATH1	12/21/04	2019	389455 3
---------	---	--------	---------	------	---------	------	-------	--	------	----------	------	----------

Solid Preparation

Laboratory Composite

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	DLD1	11/30/04	1248	384223
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	TC1	11/29/04	1046	384222
GL-RAD-A-026	Laboratory sample composite				384221

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : Haddam Neck Plant
362 Injun Hollow Road
East Hampton, Connecticut 06424
Contact: Mr. Pete Hollenbeck
Project: Soils and Concrete PO# 002337

Report Date: December 22, 2004

Client Sample ID: 3101-0000-176-B01-02 Project: YANK01304
Sample ID: 126303002 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch M
The following Analytical Methods were performed											
Method	Description										
1	EML HASL 300, 4.5.2.3										
2	EPA 905.0 Modified										
3	EPA 906.0 Modified										
4	EPA 906.0 Modified										
5	GL-RAD-A-026										
Surrogate/Tracer recovery	Test				Recovery%	Acceptable Limits					
Carrier/Tracer Recovery	GFPC, Sr90, solid-HTD2,ALL2 ((114	(25%-125%)					

Notes:

The Qualifiers in this report are defined as follows :

- * Indicates that a quality control analyte recovery is outside of specified acceptance criteria.
 - ** Indicates the analyte is a surrogate compound.
 - B Target analyte was detected in the sample as well as the associated blank.
 - BD Flag for results below the MDC or a flag for low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
 - U Indicates the target analyte was analyzed for but not detected above the detection limit.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : Haddam Neck Plant
 362 Injun Hollow Road
 East Hampton, Connecticut 06424
 Contact: Mr. Pete Hollenbeck
 Project: Soils and Concrete PO# 002337

Report Date: December 22, 2004

Client Sample ID:	3101-0000-178-B01-01	Project:	YANK01304
Sample ID:	126303003	Client ID:	YANK001
Matrix:	B	Vol. Recv.:	
Collect Date:	20-OCT-04		
Receive Date:	26-NOV-04		
Collector:	Client		
Moisture:	.525%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch M
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid-GAM2,ALL2 (CT)</i>												
Actinium-228	U	0.146	+/-0.160	0.0847	+/-0.156	0.180	pCi/g		AKB	12/04/04	1750	384336 1
Americium-241	U	0.0314	+/-0.0668	0.0609	+/-0.0654	0.127	pCi/g					
Bismuth-212	U	0.131	+/-0.184	0.170	+/-0.180	0.362	pCi/g					
Bismuth-214	U	0.00	+/-0.0753	0.0467	+/-0.0738	0.0979	pCi/g					
	UI											
Cesium-134	U	0.00917	+/-0.0267	0.0239	+/-0.0262	0.051	pCi/g					
Cesium-137	U	0.0316	+/-0.0323	0.0203	+/-0.0317	0.0433	pCi/g					
Cobalt-60		1.60	+/-0.149	0.0175	+/-0.146	0.0393	pCi/g					
Europium-152	U	-0.0219	+/-0.0475	0.0415	+/-0.0465	0.0881	pCi/g					
Europium-154	U	-0.0138	+/-0.064	0.0451	+/-0.0627	0.102	pCi/g					
Europium-155	U	0.0148	+/-0.0477	0.0456	+/-0.0467	0.0952	pCi/g					
Lead-212	U	0.0717	+/-0.0514	0.0367	+/-0.0504	0.0758	pCi/g					
Lead-214		0.152	+/-0.0766	0.0323	+/-0.0751	0.0683	pCi/g					
Manganese-54	U	-0.00643	+/-0.0307	0.0224	+/-0.0301	0.0479	pCi/g					
Niobium-94	U	0.0225	+/-0.0307	0.019	+/-0.030	0.0403	pCi/g					
Potassium-40		3.73	+/-0.609	0.153	+/-0.597	0.347	pCi/g					
Radium-226		0.140	+/-0.0753	0.033	+/-0.0738	0.0704	pCi/g					
Silver-108m	U	0.0136	+/-0.0177	0.0165	+/-0.0173	0.035	pCi/g					
Thallium-208	U	0.0219	+/-0.0253	0.0185	+/-0.0248	0.0395	pCi/g					
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid-HTD2,ALL2 (CT)</i>												
Strontium-90	U	-0.0145	+/-0.00696	0.0062	+/-0.008	0.0127	pCi/g		JMB1	12/16/04	0537	386685 2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>												
Tritium	U	0.409	+/-1.49	1.24	+/-1.49	2.47	pCi/g		ATH1	12/21/04	2051	389455 3
Solid Preparation												
<i>Laboratory Composite</i>												

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	DLD1	11/30/04	1249	384223
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	TC1	11/29/04	1046	384222
GL-RAD-A-026	Laboratory sample composite				384221

QUALITY CONTROL DATA

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: December 22, 2004

Page 1 of 5

Client : Connecticut Yankee Atomic Power
 Haddam Neck Plant
 362 Injun Hollow Road
 East Hampton, Connecticut
 Contact: Mr. Pete Hollenbeck
 Workorder: 126303

Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec											
Batch 384336											
QC1200747625 126303001 DUP											
Actinium-228		0.118		0.0968	pCi/g	20		(0% - 100%)	AKB	12/04/04	17:55
		Uncert: +/-0.0706		+/-0.0733							
		TPU: +/-0.0692		+/-0.0718							
Americium-241	U	-0.0168	U	-0.00403	pCi/g	N/A		(0% - 100%)			
		Uncert: +/-0.0538		+/-0.0622							
		TPU: +/-0.0527		+/-0.0609							
Bismuth-212	U	0.0338	U	0.126	pCi/g	115		(0% - 100%)			
		Uncert: +/-0.119		+/-0.187							
		TPU: +/-0.116		+/-0.183							
Bismuth-214		0.102	UUI	0.00	pCi/g	0		(0% - 100%)			
		Uncert: +/-0.047		+/-0.0426							
		TPU: +/-0.0461		+/-0.0417							
Cesium-134	U	0.0161	U	0.00284	pCi/g	140		(0% - 100%)			
		Uncert: +/-0.0149		+/-0.0123							
		TPU: +/-0.0146		+/-0.012							
Cesium-137		0.0376	U	0.00872	pCi/g	125		(0% - 100%)			
		Uncert: +/-0.026		+/-0.0136							
		TPU: +/-0.0255		+/-0.0133							
Cobalt-60		0.0363		0.0522	pCi/g	36		(0% - 100%)			
		Uncert: +/-0.0247		+/-0.0257							
		TPU: +/-0.0242		+/-0.0252							
Europium-152	U	0.0486	U	-0.00993	pCi/g	N/A		(0% - 100%)			
		Uncert: +/-0.0448		+/-0.0297							
		TPU: +/-0.0439		+/-0.0291							
Europium-154	U	-0.00513	U	0.00333	pCi/g	N/A		(0% - 100%)			
		Uncert: +/-0.0366		+/-0.0346							
		TPU: +/-0.0359		+/-0.0339							
Europium-155	U	0.0102	U	-0.0103	pCi/g	N/A		(0% - 100%)			
		Uncert: +/-0.0354		+/-0.0313							
		TPU: +/-0.0347		+/-0.0307							
Lead-212	UUI	0.00		0.0564	pCi/g	0		(0% - 100%)			
		Uncert: +/-0.0321		+/-0.0274							
		TPU: +/-0.0315		+/-0.0269							
Lead-214		0.132		0.107	pCi/g	21		(0% - 100%)			
		Uncert: +/-0.0507		+/-0.0462							
		TPU: +/-0.0497		+/-0.0453							
Manganese-54	U	0.00266	U	0.00211	pCi/g	23		(0% - 100%)			
		Uncert: +/-0.0127		+/-0.0113							
		TPU: +/-0.0125		+/-0.0111							
Niobium-94	U	-0.00132	U	0.00412	pCi/g	N/A		(0% - 100%)			
		Uncert: +/-0.0116		+/-0.0123							
		TPU: +/-0.0114		+/-0.012							

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 126303

Page 2 of 5

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec										
Batch	384336									
Potassium-40		2.30	1.77	pCi/g	26		(0% - 100%)			
	Uncert:	+/-0.443	+/-0.413							
	TPU:	+/-0.434	+/-0.404							
Radium-226		0.102	0.108	pCi/g	6		(0% - 100%)			
	Uncert:	+/-0.047	+/-0.0426							
	TPU:	+/-0.0461	+/-0.0417							
Silver-108m	U	0.0106	U 0.00675	pCi/g	44		(0% - 100%)			
	Uncert:	+/-0.0209	+/-0.0106							
	TPU:	+/-0.0205	+/-0.0104							
Thallium-208	U	0.0298	0.0402	pCi/g	30		(0% - 100%)			
	Uncert:	+/-0.0274	+/-0.0194							
	TPU:	+/-0.0269	+/-0.019							
QC1200747626	LCS									
Actinium-228			U 0.276	pCi/g					12/06/04	09:33
	Uncert:		+/-0.523							
	TPU:		+/-0.512							
Americium-241	23.4		22.8	pCi/g		97	(75%-125%)			
	Uncert:		+/-2.47							
	TPU:		+/-2.42							
Bismuth-212			U -0.248	pCi/g						
	Uncert:		+/-0.937							
	TPU:		+/-0.918							
Bismuth-214			U 0.123	pCi/g						
	Uncert:		+/-0.205							
	TPU:		+/-0.201							
Cesium-134			U 0.104	pCi/g						
	Uncert:		+/-0.137							
	TPU:		+/-0.135							
Cesium-137	9.14		9.58	pCi/g		105	(75%-125%)			
	Uncert:		+/-0.768							
	TPU:		+/-0.753							
Cobalt-60	13.5		14.2	pCi/g		105	(75%-125%)			
	Uncert:		+/-1.09							
	TPU:		+/-1.07							
Europium-152			U 0.248	pCi/g						
	Uncert:		+/-0.282							
	TPU:		+/-0.277							
Europium-154			U 0.0933	pCi/g						
	Uncert:		+/-0.330							
	TPU:		+/-0.323							
Europium-155			U -0.0595	pCi/g						
	Uncert:		+/-0.274							
	TPU:		+/-0.269							
Lead-212			U 0.121	pCi/g						
	Uncert:		+/-0.193							
	TPU:		+/-0.190							
Lead-214			U 0.209	pCi/g						
	Uncert:		+/-0.202							

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 126303

Page 3 of 5

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec										
Batch	384336									
Manganese-54	TPU:		+/-0.198							
		U	-0.0256	pCi/g						
	Uncert:		+/-0.133							
Niobium-94	TPU:		+/-0.131							
		U	0.0988	pCi/g						
	Uncert:		+/-0.111							
Potassium-40	TPU:		+/-0.109							
		U	-0.0673	pCi/g						
	Uncert:		+/-0.895							
Radium-226	TPU:		+/-0.877							
		U	0.123	pCi/g			(75%-125%)			
	Uncert:		+/-0.205							
Silver-108m	TPU:		+/-0.201							
		U	0.0362	pCi/g						
	Uncert:		+/-0.108							
Thallium-208	TPU:		+/-0.106							
		U	0.0139	pCi/g						
	Uncert:		+/-0.112							
	TPU:		+/-0.110							
QC1200747624	MB									
Actinium-228										
		U	0.00825	pCi/g					12/04/04	17:54
	Uncert:		+/-0.0641							
Americium-241	TPU:		+/-0.0628							
		U	0.0249	pCi/g						
	Uncert:		+/-0.0549							
Bismuth-212	TPU:		+/-0.0538							
		U	0.0282	pCi/g						
	Uncert:		+/-0.101							
Bismuth-214	TPU:		+/-0.0988							
		U	0.0288	pCi/g						
	Uncert:		+/-0.0312							
Cesium-134	TPU:		+/-0.0306							
		U	0.00551	pCi/g						
	Uncert:		+/-0.0126							
Cesium-137	TPU:		+/-0.0123							
		U	-0.00324	pCi/g						
	Uncert:		+/-0.0131							
Cobalt-60	TPU:		+/-0.0128							
		U	0.00453	pCi/g						
	Uncert:		+/-0.0144							
Europium-152	TPU:		+/-0.0141							
		U	0.0232	pCi/g						
	Uncert:		+/-0.0396							
Europium-154	TPU:		+/-0.0388							
		U	0.019	pCi/g						
	Uncert:		+/-0.0519							
Europium-155	TPU:		+/-0.0509							
		U	0.0391	pCi/g						

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 126303

Page 4 of 5

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec											
Batch	384336										
Lead-212				U	0.0102	pCi/g					
	Uncert:				+/-0.0362						
	TPU:				+/-0.0355						
Lead-214				U	0.0296	pCi/g					
	Uncert:				+/-0.0411						
	TPU:				+/-0.0403						
Manganese-54				U	-0.00356	pCi/g					
	Uncert:				+/-0.0355						
	TPU:				+/-0.0348						
Niobium-94				U	0.0121	pCi/g					
	Uncert:				+/-0.0169						
	TPU:				+/-0.0166						
Potassium-40				U	0.215	pCi/g					
	Uncert:				+/-0.0397						
	TPU:				+/-0.0389						
Radium-226				U	0.0288	pCi/g					
	Uncert:				+/-0.202						
	TPU:				+/-0.198						
Silver-108m				U	0.00631	pCi/g					
	Uncert:				+/-0.0312						
	TPU:				+/-0.0306						
Thallium-208				U	0.015	pCi/g					
	Uncert:				+/-0.0132						
	TPU:				+/-0.013						
	Uncert:				+/-0.0158						
	TPU:				+/-0.0155						
Rad Gas Flow											
Batch	386685										
QC1200753467	126826005	DUP									
Strontium-90			U	0.00176	U	0.0175	pCi/g	0	(0% - 100%)	JMB1	12/16/04 16:28
	Uncert:			+/-0.0268		+/-0.0183					
	TPU:			+/-0.0268		+/-0.0188					
QC1200753469	LCS										
Strontium-90				1.17		0.980	pCi/g	84	(75%-125%)		12/15/04 18:29
	Uncert:					+/-0.0494					
	TPU:					+/-0.196					
QC1200753466	MB										
Strontium-90				U	9.970E-05	pCi/g					12/16/04 16:28
	Uncert:				+/-0.00423						
	TPU:				+/-0.00423						
QC1200753468	126826005	MS									
Strontium-90			U	8.37	U	0.00176	pCi/g	91	(75%-125%)		12/15/04 18:29
	Uncert:			+/-0.0268		+/-0.398					
	TPU:			+/-0.0268		+/-1.72					
Rad Liquid Scintillation											
Batch	389455										
QC1200760125	126303001	DUP									
Tritium			U	0.146	U	-0.115	pCi/g	N/A	(0% - 100%)	ATH1	12/21/04 21:54

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 126303

Page 5 of 5

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Liquid Scintillation										
Batch	389455									
	Uncert:	+/-1.46	+/-1.48							
	TPU:	+/-1.46	+/-1.48							
QC1200760127	LCS									
Tritium	7.89		9.68	pCi/g		123	(75%-125%)		12/22/04	14:13
	Uncert:		+/-1.87							
	TPU:		+/-2.01							
QC1200760124	MB									
Tritium		U	1.05	pCi/g					12/21/04	21:22
	Uncert:		+/-1.52							
	TPU:		+/-1.52							
QC1200760126	126303001	MS								
Tritium	7.91	U	0.146	9.74	pCi/g	118	(75%-125%)		12/21/04	22:26
	Uncert:	+/-1.46	+/-1.89							
	TPU:	+/-1.46	+/-2.04							

Notes:

The Qualifiers in this report are defined as follows:

- * Indicates that a quality control analyte recovery is outside of specified acceptance criteria.
- ** Indicates the analyte is a surrogate compound.
- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- h Sample preparation or preservation holding time exceeded.

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

** Indicates analyte is a surrogate compound.

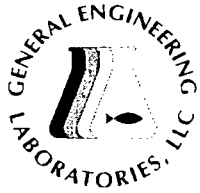
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

3101-0000-176-B01-01	MSR#04-3908	126303001	384336	14331-83-0	Actinium-228	TRG 8	UHASL300	HASL300	REG	0.118	0.0766	PC/IG	0	29/11/2004	38325 61389	3.01	0.0896	PC/IG	0.0397	PC/IG	1	0.23	217	PC/IG	PR
3101-0000-176-B01-01	MSR#04-3908	126303001	384336	14596-10-2	Americium-241	TRG 8	UHASL300	HASL300	REG	-0.0168	0.0539	PC/IG	0	29/11/2004	38325 61389	3.01	0.0974	PC/IG	0.0466	PC/IG	1	0.23	217	PC/IG	PR
3101-0000-176-B01-01	MSR#04-3908	126303001	384336	14913-49-6	Bismuth-212	TRG 8	UHASL300	HASL300	REG	0.0338	0.1199	PC/IG	0	29/11/2004	38325 61389	3.01	0.207	PC/IG	0.0937	PC/IG	1	0.23	217	PC/IG	PR
3101-0000-176-B01-01	MSR#04-3908	126303001	384336	13967-70-9	Cesium-137	TRG 8	UHASL300	HASL300	REG	0.0161	0.0149	PC/IG	0	29/11/2004	38325 61389	3.01	0.0323	PC/IG	0.0146	PC/IG	1	0.23	217	PC/IG	PR
3101-0000-176-B01-01	MSR#04-3908	126303001	384336	10045-97-3	Cesium-137	TRG 8	UHASL300	HASL300	REG	0.0376	0.0226	PC/IG	0	29/11/2004	38325 61389	3.01	0.0278	PC/IG	0.0125	PC/IG	1	0.23	217	PC/IG	PR
3101-0000-176-B01-01	MSR#04-3908	126303001	384336	10198-40-0	Cobalt-60	TRG 8	UHASL300	HASL300	REG	0.0363	0.0247	PC/IG	0	29/11/2004	38325 61389	3.01	0.0208	PC/IG	0.0084	PC/IG	1	0.23	217	PC/IG	PR
3101-0000-176-B01-01	MSR#04-3908	126303001	384336	14683-23-9	Europium-152	TRG 8	UHASL300	HASL300	REG	0.0486	0.0446	PC/IG	0	29/11/2004	38325 61389	3.01	0.078	PC/IG	0.0355	PC/IG	1	0.23	217	PC/IG	PR
3101-0000-176-B01-01	MSR#04-3908	126303001	384336	15585-10-1	Europium-154	TRG 8	UHASL300	HASL300	REG	-0.00513	0.0302	PC/IG	0	29/11/2004	38325 61389	3.01	0.0711	PC/IG	0.0302	PC/IG	1	0.23	217	PC/IG	PR
3101-0000-176-B01-01	MSR#04-3908	126303001	384336	14391-16-3	Europium-155	TRG 8	UHASL300	HASL300	REG	0.0102	0.0341	PC/IG	0	29/11/2004	38325 61389	3.01	0.0724	PC/IG	0.0343	PC/IG	1	0.23	217	PC/IG	PR
3101-0000-176-B01-01	MSR#04-3908	126303001	384336	15092-94-1	Lead-212	TRG 8	UHASL300	HASL300	REG	0.0321	0.0301	PC/IG	0	29/11/2004	38325 61389	3.01	0.0635	PC/IG	0.0306	PC/IG	1	0.23	217	PC/IG	PR
3101-0000-176-B01-01	MSR#04-3908	126303001	384336	15067-28-4	Lead-214	TRG 8	UHASL300	HASL300	REG	0.122	0.0507	PC/IG	0	29/11/2004	38325 61389	3.01	0.0549	PC/IG	0.0257	PC/IG	1	0.23	217	PC/IG	PR
3101-0000-176-B01-01	MSR#04-3908	126303001	384336	13966-31-9	Manganese-54	TRG 8	UHASL300	HASL300	REG	0.00266	0.0127	PC/IG	0	29/11/2004	38325 61389	3.01	0.0261	PC/IG	0.0117	PC/IG	1	0.23	217	PC/IG	PR
3101-0000-176-B01-01	MSR#04-3908	126303001	384336	14681-63-1	Niobium-94	TRG 8	UHASL300	HASL300	REG	-0.00132	0.0116	PC/IG	0	29/11/2004	38325 61389	3.01	0.0219	PC/IG	0.00982	PC/IG	1	0.23	217	PC/IG	PR
3101-0000-176-B01-01	MSR#04-3908	126303001	384336	13966-00-2	Potassium-40	TRG 8	UHASL300	HASL300	REG	2.3	0.443	PC/IG	0	29/11/2004	38325 61389	3.01	0.269	PC/IG	0.115	PC/IG	1	0.23	217	PC/IG	PR
3101-0000-176-B01-01	MSR#04-3908	126303001	384336	13982-63-3	Radium-226	TRG 8	UHASL300	HASL300	REG	0.102	0.047	PC/IG	0	29/11/2004	38325 61389	3.01	0.0546	PC/IG	0.0252	PC/IG	1	0.23	217	PC/IG	PR
3101-0000-176-B01-01	MSR#04-3908	126303001	384336	14391-65-2	Silver-106m	TRG 8	UHASL300	HASL300	REG	0.0106	0.0209	PC/IG	0	29/11/2004	38325 61389	3.01	0.0236	PC/IG	0.0109	PC/IG	1	0.23	217	PC/IG	PR
3101-0000-176-B01-01	MSR#04-3908	126303001	386685	10098-97-2	Srntium-90	TRG 45	UE905M	EP905M	REG	-0.00335	0.00529	PC/IG	0	30/11/2004	38325 84444	5.37	0.0095	PC/IG	0.00463	PC/IG	1	0.23	15.6	PC/IG	PR
3101-0000-176-B01-01	MSR#04-3908	126303001	384336	14913-50-9	Thallium-208	TRG 8	UHASL300	HASL300	REG	0.0298	0.0274	PC/IG	0	29/11/2004	38325 61389	3.01	0.0383	PC/IG	0.018	PC/IG	1	0.23	217	PC/IG	PR
3101-0000-176-B01-01	MSR#04-3908	126303001	389455	10028-17-8	Tritium	TRG 20	UE906 0	EP906 0	REG	0.346	1.48	PC/IG	0	21/12/2004		7.47	2.44	PC/IG	1.22	PC/IG	1	0.23	217	PC/IG	PR
3101-0000-176-B01-02	MSR#04-3908	126303002	384336	14331-83-0	Actinium-228	TRG 8	UHASL300	HASL300	REG	0.131	0.0641	PC/IG	0	29/11/2004	38325 61389	3.01	0.0644	PC/IG	0.0293	PC/IG	1	0.11	231	PC/IG	PR
3101-0000-176-B01-02	MSR#04-3908	126303002	384336	14596-10-2	Americium-241	TRG 8	UHASL300	HASL300	REG	0.000334	0.0319	PC/IG	0	29/11/2004	38325 61389	3.01	0.0627	PC/IG	0.0297	PC/IG	1	0.11	231	PC/IG	PR
3101-0000-176-B01-02	MSR#04-3908	126303002	384336	14913-49-6	Bismuth-212	TRG 8	UHASL300	HASL300	REG	0.106	0.0771	PC/IG	0	29/11/2004	38325 61389	3.01	0.166	PC/IG	0.0771	PC/IG	1	0.11	231	PC/IG	PR
3101-0000-176-B01-02	MSR#04-3908	126303002	384336	14733-03-0	Bismuth-214	TRG 8	UHASL300	HASL300	REG	0.114	0.047	PC/IG	0	29/11/2004	38325 61389	3.01	0.0343	PC/IG	0.0159	PC/IG	1	0.11	231	PC/IG	PR
3101-0000-176-B01-02	MSR#04-3908	126303002	384336	13967-70-9	Cesium-134	TRG 8	UHASL300	HASL300	REG	-0.00116	0.0044	PC/IG	0	29/11/2004	38325 61389	3.01	0.018	PC/IG	0.00815	PC/IG	1	0.11	231	PC/IG	PR
3101-0000-176-B01-02	MSR#04-3908	126303002	384336	10198-40-0	Cobalt-60	TRG 8	UHASL300	HASL300	REG	0.00538	0.00295	PC/IG	0	29/11/2004	38325 61389	3.01	0.0199	PC/IG	0.00887	PC/IG	1	0.11	231	PC/IG	PR
3101-0000-176-B01-02	MSR#04-3908	126303002	384336	14683-23-9	Europium-152	TRG 8	UHASL300	HASL300	REG	-0.00448	0.0236	PC/IG	0	29/11/2004	38325 61389	3.01	0.0503	PC/IG	0.0236	PC/IG	1	0.11	231	PC/IG	PR
3101-0000-176-B01-02	MSR#04-3908	126303002	384336	15585-10-1	Europium-154	TRG 8	UHASL300	HASL300	REG	0.0128	0.0268	PC/IG	0	29/11/2004	38325 61389	3.01	0.0549	PC/IG	0.0246	PC/IG	1	0.11	231	PC/IG	PR
3101-0000-176-B01-02	MSR#04-3908	126303002	384336	14391-16-3	Europium-155	TRG 8	UHASL300	HASL300	REG	-0.0116	0.0269	PC/IG	0	29/11/2004	38325 61389	3.01	0.0542	PC/IG	0.0257	PC/IG	1	0.11	231	PC/IG	PR
3101-0000-176-B01-02	MSR#04-3908	126303002	384336	15092-94-1	Lead-212	TRG 8	UHASL300	HASL300	REG	0.133	0.031	PC/IG	0	29/11/2004	38325 61389	3.01	0.0305	PC/IG	0.0145	PC/IG	1	0.11	231	PC/IG	PR
3101-0000-176-B01-02	MSR#04-3908	126303002	384336	15067-28-4	Lead-214	TRG 8	UHASL300	HASL300	REG	0.119	0.0387	PC/IG	0	29/11/2004	38325 61389	3.01	0.0359	PC/IG	0.0168	PC/IG	1	0.11	231	PC/IG	PR
3101-0000-176-B01-02	MSR#04-3908	126303002	384336	13966-31-9	Manganese-54	TRG 8	UHASL300	HASL300	REG	-0.0223	0.0196	PC/IG	0	29/11/2004	38325 61389	3.01	0.0276	PC/IG	0.0136	PC/IG	1	0.11	231	PC/IG	PR
3101-0000-176-B01-02	MSR#04-3908	126303002	384336	14681-63-1	Niobium-94	TRG 8	UHASL300	HASL300	REG	0.0103	0.00849	PC/IG	0	29/11/2004	38325 61389	3.01	0.0197	PC/IG	0.00922	PC/IG	1	0.11	231	PC/IG	PR
3101-0000-176-B01-02	MSR#04-3908	126303002	384336	13966-00-2	Potassium-40	TRG 8	UHASL300	HASL300	REG	2.29	0.361	PC/IG	0	29/11/2004	38325 61389	3.01	0.188	PC/IG	0.0832	PC/IG	1	0.11	231	PC/IG	PR
3101-0000-176-B01-02	MSR#04-3908	126303002	384336	13982-63-3	Radium-226	TRG 8	UHASL300	HASL300	REG	0.114	0.047	PC/IG	0	29/11/2004	38325 61389	3.01	0.0343	PC/IG	0.0159	PC/IG	1	0.11	231	PC/IG	PR
3101-0000-176-B01-02	MSR#04-3908	126303002	384336	14391-65-2	Silver-106m	TRG 8	UHASL300	HASL300	REG	0.0108	0.0082	PC/IG	0	29/11/2004	38325 61389	3.01	0.0186	PC/IG	0.00872	PC/IG	1	0.11	231	PC/IG	PR
3101-0000-176-B01-02	MSR#04-3908	126303002	386685	10098-97-2	Srntium-90	TRG 45	UE905M	EP905M	REG	0.000792	0.00485	PC/IG	0	30/11/2004	38325 84444	5.37	0.00797	PC/IG	0.00386	PC/IG	1	0.11	15.6	PC/IG	PR
3101-0000-176-B01-02	MSR#04-3908	126303002	384336	14913-50-9	Thallium-208	TRG 8	UHASL300	HASL300	REG	0.0233	0.0176	PC/IG	0	29/11/2004	38325 61389	3.01	0.0178	PC/IG	0.00823	PC/IG	1	0.11	231	PC/IG	PR
3101-0000-176-B01-02	MSR#04-3908	126303002	389455	10028-17-8	Tritium	TRG 20	UE906 0	EP906 0	REG	-0.183	1.49	PC/IG	0	21/12/2004		9.19	2.33	PC/IG	1.26	PC/IG	1	0.11	231	PC/IG	PR
3101-0000-178-B01-01	MSR#04-3908	126303003	384336	14331-83-0	Actinium-228	TRG 8	UHASL300	HASL300	REG	0.148	0.16	PC/IG	0	29/11/2004	38325 61389	5.50	0.18	PC/IG	0.0647	PC/IG	1	0.53	208	PC/IG	PR
3101-0000-178-B01-01	MSR#04-3908	126303003	384336	14596-10-2	Americium-241	TRG 8	UHASL300	HASL300	REG	0.0314	0.0668	PC/IG	0	29/11/2004	38325 61389	5.50	0.127	PC/IG	0.0608	PC/IG	1				

3101-0000-176-B01-01	MSR#04-3908	1200747625	384336	15092-94-1	Lead-212	TRG	U	HASL300	LR1	0.0564	0.0274	PCIG	0	4/12/2004	5.55	0.0461	PCIG	0.0219	PCIG	1	0.23	217	G	PCIG	0.00	PR				
3101-0000-176-B01-01	MSR#04-3908	1200747625	384336	15067-28-4	Lead-214	TRG	U	HASL300	LR1	0.107	0.0462	PCIG	0	4/12/2004	5.55	0.0453	PCIG	0.0209	PCIG	1	0.23	217	G	PCIG	0.13	2 PR				
3101-0000-176-B01-01	MSR#04-3908	1200747628	384336	13966-31-9	Manganese-54	TRG	U	HASL300	LR1	0.00211	0.0113	PCIG	0	4/12/2004	5.55	0.0224	PCIG	0.00989	PCIG	1	0.23	217	G	PCIG	0.00	266 PR				
3101-0000-176-B01-01	MSR#04-3908	1200747628	384336	14681-63-1	Niobium-94	TRG	U	HASL300	LR1	0.00412	0.0123	PCIG	0	4/12/2004	5.55	0.0248	PCIG	0.0111	PCIG	1	0.23	217	G	PCIG	-0.0	0.132 PR				
3101-0000-176-B01-01	MSR#04-3908	1200747628	384336	13966-00-2	Potassium-40	TRG	U	HASL300	LR1	1.77	0.413	PCIG	0	4/12/2004	5.55	0.206	PCIG	0.0845	PCIG	1	0.23	217	G	PCIG	2.30	PR				
3101-0000-176-B01-01	MSR#04-3908	1200747628	384336	13982-63-3	Radium-226	TRG	U	HASL300	LR1	0.108	0.0426	PCIG	0	4/12/2004	5.55	0.0461	PCIG	0.021	PCIG	1	0.23	217	G	PCIG	0.10	2 PR				
3101-0000-176-B01-01	MSR#04-3908	1200747625	384336	14391-65-2	Silver-108m	TRG	U	HASL300	LR1	0.00675	0.0106	PCIG	0	4/12/2004	5.55	0.0224	PCIG	0.0103	PCIG	1	0.23	217	G	PCIG	0.01	06 PR				
3101-0000-176-B01-01	MSR#04-3908	1200747625	384336	14913-50-9	Thallium-208	TRG	U	HASL300	LR1	0.0402	0.0194	PCIG	0	4/12/2004	5.55	0.0225	PCIG	0.0101	PCIG	1	0.23	217	G	PCIG	0.02	98 PR				
MSR#04-3908	1200747626	384336	14331-83-0	Actinium-228	TRG	U	HASL300	BS1	0.276	0.523	PCIG	0	6/12/2004	9.33	0.914	PCIG	0.436	PCIG	1	0	100	G	PCIG		PR					
MSR#04-3908	1200747628	384336	14586-10-2	Americium-241	TRG	U	HASL300	BS1	22.8	2.47	PCIG	0	6/12/2004	9.33	0.852	PCIG	0.416	PCIG	1	0	100	G	23	4	PCIG	PR				
MSR#04-3908	1200747626	384336	14913-49-6	Bismuth-212	TRG	U	HASL300	BS1	-0.249	0.837	PCIG	0	6/12/2004	9.33	1.6	PCIG	0.759	PCIG	1	0	100	G			PCIG	PR				
MSR#04-3908	1200747626	384336	14733-03-0	Bismuth-214	TRG	U	HASL300	BS1	0.123	0.205	PCIG	0	6/12/2004	9.33	0.371	PCIG	0.177	PCIG	1	0	100	G			PCIG	PR				
MSR#04-3908	1200747626	384336	13967-70-9	Cesium-134	TRG	U	HASL300	BS1	0.104	0.137	PCIG	0	6/12/2004	9.33	0.247	PCIG	0.116	PCIG	1	0	100	G			PCIG	PR				
MSR#04-3908	1200747626	384336	10045-97-3	Cesium-137	TRG	U	HASL300	BS1	9.58	0.768	PCIG	0	6/12/2004	9.33	0.213	PCIG	0.101	PCIG	1	0	100	G	9	14	PCIG	PR				
MSR#04-3908	1200747626	384336	10198-40-0	Cobalt-60	TRG	U	HASL300	BS1	14.2	1.09	PCIG	0	6/12/2004	9.33	0.188	PCIG	0.0859	PCIG	1	0	100	G	13	5	PCIG	PR				
MSR#04-3908	1200747626	384336	14683-23-9	Europium-152	TRG	U	HASL300	BS1	0.248	0.282	PCIG	0	6/12/2004	9.33	0.502	PCIG	0.241	PCIG	1	0	100	G			PCIG	PR				
MSR#04-3908	1200747628	384336	15585-10-1	Europium-154	TRG	U	HASL300	BS1	0.0933	0.33	PCIG	0	6/12/2004	9.33	0.535	PCIG	0.245	PCIG	1	0	100	G			PCIG	PR				
MSR#04-3908	1200747626	384336	14391-16-3	Europium-155	TRG	U	HASL300	BS1	-0.0595	0.274	PCIG	0	6/12/2004	9.33	0.457	PCIG	0.221	PCIG	1	0	100	G			PCIG	PR				
MSR#04-3908	1200747628	384336	15092-94-1	Lead-212	TRG	U	HASL300	BS1	0.121	0.193	PCIG	0	6/12/2004	9.33	0.254	PCIG	0.122	PCIG	1	0	100	G			PCIG	PR				
MSR#04-3908	1200747626	384336	15067-28-4	Lead-214	TRG	U	HASL300	BS1	0.209	0.202	PCIG	0	6/12/2004	9.33	0.361	PCIG	0.173	PCIG	1	0	100	G			PCIG	PR				
MSR#04-3908	1200747626	384336	13966-31-9	Manganese-54	TRG	U	HASL300	BS1	-0.0296	0.133	PCIG	0	6/12/2004	9.33	0.226	PCIG	0.108	PCIG	1	0	100	G			PCIG	PR				
MSR#04-3908	1200747626	384336	14681-63-1	Niobium-94	TRG	U	HASL300	BS1	0.0988	0.111	PCIG	0	6/12/2004	9.33	0.202	PCIG	0.0965	PCIG	1	0	100	G			PCIG	PR				
MSR#04-3908	1200747626	384336	13966-00-2	Potassium-40	TRG	U	HASL300	BS1	-0.0673	0.895	PCIG	0	6/12/2004	9.33	1.61	PCIG	0.722	PCIG	1	0	100	G			PCIG	PR				
MSR#04-3908	1200747628	384336	13982-63-3	Radium-226	TRG	U	HASL300	BS1	0.123	0.205	PCIG	0	6/12/2004	9.33	0.371	PCIG	0.177	PCIG	1	0	100	G			PCIG	PR				
MSR#04-3908	1200747628	384336	14391-65-2	Silver-108m	TRG	U	HASL300	BS1	0.0362	0.108	PCIG	0	6/12/2004	9.33	0.185	PCIG	0.0889	PCIG	1	0	100	G			PCIG	PR				
MSR#04-3908	1200747628	384336	14913-50-9	Thallium-208	TRG	U	HASL300	BS1	0.0139	0.112	PCIG	0	6/12/2004	9.33	0.198	PCIG	0.0948	PCIG	1	0	100	G			PCIG	PR				
MSR#04-3908	1200753469	386685	10098-97-2	Strontium-90	TRG	U	E90SM	LB1	9.97E-05	0.00423	PCIG	0	16/12/2004	4.28	0.00731	PCIG	0.00355	PCIG	1	0	15	G			PCIG	PR				
MSR#04-3908	1200753469	386685	10098-97-2	Strontium-90	TRG	U	E90SM	BS1	0.98	0.0494	PCIG	0	15/12/2004	6.29	0.0214	PCIG	0.00896	PCIG	1	0	15	G	1	17	PCIG	PR				
MSR#04-3908	1200760124	389455	10028-17-8	Tritium	TRG	U	E906	LB1	1.05	1.52	PCIG	0	21/12/2004	9.22	2.48	PCIG	1.23	PCIG	1	0					PCIG	PR				
3101-0000-176-B01-01	MSR#04-3908	1200760124	389455	10028-17-8	Tritium	TRG	U	E906	LR2	-0.115	1.48	PCIG	0	21/12/2004	9.54	2.48	PCIG	1.25	PCIG	1	0.53					PCIG	0.40	9 PR		
3101-0000-176-B01-01	MSR#04-3908	1200760124	389455	10028-17-8	Tritium	TRG	U	E906	MS2	9.74	1.89	PCIG	0	21/12/2004	10.26	2.47	PCIG	1.23	PCIG	1	0.53					PCIG	7.91	PCIG	PR	
MSR#04-3908	1200760127	389455	10028-17-8	Tritium	TRG	U	E906	BS1	9.68	1.87	PCIG	0	22/12/2004	2.13	2.44	PCIG	1.22	PCIG	1	0							PCIG	7.69	PCIG	PR



GENERAL ENGINEERING LABORATORIES, LLC

a Member of THE GEL GROUP, INC.

Meeting Today's Needs with a Vision for Tomorrow

May 10, 2004

Mr. Pete Hollenbeck
Connecticut Yankee Atomic Power
Haddam Neck Plant 362 Injun Hollow Road
East Hampton, Connecticut 06424

RE: Concrete Cores PO# 002337
Work Order: 111637
SDG: MSR# 04-1223

Dear Mr. Hollenbeck:

General Engineering Laboratories, LLC (GEL) appreciates the opportunity to provide the following analytical results for the sample(s) we received on April 27, 2004. Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time.

This data report has been prepared and reviewed in accordance with GEL's standard operating procedures. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4475.

Sincerely,


Sarah Kozlik
Project Manager

Purchase Order: 002337
Enclosures

CONNECTICUT YANKEE

RE: Concrete Cores

PO# 002337

Work Order: 111637

SDG: MSR# 04-1223

111637001	3100-0000-179-C-1C-01	111637010	3100-0000-179-C-12C-01
111637002	3100-0000-179-C-1C-02	111637011	3100-0000-179-C-15C-01
111637003	3100-0000-175-C-1C-01	111637012	3100-0000-179-C-15C-02
111637004	3100-0000-175-C-1C-02	111637013	3100-0000-175-C-10C-01
111637005	3100-0000-179-C-4C-01	111637014	3100-0000-175-C-17C-01
111637006	3100-0000-179-C-4C-02	111637015	3100-0000-175-C-20C-01
111637007	3100-0000-175-C-4C-01	111637016	3100-0000-175-C-20C-02
111637008	3100-0000-175-C-4C-02	111637017	3101-0000-175-B-21B-01
111637009	3100-0000-179-C-9C-01	111637018	3101-0000-175-B-21B-02

Table of Contents

Case Narrative	1
Chain of Custody	4
Cooler Receipt Checklist	7
Radiological Analysis	9
Sample Data Summary	22
Quality Control Data	63

**CASE
NARRATIVE**

CASE NARRATIVE
For
CONNECTICUT YANKEE
RE: Concrete Cores
PO# 002337
Work Order: 111637
SDG: MSR# 04-1223

April 8, 2004

Laboratory Identification:

General Engineering Laboratories, LLC

Mailing Address:

P.O. Box 30712
Charleston, South Carolina 29417

Express Mail Delivery and Shipping Address:

2040 Savage Road
Charleston, South Carolina 29407

Telephone Number:

(843) 556-8171

Summary:

Sample receipt

The samples for the Concrete Cores Project for work order 111637 arrived at General Engineering Laboratories, LLC, (GEL) in Charleston, South Carolina April 27, 2004 for environmental analysis. All sample containers arrived without any visible signs of tampering or breakage. The chain of custody contained the proper documentation and signatures.

The laboratory received the following samples:

3100-0000-179-C-1C-01	3100-0000-179-C-12C-01
3100-0000-179-C-1C-02	3100-0000-179-C-15C-01
3100-0000-175-C-1C-01	3100-0000-179-C-15C-02
3100-0000-175-C-1C-02	3100-0000-175-C-10C-01
3100-0000-179-C-4C-01	3100-0000-175-C-17C-01
3100-0000-179-C-4C-02	3100-0000-175-C-20C-01
3100-0000-175-C-4C-01	3100-0000-175-C-20C-02
3100-0000-175-C-4C-02	3101-0000-175-B-21B-01
3100-0000-179-C-9C-01	3101-0000-175-B-21B-02

Items of Note:

There are no items to note.

Case Narrative:

Sample analyses were conducted using methodology as outlined in General Engineering Laboratories (GEL) Standard Operating Procedures. Any technical or administrative problems during analysis, data review, and reduction are listed below by analytical parameter.

Analytical Request:

All eighteen concrete samples were analyzed for Gamma Spec. Fourteen of the eighteen were analyzed for Sr-90, and H-3. Four of these samples were also analyzed for C-14 and CHTRU.

Internal Chain of Custody:

Custody was maintained for all of these samples.

Data Package:

The enclosed data package contains the following sections: Case Narrative, Chain of Custody, Cooler Receipt Checklist, Laboratory Certifications, and Radiochemistry.

I certify that this data package is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or a designee, as verified by the following signature.


Sarah Kozlik
Project Manager

CHAIN
OF
CUSTODY

11163790

Connecticut Yankee Atomic Power Company

Chain of Custody Form

No. 2004-00061

362 Injun Hollow Road, East Hampton, CT 06424
860-267-2556

Project Name: Haddam Neck Decommissioning			Media Code	Sample Type Code	Container Size & Type Code	Analyses Requested					Lab Use Only			
Contact Name & Phone: Pete Hollenbeck 860-267-3923						CHGAM	H-3	SR-90	C-14	CHTRU	Comments:			
Analytical Lab (Name, City, State): General Engineering Laboratories 2040 Savage Road Charleston, SC 29407 Sarah Kozlik														
Priority: <input type="checkbox"/> 30 D. <input checked="" type="checkbox"/> 14 D. <input type="checkbox"/> 7 D. Other:														
Sample Designation	Date	Time								Comment, Preservation	Lab Sample ID			
3100-0000-179-C-1C-01 ✓	4/1/04	1105	CT	CR	BP	X				contains PCB's (<400 ppm)				
3100-0000-179-C-1C-02 ✓	4/1/04	1105	CT	CR	BP	X				contains PCB's (<400 ppm)				
3100-0000-179-C-4C-01 ✓	4/1/04	1430	CT	CR	BP	X	X	X	X					
3100-0000-179-C-4C-02 ✓	4/1/04	1430	CT	CR	BP	X	X	X	X					
3100-0000-179-C-9C-01 ✓	4/6/04	1325	CT	CR	BP	X	X	X						
3100-0000-179-C-12C-01 ✓	4/6/04	1500	CT	CR	BP	X	X	X						
3100-0000-179-C-15C-01 ✓	4/8/04	1325	CT	CR	BP	X	X	X						
3100-0000-179-C-15C-02	4/8/04	1325	CT	CR	BP	X	X	X						
NOTES: PO #: 002337 MSR #: 04-1223 <input type="checkbox"/> LTP QA <input type="checkbox"/> Radwaste QA <input checked="" type="checkbox"/> Non QA										Samples Shipped Via: <input checked="" type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Hand <input type="checkbox"/> Other _____		Internal Container Temp.: <u>B</u> Deg. C Custody Sealed? Y <input type="checkbox"/> N <input checked="" type="checkbox"/> Custody Seal Intact? Y <input type="checkbox"/> N <input type="checkbox"/>		
1) Relinquished By <u>Dorulla</u> Date/Time <u>4/24/04 1235</u>			2) Received By <u>Ma Kala</u> Date/Time <u>4-27-04 0950</u>			Bill of Lading # <u>7912 2204 3956</u>								
3) Relinquished By _____ Date/Time _____			4) Received By _____ Date/Time _____											
5) Relinquished By _____ Date/Time _____			6) Received By _____ Date/Time _____											

11103790

Connecticut Yankee Atomic Power Company

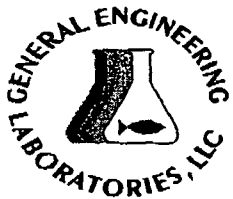
Chain of Custody Form

No. 2004-00060

362 Injun Hollow Road, East Hampton, CT 06424
860-267-2556

Project Name: Haddam Neck Decommissioning			Media Code	Sample Type Code	Container Size & Type Code	Analyses Requested					Lab Use Only			
Contact Name & Phone: Pete Hollenbeck 860-267-3923						CHGAM	H-3	SR-90	C-14	CHTRU	Comments:			
Analytical Lab (Name, City, State): General Engineering Laboratories 2040 Savage Road Charleston, SC 29407 Sarah Kozlik														
Priority: <input type="checkbox"/> 30 D. <input checked="" type="checkbox"/> 14 D. <input type="checkbox"/> 7 D. Other:														
Sample Designation	Date	Time								Comment, Preservation	Lab Sample ID			
3100-0000-175-C-1C-01	3/25/04	1440	CT	CR	BP	X				contains PCB's (<400 ppm)				
3100-0000-175-C-1C-02	3/25/04	1440	CT	CR	BP	X				contains PCB's (<400 ppm)				
3100-0000-175-C-4C-01	3/29/04	0825	CT	CR	BP	X	X	X	X					
3100-0000-175-C-4C-02	3/29/04	0825	CT	CR	BP	X	X	X	X					
3100-0000-175-C-10C-01	3/29/04	1420	CT	CR	BP	X	X	X						
3100-0000-175-C-17C-01	3/30/04	1330	CT	CR	BP	X	X	X						
3100-0000-175-C-20C-01	3/30/04	1430	CT	CR	BP	X	X	X						
3100-0000-175-C-20C-02	3/30/04	1430	CT	CR	BP	X	X	X						
3101-0000-175-B-21B-01	3/31/04	1100	BR	CR	BP	X	X	X						
3101-0000-175-B-21B-02	3/31/04	1100	BR	CR	BP	X	X	X						
NOTES: PO #: 002337 MSR #: 04-1223 <input type="checkbox"/> LTP QA <input type="checkbox"/> Radwaste QA <input checked="" type="checkbox"/> Non QA										Samples Shipped Via: <input checked="" type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Hand <input type="checkbox"/> Other _____		Internal Container Temp.: 18 Deg. C Custody Sealed? Y <input type="checkbox"/> N <input checked="" type="checkbox"/> Custody Seal Intact? Y <input type="checkbox"/> N <input type="checkbox"/>		
1) Relinquished By <i>[Signature]</i> Date/Time 4/26/04 1235			2) Received By <i>[Signature]</i> Date/Time 4-27-04 0920			7912 2204 3956 Bill of Lading #								
3) Relinquished By Date/Time			4) Received By Date/Time											
5) Relinquished By Date/Time			6) Received By Date/Time											

**COOLER
RECEIPT
CHECKLIST**



SAMPLE RECEIPT & REVIEW FORM

PM use only

Client: <u>CONN Yankee</u>	SDG/ARCOG/Work Order: _____
Date Received: <u>4-28-04</u>	PM(A) Review (ensure non-conforming items are resolved prior to signing):
Received By: <u>MJC</u>	<u>[Signature]</u>

#	Sample Receipt Criteria	Conforming	NA	Non-Conforming	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: seals broken damaged container leaking container other (describe)
2	Samples requiring cold preservation within (4 +/- 2 C)? Record preservation method.		✓		ice bags blue ice dry ice none other (describe) <u>18°</u>
3	Chain of custody documents included with shipment?	✓			
4	Sample containers intact and sealed?	✓			Circle Applicable: seals broken damaged container leaking container other (describe)
5	Samples requiring chemical preservation at proper pH?		✓		Sample ID's, containers affected and observed pH:
6	VOA vials free of headspace (defined as < 6mm bubble)?		✓		Sample ID's and containers affected:
7	Samples received within holding time?	✓			ID's and tests affected:
8	Sample ID's on COC match ID's on bottles?	✓			Sample ID's and containers affected:
9	Date & time on COC match date & time on bottles?	✓			Sample ID's affected:
10	Number of containers received match number indicated on COC?	✓			Sample ID's affected:
11	COC form is properly signed in relinquished/received sections?	✓			
12	Air Bill & Tracking #'s				<u>Fed ex # 7912 2204 3956</u>

Radiological Information	Not RAD	RAD	RAD	RSO RAD Receipt #
What is the radiological classification of the samples?		✓		Comments:
Radioactivity Screening Results (maximum observed CPM)		70		If > 10 area background is observed on a non-radioactive sample, contact the RSO to investigate.

RADIOLOGICAL ANALYSIS

**Radiochemistry Case Narrative
Connecticut Yankee Atomic Power Co. (YANK)
SDG MSR#:04-1223**

Method/Analysis Information

Product:	Alphaspec Am241, Cm, Solid-TRU2,ALL2
Analytical Method:	DOE EML HASL-300, Am-05-RC Modified
Prep Method:	Ash Soil Prep
Dry Soil Prep GL-RAD-A-021 Method:	Dry Soil Prep
Analytical Batch Number:	328693
Prep Batch Number:	328490
Dry Soil Prep GL-RAD-A-021 Batch Number:	328473

Sample ID	Client ID
111637005	3100-0000-179-C-4C-01
111637006	3100-0000-179-C-4C-02
111637007	3100-0000-175-C-4C-01
111637008	3100-0000-175-C-4C-02
1200614764	Method Blank (MB)
1200614767	Laboratory Control Sample (LCS)
1200614765	111637005(3100-0000-179-C-4C-01) Sample Duplicate (DUP)
1200614766	111637005(3100-0000-179-C-4C-01) Matrix Spike (MS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-011 REV# 12.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 111637005 (3100-0000-179-C-4C-01).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Miscellaneous Information:**NCR Documentation**

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product:	Alphaspec Pu, Solid-TRU2,ALL2
Analytical Method:	DOE EML HASL-300, Pu-11-RC Modified
Prep Method:	Ash Soil Prep
Dry Soil Prep GL-RAD-A-021 Method:	Dry Soil Prep
Analytical Batch Number:	328694
Prep Batch Number:	328490
Dry Soil Prep GL-RAD-A-021 Batch Number:	328473

Sample ID	Client ID
111637005	3100-0000-179-C-4C-01
111637006	3100-0000-179-C-4C-02
111637007	3100-0000-175-C-4C-01
111637008	3100-0000-175-C-4C-02
1200614768	Method Blank (MB)
1200614771	Laboratory Control Sample (LCS)
1200614769	111637005(3100-0000-179-C-4C-01) Sample Duplicate (DUP)
1200614770	111637005(3100-0000-179-C-4C-01) Matrix Spike (MS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-011 REV# 12.

Calibration Information:**Calibration Information**

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:**Blank Information**

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 111637005 (3100-0000-179-C-4C-01).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product:	Liquid Scint Pu241, Solid-TRU2,ALL2
Analytical Method:	DOE EML HASL-300, Pu-11-RC Modified
Prep Method:	Ash Soil Prep
Dry Soil Prep GL-RAD-A-021 Method:	Dry Soil Prep
Analytical Batch Number:	328695
Prep Batch Number:	328490
Dry Soil Prep GL-RAD-A-021 Batch Number:	328473

Sample ID	Client ID
111637005	3100-0000-179-C-4C-01
111637006	3100-0000-179-C-4C-02
111637007	3100-0000-175-C-4C-01
111637008	3100-0000-175-C-4C-02
1200614772	Method Blank (MB)
1200614775	Laboratory Control Sample (LCS)
1200614773	111637005(3100-0000-179-C-4C-01) Sample Duplicate (DUP)
1200614774	111637005(3100-0000-179-C-4C-01) Matrix Spike (MS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-035 REV# 5.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 111637005 (3100-0000-179-C-4C-01).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product:	Gammascpec, Gamma, Solid-GAM2,ALL2
Analytical Method:	EML HASL 300, 4.5.2.3
Prep Method:	Dry Soil Prep
Laboratory sample composite Method:	GL-RAD-A-026
Analytical Batch Number:	328906
Prep Batch Number:	328473
Laboratory sample composite Batch Number:	328472

Sample ID	Client ID
111637001	3100-0000-179-C-1C-01
111637002	3100-0000-179-C-1C-02
111637003	3100-0000-175-C-1C-01
111637004	3100-0000-175-C-1C-02

111637005	3100-0000-179-C-4C-01
111637006	3100-0000-179-C-4C-02
111637007	3100-0000-175-C-4C-01
111637008	3100-0000-175-C-4C-02
111637009	3100-0000-179-C-9C-01
111637010	3100-0000-179-C-12C-01
111637011	3100-0000-179-C-15C-01
111637012	3100-0000-179-C-15C-02
111637013	3100-0000-175-C-10C-01
111637014	3100-0000-175-C-17C-01
111637015	3100-0000-175-C-20C-01
111637016	3100-0000-175-C-20C-02
111637017	3101-0000-175-B-21B-01
111637018	3101-0000-175-B-21B-02
1200615255	Method Blank (MB)
1200615257	Laboratory Control Sample (LCS)
1200615256	111637001(3100-0000-179-C-1C-01) Sample Duplicate (DUP)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-013 REV# 10.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 111637001 (3100-0000-179-C-1C-01).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Qualifier information

Qualifier	Reason	Analyte	Sample
UI	Data rejected due to low abundance.	Actinium-228	111637004
			111637007
			111637009
			111637010
			111637011
			111637014
			111637015
			111637016
		Bismuth-214	111637010
			111637011
			111637012
			111637014
			111637016
			1200615256
		Cesium-134	111637003
		Cobalt-60	111637006
		Lead-212	1200615255
		Lead-214	111637018
		Thallium-208	111637010
			111637011
			111637012
UI	Data rejected due to no valid peak.	Americium-241	1200615256
		Bismuth-212	111637014

Method/Analysis Information

Product:
Analytical Method:
Prep Method:
Dry Soil Prep GL-RAD-A-021 Method:
Analytical Batch Number:
Prep Batch Number:
Dry Soil Prep GL-RAD-A-021 Batch Number:

GFPC, Sr90, solid-HTD2,ALL2
EPA 905.0 Modified
Ash Soil Prep
Dry Soil Prep
328553
328490
328473

Sample ID	Client ID
111637005	3100-0000-179-C-4C-01
111637006	3100-0000-179-C-4C-02
111637007	3100-0000-175-C-4C-01
111637008	3100-0000-175-C-4C-02
111637009	3100-0000-179-C-9C-01
111637010	3100-0000-179-C-12C-01
111637011	3100-0000-179-C-15C-01
111637012	3100-0000-179-C-15C-02
111637013	3100-0000-175-C-10C-01

111637014	3100-0000-175-C-17C-01
111637015	3100-0000-175-C-20C-01
111637016	3100-0000-175-C-20C-02
111637017	3101-0000-175-B-21B-01
111637018	3101-0000-175-B-21B-02
1200614496	Method Blank (MB)
1200614499	Laboratory Control Sample (LCS)
1200614497	111637018(3101-0000-175-B-21B-02) Sample Duplicate (DUP)
1200614498	111637018(3101-0000-175-B-21B-02) Matrix Spike (MS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-004 REV# 8.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 111637018 (3101-0000-175-B-21B-02).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

Samples 111637012 (3100-0000-179-C-15C-02), 111637015 (3100-0000-175-C-20C-01), 111637016 (3100-0000-175-C-20C-02) and 111637018 (3101-0000-175-B-21B-02) were recounted to verify sample results. Second counts being reported.

Sample 111637014 (3100-0000-175-C-17C-01) was counted 5 days from the initial separation in order to verify the sample result. The results did not verify, and the sample was put back onto a SR spec column. The result of the second separation confirms that the initial beta result was biased high due to an interfering isotope, and the result from the second separation is being reported.

Chemical Recoveries

All chemical recoveries meet the required acceptance limits for this sample set.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. The following NCR was generated for this SDG:
NCR 110600 was generated due to RDL less than MDA. 1. The samples (111637010,111637011,111637013) did not meet the required detection limit. They were counted for five-hundred minutes. Reporting results.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product:	LSC, Tritium Dist, Solid-HTD2,ALL2
Analytical Method:	EPA 906.0 Modified
Prep Method:	GL-RAD-A-026
Analytical Batch Number:	328815
Prep Batch Number:	328472

Sample ID	Client ID
111637005	3100-0000-179-C-4C-01
111637006	3100-0000-179-C-4C-02
111637007	3100-0000-175-C-4C-01
111637008	3100-0000-175-C-4C-02
111637009	3100-0000-179-C-9C-01
111637010	3100-0000-179-C-12C-01
111637011	3100-0000-179-C-15C-01
111637012	3100-0000-179-C-15C-02
111637013	3100-0000-175-C-10C-01
111637014	3100-0000-175-C-17C-01
111637015	3100-0000-175-C-20C-01
111637016	3100-0000-175-C-20C-02
111637017	3101-0000-175-B-21B-01
111637018	3101-0000-175-B-21B-02
1200615008	Method Blank (MB)
1200615011	Laboratory Control Sample (LCS)
1200615009	111637005(3100-0000-179-C-4C-01) Sample Duplicate (DUP)
1200615010	111637005(3100-0000-179-C-4C-01) Matrix Spike (MS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-002 REV# 9.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 111637005 (3100-0000-179-C-4C-01).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

Sample 1200615010 (3100-0000-179-C-4C-01) was recounted due to low/high recovery.

Samples 111637005 (3100-0000-179-C-4C-01) and 1200615009 (3100-0000-179-C-4C-01) were recounted due to high relative percent difference/relative error ratio.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product:	Liquid Scint C14, Solid-HTD2,ALL2
Analytical Method:	EPA EERF C-01 Modified
Prep Method:	GL-RAD-A-026
Analytical Batch Number:	328843
Prep Batch Number:	328472

Sample ID	Client ID
111637005	3100-0000-179-C-4C-01
111637006	3100-0000-179-C-4C-02
111637007	3100-0000-175-C-4C-01
111637008	3100-0000-175-C-4C-02
1200615067	Method Blank (MB)
1200615070	Laboratory Control Sample (LCS)
1200615068	111637005(3100-0000-179-C-4C-01) Sample Duplicate (DUP)
1200615069	111637005(3100-0000-179-C-4C-01) Matrix Spike (MS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in

accordance with GL-RAD-A-003 REV# 7.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 111637005 (3100-0000-179-C-4C-01).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Qualifier information

Manual qualifiers were not required.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Review Validation:

GEL requires all analytical data to be verified by a qualified data validator. In addition, all data designated for CLP or CLP-like packaging will receive a third level validation upon completion of the data package.

The following data validator verified the information presented in this case narrative:

Arnell Cichou 5/12/04

Reviewer: _____

COMPANY - WIDE NONCONFORMANCE REPORT			
Mo.Day Yr. 10-MAY-04	Division: Radiochemistry	Type: Process	
Instrument Type: GFPC	Quality Criteria: Specifications	Client Code: YANK	
Test / Method: EPA 905.0 Modified	Matrix Type: Solid	Batch ID: 328553	Sample Numbers: See Below
Potentially affected work order(s)(SDG): 111637(MSR#:04-1223)			
Application Issues: RDL less than MDA Failed RPD for DUP			
Specification and Requirements		NRG Disposition:	
Nonconformance Description:			
1. The samples (111637010,111637011,111637013) did not meet the required detection limit. They were counted for five-hundred minutes.		1. Reporting results.	

Originator's Name:
 Jimmy Hartley 10-MAY-04

Quality Review:
 Lonnie Morris 10-MAY-04

Director:

Data Validator/Group Leader:
 Joseph Jones 10-MAY-04

Corrective Action:

Corrective Action ID and Complete Date:

SAMPLE DATA SUMMARY

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : Haddam Neck Plant
 362 Injun Hollow Road
 East Hampton, Connecticut 06424
 Contact: Mr. Pete Hollenbeck
 Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 1 of 2

Client Sample ID:	3100-0000-179-C-1C-01	Project:	YANK00204
Sample ID:	111637001	Client ID:	YANK001
Matrix:	Misc Solid		
Collect Date:	01-APR-04		
Receive Date:	27-APR-04		
Collector:	Client		
Moisture:	4.95%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gamma Spec Analysis													
<i>GammaSpec, Gamma, Solid-GAM2, ALL2</i>													
Actinium-228	U	0.401	+/-0.365	0.210	+/-0.358	0.433	pCi/g		SRB	05/05/04	2015	328906	1
Americium-241	U	0.0304	+/-0.167	0.116	+/-0.163	0.237	pCi/g						
Bismuth-212	U	0.495	+/-0.395	0.321	+/-0.387	0.664	pCi/g						
Bismuth-214		0.305	+/-0.194	0.0722	+/-0.191	0.149	pCi/g						
Cesium-134		0.267	+/-0.113	0.045	+/-0.111	0.0935	pCi/g						
Cesium-137		19.5	+/-2.21	0.0397	+/-2.17	0.0821	pCi/g						
Cobalt-60		5.20	+/-0.406	0.039	+/-0.398	0.0833	pCi/g						
Europium-152	U	-0.0517	+/-0.141	0.105	+/-0.138	0.214	pCi/g						
Europium-154	U	0.0685	+/-0.133	0.110	+/-0.130	0.234	pCi/g						
Europium-155	U	0.0344	+/-0.114	0.0805	+/-0.112	0.164	pCi/g						
Lead-212		0.356	+/-0.126	0.0549	+/-0.124	0.112	pCi/g						
Lead-214		0.457	+/-0.179	0.0796	+/-0.176	0.163	pCi/g						
Manganese-54	U	0.0444	+/-0.0563	0.045	+/-0.0552	0.0934	pCi/g						
Niobium-94	U	0.0361	+/-0.0321	0.0335	+/-0.0315	0.0696	pCi/g						
Potassium-40		6.25	+/-1.33	0.357	+/-1.30	0.766	pCi/g						
Radium-226		0.305	+/-0.194	0.0722	+/-0.191	0.149	pCi/g						
Silver-108m	U	0.0229	+/-0.0607	0.0457	+/-0.0595	0.0933	pCi/g						
Thallium-208		0.196	+/-0.100	0.0409	+/-0.0981	0.0843	pCi/g						

Solid Preparation

Laboratory Composite

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	04/27/04	1554	328473
GL-RAD-A-026	Laboratory sample composite	AWB	04/27/04	1522	328472

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	GL-RAD-A-026

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : Haddam Neck Plant
362 Injun Hollow Road
East Hampton, Connecticut 06424
Contact: Mr. Pete Hollenbeck
Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 2 of 2

Client Sample ID: 3100-0000-179-C-1C-01 Project: YANK00204
Sample ID: 111637001 Client ID: YANK001

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch Mtd.
-----------	-----------	--------	-------------	----	-----	-----	-------	----	-------------	------	------------

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Sarah Kozlik.



Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : Haddam Neck Plant
 362 Injun Hollow Road
 East Hampton, Connecticut 06424
 Contact: Mr. Pete Hollenbeck
 Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 1 of 2

Client Sample ID:	3100-0000-179-C-1C-02	Project:	YANK00204
Sample ID:	111637002	Client ID:	YANK001
Matrix:	Misc Solid		
Collect Date:	01-APR-04		
Receive Date:	27-APR-04		
Collector:	Client		
Moisture:	5.62%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch Mtd.
Rad Gamma Spec Analysis											
<i>Gammascpec, Gamma, Solid-GAM2, ALL2</i>											
Actinium-228		0.437	+/-0.478	0.175	+/-0.468	0.363	pCi/g		SRB	05/05/04	2016 328906 1
Americium-241	U	-0.00108	+/-0.0539	0.0349	+/-0.0528	0.0714	pCi/g				
Bismuth-212	U	0.281	+/-0.482	0.370	+/-0.472	0.766	pCi/g				
Bismuth-214		0.374	+/-0.226	0.0781	+/-0.222	0.162	pCi/g				
Cesium-134	U	0.0242	+/-0.0965	0.0556	+/-0.0946	0.115	pCi/g				
Cesium-137		0.102	+/-0.098	0.0442	+/-0.096	0.0915	pCi/g				
Cobalt-60		0.153	+/-0.0932	0.0602	+/-0.0913	0.126	pCi/g				
Europium-152	U	0.0671	+/-0.125	0.0969	+/-0.122	0.199	pCi/g				
Europium-154	U	0.0359	+/-0.274	0.147	+/-0.268	0.308	pCi/g				
Europium-155	U	0.0291	+/-0.0925	0.0673	+/-0.0906	0.138	pCi/g				
Lead-212		0.399	+/-0.128	0.0484	+/-0.125	0.0992	pCi/g				
Lead-214		0.298	+/-0.198	0.0712	+/-0.194	0.146	pCi/g				
Manganese-54	U	-0.0349	+/-0.060	0.0459	+/-0.0588	0.0956	pCi/g				
Niobium-94	U	0.0243	+/-0.0626	0.0436	+/-0.0614	0.090	pCi/g				
Potassium-40		4.95	+/-1.77	0.502	+/-1.73	1.06	pCi/g				
Radium-226		0.374	+/-0.226	0.0781	+/-0.222	0.162	pCi/g				
Silver-108m	U	-0.0169	+/-0.0451	0.0339	+/-0.0442	0.070	pCi/g				
Thallium-208		0.210	+/-0.118	0.0432	+/-0.115	0.0892	pCi/g				

Solid Preparation

Laboratory Composite

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	04/27/04	1554	328473
GL-RAD-A-026	Laboratory sample composite	AWB	04/27/04	1522	328472

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	GL-RAD-A-026

Notes:

The Qualifiers in this report are defined as follows :

GENERAL ENGINEERING LABORATORIES, LLC
 2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : Haddam Neck Plant
 362 Injun Hollow Road
 East Hampton, Connecticut 06424
 Contact: Mr. Pete Hollenbeck
 Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 2 of 2

Client Sample ID: 3100-0000-179-C-1C-02 Project: YANK00204
 Sample ID: 111637002 Client ID: YANK001

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch Mtd.
-----------	-----------	--------	-------------	----	-----	-----	-------	----	-------------	------	------------

- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Sarah Kozlik.

Aileen J. ...

Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : Haddam Neck Plant
 362 Injun Hollow Road
 East Hampton, Connecticut 06424
 Contact: Mr. Pete Hollenbeck
 Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 1 of 2

Client Sample ID:	3100-0000-175-C-1C-01	Project:	YANK00204
Sample ID:	111637003	Client ID:	YANK001
Matrix:	Misc Solid		
Collect Date:	25-MAR-04		
Receive Date:	27-APR-04		
Collector:	Client		
Moisture:	5.07%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch Mtd.
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid-GAM2, ALL2</i>												
Actinium-228	U	0.178	+/-0.329	0.199	+/-0.322	0.411	pCi/g		SRB	05/05/04	2113	328906 1
Americium-241	U	0.174	+/-0.249	0.132	+/-0.244	0.269	pCi/g					
Bismuth-212	U	0.232	+/-0.590	0.343	+/-0.578	0.710	pCi/g					
Bismuth-214		0.381	+/-0.173	0.0868	+/-0.170	0.179	pCi/g					
Cesium-134	U	0.00	+/-0.110	0.0545	+/-0.108	0.113	pCi/g					
	UI											
Cesium-137		34.9	+/-4.37	0.0465	+/-4.28	0.0959	pCi/g					
Cobalt-60		7.78	+/-0.669	0.043	+/-0.656	0.0915	pCi/g					
Europium-152	U	-0.11	+/-0.163	0.123	+/-0.160	0.251	pCi/g					
Europium-154	U	0.0152	+/-0.148	0.117	+/-0.145	0.248	pCi/g					
Europium-155	U	-0.0455	+/-0.121	0.0856	+/-0.119	0.175	pCi/g					
Lead-212		0.430	+/-0.134	0.0646	+/-0.131	0.132	pCi/g					
Lead-214		0.254	+/-0.196	0.0962	+/-0.192	0.196	pCi/g					
Manganese-54	U	-0.00119	+/-0.0627	0.0497	+/-0.0614	0.103	pCi/g					
Niobium-94	U	-0.0323	+/-0.0492	0.0358	+/-0.0482	0.0743	pCi/g					
Potassium-40		7.36	+/-1.37	0.303	+/-1.34	0.662	pCi/g					
Radium-226		0.381	+/-0.173	0.0868	+/-0.170	0.179	pCi/g					
Silver-108m	U	-0.0398	+/-0.072	0.0542	+/-0.0706	0.110	pCi/g					
Thallium-208	U	0.0936	+/-0.0927	0.0533	+/-0.0908	0.109	pCi/g					

Solid Preparation

Laboratory Composite

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	04/27/04	1554	328473
GL-RAD-A-026	Laboratory sample composite	AWB	04/27/04	1522	328472

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	GL-RAD-A-026

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : Haddam Neck Plant
362 Injun Hollow Road
East Hampton, Connecticut 06424
Contact: Mr. Pete Hollenbeck
Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 2 of 2

Client Sample ID: 3100-0000-175-C-1C-01
Sample ID: 111637003

Project: YANK00204
Client ID: YANK001

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch Mtd.
-----------	-----------	--------	-------------	----	-----	-----	-------	----	-------------	------	------------

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Sarah Kozlik.

Heather Cervoni
Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : Haddam Neck Plant
 362 Injun Hollow Road
 East Hampton, Connecticut 06424
 Contact: Mr. Pete Hollenbeck
 Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 1 of 2

Client Sample ID: 3100-0000-175-C-1C-02 Project: YANK00204
 Sample ID: 111637004 Client ID: YANK001
 Matrix: Misc Solid
 Collect Date: 25-MAR-04
 Receive Date: 27-APR-04
 Collector: Client
 Moisture: 6.09%

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch	Mtd.
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid-GAM2,ALL2</i>												
Actinium-228	U	0.00	+/-0.267	0.158	+/-0.262	0.331	pCi/g	SRB	05/05/04	2252	328906	1
	UI											
Americium-241	U	0.0396	+/-0.0967	0.0707	+/-0.0948	0.147	pCi/g					
Bismuth-212		0.686	+/-0.395	0.207	+/-0.387	0.441	pCi/g					
Bismuth-214		0.411	+/-0.158	0.0431	+/-0.155	0.0917	pCi/g					
Cesium-134	U	0.039	+/-0.0353	0.0299	+/-0.0346	0.0639	pCi/g					
Cesium-137	U	0.0246	+/-0.0665	0.0241	+/-0.0652	0.0516	pCi/g					
Cobalt-60	U	0.00969	+/-0.0352	0.0294	+/-0.0345	0.065	pCi/g					
Europium-152	U	-0.0381	+/-0.0744	0.0525	+/-0.0729	0.111	pCi/g					
Europium-154	U	-0.0152	+/-0.107	0.0801	+/-0.104	0.176	pCi/g					
Europium-155	U	-0.0445	+/-0.0686	0.0486	+/-0.0673	0.101	pCi/g					
Lead-212		0.498	+/-0.0938	0.0311	+/-0.0919	0.0646	pCi/g					
Lead-214		0.383	+/-0.114	0.0393	+/-0.112	0.0825	pCi/g					
Manganese-54	U	0.0167	+/-0.0346	0.0279	+/-0.0339	0.0598	pCi/g					
Niobium-94	U	-0.00119	+/-0.0291	0.0226	+/-0.0285	0.0482	pCi/g					
Potassium-40		6.20	+/-1.29	0.297	+/-1.26	0.656	pCi/g					
Radium-226		0.411	+/-0.158	0.0431	+/-0.155	0.0917	pCi/g					
Silver-108m	U	0.0128	+/-0.0297	0.0201	+/-0.0291	0.0423	pCi/g					
Thallium-208		0.134	+/-0.0845	0.0219	+/-0.0828	0.0467	pCi/g					

Solid Preparation

Laboratory Composite

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	04/27/04	1554	328473
GL-RAD-A-026	Laboratory sample composite	AWB	04/27/04	1522	328472

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	GL-RAD-A-026

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : Haddam Neck Plant
362 Injun Hollow Road
East Hampton, Connecticut 06424
Contact: Mr. Pete Hollenbeck
Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 2 of 2

Client Sample ID: 3100-0000-175-C-1C-02
Sample ID: 111637004

Project: YANK00204
Client ID: YANK001

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch Mtd.
-----------	-----------	--------	-------------	----	-----	-----	-------	----	-------------	------	------------

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Sarah Kozlik.

Heather C. C. C.
Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : Haddam Neck Plant
 362 Injun Hollow Road
 East Hampton, Connecticut 06424
 Contact: Mr. Pete Hollenbeck
 Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 1 of 3

Client Sample ID:	3100-0000-179-C-4C-01	Project:	YANK00204
Sample ID:	111637005	Client ID:	YANK001
Matrix:	Misc Solid		
Collect Date:	01-APR-04		
Receive Date:	27-APR-04		
Collector:	Client		
Moisture:	5.59%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch Mtd.
Rad Alpha Spec Analysis											
<i>Alphaspec Am241, Cm, Solid-TRU2, ALL2</i>											
Americium-241	U	-0.00716	+/-0.0149	0.0211	+/-0.0149	0.0589	pCi/g		JAS1 05/04/04	1231	328693 1
Curium-242	U	-0.00854	+/-0.00749	0.0181	+/-0.00756	0.0556	pCi/g				
Curium-243/244	U	0.00396	+/-0.0266	0.0264	+/-0.0266	0.0696	pCi/g				
<i>Alphaspec Pu, Solid-TRU2, ALL2</i>											
Plutonium-238		0.00765	+/-0.00866	0.00	+/-0.00868	0.00691	pCi/g		JAS1 05/03/04	2216	328694 2
Plutonium-239/240	U	0.00636	+/-0.00901	0.00421	+/-0.00902	0.0153	pCi/g				
<i>Liquid Scint Pu241, Solid-TRU2, ALL2</i>											
Plutonium-241	U	-0.286	+/-1.64	1.38	+/-1.64	2.83	pCi/g		JAS1 05/05/04	1854	328695 3
Rad Gamma Spec Analysis											
<i>GammaSpec, Gamma, Solid-GAM2, ALL2</i>											
Actinium-228		0.549	+/-0.245	0.0878	+/-0.240	0.190	pCi/g		SRB 05/05/04	2253	328906 4
Americium-241	U	0.0518	+/-0.179	0.111	+/-0.175	0.231	pCi/g				
Bismuth-212	U	0.0904	+/-0.351	0.182	+/-0.344	0.391	pCi/g				
Bismuth-214		0.435	+/-0.139	0.043	+/-0.137	0.0913	pCi/g				
Cesium-134	U	0.0554	+/-0.0618	0.0311	+/-0.0606	0.0661	pCi/g				
Cesium-137	U	0.0446	+/-0.0334	0.028	+/-0.0327	0.0592	pCi/g				
Cobalt-60	U	0.0241	+/-0.0392	0.030	+/-0.0384	0.0658	pCi/g				
Europium-152	U	0.0207	+/-0.0791	0.0588	+/-0.0776	0.123	pCi/g				
Europium-154	U	-0.0809	+/-0.106	0.0766	+/-0.104	0.169	pCi/g				
Europium-155	U	0.0156	+/-0.0785	0.0583	+/-0.077	0.121	pCi/g				
Lead-212		0.507	+/-0.0952	0.0311	+/-0.0933	0.0646	pCi/g				
Lead-214		0.559	+/-0.143	0.0428	+/-0.140	0.0895	pCi/g				
Manganese-54	U	-0.0028	+/-0.0342	0.0261	+/-0.0336	0.0558	pCi/g				
Niobium-94	U	-0.0142	+/-0.0314	0.0234	+/-0.0308	0.0496	pCi/g				
Potassium-40		6.20	+/-1.19	0.246	+/-1.17	0.551	pCi/g				
Radium-226		0.435	+/-0.139	0.043	+/-0.137	0.0913	pCi/g				
Silver-108m	U	7.570E-05	+/-0.0261	0.0204	+/-0.0256	0.043	pCi/g				
Thallium-208		0.132	+/-0.0697	0.0232	+/-0.0683	0.0492	pCi/g				
Rad Gas Flow Proportional Counting											
<i>GFPC, Sr90, solid-HTD2, ALL2</i>											
Strontium-90	U	-0.0014	+/-0.0064	0.0063	+/-0.0065	0.0132	pCi/g		HOB1 05/05/04	0521	328553 5
Rad Liquid Scintillation Analysis											
<i>LSC, Tritium Dist, Solid-HTD2, ALL2</i>											
Tritium	U	2.35	+/-1.74	1.38	+/-1.75	2.76	pCi/g		CTO1 05/05/04	1020	328815 6
<i>Liquid Scint C14, Solid-HTD2, ALL2</i>											

GENERAL ENGINEERING LABORATORIES, LLC
 2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : Haddam Neck Plant
 362 Injun Hollow Road
 East Hampton, Connecticut 06424
 Contact: Mr. Pete Hollenbeck
 Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 2 of 3

Client Sample ID: 3100-0000-179-C-4C-01 Project: YANK00204
 Sample ID: 111637005 Client ID: YANK001

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch Mtd.
Rad Liquid Scintillation Analysis												
<i>Liquid Scint C14, Solid-HTD2,ALL2</i>												
Carbon-14	U	-0.211	+/-0.285	0.244	+/-0.285	0.497	pCi/g	CTO1	04/30/04	1858	328843	7
Solid Preparation												
<i>Laboratory Composite</i>												

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	BSW1	04/28/04	1645	328490
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	04/27/04	1554	328473
GL-RAD-A-026	Laboratory sample composite	AWB	04/27/04	1522	328472

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, Am-05-RC Modified
2	DOE EML HASL-300, Pu-11-RC Modified
3	DOE EML HASL-300, Pu-11-RC Modified
4	EML HASL 300, 4.5.2.3
5	EPA 905.0 Modified
6	EPA 906.0 Modified
7	EPA EERF C-01 Modified
8	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Americium-243	Alphaspec Am241, Cm, Solid-TR1	88	(25%-125%)
Plutonium-242	Alphaspec Pu, Solid-TRU2,ALL2	94	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Pu241, Solid-TRU2,A	79	
Carrier/Tracer Recovery	GFPC, Sr90, solid-HTD2,ALL2	73	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : Haddam Neck Plant
362 Injun Hollow Road
East Hampton, Connecticut 06424
Contact: Mr. Pete Hollenbeck
Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 3 of 3

Client Sample ID: 3100-0000-179-C-4C-01
Sample ID: 111637005

Project: YANK00204
Client ID: YANK001

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch Mtd.
-----------	-----------	--------	-------------	----	-----	-----	-------	----	-------------	------	------------

- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Sarah Kozlik.

Alexander W. C. D.

Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : Haddam Neck Plant
 362 Injun Hollow Road
 East Hampton, Connecticut 06424
 Contact : Mr. Pete Hollenbeck
 Project : Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 1 of 3

Client Sample ID:	3100-0000-179-C-4C-02	Project:	YANK00204
Sample ID:	111637006	Client ID:	YANK001
Matrix:	Misc Solid		
Collect Date:	01-APR-04		
Receive Date:	27-APR-04		
Collector:	Client		
Moisture:	6.44%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch Mtd.
Rad Alpha Spec Analysis											
<i>Alphaspec Am241, Cm, Solid-TRU2,ALL2</i>											
Americium-241	U	0.000458	+/-0.0176	0.0185	+/-0.0176	0.0525	pCi/g		JAS1 05/04/04	1231	328693 1
Curium-242	U	-0.00317	+/-0.0137	0.0106	+/-0.0137	0.0392	pCi/g				
Curium-243/244	U	-0.00345	+/-0.0221	0.0254	+/-0.0221	0.0663	pCi/g				
<i>Alphaspec Pu, Solid-TRU2,ALL2</i>											
Plutonium-238	U	0.00791	+/-0.0112	0.00524	+/-0.0112	0.0191	pCi/g		JAS1 05/03/04	2216	328694 2
Plutonium-239/240	U	0.00314	+/-0.00984	0.00741	+/-0.00984	0.0234	pCi/g				
<i>Liquid Scint Pu241, Solid-TRU2,ALL2</i>											
Plutonium-241	U	-0.286	+/-2.38	2.00	+/-2.38	4.09	pCi/g		JAS1 05/05/04	1941	328695 3
Rad Gamma Spec Analysis											
<i>GammaSpec, Gamma, Solid-GAM2,ALL2</i>											
Actinium-228		0.410	+/-0.286	0.106	+/-0.280	0.227	pCi/g		SRB 05/05/04	2254	328906 4
Americium-241	U	0.0326	+/-0.186	0.119	+/-0.183	0.245	pCi/g				
Bismuth-212	U	0.0259	+/-0.528	0.229	+/-0.518	0.484	pCi/g				
Bismuth-214		0.465	+/-0.147	0.0556	+/-0.144	0.117	pCi/g				
Cesium-134	U	0.0307	+/-0.0391	0.0315	+/-0.0383	0.067	pCi/g				
Cesium-137		0.0821	+/-0.0526	0.0263	+/-0.0516	0.0557	pCi/g				
Cobalt-60	U	0.00	+/-0.0609	0.0398	+/-0.0597	0.0858	pCi/g				
	UI										
Europium-152	U	-0.0682	+/-0.0797	0.0583	+/-0.0782	0.122	pCi/g				
Europium-154	U	-0.0524	+/-0.119	0.0893	+/-0.116	0.195	pCi/g				
Europium-155	U	0.0584	+/-0.0803	0.0587	+/-0.0787	0.122	pCi/g				
Lead-212		0.598	+/-0.0976	0.0303	+/-0.0957	0.0631	pCi/g				
Lead-214		0.445	+/-0.136	0.0442	+/-0.134	0.0923	pCi/g				
Manganese-54	U	0.011	+/-0.0393	0.0304	+/-0.0385	0.0646	pCi/g				
Niobium-94	U	-0.0158	+/-0.0323	0.0236	+/-0.0317	0.0501	pCi/g				
Potassium-40		7.18	+/-1.15	0.279	+/-1.13	0.619	pCi/g				
Radium-226		0.465	+/-0.147	0.0556	+/-0.144	0.117	pCi/g				
Silver-108m	U	-0.00831	+/-0.0275	0.0206	+/-0.0269	0.0434	pCi/g				
Thallium-208		0.197	+/-0.0623	0.0259	+/-0.0611	0.0548	pCi/g				
Rad Gas Flow Proportional Counting											
<i>GFPC, Sr90, solid-HTD2,ALL2</i>											
Strontium-90		0.0183	+/-0.0079	0.0066	+/-0.0097	0.0138	pCi/g		HOB1 05/05/04	0521	328553 5
Rad Liquid Scintillation Analysis											
<i>LSC, Tritium Dist, Solid-HTD2,ALL2</i>											
Tritium		9.34	+/-2.02	1.39	+/-2.13	2.78	pCi/g		CTO1 05/02/04	0833	328815 6

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : Haddam Neck Plant
 362 Injun Hollow Road
 East Hampton, Connecticut 06424
 Contact: Mr. Pete Hollenbeck
 Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 2 of 3

Client Sample ID: 3100-0000-179-C-4C-02 Project: YANK00204
 Sample ID: 111637006 Client ID: YANK001

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch Mtd.
Rad Liquid Scintillation Analysis											
<i>Liquid Scint C14, Solid-HTD2,ALL2</i>											
Carbon-14	U	-0.19	+/-0.316	0.269	+/-0.316	0.550	pCi/g		CTO1 04/30/04	2000	328843 7
Solid Preparation											
<i>Laboratory Composite</i>											

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	BSW1	04/28/04	1645	328490
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	04/27/04	1554	328473
GL-RAD-A-026	Laboratory sample composite	AWB	04/27/04	1522	328472

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, Am-05-RC Modified
2	DOE EML HASL-300, Pu-11-RC Modified
3	DOE EML HASL-300, Pu-11-RC Modified
4	EML HASL 300, 4.5.2.3
5	EPA 905.0 Modified
6	EPA 906.0 Modified
7	EPA EERF C-01 Modified
8	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Americium-243	Alphaspec Am241, Cm, Solid-TR1	97	(25%-125%)
Plutonium-242	Alphaspec Pu, Solid-TRU2,ALL2	76	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Pu241, Solid-TRU2,A	54	
Carrier/Tracer Recovery	GFPC, Sr90, solid-HTD2,ALL2	72	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : Haddam Neck Plant
362 Injun Hollow Road
East Hampton, Connecticut 06424
Contact: Mr. Pete Hollenbeck
Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 3 of 3

Client Sample ID: 3100-0000-179-C-4C-02
Sample ID: 111637006

Project: YANK00204
Client ID: YANK001

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch Mtd.
-----------	-----------	--------	-------------	----	-----	-----	-------	----	-------------	------	------------

- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Sarah Kozlik.

Heather G. Lee

Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : Haddam Neck Plant
362 Injun Hollow Road
East Hampton, Connecticut 06424
Contact: Mr. Pete Hollenbeck
Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 1 of 3

Client Sample ID:	3100-0000-175-C-4C-01	Project:	YANK00204
Sample ID:	111637007	Client ID:	YANK001
Matrix:	Misc Solid		
Collect Date:	29-MAR-04		
Receive Date:	27-APR-04		
Collector:	Client		
Moisture:	5.37%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch	Mtd.
Rad Alpha Spec Analysis												
<i>Alphaspec Am241, Cm, Solid-TRU2,ALL2</i>												
Americium-241	U	0.00866	+/-0.0162	0.00918	+/-0.0163	0.0338	pCi/g		JASI 05/04/04	1331	328693	1
Curium-242	U	-0.0016	+/-0.00313	0.00758	+/-0.00314	0.0332	pCi/g					
Curium-243/244	U	0.013	+/-0.0199	0.0113	+/-0.020	0.038	pCi/g					
<i>Alphaspec Pu, Solid-TRU2,ALL2</i>												
Plutonium-238	U	-0.0135	+/-0.00798	0.0133	+/-0.00805	0.0332	pCi/g		JASI 05/03/04	2237	328694	2
Plutonium-239/240	U	0.00356	+/-0.0124	0.0106	+/-0.0124	0.0278	pCi/g					
<i>Liquid Scint Pu241, Solid-TRU2,ALL2</i>												
Plutonium-241	U	-0.569	+/-1.52	1.29	+/-1.52	2.63	pCi/g		JASI 05/05/04	2028	328695	3
Rad Gamma Spec Analysis												
<i>Gammasespec, Gamma, Solid-GAM2,ALL2</i>												
Actinium-228	U	0.00	+/-0.267	0.164	+/-0.262	0.342	pCi/g		SRB 05/05/04	2257	328906	4
	UI											
Americium-241	U	-0.0177	+/-0.136	0.084	+/-0.134	0.173	pCi/g					
Bismuth-212	U	0.242	+/-0.302	0.240	+/-0.296	0.506	pCi/g					
Bismuth-214		0.368	+/-0.130	0.0528	+/-0.128	0.111	pCi/g					
Cesium-134	U	0.00123	+/-0.0402	0.0304	+/-0.0394	0.0648	pCi/g					
Cesium-137		0.104	+/-0.0572	0.0264	+/-0.056	0.056	pCi/g					
Cobalt-60	U	0.0351	+/-0.0446	0.0378	+/-0.0437	0.0813	pCi/g					
Europium-152	U	-0.0168	+/-0.0898	0.0676	+/-0.088	0.141	pCi/g					
Europium-154	U	0.0461	+/-0.105	0.0865	+/-0.103	0.189	pCi/g					
Europium-155	U	0.0453	+/-0.0826	0.0591	+/-0.081	0.122	pCi/g					
Lead-212		0.536	+/-0.103	0.0341	+/-0.101	0.0708	pCi/g					
Lead-214		0.518	+/-0.133	0.0468	+/-0.130	0.0975	pCi/g					
Manganese-54	U	-0.0254	+/-0.0375	0.0283	+/-0.0367	0.0603	pCi/g					
Niobium-94	U	0.00503	+/-0.0343	0.0262	+/-0.0336	0.0552	pCi/g					
Potassium-40		7.86	+/-1.31	0.298	+/-1.28	0.654	pCi/g					
Radium-226		0.368	+/-0.130	0.0528	+/-0.128	0.111	pCi/g					
Silver-108m	U	-0.0234	+/-0.0312	0.0226	+/-0.0306	0.0474	pCi/g					
Thallium-208		0.200	+/-0.0817	0.026	+/-0.0801	0.0549	pCi/g					
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid-HTD2,ALL2</i>												
Strontium-90	U	0.0056	+/-0.007	0.0065	+/-0.0072	0.0135	pCi/g		HOB1 05/05/04	0521	328553	5
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid-HTD2,ALL2</i>												
Tritium		6.11	+/-1.91	1.40	+/-1.96	2.80	pCi/g		CTO1 05/02/04	0905	328815	6

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : Haddam Neck Plant
 362 Injun Hollow Road
 East Hampton, Connecticut 06424
 Contact: Mr. Pete Hollenbeck
 Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 2 of 3

Client Sample ID: 3100-0000-175-C-4C-01 Project: YANK00204
 Sample ID: 111637007 Client ID: YANK001

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis												
<i>Liquid Scint C14, Solid-HTD2,ALL2</i>												
Carbon-14	U	-0.105	+/-0.252	0.213	+/-0.252	0.436	pCi/g		CTO1 04/30/04	2102	328843	7
Solid Preparation												
<i>Laboratory Composite</i>												

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	BSW1	04/28/04	1645	328490
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	04/27/04	1554	328473
GL-RAD-A-026	Laboratory sample composite	AWB	04/27/04	1522	328472

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, Am-05-RC Modified
2	DOE EML HASL-300, Pu-11-RC Modified
3	DOE EML HASL-300, Pu-11-RC Modified
4	EML HASL 300, 4.5.2.3
5	EPA 905.0 Modified
6	EPA 906.0 Modified
7	EPA EERF C-01 Modified
8	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Americium-243	Alphaspec Am241, Cm, Solid-TR1	81	(25%-125%)
Plutonium-242	Alphaspec Pu, Solid-TRU2,ALL2	96	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Pu241, Solid-TRU2,A	85	
Carrier/Tracer Recovery	GFPC, Sr90, solid-HTD2,ALL2	74	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : Haddam Neck Plant
362 Injun Hollow Road
East Hampton, Connecticut 06424
Contact: Mr. Pete Hollenbeck
Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 3 of 3

Client Sample ID: 3100-0000-175-C-4C-01
Sample ID: 111637007

Project: YANK00204
Client ID: YANK001

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch Mtd.
-----------	-----------	--------	-------------	----	-----	-----	-------	----	-------------	------	------------

- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Sarah Kozlik.

Heritney G. C. O.
Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : Haddam Neck Plant
 362 Injun Hollow Road
 East Hampton, Connecticut 06424
 Contact: Mr. Pete Hollenbeck
 Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 1 of 3

Client Sample ID:	3100-0000-175-C-4C-02	Project:	YANK00204
Sample ID:	111637008	Client ID:	YANK001
Matrix:	Misc Solid		
Collect Date:	29-MAR-04		
Receive Date:	27-APR-04		
Collector:	Client		
Moisture:	5.42%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch Mtd.
Rad Alpha Spec Analysis												
<i>Alphaspec Am241, Cm, Solid-TRU2, ALL2</i>												
Americium-241	U	-0.0129	+/-0.00842	0.0204	+/-0.00857	0.057	pCi/g		JAS1	05/04/04	1331	328693 1
Curium-242	U	-0.00335	+/-0.00464	0.0112	+/-0.00466	0.0414	pCi/g					
Curium-243/244	U	-0.00407	+/-0.0139	0.0181	+/-0.0139	0.0523	pCi/g					
<i>Alphaspec Pu, Solid-TRU2, ALL2</i>												
Plutonium-238	U	-0.000109	+/-0.0131	0.0127	+/-0.0131	0.0328	pCi/g		JAS1	05/03/04	2237	328694 2
Plutonium-239/240	U	-0.000109	+/-0.0131	0.0127	+/-0.0131	0.0328	pCi/g					
<i>Liquid Scint Pu241, Solid-TRU2, ALL2</i>												
Plutonium-241	U	-0.624	+/-1.61	1.37	+/-1.61	2.79	pCi/g		JAS1	05/05/04	2116	328695 3
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid-GAM2, ALL2</i>												
Actinium-228		0.531	+/-0.243	0.0846	+/-0.238	0.178	pCi/g		SRB	05/05/04	2309	328906 4
Americium-241	U	-0.159	+/-0.182	0.119	+/-0.178	0.245	pCi/g					
Bismuth-212		0.696	+/-0.458	0.188	+/-0.449	0.393	pCi/g					
Bismuth-214		0.343	+/-0.140	0.0485	+/-0.137	0.101	pCi/g					
Cesium-134	U	0.0444	+/-0.0357	0.0292	+/-0.035	0.061	pCi/g					
Cesium-137	U	0.0526	+/-0.0424	0.0257	+/-0.0416	0.0535	pCi/g					
Cobalt-60	U	0.0403	+/-0.0352	0.0304	+/-0.0345	0.0646	pCi/g					
Europium-152	U	-0.0533	+/-0.0805	0.0578	+/-0.0789	0.120	pCi/g					
Europium-154	U	-0.0138	+/-0.113	0.0764	+/-0.111	0.163	pCi/g					
Europium-155	U	0.064	+/-0.122	0.0653	+/-0.119	0.134	pCi/g					
Lead-212		0.551	+/-0.0978	0.0317	+/-0.0958	0.0653	pCi/g					
Lead-214		0.485	+/-0.141	0.0402	+/-0.138	0.0832	pCi/g					
Manganese-54	U	0.00643	+/-0.0352	0.0275	+/-0.0345	0.0574	pCi/g					
Niobium-94	U	0.0178	+/-0.0293	0.0234	+/-0.0287	0.0486	pCi/g					
Potassium-40		7.23	+/-1.19	0.261	+/-1.17	0.560	pCi/g					
Radium-226		0.343	+/-0.140	0.0485	+/-0.137	0.101	pCi/g					
Silver-108m	U	0.00672	+/-0.027	0.0202	+/-0.0264	0.0419	pCi/g					
Thallium-208		0.154	+/-0.0658	0.0231	+/-0.0645	0.0482	pCi/g					
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid-HTD2, ALL2</i>												
Strontium-90	U	0.0057	+/-0.0066	0.0061	+/-0.0068	0.0127	pCi/g		HOB1	05/05/04	0654	328553 5
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid-HTD2, ALL2</i>												
Tritium		4.50	+/-1.85	1.40	+/-1.87	2.79	pCi/g		CTO1	05/02/04	0937	328815 6
<i>Liquid Scint C14, Solid-HTD2, ALL2</i>												

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : Haddam Neck Plant
 362 Injun Hollow Road
 East Hampton, Connecticut 06424
 Contact: Mr. Pete Hollenbeck
 Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 2 of 3

Client Sample ID: 3100-0000-175-C-4C-02 Project: YANK00204
 Sample ID: 111637008 Client ID: YANK001

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch Mtd.
Rad Liquid Scintillation Analysis											
<i>Liquid Scint C14, Solid-HTD2,ALL2</i>											
Carbon-14	U	-0.106	+/-0.315	0.267	+/-0.315	0.544	pCi/g		CTO1 04/30/04	2203	328843 7
Solid Preparation											
<i>Laboratory Composite</i>											

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	BSW1	04/28/04	1645	328490
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	04/27/04	1554	328473
GL-RAD-A-026	Laboratory sample composite	AWB	04/27/04	1522	328472

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, Am-05-RC Modified
2	DOE EML HASL-300, Pu-11-RC Modified
3	DOE EML HASL-300, Pu-11-RC Modified
4	EML HASL 300, 4.5.2.3
5	EPA 905.0 Modified
6	EPA 906.0 Modified
7	EPA EERF C-01 Modified
8	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Americium-243	Alphaspec Am241, Cm, Solid-TR1	80	(25%-125%)
Plutonium-242	Alphaspec Pu, Solid-TRU2,ALL2	94	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Pu241, Solid-TRU2,A	75	
Carrier/Tracer Recovery	GFPC, Sr90, solid-HTD2,ALL2	73	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : Haddam Neck Plant
362 Injun Hollow Road
East Hampton, Connecticut 06424
Contact: Mr. Pete Hollenbeck
Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 3 of 3

Client Sample ID: 3100-0000-175-C-4C-02
Sample ID: 111637008

Project: YANK00204
Client ID: YANK001

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch Mtd.
-----------	-----------	--------	-------------	----	-----	-----	-------	----	-------------	------	------------

- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
 - U Indicates the target analyte was analyzed for but not detected above the detection limit.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Sarah Kozlik.

Heather Gowdle

Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : Haddam Neck Plant
 362 Injun Hollow Road
 East Hampton, Connecticut 06424
 Contact: Mr. Pete Hollenbeck
 Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 1 of 2

Client Sample ID: 3100-0000-179-C-9C-01 Project: YANK00204
 Sample ID: 111637009 Client ID: YANK001
 Matrix: Misc Solid
 Collect Date: 06-APR-04
 Receive Date: 27-APR-04
 Collector: Client
 Moisture: 4.23%

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch Mtd.
Rad Gamma Spec Analysis												
<i>GammaSpec, Gamma, Solid-GAM2, ALL2</i>												
Actinium-228	U	0.00	+/-0.389	0.191	+/-0.381	0.402	pCi/g		SRB	05/05/04	2319	328906 1
	UI											
Americium-241	U	0.106	+/-0.328	0.161	+/-0.321	0.334	pCi/g					
Bismuth-212		0.675	+/-0.479	0.270	+/-0.469	0.575	pCi/g					
Bismuth-214		0.443	+/-0.237	0.0597	+/-0.233	0.127	pCi/g					
Cesium-134	U	0.0763	+/-0.0726	0.0433	+/-0.0711	0.092	pCi/g					
Cesium-137	U	0.0245	+/-0.0455	0.0357	+/-0.0446	0.0757	pCi/g					
Cobalt-60	U	0.0117	+/-0.0622	0.0437	+/-0.0609	0.0955	pCi/g					
Europium-152	U	0.0836	+/-0.125	0.0871	+/-0.123	0.182	pCi/g					
Europium-154	U	-0.14	+/-0.146	0.101	+/-0.143	0.224	pCi/g					
Europium-155	U	0.0901	+/-0.117	0.0832	+/-0.115	0.172	pCi/g					
Lead-212		0.698	+/-0.165	0.045	+/-0.162	0.0935	pCi/g					
Lead-214		0.471	+/-0.177	0.0606	+/-0.174	0.127	pCi/g					
Manganese-54	U	0.0317	+/-0.0444	0.0371	+/-0.0435	0.0793	pCi/g					
Niobium-94	U	0.00711	+/-0.0426	0.0325	+/-0.0418	0.0689	pCi/g					
Potassium-40		6.66	+/-1.55	0.382	+/-1.52	0.845	pCi/g					
Radium-226		0.443	+/-0.237	0.0597	+/-0.233	0.127	pCi/g					
Silver-108m	U	-0.00628	+/-0.0374	0.0279	+/-0.0367	0.0588	pCi/g					
Thallium-208		0.162	+/-0.0915	0.033	+/-0.0897	0.070	pCi/g					
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid-HTD2, ALL2</i>												
Strontium-90	U	0.0054	+/-0.0071	0.0065	+/-0.0073	0.0136	pCi/g		HOB1	05/05/04	0654	328553 2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid-HTD2, ALL2</i>												
Tritium	U	1.70	+/-1.85	1.49	+/-1.85	2.98	pCi/g		CTO1	05/02/04	1009	328815 3
Solid Preparation												
<i>Laboratory Composite</i>												

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	BSW1	04/28/04	1645	328490
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	04/27/04	1554	328473
GL-RAD-A-026	Laboratory sample composite	AWB	04/27/04	1522	328472

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : Haddam Neck Plant
362 Injun Hollow Road
East Hampton, Connecticut 06424
Contact: Mr. Pete Hollenbeck
Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 2 of 2

Client Sample ID: 3100-0000-179-C-9C-01
Sample ID: 111637009
Project: YANK00204
Client ID: YANK001

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch Mtd.
-----------	-----------	--------	-------------	----	-----	-----	-------	----	-------------	------	------------

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid-HTD2,ALL2	71	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Sarah Kozlik.

Arcadio Celso

Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : Haddam Neck Plant
362 Injun Hollow Road
East Hampton, Connecticut 06424
Contact: Mr. Pete Hollenbeck
Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 1 of 2

Client Sample ID: 3100-0000-179-C-12C-01 Project: YANK00204
Sample ID: 111637010 Client ID: YANK001
Matrix: Misc Solid
Collect Date: 06-APR-04
Receive Date: 27-APR-04
Collector: Client
Moisture: 5.59%

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gamma Spec Analysis													
<i>GammaSpec, Gamma, Solid-GAM2, ALL2</i>													
Actinium-228	U	0.00	+/-0.253	0.131	+/-0.248	0.274	pCi/g		SRB	05/05/04	2320	328906	1
	UI												
Americium-241	U	0.0846	+/-0.116	0.0729	+/-0.114	0.151	pCi/g						
Bismuth-212	U	0.215	+/-0.232	0.188	+/-0.228	0.399	pCi/g						
Bismuth-214	U	0.00	+/-0.108	0.0675	+/-0.106	0.140	pCi/g						
	UI												
Cesium-134	U	-0.00571	+/-0.0352	0.0262	+/-0.0345	0.0559	pCi/g						
Cesium-137	U	0.0285	+/-0.0301	0.0244	+/-0.0295	0.0514	pCi/g						
Cobalt-60	U	0.00927	+/-0.0366	0.0295	+/-0.0359	0.0641	pCi/g						
Europium-152	U	-0.00768	+/-0.0649	0.0464	+/-0.0636	0.0975	pCi/g						
Europium-154	U	-0.0908	+/-0.0919	0.0626	+/-0.0901	0.139	pCi/g						
Europium-155	U	0.00649	+/-0.059	0.0434	+/-0.0579	0.0898	pCi/g						
Lead-212		0.300	+/-0.0748	0.0315	+/-0.0733	0.0651	pCi/g						
Lead-214		0.321	+/-0.0917	0.0357	+/-0.0899	0.0747	pCi/g						
Manganese-54	U	0.0199	+/-0.0296	0.0237	+/-0.029	0.0506	pCi/g						
Niobium-94	U	0.0176	+/-0.0276	0.0219	+/-0.0271	0.0464	pCi/g						
Potassium-40		6.91	+/-1.15	0.259	+/-1.12	0.570	pCi/g						
Radium-226		0.287	+/-0.108	0.0356	+/-0.106	0.0758	pCi/g						
Silver-108m	U	0.0137	+/-0.0224	0.0179	+/-0.0219	0.0377	pCi/g						
Thallium-208	U	0.00	+/-0.0573	0.0311	+/-0.0561	0.0647	pCi/g						
	UI												
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid-HTD2, ALL2</i>													
Strontium-90	U	-0.0007	+/-0.0077	0.0075	+/-0.0077	0.0156	pCi/g		HOB1	05/05/04	0654	328553	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2, ALL2</i>													
Tritium	U	0.176	+/-1.65	1.38	+/-1.65	2.76	pCi/g		CTO1	05/02/04	1040	328815	3
Solid Preparation													
<i>Laboratory Composite</i>													

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	BSW1	04/28/04	1645	328490
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	04/27/04	1554	328473

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : Haddam Neck Plant
362 Injun Hollow Road
East Hampton, Connecticut 06424
Contact: Mr. Pete Hollenbeck
Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 2 of 2

Client Sample ID: 3100-0000-179-C-12C-01 Project: YANK00204
Sample ID: 111637010 Client ID: YANK001

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch Mtd.
GL-RAD-A-026	Laboratory sample composite				AWB	04/27/04	1522	328472			

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid-HTD2,ALL2	67	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Sarah Kozlik.

Heather J. Wood
Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : Haddam Neck Plant
 362 Injun Hollow Road
 East Hampton, Connecticut 06424
 Contact: Mr. Pete Hollenbeck
 Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 1 of 2

Client Sample ID:	3100-0000-179-C-15C-01	Project:	YANK00204
Sample ID:	111637011	Client ID:	YANK001
Matrix:	Misc Solid		
Collect Date:	08-APR-04		
Receive Date:	27-APR-04		
Collector:	Client		
Moisture:	5.5%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch	Mtd.
Rad Gamma Spec Analysis												
<i>GammaSpec, Gamma, Solid-GAM2, ALL2</i>												
Actinium-228	U	0.00	+/-0.182	0.118	+/-0.178	0.244	pCi/g		SRB	05/05/04	2322	328906 1
	UI											
Americium-241	U	0.0126	+/-0.0818	0.0587	+/-0.0801	0.121	pCi/g					
Bismuth-212		0.531	+/-0.368	0.156	+/-0.360	0.328	pCi/g					
Bismuth-214	U	0.00	+/-0.145	0.0666	+/-0.142	0.136	pCi/g					
	UI											
Cesium-134	U	0.00688	+/-0.0313	0.0245	+/-0.0307	0.0515	pCi/g					
Cesium-137	U	-0.00288	+/-0.0279	0.0216	+/-0.0273	0.0452	pCi/g					
Cobalt-60	U	0.00292	+/-0.0334	0.0266	+/-0.0327	0.0566	pCi/g					
Europium-152	U	-0.0161	+/-0.0689	0.0514	+/-0.0675	0.107	pCi/g					
Europium-154	U	-0.0482	+/-0.0907	0.0687	+/-0.0889	0.147	pCi/g					
Europium-155	U	0.0182	+/-0.0717	0.0518	+/-0.0703	0.107	pCi/g					
Lead-212		0.294	+/-0.0769	0.0299	+/-0.0753	0.0615	pCi/g					
Lead-214		0.448	+/-0.111	0.036	+/-0.108	0.0746	pCi/g					
Manganese-54	U	-0.0128	+/-0.0297	0.0223	+/-0.0291	0.0468	pCi/g					
Niobium-94	U	-0.00213	+/-0.0267	0.0207	+/-0.0262	0.0432	pCi/g					
Potassium-40		7.08	+/-1.23	0.232	+/-1.20	0.498	pCi/g					
Radium-226		0.389	+/-0.145	0.0437	+/-0.142	0.0906	pCi/g					
Silver-108m	U	-0.0269	+/-0.0242	0.0171	+/-0.0238	0.0356	pCi/g					
Thallium-208	U	0.00	+/-0.0489	0.0287	+/-0.0479	0.0592	pCi/g					
	UI											
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid-HTD2, ALL2</i>												
Strontium-90	U	-0.0003	+/-0.0075	0.0073	+/-0.0075	0.0152	pCi/g		HOB1	05/05/04	0752	328553 2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid-HTD2, ALL2</i>												
Tritium	U	1.76	+/-1.71	1.37	+/-1.71	2.75	pCi/g		CTO1	05/02/04	1112	328815 3
Solid Preparation												
<i>Laboratory Composite</i>												

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	BSW1	04/28/04	1645	328490
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	04/27/04	1554	328473

GENERAL ENGINEERING LABORATORIES, LLC
 2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : Haddam Neck Plant
 362 Injun Hollow Road
 East Hampton, Connecticut 06424
 Contact : Mr. Pete Hollenbeck
 Project : Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 2 of 2

Client Sample ID: 3100-0000-179-C-15C-01 Project: YANK00204
 Sample ID: 111637011 Client ID: YANK001

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch Mtd.
GL-RAD-A-026	Laboratory sample composite				AWB	.04/27/04	1522	328472			

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid-HTD2,ALL2	67	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Sarah Kozlik.

Heidi G. Kozlik
 Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : Haddam Neck Plant
 362 Injun Hollow Road
 East Hampton, Connecticut 06424
 Contact: Mr. Pete Hollenbeck
 Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 1 of 2

Client Sample ID:	3100-0000-179-C-15C-02	Project:	YANK00204
Sample ID:	111637012	Client ID:	YANK001
Matrix:	Misc Solid		
Collect Date:	08-APR-04		
Receive Date:	27-APR-04		
Collector:	Client		
Moisture:	7.15%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gamma Spec Analysis													
<i>GammaSpec, Gamma, Solid-GAM2, ALL2</i>													
Actinium-228		0.456	+/-0.359	0.120	+/-0.352	0.258	pCi/g		SRB	05/05/04	2325	328906	1
Americium-241	U	0.0047	+/-0.0403	0.0261	+/-0.0395	0.0538	pCi/g						
Bismuth-212	U	0.164	+/-0.369	0.298	+/-0.361	0.628	pCi/g						
Bismuth-214	U	0.00	+/-0.182	0.0867	+/-0.178	0.180	pCi/g						
	UI												
Cesium-134	U	0.0342	+/-0.0482	0.0397	+/-0.0472	0.0843	pCi/g						
Cesium-137	U	0.0555	+/-0.0426	0.0356	+/-0.0418	0.0751	pCi/g						
Cobalt-60	U	0.019	+/-0.055	0.039	+/-0.0539	0.085	pCi/g						
Europium-152	U	-0.00278	+/-0.0971	0.0652	+/-0.0952	0.137	pCi/g						
Europium-154	U	-0.00842	+/-0.140	0.112	+/-0.137	0.244	pCi/g						
Europium-155	U	0.0361	+/-0.0679	0.0481	+/-0.0665	0.0996	pCi/g						
Lead-212		0.315	+/-0.0959	0.0339	+/-0.0939	0.0705	pCi/g						
Lead-214		0.308	+/-0.150	0.0469	+/-0.147	0.0983	pCi/g						
Manganese-54	U	-0.0104	+/-0.0455	0.035	+/-0.0446	0.0746	pCi/g						
Niobium-94	U	-0.00495	+/-0.0392	0.0306	+/-0.0384	0.0648	pCi/g						
Potassium-40		6.22	+/-1.29	0.327	+/-1.26	0.725	pCi/g						
Radium-226		0.310	+/-0.182	0.0543	+/-0.178	0.115	pCi/g						
Silver-108m	U	0.0125	+/-0.0309	0.0237	+/-0.0302	0.050	pCi/g						
Thallium-208	U	0.00	+/-0.0884	0.0485	+/-0.0866	0.100	pCi/g						
	UI												
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid-HTD2, ALL2</i>													
Strontium-90	U	0.0133	+/-0.0076	0.0068	+/-0.0088	0.014	pCi/g		HOB1	05/10/04	1737	328553	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2, ALL2</i>													
Tritium	U	2.52	+/-1.77	1.40	+/-1.78	2.79	pCi/g		CTO1	05/02/04	1144	328815	3
Solid Preparation													
<i>Laboratory Composite</i>													

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	BSWI	04/28/04	1645	328490
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	04/27/04	1554	328473

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : Haddam Neck Plant
362 Injun Hollow Road
East Hampton, Connecticut 06424
Contact: Mr. Pete Hollenbeck
Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 2 of 2

Client Sample ID: 3100-0000-179-C-15C-02 Project: YANK00204
Sample ID: 111637012 Client ID: YANK001

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch Mtd.
GL-RAD-A-026	Laboratory sample composite				AWB	04/27/04	1522	328472			

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid-HTD2,ALL2	65	(25%-125%)

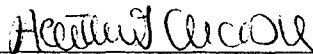
Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Sarah Kozlik.



Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : Haddam Neck Plant
 362 Injun Hollow Road
 East Hampton, Connecticut 06424
 Contact: Mr. Pete Hollenbeck
 Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 1 of 2

Client Sample ID:	3100-0000-175-C-10C-01	Project:	YANK00204
Sample ID:	111637013	Client ID:	YANK001
Matrix:	Misc Solid		
Collect Date:	29-MAR-04		
Receive Date:	27-APR-04		
Collector:	Client		
Moisture:	4.85%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch Mtd.
Rad Gamma Spec Analysis											
<i>Gammaspcc, Gamma, Solid-GAM2,ALL2</i>											
Actinium-228		0.462	+/-0.269	0.0953	+/-0.263	0.204	pCi/g		SRB	05/06/04	0942 328906 1
Americium-241	U	-0.0227	+/-0.0918	0.0655	+/-0.0899	0.136	pCi/g				
Bismuth-212	U	0.321	+/-0.356	0.175	+/-0.349	0.375	pCi/g				
Bismuth-214		0.408	+/-0.149	0.0402	+/-0.146	0.0855	pCi/g				
Cesium-134	U	0.062	+/-0.0544	0.0313	+/-0.0533	0.0664	pCi/g				
Cesium-137	U	0.0165	+/-0.0315	0.0254	+/-0.0308	0.0539	pCi/g				
Cobalt-60	U	-0.00478	+/-0.0356	0.0284	+/-0.0349	0.0625	pCi/g				
Europium-152	U	0.0455	+/-0.0725	0.0551	+/-0.071	0.115	pCi/g				
Europium-154	U	-0.0221	+/-0.101	0.0751	+/-0.0988	0.165	pCi/g				
Europium-155	U	-0.00875	+/-0.0666	0.0483	+/-0.0652	0.100	pCi/g				
Lead-212		0.525	+/-0.088	0.0282	+/-0.0863	0.0587	pCi/g				
Lead-214		0.457	+/-0.131	0.0381	+/-0.128	0.0798	pCi/g				
Manganese-54	U	-0.0079	+/-0.0301	0.0228	+/-0.0295	0.0492	pCi/g				
Niobium-94	U	0.0016	+/-0.0288	0.0225	+/-0.0282	0.0478	pCi/g				
Potassium-40		6.49	+/-1.09	0.241	+/-1.07	0.539	pCi/g				
Radium-226		0.408	+/-0.149	0.0402	+/-0.146	0.0855	pCi/g				
Silver-108m	U	0.00345	+/-0.0263	0.0194	+/-0.0258	0.0408	pCi/g				
Thallium-208		0.171	+/-0.0625	0.0229	+/-0.0613	0.0486	pCi/g				

Rad Gas Flow Proportional Counting

GFPC, Sr90, solid-HTD2,ALL2

Strontium-90	U	0.0021	+/-0.0079	0.0076	+/-0.0079	0.0157	pCi/g		HOB1	05/05/04	0753 328553 2
--------------	---	--------	-----------	--------	-----------	--------	-------	--	------	----------	---------------

Rad Liquid Scintillation Analysis

LSC, Tritium Dist, Solid-HTD2,ALL2

Tritium	U	0.108	+/-1.61	1.34	+/-1.61	2.69	pCi/g		CTO1	05/02/04	1216 328815 3
---------	---	-------	---------	------	---------	------	-------	--	------	----------	---------------

Solid Preparation

Laboratory Composite

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	BSW1	04/28/04	1645	328490
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	04/27/04	1554	328473
GL-RAD-A-026	Laboratory sample composite	AWB	04/27/04	1522	328472

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : Haddam Neck Plant
362 Injun Hollow Road
East Hampton, Connecticut 06424
Contact: Mr. Pete Hollenbeck
Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 2 of 2

Client Sample ID: 3100-0000-175-C-10C-01 Project: YANK00204
Sample ID: 111637013 Client ID: YANK001

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch Mtd.
-----------	-----------	--------	-------------	----	-----	-----	-------	----	-------------	------	------------

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid-HTD2,ALL2	68	(25%-125%)

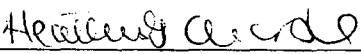
Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Sarah Kozlik.


Reviewed by _____

GENERAL ENGINEERING LABORATORIES, LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gei.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : Haddam Neck Plant
362 Injun Hollow Road
East Hampton, Connecticut 06424
Contact: Mr. Pete Hollenbeck
Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 1 of 2

Client Sample ID: 3100-0000-175-C-17C-01 Project: YANK00204
Sample ID: 111637014 Client ID: YANK001
Matrix: Misc Solid
Collect Date: 30-MAR-04
Receive Date: 27-APR-04
Collector: Client
Moisture: 6.92%

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gamma Spec Analysis													
<i>GammaSpec, Gamma, Solid-GAM2, ALL2</i>													
Actinium-228	U	0.00	+/-0.270	0.147	+/-0.265	0.308	pCi/g		SRB	05/06/04	0943	328906	1
	UI												
Americium-241	U	0.107	+/-0.119	0.0846	+/-0.116	0.174	pCi/g						
Bismuth-212	U	0.00	+/-0.474	0.210	+/-0.464	0.448	pCi/g						
	UI												
Bismuth-214	U	0.00	+/-0.174	0.0842	+/-0.171	0.174	pCi/g						
	UI												
Cesium-134	U	0.0401	+/-0.0441	0.0355	+/-0.0432	0.075	pCi/g						
Cesium-137	U	-0.00764	+/-0.0393	0.0293	+/-0.0385	0.0618	pCi/g						
Cobalt-60		0.160	+/-0.0778	0.0311	+/-0.0762	0.0682	pCi/g						
Europium-152	U	0.0228	+/-0.0893	0.0687	+/-0.0875	0.143	pCi/g						
Europium-154	U	-0.0123	+/-0.139	0.0937	+/-0.136	0.204	pCi/g						
Europium-155	U	0.0026	+/-0.0864	0.0605	+/-0.0847	0.125	pCi/g						
Lead-212		0.365	+/-0.100	0.0356	+/-0.0982	0.0738	pCi/g						
Lead-214		0.334	+/-0.124	0.0495	+/-0.122	0.103	pCi/g						
Manganese-54	U	-0.0192	+/-0.0403	0.0309	+/-0.0395	0.0658	pCi/g						
Niobium-94	U	0.0324	+/-0.0427	0.030	+/-0.0418	0.0629	pCi/g						
Potassium-40		7.27	+/-1.28	0.293	+/-1.25	0.647	pCi/g						
Radium-226		0.292	+/-0.174	0.0547	+/-0.171	0.115	pCi/g						
Silver-108m	U	-0.0198	+/-0.0306	0.0223	+/-0.030	0.0469	pCi/g						
Thallium-208		0.189	+/-0.0911	0.0261	+/-0.0893	0.0552	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid-HTD2, ALL2</i>													
Strontium-90	U	0.0046	+/-0.0166	0.0055	+/-0.0148	0.0287	pCi/g		HOB1	05/12/04	0631	328553	3
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2, ALL2</i>													
Tritium	U	-0.312	+/-1.71	1.45	+/-1.71	2.89	pCi/g		CTO1	05/02/04	1248	328815	4
Solid Preparation													
<i>Laboratory Composite</i>													

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	BSW1	04/28/04	1646	328490
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	04/27/04	1554	328473

GENERAL ENGINEERING LABORATORIES, LLC
 2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : Haddam Neck Plant
 362 Injun Hollow Road
 East Hampton, Connecticut 06424
 Contact: Mr. Pete Hollenbeck
 Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 2 of 2

Client Sample ID: 3100-0000-175-C-17C-01
 Sample ID: 111637014
 Project: YANK00204
 Client ID: YANK001

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch Mtd.
GL-RAD-A-026	Laboratory sample composite				AWB	04/27/04		1522	328472		

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 905.0 Modified
4	EPA 906.0 Modified
5	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid-HTD2,ALL2	92	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Sarah Kozlik.

Alexander J. ...

Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : Haddam Neck Plant
 362 Injun Hollow Road
 East Hampton, Connecticut 06424
 Contact: Mr. Pete Hollenbeck
 Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 1 of 2

Client Sample ID:	3100-0000-175-C-20C-01	Project:	YANK00204
Sample ID:	111637015	Client ID:	YANK001
Matrix:	Misc Solid		
Collect Date:	30-MAR-04		
Receive Date:	27-APR-04		
Collector:	Client		
Moisture:	7.63%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch Mtd.
Rad Gamma Spec Analysis												
<i>GammaSpec, Gamma, Solid-GAM2, ALL2</i>												
Actinium-228	U	0.00	+/-0.221	0.135	+/-0.217	0.282	pCi/g		SRB	05/06/04	0944	328906 1
	UI											
Americium-241	U	0.0903	+/-0.154	0.0811	+/-0.151	0.167	pCi/g					
Bismuth-212	U	0.334	+/-0.360	0.187	+/-0.353	0.397	pCi/g					
Bismuth-214		0.303	+/-0.172	0.0449	+/-0.168	0.0946	pCi/g					
Cesium-134	U	0.00755	+/-0.0376	0.0297	+/-0.0368	0.0629	pCi/g					
Cesium-137	U	0.0453	+/-0.0331	0.0278	+/-0.0324	0.0584	pCi/g					
Cobalt-60	U	0.0257	+/-0.0365	0.0313	+/-0.0358	0.0678	pCi/g					
Europium-152	U	-0.0384	+/-0.0758	0.0555	+/-0.0743	0.116	pCi/g					
Europium-154	U	0.0485	+/-0.105	0.0875	+/-0.103	0.189	pCi/g					
Europium-155	U	0.016	+/-0.0757	0.0539	+/-0.0742	0.111	pCi/g					
Lead-212		0.381	+/-0.0875	0.0309	+/-0.0858	0.0639	pCi/g					
Lead-214		0.310	+/-0.107	0.0446	+/-0.105	0.0928	pCi/g					
Manganese-54	U	0.0042	+/-0.0327	0.0257	+/-0.0321	0.0547	pCi/g					
Niobium-94	U	0.0274	+/-0.0303	0.0249	+/-0.0297	0.0524	pCi/g					
Potassium-40		6.60	+/-1.22	0.250	+/-1.20	0.553	pCi/g					
Radium-226		0.303	+/-0.172	0.0449	+/-0.168	0.0946	pCi/g					
Silver-108m	U	-0.0234	+/-0.0272	0.0192	+/-0.0267	0.0404	pCi/g					
Thallium-208		0.0683	+/-0.070	0.025	+/-0.0686	0.0527	pCi/g					
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid-HTD2, ALL2</i>												
Strontium-90	U	-0.0097	+/-0.0048	0.0052	+/-0.0057	0.0109	pCi/g		HOB1	05/10/04	1738	328553 2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid-HTD2, ALL2</i>												
Tritium	U	-1.0	+/-1.62	1.39	+/-1.62	2.79	pCi/g		CTO1	05/02/04	1320	328815 3
Solid Preparation												
<i>Laboratory Composite</i>												

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	BSW1	04/28/04	1646	328490
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	04/27/04	1554	328473
GL-RAD-A-026	Laboratory sample composite	AWB	04/27/04	1522	328472

GENERAL ENGINEERING LABORATORIES, LLC
 2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : Haddam Neck Plant
 362 Injun Hollow Road
 East Hampton, Connecticut 06424
 Contact: Mr. Pete Hollenbeck
 Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 2 of 2

Client Sample ID: 3100-0000-175-C-20C-01 Project: YANK00204
 Sample ID: 111637015 Client ID: YANK001

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch Mtd.
-----------	-----------	--------	-------------	----	-----	-----	-------	----	-------------	------	------------

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid-HTD2,ALL2	72	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Sarah Kozlik.

Hester C. C. O. C.
 Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : Haddam Neck Plant
 362 Injun Hollow Road
 East Hampton, Connecticut 06424
 Contact: Mr. Pete Hollenbeck
 Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 1 of 2

Client Sample ID: 3100-0000-175-C-20C-02 Project: YANK00204
 Sample ID: 111637016 Client ID: YANK001
 Matrix: Misc Solid
 Collect Date: 30-MAR-04
 Receive Date: 27-APR-04
 Collector: Client
 Moisture: 6.58%

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch Mtd.
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid-GAM2, ALL2</i>												
Actinium-228	U	0.00	+/-0.280	0.143	+/-0.275	0.299	pCi/g		SRB	05/07/04	0949	328906 1
	UI											
Americium-241	U	-0.0226	+/-0.0991	0.070	+/-0.0971	0.145	pCi/g					
Bismuth-212	U	0.397	+/-0.361	0.190	+/-0.354	0.403	pCi/g					
Bismuth-214	U	0.00	+/-0.160	0.0738	+/-0.157	0.152	pCi/g					
	UI											
Cesium-134	U	-0.00792	+/-0.0461	0.0303	+/-0.0451	0.0641	pCi/g					
Cesium-137	U	0.0109	+/-0.0323	0.0257	+/-0.0316	0.0541	pCi/g					
Cobalt-60	U	0.0303	+/-0.0388	0.0329	+/-0.038	0.0707	pCi/g					
Europium-152	U	-0.0541	+/-0.0859	0.0627	+/-0.0842	0.131	pCi/g					
Europium-154	U	-0.107	+/-0.122	0.0891	+/-0.120	0.191	pCi/g					
Europium-155	U	0.0252	+/-0.0896	0.0647	+/-0.0878	0.134	pCi/g					
Lead-212		0.284	+/-0.0864	0.041	+/-0.0847	0.0845	pCi/g					
Lead-214		0.432	+/-0.126	0.0438	+/-0.124	0.0913	pCi/g					
Manganese-54	U	-0.000273	+/-0.037	0.0286	+/-0.0363	0.0604	pCi/g					
Niobium-94	U	-0.00244	+/-0.0323	0.025	+/-0.0316	0.0525	pCi/g					
Potassium-40		6.94	+/-1.26	0.268	+/-1.24	0.585	pCi/g					
Radium-226		0.255	+/-0.160	0.0519	+/-0.157	0.109	pCi/g					
Silver-108m	U	0.010	+/-0.0282	0.0216	+/-0.0277	0.0451	pCi/g					
Thallium-208	U	0.0541	+/-0.0595	0.0356	+/-0.0583	0.0738	pCi/g					
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid-HTD2, ALL2</i>												
Strontium-90	U	-0.0066	+/-0.006	0.0062	+/-0.0064	0.0127	pCi/g		HOB1	05/10/04	1738	328553 2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid-HTD2, ALL2</i>												
Tritium	U	0.826	+/-1.72	1.41	+/-1.72	2.83	pCi/g		CTO1	05/02/04	1352	328815 3
Solid Preparation												
<i>Laboratory Composite</i>												

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	BSW1	04/28/04	1646	328490
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	04/27/04	1554	328473
GL-RAD-A-026	Laboratory sample composite	AWB	04/27/04	1522	328472

GENERAL ENGINEERING LABORATORIES, LLC
 2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : Haddam Neck Plant
 362 Injun Hollow Road
 East Hampton, Connecticut 06424
 Contact: Mr. Pete Hollenbeck
 Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 2 of 2

Client Sample ID: 3100-0000-175-C-20C-02 Project: YANK00204
 Sample ID: 111637016 Client ID: YANK001

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch Mtd.
-----------	-----------	--------	-------------	----	-----	-----	-------	----	-------------	------	------------

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid-HTD2,ALL2	72	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Sarah Kozlik.

Heather J. Cleora
 Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : Haddam Neck Plant
 362 Injun Hollow Road
 East Hampton, Connecticut 06424
 Contact: Mr. Pete Hollenbeck
 Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 1 of 2

Client Sample ID: 3101-0000-175-B-21B-01 Project: YANK00204
 Sample ID: 111637017 Client ID: YANK001
 Matrix: Misc Solid
 Collect Date: 31-MAR-04
 Receive Date: 27-APR-04
 Collector: Client
 Moisture: .492%

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch	Mtd.
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid-GAM2,ALL2</i>												
Actinium-228	U	0.302	+/-0.252	0.150	+/-0.246	0.314	pCi/g		SRB	05/06/04	0946	328906 1
Americium-241	U	0.000646	+/-0.135	0.0829	+/-0.132	0.172	pCi/g					
Bismuth-212	U	0.097	+/-0.306	0.222	+/-0.300	0.472	pCi/g					
Bismuth-214	U	0.0661	+/-0.130	0.0533	+/-0.127	0.112	pCi/g					
Cesium-134	U	0.0117	+/-0.0395	0.0312	+/-0.0387	0.0666	pCi/g					
Cesium-137	U	0.0243	+/-0.0453	0.0285	+/-0.0444	0.0604	pCi/g					
Cobalt-60	U	-0.0291	+/-0.0402	0.0293	+/-0.0394	0.0648	pCi/g					
Europium-152	U	-0.0428	+/-0.110	0.0702	+/-0.108	0.146	pCi/g					
Europium-154	U	0.0175	+/-0.106	0.0868	+/-0.104	0.190	pCi/g					
Europium-155	U	0.0195	+/-0.0794	0.0595	+/-0.0779	0.123	pCi/g					
Lead-212		0.138	+/-0.0963	0.0399	+/-0.0944	0.0824	pCi/g					
Lead-214		0.131	+/-0.140	0.0518	+/-0.138	0.108	pCi/g					
Manganese-54	U	-0.00095	+/-0.0366	0.0281	+/-0.0359	0.0603	pCi/g					
Niobium-94	U	-0.0141	+/-0.0328	0.0247	+/-0.0322	0.0523	pCi/g					
Potassium-40		3.37	+/-0.955	0.294	+/-0.936	0.650	pCi/g					
Radium-226	U	0.0661	+/-0.130	0.0533	+/-0.127	0.112	pCi/g					
Silver-108m	U	-0.0168	+/-0.0345	0.0244	+/-0.0338	0.0511	pCi/g					
Thallium-208		0.111	+/-0.0768	0.0259	+/-0.0753	0.0548	pCi/g					

Rad Gas Flow Proportional Counting

GFPC, Sr90, solid-HTD2,ALL2

Strontium-90 U -0.0042 +/-0.0054 0.0055 +/-0.0055 0.0115 pCi/g HOB1 05/05/04 2103 328553 2

Rad Liquid Scintillation Analysis

LSC, Tritium Dist, Solid-HTD2,ALL2

Tritium U -0.195 +/-1.70 1.44 +/-1.70 2.87 pCi/g CTO1 05/02/04 1424 328815 3

Solid Preparation

Laboratory Composite

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	BSW1	04/28/04	1646	328490
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	04/27/04	1554	328473
GL-RAD-A-026	Laboratory sample composite	AWB	04/27/04	1522	328472

GENERAL ENGINEERING LABORATORIES, LLC
 2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : Haddam Neck Plant
 362 Injun Hollow Road
 East Hampton, Connecticut 06424
 Contact : Mr. Pete Hollenbeck
 Project : Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 2 of 2

Client Sample ID: 3101-0000-175-B-21B-01 Project: YANK00204
 Sample ID: 111637017 Client ID: YANK001

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch Mtd.
-----------	-----------	--------	-------------	----	-----	-----	-------	----	-------------	------	------------

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid-HTD2,ALL2	83	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Sarah Kozlik.

Alec... (Signature)

Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : Haddam Neck Plant
362 Injun Hollow Road
East Hampton, Connecticut 06424
Contact: Mr. Pete Hollenbeck
Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 1 of 2

Client Sample ID: 3101-0000-175-B-21B-02 Project: YANK00204
Sample ID: 111637018 Client ID: YANK001
Matrix: Misc Solid
Collect Date: 31-MAR-04
Receive Date: 27-APR-04
Collector: Client
Moisture: .101%

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch Mtd.
Rad Gamma Spec Analysis												
<i>GammaSpec, Gamma, Solid-GAM2, ALL2</i>												
Actinium-228	U	0.0614	+/-0.130	0.0699	+/-0.127	0.146	pCi/g	SRB	05/06/04	0947	328906	1
Americium-241	U	0.000693	+/-0.0498	0.0365	+/-0.0488	0.0754	pCi/g					
Bismuth-212	U	0.0944	+/-0.139	0.113	+/-0.137	0.237	pCi/g					
Bismuth-214		0.110	+/-0.0696	0.025	+/-0.0682	0.0521	pCi/g					
Cesium-134	U	-0.00447	+/-0.0201	0.0154	+/-0.0197	0.0325	pCi/g					
Cesium-137	U	0.0145	+/-0.0188	0.0153	+/-0.0185	0.032	pCi/g					
Cobalt-60	U	-0.0171	+/-0.0209	0.0153	+/-0.0205	0.033	pCi/g					
Europium-152	U	0.0104	+/-0.0448	0.0345	+/-0.0439	0.0715	pCi/g					
Europium-154	U	-0.0246	+/-0.0584	0.0448	+/-0.0572	0.0958	pCi/g					
Europium-155	U	0.00592	+/-0.0462	0.0339	+/-0.0453	0.0698	pCi/g					
Lead-212		0.0765	+/-0.047	0.0193	+/-0.0461	0.0398	pCi/g					
Lead-214	U	0.00	+/-0.0627	0.0314	+/-0.0615	0.0645	pCi/g					
	UI											
Manganese-54	U	0.00184	+/-0.0234	0.0178	+/-0.0229	0.037	pCi/g					
Niobium-94	U	0.0132	+/-0.0192	0.0137	+/-0.0188	0.0285	pCi/g					
Potassium-40		2.53	+/-0.620	0.151	+/-0.607	0.324	pCi/g					
Radium-226		0.110	+/-0.0696	0.025	+/-0.0682	0.0521	pCi/g					
Silver-108m	U	0.000653	+/-0.0156	0.0118	+/-0.0153	0.0246	pCi/g					
Thallium-208	U	0.018	+/-0.0416	0.0181	+/-0.0408	0.0374	pCi/g					
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid-HTD2, ALL2</i>												
Strontium-90	U	0.0006	+/-0.0045	0.0043	+/-0.0045	0.009	pCi/g	HOB1	05/10/04	1738	328553	2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid-HTD2, ALL2</i>												
Tritium	U	-0.759	+/-1.73	1.48	+/-1.73	2.97	pCi/g	CTO1	05/02/04	1457	328815	3
Solid Preparation												
<i>Laboratory Composite</i>												

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	BSW1	04/28/04	1646	328490
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	04/27/04	1554	328473
GL-RAD-A-026	Laboratory sample composite	AWB	04/27/04	1522	328472

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : Haddam Neck Plant
362 Injun Hollow Road
East Hampton, Connecticut 06424
Contact: Mr. Pete Hollenbeck
Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 2 of 2

Client Sample ID: 3101-0000-175-B-21B-02 Project: YANK00204
Sample ID: 111637018 Client ID: YANK001

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch Mtd.
-----------	-----------	--------	-------------	----	-----	-----	-------	----	-------------	------	------------

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid-HTD2,ALL2	87	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Sarah Kozlik.

Alicia G. ...

Reviewed by

QUALITY CONTROL DATA

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: May 12, 2004

Page 1 of 8

Client : Connecticut Yankee Atomic Power
Haddam Neck Plant
362 Injun Hollow Road
East Hampton, Connecticut
Contact: Mr. Pete Hollenbeck
Workorder: 111637

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Alpha Spec											
Batch	328693										
QC1200614765	111637005 DUP										
Americium-241		U	-0.00716	U	0.000454	pCi/g	N/A	(0% - 100%)	JAS1	05/04/04	13:31
		Uncert:	+/-0.0149		+/-0.0174						
		TPU:	+/-0.0149		+/-0.0174						
Curium-242		U	-0.00854	U	0.0115	pCi/g	N/A	(0% - 100%)			
		Uncert:	+/-0.00749		+/-0.0184						
		TPU:	+/-0.00756		+/-0.0184						
Curium-243/244		U	0.00396	U	-0.00114	pCi/g	N/A	(0% - 100%)			
		Uncert:	+/-0.0266		+/-0.0127						
		TPU:	+/-0.0266		+/-0.0127						
QC1200614767	LCS										
Americium-241	2.69				2.50	pCi/g	93	(75%-125%)			
		Uncert:			+/-0.240						
		TPU:			+/-0.383						
Curium-242				U	0.0122	pCi/g					
		Uncert:			+/-0.017						
		TPU:			+/-0.017						
Curium-243/244	3.47				3.43	pCi/g	99	(75%-125%)			
		Uncert:			+/-0.281						
		TPU:			+/-0.496						
QC1200614764	MB										
Americium-241				U	0.00633	pCi/g					
		Uncert:			+/-0.0178						
		TPU:			+/-0.0178						
Curium-242				U	0.00	pCi/g					
		Uncert:			+/-0.0122						
		TPU:			+/-0.0122						
Curium-243/244				U	0.000243	pCi/g					
		Uncert:			+/-0.0132						
		TPU:			+/-0.0132						
QC1200614766	111637005 MS										
Americium-241	2.51	U	-0.00716		2.67	pCi/g	106	(75%-125%)			
		Uncert:	+/-0.0149		+/-0.258						
		TPU:	+/-0.0149		+/-0.419						
Curium-242		U	-0.00854	U	-0.00358	pCi/g					
		Uncert:	+/-0.00749		+/-0.00497						
		TPU:	+/-0.00756		+/-0.00499						
Curium-243/244	3.25	U	0.00396		3.48	pCi/g	107	(75%-125%)			
		Uncert:	+/-0.0266		+/-0.295						
		TPU:	+/-0.0266		+/-0.523						
Batch	328694										
QC1200614769	111637005 DUP										
Plutonium-238			0.00765	U	0.00127	pCi/g	143	(0% - 100%)	JAS1	05/03/04	22:37

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 111637

Page 2 of 8

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Alpha Spec											
Batch 328694											
		Uncert:	+/-0.00866	+/-0.0085							
		TPU:	+/-0.00868	+/-0.0085							
Plutonium-239/240		U	0.00636	U	-0.00137	pCi/g	N/A	(0% - 100%)			
		Uncert:	+/-0.00901	+/-0.00925							
		TPU:	+/-0.00902	+/-0.00925							
QC1200614771	LCS										
Plutonium-238		4.22		4.84	pCi/g		115	(75%-125%)			
		Uncert:		+/-0.228							
		TPU:		+/-0.440							
Plutonium-239/240				0.0458	pCi/g			(75%-125%)			
		Uncert:		+/-0.0263							
		TPU:		+/-0.0266							
QC1200614768	MB										
Plutonium-238				U	0.00139	pCi/g				05/03/04	22:37
		Uncert:		+/-0.00937							
		TPU:		+/-0.00937							
Plutonium-239/240				U	-0.0116	pCi/g					
		Uncert:		+/-0.0106							
		TPU:		+/-0.0107							
QC1200614770	111637005	MS									
Plutonium-238		3.94	0.00765	4.32	pCi/g		109	(75%-125%)		05/03/04	22:37
		Uncert:	+/-0.00866	+/-0.217							
		TPU:	+/-0.00868	+/-0.406							
Plutonium-239/240		U	0.00636	0.0951	pCi/g			(75%-125%)			
		Uncert:	+/-0.00901	+/-0.0326							
		TPU:	+/-0.00902	+/-0.0334							
Batch 328695											
QC1200614773	111637005	DUP									
Plutonium-241		U	-0.286	U	-0.927	pCi/g	N/A	(0% - 100%)	JAS1	05/05/04	22:50
		Uncert:	+/-1.64	+/-1.78							
		TPU:	+/-1.64	+/-1.78							
QC1200614775	LCS										
Plutonium-241		35.7		31.7	pCi/g		89	(75%-125%)		05/06/04	00:25
		Uncert:		+/-2.03							
		TPU:		+/-3.30							
QC1200614772	MB										
Plutonium-241				U	-0.512	pCi/g				05/05/04	22:03
		Uncert:		+/-1.49							
		TPU:		+/-1.49							
QC1200614774	111637005	MS									
Plutonium-241		66.9	U	-0.286	60.2	pCi/g	90	(75%-125%)		05/05/04	23:37
		Uncert:	+/-1.64	+/-3.94							
		TPU:	+/-1.64	+/-6.48							
Rad Gamma Spec											
Batch 328906											
QC1200615256	111637001	DUP									
Actinium-228		U	0.401	U	0.344	pCi/g	15	(0% - 100%)	SRB	05/06/04	09:48
		Uncert:	+/-0.365	+/-0.472							
				+/-0.463							

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 111637

Page 3 of 8

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec											
Batch	328906										
Americium-241	TPU:	+/-0.358									
	U	0.0304	UUI	0.00	pCi/g	103		(0% - 100%)			
	Uncert:	+/-0.167		+/-0.0808							
Bismuth-212	TPU:	+/-0.163		+/-0.0791							
	U	0.495	U	0.545	pCi/g	10		(0% - 100%)			
	Uncert:	+/-0.395		+/-0.601							
Bismuth-214	TPU:	+/-0.387		+/-0.589							
		0.305	UUI	0.00	pCi/g	*		(0% - 100%)			
	Uncert:	+/-0.194		+/-0.280							
Cesium-134	TPU:	+/-0.191		+/-0.274							
		0.267		0.189	pCi/g	34		(0% - 100%)			
	Uncert:	+/-0.113		+/-0.154							
Cesium-137	TPU:	+/-0.111		+/-0.151							
		19.5		20.2	pCi/g	3		(0% - 100%)			
	Uncert:	+/-2.21		+/-2.51							
Cobalt-60	TPU:	+/-2.17		+/-2.46							
		5.20		5.36	pCi/g	3		(0% - 100%)			
	Uncert:	+/-0.406		+/-0.436							
Europium-152	TPU:	+/-0.398		+/-0.427							
	U	-0.0517	U	-0.135	pCi/g	N/A		(0% - 100%)			
	Uncert:	+/-0.141		+/-0.179							
Europium-154	TPU:	+/-0.138		+/-0.176							
	U	0.0685	U	-0.05	pCi/g	N/A		(0% - 100%)			
	Uncert:	+/-0.133		+/-0.222							
Europium-155	TPU:	+/-0.130		+/-0.217							
	U	0.0344	U	0.0789	pCi/g	79		(0% - 100%)			
	Uncert:	+/-0.114		+/-0.120							
Lead-212	TPU:	+/-0.112		+/-0.117							
		0.356		0.364	pCi/g	2		(0% - 100%)			
	Uncert:	+/-0.126		+/-0.166							
Lead-214	TPU:	+/-0.124		+/-0.163							
		0.457		0.477	pCi/g	4		(0% - 100%)			
	Uncert:	+/-0.179		+/-0.260							
Manganese-54	TPU:	+/-0.176		+/-0.254							
	U	0.0444	U	0.00641	pCi/g	150		(0% - 100%)			
	Uncert:	+/-0.0563		+/-0.109							
Niobium-94	TPU:	+/-0.0552		+/-0.106							
	U	0.0361	U	0.0253	pCi/g	35		(0% - 100%)			
	Uncert:	+/-0.0321		+/-0.0657							
Potassium-40	TPU:	+/-0.0315		+/-0.0644							
		6.25		7.16	pCi/g	14		(0% - 20%)			
	Uncert:	+/-1.33		+/-1.76							
Radium-226	TPU:	+/-1.30		+/-1.73							
		0.305		0.442	pCi/g	37		(0% - 100%)			
	Uncert:	+/-0.194		+/-0.280							
Silver-108m	TPU:	+/-0.191		+/-0.274							
	U	0.0229	U	-0.0139	pCi/g	N/A		(0% - 100%)			
	Uncert:	+/-0.0607		+/-0.0749							

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 111637

Page 4 of 8

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec										
Batch	328906									
Thallium-208	TPU:	+/-0.0595	+/-0.0734							
		0.196	0.256	pCi/g	27		(0% - 100%)			
	Uncert:	+/-0.100	+/-0.145							
	TPU:	+/-0.0981	+/-0.142							
QC1200615257	LCS									
Actinium-228			U	-0.628	pCi/g				05/06/04	09:50
	Uncert:			+/-2.99						
	TPU:			+/-2.93						
Americium-241	234			246	pCi/g	105	(75%-125%)			
	Uncert:			+/-22.9						
	TPU:			+/-22.4						
Bismuth-212			U	-4.6	pCi/g					
	Uncert:			+/-5.44						
	TPU:			+/-5.33						
Bismuth-214			U	0.712	pCi/g					
	Uncert:			+/-1.23						
	TPU:			+/-1.21						
Cesium-134			U	-0.25	pCi/g					
	Uncert:			+/-0.792						
	TPU:			+/-0.776						
Cesium-137	92.7			95.0	pCi/g	102	(75%-125%)			
	Uncert:			+/-12.1						
	TPU:			+/-11.9						
Cobalt-60	146			148	pCi/g	101	(75%-125%)			
	Uncert:			+/-11.9						
	TPU:			+/-11.6						
Europium-152			U	0.301	pCi/g					
	Uncert:			+/-1.51						
	TPU:			+/-1.48						
Europium-154			U	-0.592	pCi/g					
	Uncert:			+/-1.81						
	TPU:			+/-1.77						
Europium-155			U	-1.05	pCi/g					
	Uncert:			+/-1.88						
	TPU:			+/-1.84						
Lead-212			U	0.114	pCi/g					
	Uncert:			+/-0.851						
	TPU:			+/-0.834						
Lead-214			U	0.988	pCi/g					
	Uncert:			+/-1.11						
	TPU:			+/-1.09						
Manganese-54			U	-0.08	pCi/g					
	Uncert:			+/-0.705						
	TPU:			+/-0.691						
Niobium-94			U	0.673	pCi/g					
	Uncert:			+/-0.660						
	TPU:			+/-0.647						
Potassium-40			U	7.33	pCi/g					

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 111637

Page 5 of 8

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec										
Batch	328906									
Radium-226	Uncert:		+/-7.84							
	TPU:		+/-7.68							
		U	0.712	pCi/g			(75%-125%)			
Silver-108m	Uncert:		+/-1.23							
	TPU:		+/-1.21							
		U	-0.426	pCi/g						
Thallium-208	Uncert:		+/-0.678							
	TPU:		+/-0.664							
		U	0.084	pCi/g						
Actinium-228	Uncert:		+/-0.650							
	TPU:		+/-0.637							
QC1200615255 MB		U	0.218	pCi/g					05/05/04	15:20
Americium-241	Uncert:		+/-0.326							
	TPU:		+/-0.319							
		U	-0.132	pCi/g						
Bismuth-212	Uncert:		+/-0.162							
	TPU:		+/-0.158							
		U	0.549	pCi/g						
Bismuth-214	Uncert:		+/-0.412							
	TPU:		+/-0.404							
		U	0.00	pCi/g						
Cesium-134	Uncert:		+/-0.261							
	TPU:		+/-0.256							
		U	0.0662	pCi/g						
Cesium-137	Uncert:		+/-0.0618							
	TPU:		+/-0.0606							
		U	-0.0072	pCi/g						
Cobalt-60	Uncert:		+/-0.0458							
	TPU:		+/-0.0449							
		U	0.0101	pCi/g						
Europium-152	Uncert:		+/-0.0578							
	TPU:		+/-0.0567							
		U	0.0344	pCi/g						
Europium-154	Uncert:		+/-0.127							
	TPU:		+/-0.125							
		U	-0.0185	pCi/g						
Europium-155	Uncert:		+/-0.148							
	TPU:		+/-0.145							
		U	0.0526	pCi/g						
Lead-212	Uncert:		+/-0.145							
	TPU:		+/-0.142							
		UUI	0.00	pCi/g						
Lead-214	Uncert:		+/-0.0805							
	TPU:		+/-0.0789							
		U	0.00395	pCi/g						
Lead-214	Uncert:		+/-0.149							
	TPU:		+/-0.146							

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 111637

Page 6 of 8

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec											
Batch	328906										
Manganese-54			U	-0.0255	pCi/g						
	Uncert:			+/-0.0528							
	TPU:			+/-0.0517							
Niobium-94			U	-0.00103	pCi/g						
	Uncert:			+/-0.0474							
	TPU:			+/-0.0464							
Potassium-40			U	0.443	pCi/g						
	Uncert:			+/-1.45							
	TPU:			+/-1.42							
Radium-226			U	0.141	pCi/g						
	Uncert:			+/-0.261							
	TPU:			+/-0.256							
Silver-108m			U	-0.0111	pCi/g						
	Uncert:			+/-0.0434							
	TPU:			+/-0.0425							
Thallium-208			U	0.082	pCi/g						
	Uncert:			+/-0.0545							
	TPU:			+/-0.0534							
Rad Gas Flow											
Batch	328553										
QC1200614497	111637018	DUP									
Strontium-90			U	0.0006	U	0.0005	pCi/g	0	(0% - 100%)	HOB1	05/10/04 21:50
	Uncert:			+/-0.0045		+/-0.0047					
	TPU:			+/-0.0045		+/-0.0047					
QC1200614499	LCS										
Strontium-90				2.07		2.16	pCi/g	104	(75%-125%)		05/04/04 16:23
	Uncert:					+/-0.120					
	TPU:					+/-0.549					
QC1200614496	MB										
Strontium-90					U	-0.0025	pCi/g				05/05/04 21:03
	Uncert:					+/-0.005					
	TPU:					+/-0.0051					
QC1200614498	111637018	MS									
Strontium-90				4.12	U	0.0006	pCi/g	102	(75%-125%)		05/04/04 16:23
	Uncert:					+/-0.0045					
	TPU:					+/-0.0045					
Rad Liquid Scintillation											
Batch	328815										
QC1200615009	111637005	DUP									
Tritium					U	2.35	pCi/g	57	(0% - 100%)	CTO1	05/05/04 10:52
	Uncert:					+/-1.74					
	TPU:					+/-1.75					
QC1200615011	LCS										
Tritium				18.1		17.5	pCi/g	97	(75%-125%)		05/02/04 17:05
	Uncert:					+/-2.25					
	TPU:					+/-2.54					
QC1200615008	MB										
Tritium					U	0.0662	pCi/g				05/02/04 15:29

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 111637

Page 7 of 8

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Liquid Scintillation										
Batch	328815									
			Uncert:							+/-1.65
			TPU:							+/-1.65
QC1200615010	111637005	MS								
Tritium		U	16.7	2.35	23.0	pCi/g	124 (75%-125%)		05/05/04	11:24
			Uncert:	+/-1.74	+/-2.24					
			TPU:	+/-1.75	+/-2.72					
Batch	328843									
QC1200615068	111637005	DUP								
Carbon-14		U	-0.211	U	0.239	pCi/g	N/A (0% - 100%)	CTO1	05/01/04	00:07
			Uncert:	+/-0.285	+/-0.299					
			TPU:	+/-0.285	+/-0.299					
QC1200615070	LCS									
Carbon-14			17.1		17.6	pCi/g	103 (75%-125%)		05/01/04	02:11
			Uncert:		+/-0.539					
			TPU:		+/-0.606					
QC1200615067	MB									
Carbon-14				U	-0.134	pCi/g			04/30/04	23:05
			Uncert:		+/-0.250					
			TPU:		+/-0.250					
QC1200615069	111637005	MS								
Carbon-14		U	17.4	-0.211	17.8	pCi/g	102 (75%-125%)		05/01/04	01:09
			Uncert:	+/-0.285	+/-0.547					
			TPU:	+/-0.285	+/-0.615					

Notes:

The Qualifiers in this report are defined as follows:

- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- h Sample preparation or preservation holding time exceeded.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 111637

Page 8 of 8

<u>Parmname</u>	<u>NOM</u>	<u>Sample Qual</u>	<u>QC</u>	<u>Units</u>	<u>RPD%</u>	<u>REC%</u>	<u>Range</u>	<u>Anlst</u>	<u>Date</u>	<u>Time</u>
-----------------	------------	--------------------	-----------	--------------	-------------	-------------	--------------	--------------	-------------	-------------

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

** Indicates analyte is a surrogate compound.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

3100-0000-179-C-1C-01	MSR#04-1223	11637001	328906	10045-97-3	Cesium-137	TRG 8	UHASL300	HASL300	REG	19.5	2.21	PCU/G	0	27/04/2004	38111.87847	8.15	0.0821	PCU/G	0.0397	PCU/G	1	5	16.5	PCU/G	PR
3100-0000-179-C-1C-01	MSR#04-1223	11637001	328906	10198-40-0	Cobalt-60	TRG 8	UHASL300	HASL300	REG	5.2	0.406	PCU/G	0	27/04/2004	38111.87847	8.15	0.0833	PCU/G	0.0399	PCU/G	1	5	16.5	PCU/G	PR
3100-0000-179-C-1C-01	MSR#04-1223	11637001	328906	13966-00-2	Potassium-40	TRG 8	UHASL300	HASL300	REG	6.25	1.33	PCU/G	0	27/04/2004	38111.87847	8.15	0.786	PCU/G	0.357	PCU/G	1	5	16.5	PCU/G	PR
3100-0000-179-C-1C-01	MSR#04-1223	11637001	328906	13966-31-9	Manganese-54	TRG 8	UHASL300	HASL300	REG	0.0444	0.0563	PCU/G	0	27/04/2004	38111.87847	8.15	0.0934	PCU/G	0.045	PCU/G	1	5	16.5	PCU/G	PR
3100-0000-179-C-1C-01	MSR#04-1223	11637001	328906	13967-70-9	Cesium-134	TRG 8	UHASL300	HASL300	REG	0.287	0.113	PCU/G	0	27/04/2004	38111.87847	8.15	0.0935	PCU/G	0.045	PCU/G	1	5	16.5	PCU/G	PR
3100-0000-179-C-1C-01	MSR#04-1223	11637001	328906	13982-63-3	Radium-226	TRG 8	UHASL300	HASL300	REG	0.305	0.194	PCU/G	0	27/04/2004	38111.87847	8.15	0.149	PCU/G	0.0722	PCU/G	1	5	16.5	PCU/G	PR
3100-0000-179-C-1C-01	MSR#04-1223	11637001	328906	14331-83-0	Actinium-228	TRG 8	UHASL300	HASL300	REG	0.401	0.365	PCU/G	0	27/04/2004	38111.87847	8.15	0.433	PCU/G	0.21	PCU/G	1	5	16.5	PCU/G	PR
3100-0000-179-C-1C-01	MSR#04-1223	11637001	328906	14391-16-3	Europium-155	TRG 8	UHASL300	HASL300	REG	0.0344	0.114	PCU/G	0	27/04/2004	38111.87847	8.15	0.164	PCU/G	0.0805	PCU/G	1	5	16.5	PCU/G	PR
3100-0000-179-C-1C-01	MSR#04-1223	11637001	328906	14391-65-2	Silver-108m	TRG 8	UHASL300	HASL300	REG	0.0229	0.0607	PCU/G	0	27/04/2004	38111.87847	8.15	0.0933	PCU/G	0.0457	PCU/G	1	5	16.5	PCU/G	PR
3100-0000-179-C-1C-01	MSR#04-1223	11637001	328906	14596-10-2	Americium-241	TRG 8	UHASL300	HASL300	REG	0.0304	0.167	PCU/G	0	27/04/2004	38111.87847	8.15	0.237	PCU/G	0.116	PCU/G	1	5	16.5	PCU/G	PR
3100-0000-179-C-1C-01	MSR#04-1223	11637001	328906	14681-63-1	Niobium-94	TRG 8	UHASL300	HASL300	REG	0.0361	0.0321	PCU/G	0	27/04/2004	38111.87847	8.15	0.0696	PCU/G	0.0335	PCU/G	1	5	16.5	PCU/G	PR
3100-0000-179-C-1C-01	MSR#04-1223	11637001	328906	14683-23-9	Europium-152	TRG 8	UHASL300	HASL300	REG	-0.0517	0.141	PCU/G	0	27/04/2004	38111.87847	8.15	0.214	PCU/G	0.105	PCU/G	1	5	16.5	PCU/G	PR
3100-0000-179-C-1C-01	MSR#04-1223	11637001	328906	14733-03-0	Bismuth-214	TRG 8	UHASL300	HASL300	REG	0.305	0.194	PCU/G	0	27/04/2004	38111.87847	8.15	0.149	PCU/G	0.0722	PCU/G	1	5	16.5	PCU/G	PR
3100-0000-179-C-1C-01	MSR#04-1223	11637001	328906	14913-49-6	Bismuth-212	TRG 8	UHASL300	HASL300	REG	0.495	0.395	PCU/G	0	27/04/2004	38111.87847	8.15	0.664	PCU/G	0.321	PCU/G	1	5	16.5	PCU/G	PR
3100-0000-179-C-1C-01	MSR#04-1223	11637001	328906	14913-50-9	Thallium-208	TRG 8	UHASL300	HASL300	REG	0.196	0.119	PCU/G	0	27/04/2004	38111.87847	8.15	0.0843	PCU/G	0.0409	PCU/G	1	5	16.5	PCU/G	PR
3100-0000-179-C-1C-01	MSR#04-1223	11637001	328906	15067-28-4	Lead-214	TRG 8	UHASL300	HASL300	REG	0.457	0.179	PCU/G	0	27/04/2004	38111.87847	8.15	0.163	PCU/G	0.0796	PCU/G	1	5	16.5	PCU/G	PR
3100-0000-179-C-1C-01	MSR#04-1223	11637001	328906	15092-94-1	Lead-212	TRG 8	UHASL300	HASL300	REG	0.356	0.125	PCU/G	0	27/04/2004	38111.87847	8.15	0.112	PCU/G	0.0548	PCU/G	1	5	16.5	PCU/G	PR
3100-0000-179-C-1C-01	MSR#04-1223	11637001	328906	15585-10-1	Europium-154	TRG 8	UHASL300	HASL300	REG	0.0685	0.133	PCU/G	0	27/04/2004	38111.87847	8.15	0.234	PCU/G	0.11	PCU/G	1	5	16.5	PCU/G	PR
3100-0000-179-C-1C-02	MSR#04-1223	11637002	328906	10045-97-3	Cesium-137	TRG 8	UHASL300	HASL300	REG	0.102	0.098	PCU/G	0	27/04/2004	38111.87847	8.16	0.0915	PCU/G	0.0442	PCU/G	1	5	16.5	PCU/G	PR
3100-0000-179-C-1C-02	MSR#04-1223	11637002	328906	10198-40-0	Cobalt-60	TRG 8	UHASL300	HASL300	REG	0.153	0.0932	PCU/G	0	27/04/2004	38111.87847	8.16	0.126	PCU/G	0.0602	PCU/G	1	5	16.5	PCU/G	PR
3100-0000-179-C-1C-02	MSR#04-1223	11637002	328906	13966-00-2	Potassium-40	TRG 8	UHASL300	HASL300	REG	4.95	1.77	PCU/G	0	27/04/2004	38111.87847	8.16	1.06	PCU/G	0.502	PCU/G	1	5	16.5	PCU/G	PR
3100-0000-179-C-1C-02	MSR#04-1223	11637002	328906	13966-31-9	Manganese-54	TRG 8	UHASL300	HASL300	REG	-0.0349	0.06	PCU/G	0	27/04/2004	38111.87847	8.16	0.0956	PCU/G	0.0459	PCU/G	1	5	16.5	PCU/G	PR
3100-0000-179-C-1C-02	MSR#04-1223	11637002	328906	13967-70-9	Cesium-134	TRG 8	UHASL300	HASL300	REG	0.0242	0.0965	PCU/G	0	27/04/2004	38111.87847	8.16	0.115	PCU/G	0.0556	PCU/G	1	5	16.5	PCU/G	PR
3100-0000-179-C-1C-02	MSR#04-1223	11637002	328906	13982-63-3	Radium-226	TRG 8	UHASL300	HASL300	REG	0.374	0.226	PCU/G	0	27/04/2004	38111.87847	8.16	0.162	PCU/G	0.0781	PCU/G	1	5	16.5	PCU/G	PR
3100-0000-179-C-1C-02	MSR#04-1223	11637002	328906	14331-83-0	Actinium-228	TRG 8	UHASL300	HASL300	REG	0.437	0.478	PCU/G	0	27/04/2004	38111.87847	8.16	0.363	PCU/G	0.175	PCU/G	1	5	16.5	PCU/G	PR
3100-0000-179-C-1C-02	MSR#04-1223	11637002	328906	14391-16-3	Europium-155	TRG 8	UHASL300	HASL300	REG	0.0291	0.0925	PCU/G	0	27/04/2004	38111.87847	8.16	0.138	PCU/G	0.0673	PCU/G	1	5	16.5	PCU/G	PR
3100-0000-179-C-1C-02	MSR#04-1223	11637002	328906	14391-65-2	Silver-108m	TRG 8	UHASL300	HASL300	REG	-0.0169	0.0451	PCU/G	0	27/04/2004	38111.87847	8.16	0.07	PCU/G	0.0339	PCU/G	1	5	16.5	PCU/G	PR
3100-0000-179-C-1C-02	MSR#04-1223	11637002	328906	14596-10-2	Americium-241	TRG 8	UHASL300	HASL300	REG	-0.00108	0.0539	PCU/G	0	27/04/2004	38111.87847	8.16	0.0714	PCU/G	0.0348	PCU/G	1	5	16.5	PCU/G	PR
3100-0000-179-C-1C-02	MSR#04-1223	11637002	328906	14681-63-1	Niobium-94	TRG 8	UHASL300	HASL300	REG	0.0243	0.0528	PCU/G	0	27/04/2004	38111.87847	8.16	0.09	PCU/G	0.0436	PCU/G	1	5	16.5	PCU/G	PR
3100-0000-179-C-1C-02	MSR#04-1223	11637002	328906	14683-23-9	Europium-152	TRG 8	UHASL300	HASL300	REG	0.0671	0.125	PCU/G	0	27/04/2004	38111.87847	8.16	0.199	PCU/G	0.0969	PCU/G	1	5	16.5	PCU/G	PR
3100-0000-179-C-1C-02	MSR#04-1223	11637002	328906	14733-03-0	Bismuth-214	TRG 8	UHASL300	HASL300	REG	0.374	0.226	PCU/G	0	27/04/2004	38111.87847	8.16	0.162	PCU/G	0.0781	PCU/G	1	5	16.5	PCU/G	PR
3100-0000-179-C-1C-02	MSR#04-1223	11637002	328906	14913-49-6	Bismuth-212	TRG 8	UHASL300	HASL300	REG	0.281	0.482	PCU/G	0	27/04/2004	38111.87847	8.16	0.766	PCU/G	0.37	PCU/G	1	5	16.5	PCU/G	PR
3100-0000-179-C-1C-02	MSR#04-1223	11637002	328906	14913-50-9	Thallium-208	TRG 8	UHASL300	HASL300	REG	0.21	0.118	PCU/G	0	27/04/2004	38111.87847	8.16	0.0892	PCU/G	0.0432	PCU/G	1	5	16.5	PCU/G	PR
3100-0000-179-C-1C-02	MSR#04-1223	11637002	328906	15067-28-4	Lead-214	TRG 8	UHASL300	HASL300	REG	0.298	0.198	PCU/G	0	27/04/2004	38111.87847	8.16	0.146	PCU/G	0.0712	PCU/G	1	5	16.5	PCU/G	PR
3100-0000-179-C-1C-02	MSR#04-1223	11637002	328906	15092-94-1	Lead-212	TRG 8	UHASL300	HASL300	REG	0.399	0.128	PCU/G	0	27/04/2004	38111.87847	8.16	0.0992	PCU/G	0.0484	PCU/G	1	5	16.5	PCU/G	PR
3100-0000-179-C-1C-02	MSR#04-1223	11637002	328906	15585-10-1	Europium-154	TRG 8	UHASL300	HASL300	REG	0.0359	0.274	PCU/G	0	27/04/2004	38111.87847	8.16	0.308	PCU/G	0.147	PCU/G	1	5	16.5	PCU/G	PR
3100-0000-175-C-1C-01	MSR#04-1223	11637003	328906	10045-97-3	Cesium-137	TRG 8	UHASL300	HASL300	REG	34.9	3.37	PCU/G	0	27/04/2004	38111.87847	9.13	0.0959	PCU/G	0.0465	PCU/G	1	5.1	16.1	PCU/G	PR
3100-0000-175-C-1C-01	MSR#04-1223	11637003	328906	10198-40-0	Cobalt-60	TRG 8	UHASL300	HASL300	REG	7.78	0.669	PCU/G	0	27/04/2004	38111.87847	9.13	0.0915	PCU/G	0.043	PCU/G	1	5.1	16.1	PCU/G	PR
3100-0000-175-C-1C-01	MSR#04-1223	11637003	328906	13966-00-2	Potassium-40	TRG 8	UHASL300	HASL300	REG	7.36	1.37	PCU/G	0	27/04/2004	38111.87847	9.13	0.662	PCU/G	0.303	PCU/G	1	5.1	16.1	PCU/G	PR
3100-0000-175-C-1C-01	MSR#04-1223	11637003	328906	13966-31-9	Manganese-54	TRG 8	UHASL300	HASL300	REG	-0.00119	0.0627	PCU/G	0	27/04/2004	38111.87847	9.13	0.103	PCU/G	0.0497	PCU/G	1	5.1	16.1	PCU/G	PR
3100-0000-175-C-1C-01	MSR#04-1223	11637003	328906	13967-70-9	Cesium-134	TRG 8	UHASL300	HASL300	REG	0	0.11	PCU/G	0	27/04/2004	38111.87847	9.13	0.115	PCU/G	0.0545	PCU/G	1	5.1	16.1	PCU/G	PR
3100-0000-175-C-1C-01	MSR#04-1223	11637003	328906	13982-63-3	Radium-226	TRG 8	UHASL300	HASL300	REG	0.381	0.173	PCU/G	0	27/04/2004	38111.87847	9.13	0.178	PCU/G	0.0868	PCU/G	1	5.1	16.1	PCU/G	PR
3100-0000-175-C-1C-01	MSR#04-1223	11637003	328906	14331-83-0	Actinium-228	TRG 8	UHASL300	HASL300	REG	0.178	0.329	PCU/G	0	27/04/2004	38111.87847	9.13	0.411	PCU/G	0.199	PCU/G	1	5.1	16.1	PCU/G	PR
3100-0000-175-C-1C-01	MSR#04-1223	11637003	328906	14391-16-3	Europium-155	TRG 8	UHASL300	HASL300	REG	-0.0455	0.121	PCU/G	0	27/04/2004	38111.87847	9.13	0.175	PCU/G	0.0856	PCU/G	1	5.1	16.1	PCU/G	PR
3100-0000-175-C-1C-01	MSR#04-1223	11637003	328906	14391-65-2	Silver-108m	TRG 8	UHASL300	HASL300																	

3100-0000-179-C-4C-01	MSR#04-1223	111637005	328906	10198-40-0	Cobalt-60	TRG 8	UHASL300	HASL300	REG	0.0241	0.0392	PCIG	0	U	27/04/2004	38111.87847	10.53	0.0658	PCIG	0.03	PCIG	1	5.6	19.1	PCIG	PR
3100-0000-179-C-4C-01	MSR#04-1223	111637005	328906	13966-00-2	Potassium-40	TRG 8	UHASL300	HASL300	REG	6.2	1.19	PCIG	0	U	27/04/2004	38111.87847	10.53	0.551	PCIG	0.246	PCIG	1	5.6	19.1	PCIG	PR
3100-0000-179-C-4C-01	MSR#04-1223	111637005	328906	13966-31-9	Manganese-54	TRG 8	UHASL300	HASL300	REG	-0.0028	0.0342	PCIG	0	U	27/04/2004	38111.87847	10.53	0.0558	PCIG	0.0261	PCIG	1	5.6	19.1	PCIG	PR
3100-0000-179-C-4C-01	MSR#04-1223	111637005	328906	13967-70-9	Cesium-134	TRG 8	UHASL300	HASL300	REG	0.0554	0.0618	PCIG	0	U	27/04/2004	38111.87847	10.53	0.0661	PCIG	0.0311	PCIG	1	5.6	19.1	PCIG	PR
3100-0000-179-C-4C-01	MSR#04-1223	111637005	328906	13982-63-3	Radium-226	TRG 8	UHASL300	HASL300	REG	0.435	0.139	PCIG	0	U	27/04/2004	38111.87847	10.53	0.0913	PCIG	0.043	PCIG	1	5.6	19.1	PCIG	PR
3100-0000-179-C-4C-01	MSR#04-1223	111637005	328906	14331-83-0	Actinium-228	TRG 8	UHASL300	HASL300	REG	0.549	0.245	PCIG	0	U	27/04/2004	38111.87847	10.53	0.19	PCIG	0.0878	PCIG	1	5.6	19.1	PCIG	PR
3100-0000-179-C-4C-01	MSR#04-1223	111637005	328906	14391-16-3	Europium-155	TRG 8	UHASL300	HASL300	REG	0.156	0.0785	PCIG	0	U	27/04/2004	38111.87847	10.53	0.121	PCIG	0.0583	PCIG	1	5.6	19.1	PCIG	PR
3100-0000-179-C-4C-01	MSR#04-1223	111637005	328906	14391-65-2	Silver-108m	TRG 8	UHASL300	HASL300	REG	7.57E-05	0.0246	PCIG	0	U	27/04/2004	38111.87847	10.53	0.043	PCIG	0.0204	PCIG	1	5.6	19.1	PCIG	PR
3100-0000-179-C-4C-01	MSR#04-1223	111637005	328906	14596-10-2	Americium-241	TRG 8	UHASL300	HASL300	REG	0.0518	0.179	PCIG	0	U	27/04/2004	38111.87847	10.53	0.231	PCIG	0.111	PCIG	1	5.6	19.1	PCIG	PR
3100-0000-179-C-4C-01	MSR#04-1223	111637005	328906	14681-63-1	Niobium-94	TRG 8	UHASL300	HASL300	REG	-0.0142	0.0314	PCIG	0	U	27/04/2004	38111.87847	10.53	0.0496	PCIG	0.0234	PCIG	1	5.6	19.1	PCIG	PR
3100-0000-179-C-4C-01	MSR#04-1223	111637005	328906	14683-23-9	Europium-152	TRG 8	UHASL300	HASL300	REG	0.0207	0.0791	PCIG	0	U	27/04/2004	38111.87847	10.53	0.123	PCIG	0.0588	PCIG	1	5.6	19.1	PCIG	PR
3100-0000-179-C-4C-01	MSR#04-1223	111637005	328906	14733-03-0	Bismuth-214	TRG 8	UHASL300	HASL300	REG	0.435	0.139	PCIG	0	U	27/04/2004	38111.87847	10.53	0.0913	PCIG	0.043	PCIG	1	5.6	19.1	PCIG	PR
3100-0000-179-C-4C-01	MSR#04-1223	111637005	328906	14913-49-6	Bismuth-212	TRG 8	UHASL300	HASL300	REG	0.0904	0.351	PCIG	0	U	27/04/2004	38111.87847	10.53	0.391	PCIG	0.182	PCIG	1	5.6	19.1	PCIG	PR
3100-0000-179-C-4C-01	MSR#04-1223	111637005	328906	14913-50-9	Thallium-208	TRG 8	UHASL300	HASL300	REG	0.132	0.0697	PCIG	0	U	27/04/2004	38111.87847	10.53	0.0492	PCIG	0.0232	PCIG	1	5.6	19.1	PCIG	PR
3100-0000-179-C-4C-01	MSR#04-1223	111637005	328906	15067-28-4	Lead-214	TRG 8	UHASL300	HASL300	REG	0.559	0.143	PCIG	0	U	27/04/2004	38111.87847	10.53	0.0895	PCIG	0.0428	PCIG	1	5.6	19.1	PCIG	PR
3100-0000-179-C-4C-01	MSR#04-1223	111637005	328906	15092-94-1	Lead-212	TRG 8	UHASL300	HASL300	REG	0.507	0.0952	PCIG	0	U	27/04/2004	38111.87847	10.53	0.0646	PCIG	0.0311	PCIG	1	5.6	19.1	PCIG	PR
3100-0000-179-C-4C-01	MSR#04-1223	111637005	328906	15585-10-1	Europium-154	TRG 8	UHASL300	HASL300	REG	-0.0809	0.106	PCIG	0	U	27/04/2004	38111.87847	10.53	0.169	PCIG	0.0766	PCIG	1	5.6	19.1	PCIG	PR
3100-0000-179-C-4C-02	MSR#04-1223	111637006	328553	10098-97-2	Strontium-90	TRG 45	UE905M	E905M	REG	0.0183	0.0079	PCIG	0	U	28/04/2004	38111.29514	5.21	0.0138	PCIG	0.0056	PCIG	1	6.4	8.54	PCIG	PR
3100-0000-179-C-4C-02	MSR#04-1223	111637006	328693	14596-10-2	Americium-241	TRG 1	UAM05RCM	AM05RCM	REG	0.00048	0.0176	PCIG	0	U	28/04/2004	38111.29444	1.31	0.0525	PCIG	0.0185	PCIG	1	6.4	1.07	PCIG	PR
3100-0000-179-C-4C-02	MSR#04-1223	111637006	328693	OER-100-93	Curium-242	TRG 1	UAM05RCM	AM05RCM	REG	-0.00317	0.0137	PCIG	0	U	28/04/2004	38111.29444	1.31	0.0392	PCIG	0.0106	PCIG	1	6.4	1.07	PCIG	PR
3100-0000-179-C-4C-02	MSR#04-1223	111637006	328693	OER-101-57	Curium-243/244	TRG 1	UAM05RCM	AM05RCM	REG	-0.00345	0.0221	PCIG	0	U	28/04/2004	38111.29444	1.31	0.0663	PCIG	0.0254	PCIG	1	6.4	1.07	PCIG	PR
3100-0000-179-C-4C-02	MSR#04-1223	111637006	328694	13981-16-3	Plutonium-238	TRG 32	UPU11RCM	PU11RCM	REG	0.00791	0.0112	PCIG	0	U	28/04/2004	38111.29375	10.16	0.0191	PCIG	0.00524	PCIG	1	6.4	1.07	PCIG	PR
3100-0000-179-C-4C-02	MSR#04-1223	111637006	328694	OER-100-70	Plutonium-239/240	TRG 32	UPU11RCM	PU11RCM	REG	0.00314	0.00984	PCIG	0	U	28/04/2004	38111.29375	10.16	0.0234	PCIG	0.00741	PCIG	1	6.4	1.07	PCIG	PR
3100-0000-179-C-4C-02	MSR#04-1223	111637006	328695	14119-32-5	Plutonium-241	TRG 36	UPU11RCM	PU11RCM	REG	-0.286	2.38	PCIG	0	U	28/04/2004	38111.29514	7.41	4.09	PCIG	2	PCIG	1	6.4	2.03	PCIG	PR
3100-0000-179-C-4C-02	MSR#04-1223	111637006	328815	10028-17-8	Tritium	TRG 20	UE906.0	E906.0	REG	9.34	2.02	PCIG	0	U	27/04/2004	38109.65417	8.33	2.78	PCIG	1.39	PCIG	1	6.4	1	PCIG	PR
3100-0000-179-C-4C-02	MSR#04-1223	111637006	328843	14762-75-5	Carbon-14	TRG 5	ULSC	LSC	REG	-0.19	0.316	PCIG	0	U	27/04/2004	38079.67361	8.00	0.55	PCIG	0.269	PCIG	1	6.4	3.01	PCIG	PR
3100-0000-179-C-4C-02	MSR#04-1223	111637006	328906	10045-97-3	Cesium-137	TRG 8	UHASL300	HASL300	REG	0.0821	0.0526	PCIG	0	U	27/04/2004	38111.87847	10.54	0.0557	PCIG	0.0263	PCIG	1	6.4	17	PCIG	PR
3100-0000-179-C-4C-02	MSR#04-1223	111637006	328906	10198-40-0	Cobalt-60	TRG 8	UHASL300	HASL300	REG	0	0.0609	PCIG	0	UUU	27/04/2004	38111.87847	10.54	0.0858	PCIG	0.0398	PCIG	1	6.4	17	PCIG	PR
3100-0000-179-C-4C-02	MSR#04-1223	111637006	328906	13966-00-2	Potassium-40	TRG 8	UHASL300	HASL300	REG	7.18	1.15	PCIG	0	U	27/04/2004	38111.87847	10.54	0.619	PCIG	0.279	PCIG	1	6.4	17	PCIG	PR
3100-0000-179-C-4C-02	MSR#04-1223	111637006	328906	13966-31-9	Manganese-54	TRG 8	UHASL300	HASL300	REG	0.0111	0.0393	PCIG	0	U	27/04/2004	38111.87847	10.54	0.0646	PCIG	0.0304	PCIG	1	6.4	17	PCIG	PR
3100-0000-179-C-4C-02	MSR#04-1223	111637006	328906	13967-70-9	Cesium-134	TRG 8	UHASL300	HASL300	REG	0.0307	0.0391	PCIG	0	U	27/04/2004	38111.87847	10.54	0.057	PCIG	0.0315	PCIG	1	6.4	17	PCIG	PR
3100-0000-179-C-4C-02	MSR#04-1223	111637006	328906	13982-63-3	Radium-226	TRG 8	UHASL300	HASL300	REG	0.465	0.147	PCIG	0	U	27/04/2004	38111.87847	10.54	0.117	PCIG	0.0556	PCIG	1	6.4	17	PCIG	PR
3100-0000-179-C-4C-02	MSR#04-1223	111637006	328906	14331-83-0	Actinium-228	TRG 8	UHASL300	HASL300	REG	0.41	0.286	PCIG	0	U	27/04/2004	38111.87847	10.54	0.227	PCIG	0.108	PCIG	1	6.4	17	PCIG	PR
3100-0000-179-C-4C-02	MSR#04-1223	111637006	328906	14391-16-3	Europium-155	TRG 8	UHASL300	HASL300	REG	0.0584	0.0803	PCIG	0	U	27/04/2004	38111.87847	10.54	0.122	PCIG	0.0587	PCIG	1	6.4	17	PCIG	PR
3100-0000-179-C-4C-02	MSR#04-1223	111637006	328906	14391-65-2	Silver-108m	TRG 8	UHASL300	HASL300	REG	-0.00831	0.0275	PCIG	0	U	27/04/2004	38111.87847	10.54	0.0434	PCIG	0.0206	PCIG	1	6.4	17	PCIG	PR
3100-0000-179-C-4C-02	MSR#04-1223	111637006	328906	14596-10-2	Americium-241	TRG 8	UHASL300	HASL300	REG	0.0326	0.186	PCIG	0	U	27/04/2004	38111.87847	10.54	0.245	PCIG	0.119	PCIG	1	6.4	17	PCIG	PR
3100-0000-179-C-4C-02	MSR#04-1223	111637006	328906	14681-63-1	Niobium-94	TRG 8	UHASL300	HASL300	REG	-0.0158	0.0323	PCIG	0	U	27/04/2004	38111.87847	10.54	0.0501	PCIG	0.0236	PCIG	1	6.4	17	PCIG	PR
3100-0000-179-C-4C-02	MSR#04-1223	111637006	328906	14683-23-9	Europium-152	TRG 8	UHASL300	HASL300	REG	-0.0682	0.0797	PCIG	0	U	27/04/2004	38111.87847	10.54	0.122	PCIG	0.0583	PCIG	1	6.4	17	PCIG	PR
3100-0000-179-C-4C-02	MSR#04-1223	111637006	328906	14733-03-0	Bismuth-214	TRG 8	UHASL300	HASL300	REG	0.465	0.147	PCIG	0	U	27/04/2004	38111.87847	10.54	0.117	PCIG	0.0556	PCIG	1	6.4	17	PCIG	PR
3100-0000-179-C-4C-02	MSR#04-1223	111637006	328906	14913-49-6	Bismuth-212	TRG 8	UHASL300	HASL300	REG	0.0259	0.528	PCIG	0	U	27/04/2004	38111.87847	10.54	0.484	PCIG	0.229	PCIG	1	6.4	17	PCIG	PR
3100-0000-179-C-4C-02	MSR#04-1223	111637006	328906	14913-50-9	Thallium-208	TRG 8	UHASL300	HASL300	REG	0.197	0.0623	PCIG	0	U	27/04/2004	38111.87847	10.54	0.0548	PCIG	0.0259	PCIG	1	6.4	17	PCIG	PR
3100-0000-179-C-4C-02	MSR#04-1223	111637006	328906	15067-28-4	Lead-214	TRG 8	UHASL300	HASL300	REG	0.445	0.136	PCIG	0	U	27/04/2004	38111.87847	10.54	0.0923	PCIG	0.0442	PCIG	1	6.4	17	PCIG	PR
3100-0000-179-C-4C-02	MSR#04-1223	111637006	328906	15092-94-1	Lead-212	TRG 8	UHASL300	HASL300	REG	0.598	0.076	PCIG	0	U	27/04/2004	38111.87847	10.54	0.0631	PCIG	0.0303	PCIG	1	6.4	17	PCIG	PR
3100-0000-179-C-4C-02	MSR#04-1223	111637006	328906	15585-10-1	Europium-154	TRG 8	UHASL300	HASL300	REG	-0.0524	0.119	PCIG														

3100-0000-175-C-4C-02	MSR#04-1223	111637008	328906	13966-00-2	Potassium-40	TRG 8	UHASI.300	HASI.300	REG	7.23	1.19	PCU/G	0	27/04/2004	38111.87847	11:09	0.56	PCU/G	0.261	PCU/G	1	5.4	19/G	PCU/G	PR
3100-0000-175-C-4C-02	MSR#04-1223	111637008	328906	13966-31-9	Manganese-54	TRG 8	UHASI.300	HASI.300	REG	0.00643	0.0352	PCU/G	0	27/04/2004	38111.87847	11:09	0.0574	PCU/G	0.0275	PCU/G	1	5.4	19/G	PCU/G	PR
3100-0000-175-C-4C-02	MSR#04-1223	111637008	328906	13967-70-9	Cesium-134	TRG 8	UHASI.300	HASI.300	REG	0.0444	0.0357	PCU/G	0	27/04/2004	38111.87847	11:09	0.061	PCU/G	0.0292	PCU/G	1	5.4	19/G	PCU/G	PR
3100-0000-175-C-4C-02	MSR#04-1223	111637008	328906	13982-63-3	Radium-226	TRG 8	UHASI.300	HASI.300	REG	0.343	0.14	PCU/G	0	27/04/2004	38111.87847	11:09	0.101	PCU/G	0.0485	PCU/G	1	5.4	19/G	PCU/G	PR
3100-0000-175-C-4C-02	MSR#04-1223	111637008	328906	14331-83-0	Actinium-228	TRG 8	UHASI.300	HASI.300	REG	0.531	0.243	PCU/G	0	27/04/2004	38111.87847	11:09	0.178	PCU/G	0.0846	PCU/G	1	5.4	19/G	PCU/G	PR
3100-0000-175-C-4C-02	MSR#04-1223	111637008	328906	14391-16-3	Europium-155	TRG 8	UHASI.300	HASI.300	REG	0.064	0.123	PCU/G	0	27/04/2004	38111.87847	11:09	0.134	PCU/G	0.0553	PCU/G	1	5.4	19/G	PCU/G	PR
3100-0000-175-C-4C-02	MSR#04-1223	111637008	328906	14391-65-2	Silver-108m	TRG 8	UHASI.300	HASI.300	REG	0.06672	0.027	PCU/G	0	27/04/2004	38111.87847	11:09	0.0419	PCU/G	0.0202	PCU/G	1	5.4	19/G	PCU/G	PR
3100-0000-175-C-4C-02	MSR#04-1223	111637008	328906	14596-10-2	Americium-241	TRG 8	UHASI.300	HASI.300	REG	-0.159	0.182	PCU/G	0	27/04/2004	38111.87847	11:09	0.245	PCU/G	0.119	PCU/G	1	5.4	19/G	PCU/G	PR
3100-0000-175-C-4C-02	MSR#04-1223	111637008	328906	14681-63-1	Niobium-94	TRG 8	UHASI.300	HASI.300	REG	0.0178	0.0293	PCU/G	0	27/04/2004	38111.87847	11:09	0.0486	PCU/G	0.0234	PCU/G	1	5.4	19/G	PCU/G	PR
3100-0000-175-C-4C-02	MSR#04-1223	111637008	328906	14683-23-9	Europium-152	TRG 8	UHASI.300	HASI.300	REG	-0.0533	0.0805	PCU/G	0	27/04/2004	38111.87847	11:09	0.12	PCU/G	0.0578	PCU/G	1	5.4	19/G	PCU/G	PR
3100-0000-175-C-4C-02	MSR#04-1223	111637008	328906	14733-03-0	Bismuth-214	TRG 8	UHASI.300	HASI.300	REG	0.343	0.14	PCU/G	0	27/04/2004	38111.87847	11:09	0.101	PCU/G	0.0485	PCU/G	1	5.4	19/G	PCU/G	PR
3100-0000-175-C-4C-02	MSR#04-1223	111637008	328906	14913-49-6	Bismuth-212	TRG 8	UHASI.300	HASI.300	REG	0.696	0.458	PCU/G	0	27/04/2004	38111.87847	11:09	0.393	PCU/G	0.188	PCU/G	1	5.4	19/G	PCU/G	PR
3100-0000-175-C-4C-02	MSR#04-1223	111637008	328906	14913-50-9	Thallium-208	TRG 8	UHASI.300	HASI.300	REG	0.154	0.0658	PCU/G	0	27/04/2004	38111.87847	11:09	0.0482	PCU/G	0.0231	PCU/G	1	5.4	19/G	PCU/G	PR
3100-0000-175-C-4C-02	MSR#04-1223	111637008	328906	15067-28-4	Lead-214	TRG 8	UHASI.300	HASI.300	REG	0.485	0.141	PCU/G	0	27/04/2004	38111.87847	11:09	0.0832	PCU/G	0.0402	PCU/G	1	5.4	19/G	PCU/G	PR
3100-0000-175-C-4C-02	MSR#04-1223	111637008	328906	15092-94-1	Lead-212	TRG 8	UHASI.300	HASI.300	REG	0.551	0.0978	PCU/G	0	27/04/2004	38111.87847	11:09	0.0653	PCU/G	0.0317	PCU/G	1	5.4	19/G	PCU/G	PR
3100-0000-175-C-4C-02	MSR#04-1223	111637008	328906	15585-10-1	Europium-154	TRG 8	UHASI.300	HASI.300	REG	-0.0138	0.113	PCU/G	0	27/04/2004	38111.87847	11:09	0.163	PCU/G	0.0764	PCU/G	1	5.4	19/G	PCU/G	PR
3100-0000-179-C-9C-01	MSR#04-1223	111637009	328553	10098-97-2	Strontium-90	TRG 45	UE905M	E905M	REG	0.0054	0.0071	PCU/G	0	28/04/2004	38111.29514	6:54	0.0136	PCU/G	0.0065	PCU/G	1	4.2	8.6/G	PCU/G	PR
3100-0000-179-C-9C-01	MSR#04-1223	111637009	328815	10028-17-8	Tritium	TRG 20	UE906 0	E906 0	REG	1.7	1.85	PCU/G	0	27/04/2004	38109.65417	10:09	2.38	PCU/G	1.49	PCU/G	1	4.2	1	PCU/G	PR
3100-0000-179-C-9C-01	MSR#04-1223	111637009	328906	10045-97-3	Cesium-137	TRG 8	UHASI.300	HASI.300	REG	0.0245	0.0455	PCU/G	0	27/04/2004	38111.87847	11:19	0.0757	PCU/G	0.0357	PCU/G	1	4.2	15.4/G	PCU/G	PR
3100-0000-179-C-9C-01	MSR#04-1223	111637009	328906	10198-40-0	Cobalt-60	TRG 8	UHASI.300	HASI.300	REG	0.0117	0.0622	PCU/G	0	27/04/2004	38111.87847	11:19	0.0955	PCU/G	0.0437	PCU/G	1	4.2	15.4/G	PCU/G	PR
3100-0000-179-C-9C-01	MSR#04-1223	111637009	328906	13966-00-2	Potassium-40	TRG 8	UHASI.300	HASI.300	REG	6.66	1.55	PCU/G	0	27/04/2004	38111.87847	11:19	0.845	PCU/G	0.382	PCU/G	1	4.2	15.4/G	PCU/G	PR
3100-0000-179-C-9C-01	MSR#04-1223	111637009	328906	13966-31-9	Manganese-54	TRG 8	UHASI.300	HASI.300	REG	0.0317	0.0444	PCU/G	0	27/04/2004	38111.87847	11:19	0.0793	PCU/G	0.0371	PCU/G	1	4.2	15.4/G	PCU/G	PR
3100-0000-179-C-9C-01	MSR#04-1223	111637009	328906	13967-70-9	Cesium-134	TRG 8	UHASI.300	HASI.300	REG	0.0763	0.0726	PCU/G	0	27/04/2004	38111.87847	11:19	0.092	PCU/G	0.0433	PCU/G	1	4.2	15.4/G	PCU/G	PR
3100-0000-179-C-9C-01	MSR#04-1223	111637009	328906	13982-63-3	Radium-226	TRG 8	UHASI.300	HASI.300	REG	0.443	0.237	PCU/G	0	27/04/2004	38111.87847	11:19	0.127	PCU/G	0.0597	PCU/G	1	4.2	15.4/G	PCU/G	PR
3100-0000-179-C-9C-01	MSR#04-1223	111637009	328906	14331-83-0	Actinium-228	TRG 8	UHASI.300	HASI.300	REG	0	0.389	PCU/G	0	27/04/2004	38111.87847	11:19	0.402	PCU/G	0.191	PCU/G	1	4.2	15.4/G	PCU/G	PR
3100-0000-179-C-9C-01	MSR#04-1223	111637009	328906	14391-16-3	Europium-155	TRG 8	UHASI.300	HASI.300	REG	0.0901	0.117	PCU/G	0	27/04/2004	38111.87847	11:19	0.172	PCU/G	0.0832	PCU/G	1	4.2	15.4/G	PCU/G	PR
3100-0000-179-C-9C-01	MSR#04-1223	111637009	328906	14391-65-2	Silver-108m	TRG 8	UHASI.300	HASI.300	REG	-0.00628	0.0374	PCU/G	0	27/04/2004	38111.87847	11:19	0.0588	PCU/G	0.0279	PCU/G	1	4.2	15.4/G	PCU/G	PR
3100-0000-179-C-9C-01	MSR#04-1223	111637009	328906	14596-10-2	Americium-241	TRG 8	UHASI.300	HASI.300	REG	0.106	0.328	PCU/G	0	27/04/2004	38111.87847	11:19	0.334	PCU/G	0.161	PCU/G	1	4.2	15.4/G	PCU/G	PR
3100-0000-179-C-9C-01	MSR#04-1223	111637009	328906	14681-63-1	Niobium-94	TRG 8	UHASI.300	HASI.300	REG	0.00711	0.0426	PCU/G	0	27/04/2004	38111.87847	11:19	0.0689	PCU/G	0.0325	PCU/G	1	4.2	15.4/G	PCU/G	PR
3100-0000-179-C-9C-01	MSR#04-1223	111637009	328906	14683-23-9	Europium-152	TRG 8	UHASI.300	HASI.300	REG	0.0036	0.126	PCU/G	0	27/04/2004	38111.87847	11:19	0.132	PCU/G	0.0671	PCU/G	1	4.2	15.4/G	PCU/G	PR
3100-0000-179-C-9C-01	MSR#04-1223	111637009	328906	14733-03-0	Bismuth-214	TRG 8	UHASI.300	HASI.300	REG	0.443	0.237	PCU/G	0	27/04/2004	38111.87847	11:19	0.127	PCU/G	0.0597	PCU/G	1	4.2	15.4/G	PCU/G	PR
3100-0000-179-C-9C-01	MSR#04-1223	111637009	328906	14913-49-6	Bismuth-212	TRG 8	UHASI.300	HASI.300	REG	0.675	0.479	PCU/G	0	27/04/2004	38111.87847	11:19	0.575	PCU/G	0.27	PCU/G	1	4.2	15.4/G	PCU/G	PR
3100-0000-179-C-9C-01	MSR#04-1223	111637009	328906	14913-50-9	Thallium-208	TRG 8	UHASI.300	HASI.300	REG	0.162	0.0915	PCU/G	0	27/04/2004	38111.87847	11:19	0.07	PCU/G	0.033	PCU/G	1	4.2	15.4/G	PCU/G	PR
3100-0000-179-C-9C-01	MSR#04-1223	111637009	328906	15067-28-4	Lead-214	TRG 8	UHASI.300	HASI.300	REG	0.471	0.177	PCU/G	0	27/04/2004	38111.87847	11:19	0.127	PCU/G	0.0606	PCU/G	1	4.2	15.4/G	PCU/G	PR
3100-0000-179-C-9C-01	MSR#04-1223	111637009	328906	15092-94-1	Lead-212	TRG 8	UHASI.300	HASI.300	REG	0.698	0.165	PCU/G	0	27/04/2004	38111.87847	11:19	0.0935	PCU/G	0.045	PCU/G	1	4.2	15.4/G	PCU/G	PR
3100-0000-179-C-9C-01	MSR#04-1223	111637009	328906	15585-10-1	Europium-154	TRG 8	UHASI.300	HASI.300	REG	-0.14	0.146	PCU/G	0	27/04/2004	38111.87847	11:19	0.224	PCU/G	0.101	PCU/G	1	4.2	15.4/G	PCU/G	PR
3100-0000-179-C-12C-01	MSR#04-1223	111637010	328553	10098-97-2	Strontium-90	TRG 45	UE905M	E905M	REG	-0.0007	0.0077	PCU/G	0	28/04/2004	38111.29514	6:54	0.0156	PCU/G	0.0075	PCU/G	1	5.6	8.5/G	PCU/G	PR
3100-0000-179-C-12C-01	MSR#04-1223	111637010	328815	10028-17-8	Tritium	TRG 20	UE906 0	E906 0	REG	1.76	1.85	PCU/G	0	27/04/2004	38109.65417	10:40	2.76	PCU/G	1.38	PCU/G	1	5.6	1	PCU/G	PR
3100-0000-179-C-12C-01	MSR#04-1223	111637010	328906	10045-97-3	Cesium-137	TRG 8	UHASI.300	HASI.300	REG	0.0285	0.0301	PCU/G	0	27/04/2004	38111.87847	11:20	0.0514	PCU/G	0.0244	PCU/G	1	5.6	20.4/G	PCU/G	PR
3100-0000-179-C-12C-01	MSR#04-1223	111637010	328906	10198-40-0	Cobalt-60	TRG 8	UHASI.300	HASI.300	REG	0.00927	0.0366	PCU/G	0	27/04/2004	38111.87847	11:20	0.0641	PCU/G	0.0295	PCU/G	1	5.6	20.4/G	PCU/G	PR
3100-0000-179-C-12C-01	MSR#04-1223	111637010	328906	13966-00-2	Potassium-40	TRG 8	UHASI.300	HASI.300	REG	6.91	1.55	PCU/G	0	27/04/2004	38111.87847	11:20	0.87	PCU/G	0.359	PCU/G	1	5.6	20.4/G	PCU/G	PR
3100-0000-179-C-12C-01	MSR#04-1223	111637010	328906	13966-31-9	Manganese-54	TRG 8	UHASI.300	HASI.300	REG	0.0199	0.0396	PCU/G	0	27/04/2004	38111.87847	11:20	0.0506	PCU/G	0.0237	PCU/G	1	5.6	20.4/G	PCU/G	PR
3100-0000-179-C-12C-01	MSR#04-1223	111637010	328906	13967-70-9	Cesium-134	TRG 8	UHASI.300	HASI.300	REG	-0.00571	0.0352	PCU/G	0	27/04/2004	38111.87847	11:20	0.0559	PCU/G	0.0262	PCU/G	1	5.6	20.4/G	PCU/G	PR
3100-0000-179-C-12C-01	MSR#04-1223	111637010	328906	13982-63-3	Radium-226	TRG 8	UHASI.300	HASI.300	REG	0.287	0.108	PCU/G	0	27/04/2004	381										

3100-0000-179-C-15C-02	MSRF#04-1223	11637012	328906	13967-70-9	Cesium-134	TRG 8	UHASL300	HASL300	REG	0.0342	0.0482	PC/IG	0	U	27/04/2004	38111.87847	11.25	0.0843	PC/IG	0.0397	PC/IG	1	7.2	20	G	PC/IG	PR
3100-0000-179-C-15C-02	MSRF#04-1223	11637012	328906	13982-63-3	Radium-226	TRG 8	UHASL300	HASL300	REG	0.31	0.182	PC/IG	0	U	27/04/2004	38111.87847	11.25	0.115	PC/IG	0.0543	PC/IG	1	7.2	20	G	PC/IG	PR
3100-0000-179-C-15C-02	MSRF#04-1223	11637012	328906	14331-83-0	Actinium-228	TRG 8	UHASL300	HASL300	REG	0.456	0.359	PC/IG	0	U	27/04/2004	38111.87847	11.25	0.258	PC/IG	0.12	PC/IG	1	7.2	20	G	PC/IG	PR
3100-0000-179-C-15C-02	MSRF#04-1223	11637012	328906	14391-16-3	Europium-155	TRG 8	UHASL300	HASL300	REG	0.0361	0.0679	PC/IG	0	U	27/04/2004	38111.87847	11.25	0.0596	PC/IG	0.0481	PC/IG	1	7.2	20	G	PC/IG	PR
3100-0000-179-C-15C-02	MSRF#04-1223	11637012	328906	14391-65-2	Silver-108m	TRG 8	UHASL300	HASL300	REG	0.0125	0.0309	PC/IG	0	U	27/04/2004	38111.87847	11.25	0.05	PC/IG	0.0237	PC/IG	1	7.2	20	G	PC/IG	PR
3100-0000-179-C-15C-02	MSRF#04-1223	11637012	328906	14596-10-2	Americium-241	TRG 8	UHASL300	HASL300	REG	0.0047	0.0403	PC/IG	0	U	27/04/2004	38111.87847	11.25	0.0538	PC/IG	0.0261	PC/IG	1	7.2	20	G	PC/IG	PR
3100-0000-179-C-15C-02	MSRF#04-1223	11637012	328906	14681-63-1	Niobium-94	TRG 8	UHASL300	HASL300	REG	-0.00495	0.0392	PC/IG	0	U	27/04/2004	38111.87847	11.25	0.0648	PC/IG	0.0306	PC/IG	1	7.2	20	G	PC/IG	PR
3100-0000-179-C-15C-02	MSRF#04-1223	11637012	328906	14683-23-9	Europium-152	TRG 8	UHASL300	HASL300	REG	-0.00278	0.0971	PC/IG	0	U	27/04/2004	38111.87847	11.25	0.137	PC/IG	0.0652	PC/IG	1	7.2	20	G	PC/IG	PR
3100-0000-179-C-15C-02	MSRF#04-1223	11637012	328906	14733-03-0	Bismuth-214	TRG 8	UHASL300	HASL300	REG	0	0.183	PC/IG	0	U	27/04/2004	38111.87847	11.25	0.18	PC/IG	0.0987	PC/IG	1	7.2	20	G	PC/IG	PR
3100-0000-179-C-15C-02	MSRF#04-1223	11637012	328906	14913-49-6	Bismuth-212	TRG 8	UHASL300	HASL300	REG	0.184	0.369	PC/IG	0	U	27/04/2004	38111.87847	11.25	0.628	PC/IG	0.298	PC/IG	1	7.2	20	G	PC/IG	PR
3100-0000-179-C-15C-02	MSRF#04-1223	11637012	328906	14913-50-9	Thallium-208	TRG 8	UHASL300	HASL300	REG	0	0.0884	PC/IG	0	U	27/04/2004	38111.87847	11.25	0.1	PC/IG	0.0485	PC/IG	1	7.2	20	G	PC/IG	PR
3100-0000-179-C-15C-02	MSRF#04-1223	11637012	328906	15067-28-4	Lead-214	TRG 8	UHASL300	HASL300	REG	0.308	0.15	PC/IG	0	U	27/04/2004	38111.87847	11.25	0.0983	PC/IG	0.0469	PC/IG	1	7.2	20	G	PC/IG	PR
3100-0000-179-C-15C-02	MSRF#04-1223	11637012	328906	15092-94-1	Lead-212	TRG 8	UHASL300	HASL300	REG	0.315	0.0959	PC/IG	0	U	27/04/2004	38111.87847	11.25	0.0705	PC/IG	0.0339	PC/IG	1	7.2	20	G	PC/IG	PR
3100-0000-179-C-15C-02	MSRF#04-1223	11637012	328906	15585-10-1	Europium-154	TRG 8	UHASL300	HASL300	REG	-0.00842	0.14	PC/IG	0	U	27/04/2004	38111.87847	11.25	0.244	PC/IG	0.112	PC/IG	1	7.2	20	G	PC/IG	PR
3100-0000-179-C-10C-01	MSRF#04-1223	11637012	328553	10098-97-2	Strontium-90	TRG 45	UE905M	E905M	REG	0.0021	0.0079	PC/IG	0	U	28/04/2004	38111.29514	7.53	0.0157	PC/IG	0.0076	PC/IG	1	4.9	8.53	G	PC/IG	PR
3100-0000-175-C-10C-01	MSRF#04-1223	11637012	328815	10028-17-8	Tridium	TRG 20	UE906.0	E906.0	REG	0.108	1.61	PC/IG	0	U	27/04/2004	38109.65417	12.16	2.69	PC/IG	1.34	PC/IG	1	4.9		G	PC/IG	PR
3100-0000-175-C-10C-01	MSRF#04-1223	11637012	328906	10045-97-3	Cesium-137	TRG 8	UHASL300	HASL300	REG	0.0165	0.0315	PC/IG	0	U	27/04/2004	38111.87917	9.42	0.0539	PC/IG	0.0254	PC/IG	1	4.9	20.1	G	PC/IG	PR
3100-0000-175-C-10C-01	MSRF#04-1223	11637012	328906	10198-40-0	Cobalt-60	TRG 8	UHASL300	HASL300	REG	-0.00478	0.0596	PC/IG	0	U	27/04/2004	38111.87917	9.42	0.0625	PC/IG	0.0284	PC/IG	1	4.9	20.1	G	PC/IG	PR
3100-0000-175-C-10C-01	MSRF#04-1223	11637012	328906	13966-00-2	Potassium-40	TRG 8	UHASL300	HASL300	REG	6.49	1.03	PC/IG	0	U	27/04/2004	38111.87917	9.42	0.539	PC/IG	0.241	PC/IG	1	4.9	20.1	G	PC/IG	PR
3100-0000-175-C-10C-01	MSRF#04-1223	11637012	328906	13966-31-9	Manganese-54	TRG 8	UHASL300	HASL300	REG	-0.0079	0.0301	PC/IG	0	U	27/04/2004	38111.87917	9.42	0.0492	PC/IG	0.0228	PC/IG	1	4.9	20.1	G	PC/IG	PR
3100-0000-175-C-10C-01	MSRF#04-1223	11637012	328906	13967-70-9	Cesium-134	TRG 8	UHASL300	HASL300	REG	0.062	0.0544	PC/IG	0	U	27/04/2004	38111.87917	9.42	0.0664	PC/IG	0.0313	PC/IG	1	4.9	20.1	G	PC/IG	PR
3100-0000-175-C-10C-01	MSRF#04-1223	11637012	328906	13982-63-3	Radium-226	TRG 8	UHASL300	HASL300	REG	0.408	0.149	PC/IG	0	U	27/04/2004	38111.87917	9.42	0.0855	PC/IG	0.0402	PC/IG	1	4.9	20.1	G	PC/IG	PR
3100-0000-175-C-10C-01	MSRF#04-1223	11637012	328906	14331-83-0	Actinium-228	TRG 8	UHASL300	HASL300	REG	0.462	0.269	PC/IG	0	U	27/04/2004	38111.87917	9.42	0.204	PC/IG	0.0953	PC/IG	1	4.9	20.1	G	PC/IG	PR
3100-0000-175-C-10C-01	MSRF#04-1223	11637012	328906	14391-16-3	Europium-155	TRG 8	UHASL300	HASL300	REG	-0.00875	0.0666	PC/IG	0	U	27/04/2004	38111.87917	9.42	0.1	PC/IG	0.0483	PC/IG	1	4.9	20.1	G	PC/IG	PR
3100-0000-175-C-10C-01	MSRF#04-1223	11637012	328906	14391-65-2	Silver-108m	TRG 8	UHASL300	HASL300	REG	0.00345	0.0263	PC/IG	0	U	27/04/2004	38111.87917	9.42	0.0408	PC/IG	0.0194	PC/IG	1	4.9	20.1	G	PC/IG	PR
3100-0000-175-C-10C-01	MSRF#04-1223	11637012	328906	14596-10-2	Americium-241	TRG 8	UHASL300	HASL300	REG	-0.0227	0.0918	PC/IG	0	U	27/04/2004	38111.87917	9.42	0.136	PC/IG	0.0655	PC/IG	1	4.9	20.1	G	PC/IG	PR
3100-0000-175-C-10C-01	MSRF#04-1223	11637012	328906	14681-63-1	Niobium-94	TRG 8	UHASL300	HASL300	REG	0.0016	0.0288	PC/IG	0	U	27/04/2004	38111.87917	9.42	0.0478	PC/IG	0.0225	PC/IG	1	4.9	20.1	G	PC/IG	PR
3100-0000-175-C-10C-01	MSRF#04-1223	11637012	328906	14683-23-9	Europium-152	TRG 8	UHASL300	HASL300	REG	0.0455	0.0725	PC/IG	0	U	27/04/2004	38111.87917	9.42	0.115	PC/IG	0.0551	PC/IG	1	4.9	20.1	G	PC/IG	PR
3100-0000-175-C-10C-01	MSRF#04-1223	11637012	328906	14733-03-0	Bismuth-214	TRG 8	UHASL300	HASL300	REG	0.408	0.149	PC/IG	0	U	27/04/2004	38111.87917	9.42	0.0855	PC/IG	0.0402	PC/IG	1	4.9	20.1	G	PC/IG	PR
3100-0000-175-C-10C-01	MSRF#04-1223	11637012	328906	14913-49-6	Bismuth-212	TRG 8	UHASL300	HASL300	REG	0.321	0.356	PC/IG	0	U	27/04/2004	38111.87917	9.42	0.375	PC/IG	0.175	PC/IG	1	4.9	20.1	G	PC/IG	PR
3100-0000-175-C-10C-01	MSRF#04-1223	11637012	328906	14913-50-9	Thallium-208	TRG 8	UHASL300	HASL300	REG	0.171	0.0625	PC/IG	0	U	27/04/2004	38111.87917	9.42	0.0486	PC/IG	0.0229	PC/IG	1	4.9	20.1	G	PC/IG	PR
3100-0000-175-C-10C-01	MSRF#04-1223	11637012	328906	15067-28-4	Lead-214	TRG 8	UHASL300	HASL300	REG	0.457	0.131	PC/IG	0	U	27/04/2004	38111.87917	9.42	0.0798	PC/IG	0.0381	PC/IG	1	4.9	20.1	G	PC/IG	PR
3100-0000-175-C-10C-01	MSRF#04-1223	11637012	328906	15092-94-1	Lead-212	TRG 8	UHASL300	HASL300	REG	0.535	0.109	PC/IG	0	U	27/04/2004	38111.87917	9.42	0.0587	PC/IG	0.0282	PC/IG	1	4.9	20.1	G	PC/IG	PR
3100-0000-175-C-10C-01	MSRF#04-1223	11637012	328906	15585-10-1	Europium-154	TRG 8	UHASL300	HASL300	REG	-0.0221	0.161	PC/IG	0	U	27/04/2004	38111.87917	9.42	0.165	PC/IG	0.0793	PC/IG	1	4.9	20.1	G	PC/IG	PR
3100-0000-175-C-17C-01	MSRF#04-1223	11637012	328553	10098-97-2	Strontium-90	TRG 45	UE905M	E905M	REG	0.0932	0.0121	PC/IG	0	U	28/04/2004	38111.36458	7.53	0.0148	PC/IG	0.0071	PC/IG	1	6.9	8.49	G	PC/IG	PR
3100-0000-175-C-17C-01	MSRF#04-1223	11637012	328815	10028-17-8	Tridium	TRG 20	UE906.0	E906.0	REG	-0.312	1.71	PC/IG	0	U	27/04/2004	38109.65417	12.48	2.89	PC/IG	1.45	PC/IG	1	6.9		G	PC/IG	PR
3100-0000-175-C-17C-01	MSRF#04-1223	11637012	328906	10045-97-3	Cesium-137	TRG 8	UHASL300	HASL300	REG	-0.00764	0.0393	PC/IG	0	U	27/04/2004	38111.87917	9.43	0.0618	PC/IG	0.0293	PC/IG	1	6.9	18.2	G	PC/IG	PR
3100-0000-175-C-17C-01	MSRF#04-1223	11637012	328906	10198-40-0	Cobalt-60	TRG 8	UHASL300	HASL300	REG	0.16	0.0778	PC/IG	0	U	27/04/2004	38111.87917	9.43	0.0682	PC/IG	0.0311	PC/IG	1	6.9	18.2	G	PC/IG	PR
3100-0000-175-C-17C-01	MSRF#04-1223	11637012	328906	13966-00-2	Potassium-40	TRG 8	UHASL300	HASL300	REG	7.27	1.28	PC/IG	0	U	27/04/2004	38111.87917	9.43	0.647	PC/IG	0.293	PC/IG	1	6.9	18.2	G	PC/IG	PR
3100-0000-175-C-17C-01	MSRF#04-1223	11637012	328906	13966-31-9	Manganese-54	TRG 8	UHASL300	HASL300	REG	-0.0192	0.0403	PC/IG	0	U	27/04/2004	38111.87917	9.43	0.0658	PC/IG	0.0309	PC/IG	1	6.9	18.2	G	PC/IG	PR
3100-0000-175-C-17C-01	MSRF#04-1223	11637012	328906	13967-70-9	Cesium-134	TRG 8	UHASL300	HASL300	REG	0.0401	0.0441	PC/IG	0	U	27/04/2004	38111.87917	9.43	0.075	PC/IG	0.0355	PC/IG	1	6.9	18.2	G	PC/IG	PR
3100-0000-175-C-17C-01	MSRF#04-1223	11637012	328906	13982-63-3	Radium-226	TRG 8	UHASL300	HASL300	REG	0.292	0.174	PC/IG	0	U	27/04/2004	38111.87917	9.43	0.115	PC/IG	0.0547	PC/IG	1	6.9	18.2	G	PC/IG	PR
3100-0000-175-C-17C-01	MSRF#04-1223	11637012	328906	14331-83-0	Actinium-228	TR																					

3100-0000-175-C-20C-02	MSRF#04-1223	111637016	328906	14331-83-0	Actinium-228	TRG 8	UHASL300	HASL300	REG	0	0.28	PCIG	U	27/04/2004	38111.87986	9.49	0.299	PCIG	0.143	PCIG	1	6.6	18.1	G	PCIG	PR
3100-0000-175-C-20C-02	MSRF#04-1223	111637016	328906	14391-16-3	Europium-155	TRG 8	UHASL300	HASL300	REG	0.0252	0.0896	PCIG	U	27/04/2004	38111.87986	9.49	0.134	PCIG	0.0647	PCIG	1	6.6	18.1	G	PCIG	PR
3100-0000-175-C-20C-02	MSRF#04-1223	111637016	328906	14391-65-2	Silver-108m	TRG 8	UHASL300	HASL300	REG	0.01	0.0282	PCIG	U	27/04/2004	38111.87986	9.49	0.0451	PCIG	0.0216	PCIG	1	6.6	18.1	G	PCIG	PR
3100-0000-175-C-20C-02	MSRF#04-1223	111637016	328906	14596-10-2	Americium-241	TRG 8	UHASL300	HASL300	REG	-0.0026	0.0991	PCIG	U	27/04/2004	38111.87986	9.49	0.145	PCIG	0.07	PCIG	1	6.6	18.1	G	PCIG	PR
3100-0000-175-C-20C-02	MSRF#04-1223	111637016	328906	14681-63-1	Niobium-94	TRG 8	UHASL300	HASL300	REG	-0.00244	0.0323	PCIG	U	27/04/2004	38111.87986	9.49	0.0525	PCIG	0.025	PCIG	1	6.6	18.1	G	PCIG	PR
3100-0000-175-C-20C-02	MSRF#04-1223	111637016	328906	14683-23-9	Europium-152	TRG 8	UHASL300	HASL300	REG	-0.0541	0.0859	PCIG	U	27/04/2004	38111.87986	9.49	0.131	PCIG	0.0527	PCIG	1	6.6	18.1	G	PCIG	PR
3100-0000-175-C-20C-02	MSRF#04-1223	111637016	328906	14733-03-0	Bismuth-214	TRG 8	UHASL300	HASL300	REG	0	0.15	PCIG	U	27/04/2004	38111.87986	9.49	0.152	PCIG	0.0739	PCIG	1	6.6	18.1	G	PCIG	PR
3100-0000-175-C-20C-02	MSRF#04-1223	111637016	328906	14913-49-6	Bismuth-212	TRG 8	UHASL300	HASL300	REG	0.397	0.361	PCIG	U	27/04/2004	38111.87986	9.49	0.403	PCIG	0.19	PCIG	1	6.6	18.1	G	PCIG	PR
3100-0000-175-C-20C-02	MSRF#04-1223	111637016	328906	14913-50-9	Thallium-208	TRG 8	UHASL300	HASL300	REG	0.0541	0.0595	PCIG	U	27/04/2004	38111.87986	9.49	0.0738	PCIG	0.0356	PCIG	1	6.6	18.1	G	PCIG	PR
3100-0000-175-C-20C-02	MSRF#04-1223	111637016	328906	15067-28-4	Lead-214	TRG 8	UHASL300	HASL300	REG	0.432	0.126	PCIG	U	27/04/2004	38111.87986	9.49	0.0913	PCIG	0.0438	PCIG	1	6.6	18.1	G	PCIG	PR
3100-0000-175-C-20C-02	MSRF#04-1223	111637016	328906	15092-94-1	Lead-212	TRG 8	UHASL300	HASL300	REG	0.294	0.0864	PCIG	U	27/04/2004	38111.87986	9.49	0.0845	PCIG	0.041	PCIG	1	6.6	18.1	G	PCIG	PR
3100-0000-175-C-20C-02	MSRF#04-1223	111637016	328906	15585-10-1	Europium-154	TRG 8	UHASL300	HASL300	REG	-0.107	0.122	PCIG	U	27/04/2004	38111.87986	9.49	0.191	PCIG	0.0891	PCIG	1	6.6	18.1	G	PCIG	PR
3101-0000-175-B-21B-01	MSRF#04-1223	111637017	328553	10098-97-2	Strontium-90	TRG 45	UE905M	E905M	REG	-0.0042	0.0054	PCIG	U	28/04/2004	38111.36458	9.03	0.0115	PCIG	0.0055	PCIG	1	0.49	8.03	G	PCIG	PR
3101-0000-175-B-21B-01	MSRF#04-1223	111637017	328815	10028-17-8	Tritium	TRG 20	UE906.0	E906.0	REG	-0.185	1.7	PCIG	U	27/04/2004	38109.65417	2.24	2.87	PCIG	1.44	PCIG	1	0.49		G	PCIG	PR
3101-0000-175-B-21B-01	MSRF#04-1223	111637017	328906	10045-97-3	Cesium-137	TRG 8	UHASL300	HASL300	REG	0.0243	0.0453	PCIG	U	27/04/2004	38111.87917	9.46	0.0604	PCIG	0.0285	PCIG	1	0.49	21.9	G	PCIG	PR
3101-0000-175-B-21B-01	MSRF#04-1223	111637017	328906	10198-40-0	Cobalt-60	TRG 8	UHASL300	HASL300	REG	-0.0291	0.0402	PCIG	U	27/04/2004	38111.87917	9.46	0.0648	PCIG	0.0293	PCIG	1	0.49	21.9	G	PCIG	PR
3101-0000-175-B-21B-01	MSRF#04-1223	111637017	328906	13966-00-2	Potassium-40	TRG 8	UHASL300	HASL300	REG	3.37	0.955	PCIG	U	27/04/2004	38111.87917	9.46	0.65	PCIG	0.294	PCIG	1	0.49	21.9	G	PCIG	PR
3101-0000-175-B-21B-01	MSRF#04-1223	111637017	328906	13966-31-9	Manganese-54	TRG 8	UHASL300	HASL300	REG	-0.0095	0.0366	PCIG	U	27/04/2004	38111.87917	9.46	0.0603	PCIG	0.0281	PCIG	1	0.49	21.9	G	PCIG	PR
3101-0000-175-B-21B-01	MSRF#04-1223	111637017	328906	13967-70-9	Cesium-134	TRG 8	UHASL300	HASL300	REG	0.0117	0.0395	PCIG	U	27/04/2004	38111.87917	9.46	0.0666	PCIG	0.0312	PCIG	1	0.49	21.9	G	PCIG	PR
3101-0000-175-B-21B-01	MSRF#04-1223	111637017	328906	13982-63-3	Radium-226	TRG 8	UHASL300	HASL300	REG	0.0661	0.13	PCIG	U	27/04/2004	38111.87917	9.46	0.112	PCIG	0.0533	PCIG	1	0.49	21.9	G	PCIG	PR
3101-0000-175-B-21B-01	MSRF#04-1223	111637017	328906	14331-83-0	Actinium-228	TRG 8	UHASL300	HASL300	REG	0.302	0.252	PCIG	U	27/04/2004	38111.87917	9.46	0.314	PCIG	0.15	PCIG	1	0.49	21.9	G	PCIG	PR
3101-0000-175-B-21B-01	MSRF#04-1223	111637017	328906	14391-16-3	Europium-155	TRG 8	UHASL300	HASL300	REG	0.0195	0.0794	PCIG	U	27/04/2004	38111.87917	9.46	0.123	PCIG	0.0595	PCIG	1	0.49	21.9	G	PCIG	PR
3101-0000-175-B-21B-01	MSRF#04-1223	111637017	328906	14391-65-2	Silver-108m	TRG 8	UHASL300	HASL300	REG	-0.0168	0.0345	PCIG	U	27/04/2004	38111.87917	9.46	0.0511	PCIG	0.0244	PCIG	1	0.49	21.9	G	PCIG	PR
3101-0000-175-B-21B-01	MSRF#04-1223	111637017	328906	14596-10-2	Americium-241	TRG 8	UHASL300	HASL300	REG	0.000646	0.135	PCIG	U	27/04/2004	38111.87917	9.46	0.172	PCIG	0.0829	PCIG	1	0.49	21.9	G	PCIG	PR
3101-0000-175-B-21B-01	MSRF#04-1223	111637017	328906	14681-63-1	Niobium-94	TRG 8	UHASL300	HASL300	REG	-0.0141	0.0328	PCIG	U	27/04/2004	38111.87917	9.46	0.0523	PCIG	0.0247	PCIG	1	0.49	21.9	G	PCIG	PR
3101-0000-175-B-21B-01	MSRF#04-1223	111637017	328906	14683-23-9	Europium-152	TRG 8	UHASL300	HASL300	REG	-0.0428	0.11	PCIG	U	27/04/2004	38111.87917	9.46	0.146	PCIG	0.0702	PCIG	1	0.49	21.9	G	PCIG	PR
3101-0000-175-B-21B-01	MSRF#04-1223	111637017	328906	14733-03-0	Bismuth-214	TRG 8	UHASL300	HASL300	REG	0.0661	0.13	PCIG	U	27/04/2004	38111.87917	9.46	0.112	PCIG	0.0533	PCIG	1	0.49	21.9	G	PCIG	PR
3101-0000-175-B-21B-01	MSRF#04-1223	111637017	328906	14913-49-6	Bismuth-212	TRG 8	UHASL300	HASL300	REG	0.097	0.308	PCIG	U	27/04/2004	38111.87917	9.46	0.472	PCIG	0.222	PCIG	1	0.49	21.9	G	PCIG	PR
3101-0000-175-B-21B-01	MSRF#04-1223	111637017	328906	14913-50-9	Thallium-208	TRG 8	UHASL300	HASL300	REG	0.111	0.0768	PCIG	U	27/04/2004	38111.87917	9.46	0.0548	PCIG	0.0269	PCIG	1	0.49	21.9	G	PCIG	PR
3101-0000-175-B-21B-01	MSRF#04-1223	111637017	328906	15067-28-4	Lead-212	TRG 8	UHASL300	HASL300	REG	0.131	0.14	PCIG	U	27/04/2004	38111.87917	9.46	0.108	PCIG	0.0518	PCIG	1	0.49	21.9	G	PCIG	PR
3101-0000-175-B-21B-01	MSRF#04-1223	111637017	328906	15092-94-1	Lead-212	TRG 8	UHASL300	HASL300	REG	0.138	0.093	PCIG	U	27/04/2004	38111.87917	9.46	0.0824	PCIG	0.0389	PCIG	1	0.49	21.9	G	PCIG	PR
3101-0000-175-B-21B-01	MSRF#04-1223	111637017	328906	15585-10-1	Europium-154	TRG 8	UHASL300	HASL300	REG	0.0175	0.106	PCIG	U	27/04/2004	38111.87917	9.46	0.19	PCIG	0.0868	PCIG	1	0.49	21.9	G	PCIG	PR
3101-0000-175-B-21B-02	MSRF#04-1223	111637018	328553	10098-97-2	Strontium-90	TRG 45	UE905M	E905M	REG	0.0144	0.0064	PCIG	U	28/04/2004	38111.36458	9.03	0.0113	PCIG	0.0054	PCIG	1	0.1	8.03	G	PCIG	PR
3101-0000-175-B-21B-02	MSRF#04-1223	111637018	328815	10028-17-8	Tritium	TRG 20	UE906.0	E906.0	REG	-0.759	1.73	PCIG	U	27/04/2004	38109.65417	2.57	2.97	PCIG	1.48	PCIG	1	0.1		G	PCIG	PR
3101-0000-175-B-21B-02	MSRF#04-1223	111637018	328906	10045-97-3	Cesium-137	TRG 8	UHASL300	HASL300	REG	0.0145	0.0188	PCIG	U	27/04/2004	38111.87917	9.47	0.032	PCIG	0.0153	PCIG	1	0.1	29	G	PCIG	PR
3101-0000-175-B-21B-02	MSRF#04-1223	111637018	328906	10198-40-0	Cobalt-60	TRG 8	UHASL300	HASL300	REG	-0.0171	0.0209	PCIG	U	27/04/2004	38111.87917	9.47	0.033	PCIG	0.0153	PCIG	1	0.1	29	G	PCIG	PR
3101-0000-175-B-21B-02	MSRF#04-1223	111637018	328906	13966-00-2	Potassium-40	TRG 8	UHASL300	HASL300	REG	2.53	0.62	PCIG	U	27/04/2004	38111.87917	9.47	0.324	PCIG	0.151	PCIG	1	0.1	29	G	PCIG	PR
3101-0000-175-B-21B-02	MSRF#04-1223	111637018	328906	13966-31-9	Manganese-54	TRG 8	UHASL300	HASL300	REG	0.00184	0.0234	PCIG	U	27/04/2004	38111.87917	9.47	0.037	PCIG	0.0178	PCIG	1	0.1	29	G	PCIG	PR
3101-0000-175-B-21B-02	MSRF#04-1223	111637018	328906	13967-70-9	Cesium-134	TRG 8	UHASL300	HASL300	REG	-0.00447	0.0201	PCIG	U	27/04/2004	38111.87917	9.47	0.0325	PCIG	0.0154	PCIG	1	0.1	29	G	PCIG	PR
3101-0000-175-B-21B-02	MSRF#04-1223	111637018	328906	13982-63-3	Radium-226	TRG 8	UHASL300	HASL300	REG	0.11	0.0696	PCIG														

3100-0000-179-C-4C-01	MSR#04-1223	1200615010	328815	10028-17-8	Tritium	TRG	U	E906.0	MS1	23	2.24	PCIG	0			5/5/2004	11:24	2.42	PCIG	1.21	PCIG	1	5.6	16.7	PR
	MSR#04-1223	1200615011	328815	10028-17-8	Tritium	TRG	U	E906.0	BS1	17.5	2.25	PCIG	0			2/5/2004	5:05	2.71	PCIG	1.36	PCIG	1	0	18.1	PR
	MSR#04-1223	1200615067	328843	14762-75-5	Carbon-14	TRG	U	LSC	LB1	-0.134	0.25	PCIG	0	0	0	30/04/2004	11:05	0.434	PCIG	0.213	PCIG	1	0	3.83	PR
3100-0000-179-C-4C-01	MSR#04-1223	1200615068	328843	14762-75-5	Carbon-14	TRG	U	LSC	LR1	0.239	0.299	PCIG	0	0	0	1/5/2004	12:07	0.502	PCIG	0.246	PCIG	1	5.6	3.32	PR
3100-0000-179-C-4C-01	MSR#04-1223	1200615069	328843	14762-75-5	Carbon-14	TRG	U	LSC	MS1	17.8	0.547	PCIG	0	0	0	1/5/2004	1:09	0.441	PCIG	0.216	PCIG	1	5.6	3.73	PR
	MSR#04-1223	1200615070	328843	14762-75-5	Carbon-14	TRG	U	LSC	BS1	17.6	0.539	PCIG	0	0	0	1/5/2004	2:11	0.434	PCIG	0.213	PCIG	1	0	3.83	PR
	MSR#04-1223	1200615255	328906	10045-97-3	Cesium-137	TRG	U	HASL300	LB1	-0.0072	0.0458	PCIG	0	0	0	5/5/2004	3:20	0.074	PCIG	0.0351	PCIG	1	0	10.0	PR
	MSR#04-1223	1200615255	328906	10198-40-0	Cobalt-60	TRG	U	HASL300	LB1	0.0101	0.0578	PCIG	0	0	0	5/5/2004	3:20	0.0991	PCIG	0.0463	PCIG	1	0	10.0	PR
	MSR#04-1223	1200615255	328906	13966-00-2	Potassium-40	TRG	U	HASL300	LB1	0.443	1.45	PCIG	0	0	0	5/5/2004	3:20	0.878	PCIG	0.405	PCIG	1	0	10.0	PR
	MSR#04-1223	1200615255	328906	13966-31-9	Manganese-54	TRG	U	HASL300	LB1	-0.0255	0.0528	PCIG	0	0	0	5/5/2004	3:20	0.0703	PCIG	0.0331	PCIG	1	0	10.0	PR
	MSR#04-1223	1200615255	328906	13967-70-9	Cesium-134	TRG	U	HASL300	LB1	0.0662	0.0618	PCIG	0	0	0	5/5/2004	3:20	0.0942	PCIG	0.0448	PCIG	1	0	10.0	PR
	MSR#04-1223	1200615255	328906	13982-63-3	Radium-226	TRG	U	HASL300	LB1	0.141	0.261	PCIG	0	0	0	5/5/2004	3:20	0.165	PCIG	0.0792	PCIG	1	0	10.0	PR
	MSR#04-1223	1200615255	328906	14331-83-0	Actinium-228	TRG	U	HASL300	LB1	0.218	0.326	PCIG	0	0	0	5/5/2004	3:20	0.399	PCIG	0.191	PCIG	1	0	10.0	PR
	MSR#04-1223	1200615255	328906	14391-16-3	Europium-155	TRG	U	HASL300	LB1	0.0526	0.145	PCIG	0	0	0	5/5/2004	3:20	0.191	PCIG	0.0925	PCIG	1	0	10.0	PR
	MSR#04-1223	1200615255	328906	14391-65-2	Silver-108m	TRG	U	HASL300	LB1	-0.0111	0.0434	PCIG	0	0	0	5/5/2004	3:20	0.0662	PCIG	0.0317	PCIG	1	0	10.0	PR
	MSR#04-1223	1200615255	328906	14596-10-2	Amendium-241	TRG	U	HASL300	LB1	-0.132	0.162	PCIG	0	0	0	5/5/2004	3:20	0.201	PCIG	0.0974	PCIG	1	0	10.0	PR
	MSR#04-1223	1200615255	328906	14681-63-1	Niobium-94	TRG	U	HASL300	LB1	-0.00103	0.0474	PCIG	0	0	0	5/5/2004	3:20	0.0765	PCIG	0.0366	PCIG	1	0	10.0	PR
	MSR#04-1223	1200615255	328906	14683-23-9	Europium-152	TRG	U	HASL300	LB1	0.344	0.127	PCIG	0	0	0	5/5/2004	3:20	0.199	PCIG	0.096	PCIG	1	0	10.0	PR
	MSR#04-1223	1200615255	328906	14733-03-0	Bismuth-214	TRG	U	HASL300	LB1	0	0.281	PCIG	0	0	0	5/5/2004	3:20	0.194	PCIG	0.0937	PCIG	1	0	10.0	PR
	MSR#04-1223	1200615255	328906	14913-49-6	Bismuth-212	TRG	U	HASL300	LB1	0.549	0.412	PCIG	0	0	0	5/5/2004	3:20	0.701	PCIG	0.336	PCIG	1	0	10.0	PR
	MSR#04-1223	1200615255	328906	14913-50-9	Thallium-208	TRG	U	HASL300	LB1	0.082	0.0545	PCIG	0	0	0	5/5/2004	3:20	0.0827	PCIG	0.0447	PCIG	1	0	10.0	PR
	MSR#04-1223	1200615255	328906	15067-28-4	Lead-214	TRG	U	HASL300	LB1	0.00395	0.149	PCIG	0	0	0	5/5/2004	3:20	0.159	PCIG	0.0772	PCIG	1	0	10.0	PR
	MSR#04-1223	1200615255	328906	15092-94-1	Lead-212	TRG	U	HASL300	LB1	0	0.0805	PCIG	0	0	0	5/5/2004	3:20	0.132	PCIG	0.0644	PCIG	1	0	10.0	PR
	MSR#04-1223	1200615255	328906	15585-10-1	Europium-154	TRG	U	HASL300	LB1	-0.0185	0.148	PCIG	0	0	0	5/5/2004	3:20	0.248	PCIG	0.115	PCIG	1	0	10.0	PR
3100-0000-179-C-1C-01	MSR#04-1223	1200615256	328906	10045-97-3	Cesium-137	TRG	U	HASL300	LR1	20.2	2.51	PCIG	0	0	0	6/5/2004	9:48	0.119	PCIG	0.0578	PCIG	1	5	16.5	PR
3100-0000-179-C-1C-01	MSR#04-1223	1200615256	328906	10198-40-0	Cobalt-60	TRG	U	HASL300	LR1	5.36	0.436	PCIG	0	0	0	6/5/2004	9:48	0.113	PCIG	0.0531	PCIG	1	5	16.5	PR
3100-0000-179-C-1C-01	MSR#04-1223	1200615256	328906	13966-00-2	Potassium-40	TRG	U	HASL300	LR1	7.16	1.76	PCIG	0	0	0	6/5/2004	9:48	1.13	PCIG	0.532	PCIG	1	5	16.5	PR
3100-0000-179-C-1C-01	MSR#04-1223	1200615256	328906	13966-31-9	Manganese-54	TRG	U	HASL300	LR1	0.00641	0.109	PCIG	0	0	0	6/5/2004	9:48	0.132	PCIG	0.0635	PCIG	1	5	16.5	PR
3100-0000-179-C-1C-01	MSR#04-1223	1200615256	328906	13967-70-9	Cesium-134	TRG	U	HASL300	LR1	0.189	0.154	PCIG	0	0	0	6/5/2004	9:48	0.143	PCIG	0.069	PCIG	1	5	16.5	PR
3100-0000-179-C-1C-01	MSR#04-1223	1200615256	328906	13982-63-3	Radium-226	TRG	U	HASL300	LR1	0.442	0.28	PCIG	0	0	0	6/5/2004	9:48	0.221	PCIG	0.107	PCIG	1	5	16.5	PR
3100-0000-179-C-1C-01	MSR#04-1223	1200615256	328906	14331-83-0	Actinium-228	TRG	U	HASL300	LR1	0.344	0.472	PCIG	0	0	0	6/5/2004	9:48	0.499	PCIG	0.241	PCIG	1	5	16.5	PR
3100-0000-179-C-1C-01	MSR#04-1223	1200615256	328906	14391-16-3	Europium-155	TRG	U	HASL300	LR1	0.0789	0.12	PCIG	0	0	0	6/5/2004	9:48	0.179	PCIG	0.0876	PCIG	1	5	16.5	PR
3100-0000-179-C-1C-01	MSR#04-1223	1200615256	328906	14391-65-2	Silver-108m	TRG	U	HASL300	LR1	-0.0139	0.0749	PCIG	0	0	0	6/5/2004	9:48	0.116	PCIG	0.0568	PCIG	1	5	16.5	PR
3100-0000-179-C-1C-01	MSR#04-1223	1200615256	328906	14596-10-2	Amendium-241	TRG	U	HASL300	LR1	0	0.0808	PCIG	0	0	0	6/5/2004	9:48	0.0901	PCIG	0.0441	PCIG	1	5	16.5	PR
3100-0000-179-C-1C-01	MSR#04-1223	1200615256	328906	14681-63-1	Niobium-94	TRG	U	HASL300	LR1	0.0253	0.0657	PCIG	0	0	0	6/5/2004	9:48	0.104	PCIG	0.0502	PCIG	1	5	16.5	PR
3100-0000-179-C-1C-01	MSR#04-1223	1200615256	328906	14683-23-9	Europium-152	TRG	U	HASL300	LR1	-0.135	0.179	PCIG	0	0	0	6/5/2004	9:48	0.275	PCIG	0.134	PCIG	1	5	16.5	PR
3100-0000-179-C-1C-01	MSR#04-1223	1200615256	328906	14733-03-0	Bismuth-214	TRG	U	HASL300	LR1	0	0.28	PCIG	0	0	0	6/5/2004	9:48	0.275	PCIG	0.134	PCIG	1	5	16.5	PR
3100-0000-179-C-1C-01	MSR#04-1223	1200615256	328906	14913-49-6	Bismuth-212	TRG	U	HASL300	LR1	0.545	0.801	PCIG	0	0	0	6/5/2004	9:48	0.963	PCIG	0.466	PCIG	1	5	16.5	PR
3100-0000-179-C-1C-01	MSR#04-1223	1200615256	328906	14913-50-9	Thallium-208	TRG	U	HASL300	LR1	0.256	0.145	PCIG	0	0	0	6/5/2004	9:48	0.116	PCIG	0.0563	PCIG	1	5	16.5	PR
3100-0000-179-C-1C-01	MSR#04-1223	1200615256	328906	15067-28-4	Lead-214	TRG	U	HASL300	LR1	0.477	0.26	PCIG	0	0	0	6/5/2004	9:48	0.201	PCIG	0.0979	PCIG	1	5	16.5	PR
3100-0000-179-C-1C-01	MSR#04-1223	1200615256	328906	15092-94-1	Lead-212	TRG	U	HASL300	LR1	0.364	0.166	PCIG	0	0	0	6/5/2004	9:48	0.145	PCIG	0.071	PCIG	1	5	16.5	PR
3100-0000-179-C-1C-01	MSR#04-1223	1200615256	328906	15585-10-1	Europium-154	TRG	U	HASL300	LR1	-0.05	0.222	PCIG	0	0	0	6/5/2004	9:48	0.356	PCIG	0.169	PCIG	1	5	16.5	PR
	MSR#04-1223	1200615257	328906	10045-97-3	Cesium-137	TRG	U	HASL300	BS1	95	12.1	PCIG	0	0	0	6/5/2004	9:50	1.19	PCIG	0.579	PCIG	1	0	10.0	PR
	MSR#04-1223	1200615257	328906	10198-40-0	Cobalt-60	TRG	U	HASL300	BS1	148	11.9	PCIG	0	0	0	6/5/2004	9:50	1.2	PCIG	0.572	PCIG	1	0	10.0	PR
	MSR#04-1223	1200615257	328906	13966-00-2	Potassium-40	TRG	U	HASL300	BS1	7.33	7.84	PCIG	0	0	0	6/5/2004	9:50	13.6	PCIG	6.52	PCIG	1	0	10.0	PR
	MSR#04-1223	1200615257	328906	13966-31-9	Manganese-54	TRG	U	HASL300	BS1	-															

CASE NARRATIVE
For
CONNECTICUT YANKEE
RE: PO# 002337-Pete Hollenbeck
Work Order: 114018
SDG: MSR#04-1700

June 15, 2004

Laboratory Identification:

General Engineering Laboratories, LLC

Mailing Address:

P.O. Box 30712
Charleston, South Carolina 29417

Express Mail Delivery and Shipping Address:

2040 Savage Road
Charleston, South Carolina 29407

Telephone Number:

(843) 556-8171

Summary:

Sample receipt

The samples for the Concrete Project for work order 114018 arrived at General Engineering Laboratories, LLC, (GEL) in Charleston, South Carolina June 2, 2004 for environmental analysis. All sample containers arrived without any visible signs of tampering or breakage. The chain of custody contained the proper documentation and signatures.

The laboratory received the following samples:

3002-0000-187-C-1C-01
3002-0000-187-C-1C-02
3002-0000-187-C-1C-03
3002-0000-187-C-1C-04
3002-0000-187-C-1C-05
3002-0000-187-C-1C-06
3002-0000-187-C-1C-07
3002-0000-187-C-1C-08.

Items of Note:

There are no items to note.

Case Narrative:

Sample analyses were conducted using methodology as outlined in General Engineering Laboratories (GEL) Standard Operating Procedures. Any technical or administrative problems during analysis, data review, and reduction are listed below by analytical parameter.

Analytical Request:

Eight concrete samples were analyzed for CHGAM, H-3, Fe-55, C-14, and Ni-63. One of the eight concrete samples was also analyzed for CHTRU.

Internal Chain of Custody:

Custody was maintained for all of these samples.

Data Package:

The enclosed data package contains the following sections: Case Narrative, Chain of Custody, Cooler Receipt Checklist, Laboratory Certifications, and Radiochemistry.

I certify that this data package is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or a designee, as verified by the following signature.


Sarah Kozlik
Project Manager

CHAIN OF CUSTODY

Page 5 of 48

Connecticut Yankee Atomic Power Company

362 Injun Hollow Road, East Hampton, CT 06424
860-267-2556

Chain of Custody Form

No. 2004-00089

Project Name: Haddam Neck Decommissioning			Media Code	Sample Type Code	Container Size & Type Code	Analyses Requested						Lab Use Only	
Contact Name & Phone: Pete Hollenbeck 860-267-3923						CHGAM	H-3	Fe-55	C-14	Ni-63	CHTRU	Comments:	
Analytical Lab (Name, City, State): General Engineering Laboratories 2040 Savage Road Charleston, SC 29407 Sarah Kozlik												P.D. 6/2/04 114018/114018/	
Priority: <input type="checkbox"/> 30 D. <input checked="" type="checkbox"/> 14 D. <input type="checkbox"/> 7 D. Other:												Comment, Preservation	Lab Sample ID
Sample Designation	Date	Time											
3002-0000-187-C-1C-01	5/26/04	1500	CT	CR	BP	X	X	X	X	X	X		
3002-0000-187-C-1C-02	5/26/04	1500	CT	CR	BP	X	X	X	X	X			
3002-0000-187-C-1C-03	5/26/04	1500	CT	CR	BP	X	X	X	X	X			
3002-0000-187-C-1C-04	5/26/04	1500	CT	CR	BP	X	X	X	X	X			
3002-0000-187-C-1C-05	5/26/04	1500	CT	CR	BP	X	X	X	X	X			
3002-0000-187-C-1C-06	5/26/04	1500	CT	CR	BP	X	X	X	X	X			
3002-0000-187-C-1C-07	5/26/04	1500	CT	CR	BP	X	X	X	X	X			
3002-0000-187-C-1C-08	5/26/04	1500	CT	CR	BP	X	X	X	X	X			
NOTES: PO #: 002337 MSR #: 04-1700 <input type="checkbox"/> LTP QA <input type="checkbox"/> Radwaste QA <input checked="" type="checkbox"/> Non QA						Samples Shipped Via: <input checked="" type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Hand <input type="checkbox"/> Other _____			Internal Container Temp.: <u>22</u> Deg. C Custody Sealed? Y <input type="checkbox"/> N <input type="checkbox"/> Custody Seal Intact? Y <input type="checkbox"/> N <input type="checkbox"/>				
1) Relinquished By <i>[Signature]</i> Date/Time <u>6/1/04 1245</u>			2) Received By <i>[Signature]</i> Date/Time <u>6-2-04 0915</u>			Bill of Lading # <u>641820038320</u>							
3) Relinquished By Date/Time			4) Received By Date/Time										
5) Relinquished By Date/Time			6) Received By Date/Time										

001
002
003
004
005
006
007
008

**COOLER
RECEIPT
CHECKLIST**



SAMPLE RECEIPT & REVIEW FORM

PM use only

Client: <u>Conn. Yankee</u>	SDG/ARCOC/Work Order:
Date Received: <u>6-2-04</u>	PM(A) Review (ensure non-conforming items are resolved prior to signing):
Received By: <u>mk</u>	<u>[Signature]</u>

Sample Receipt Criteria	Conforming	NA	Non-Conforming	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	✓			Circle Applicable: seals broken damaged container leaking container other (describe)
2 Samples requiring cold preservation within (4 +/- 2 C)? Record preservation method.	✓			ice bags blue ice dry ice <u>none</u> other(describe) <u>22c</u>
3 Chain of custody documents included with shipment?	✓			
4 Sample containers intact and sealed?	✓			Circle Applicable: seals broken damaged container leaking container other (describe)
5 Samples requiring chemical preservation at proper pH?			✓	Sample ID's, containers affected and observed pH:
6 VOA vials free of headspace (defined as < 6mm bubble)?			✓	Sample ID's and containers affected:
7 Samples received within holding time?	✓			Id's and tests affected:
8 Sample ID's on COC match ID's on bottles?	✓			Sample ID's and containers affected:
9 Date & time on COC match date & time on bottles?	✓			Sample ID's affected:
10 Number of containers received match number indicated on COC?	✓			Sample ID's affected: <u>1 PER ID</u>
11 COC form is properly signed in relinquished/received sections?	✓			
12 Air Bill & Tracking #'s				<u>Fed ex # 8418 2803 8320</u>

Radiological Information	NON-RAD	RAD	RAD	RSO RAD Receipt #
What is the radiological classification of the samples?	✓	X	✓	Comments:
Radioactivity Screening Results (maximum observed CPM)	<u>CPM 4000</u>			*If > x2 area background is observed on a non-radioactive sample, contact the RSO to investigate.

1.2 MR/HR - 01

RADIOLOGICAL ANALYSIS

**Radiochemistry Case Narrative
Connecticut Yankee Atomic Power Co. (YANK)
SDG MSR#04-1700**

Method/Analysis Information

Product:	Alphaspec Am241, Cm, Solid-TRU2,ALL2 High Rad (CT)
Analytical Method:	DOE EML HASL-300, Am-05-RC Modified
Prep Method:	Ash Soil Prep
Dry Soil Prep GL-RAD-A-021 Method:	Dry Soil Prep
Analytical Batch Number:	338662
Prep Batch Number:	338661
Dry Soil Prep GL-RAD-A-021 Batch Number:	338660

Sample ID	Client ID
114018001	3002-0000-187-C-1C-01
1200637950	Method Blank (MB)
1200637953	Laboratory Control Sample (LCS)
1200637951	114018001(3002-0000-187-C-1C-01) Sample Duplicate (DUP)
1200637952	114018001(3002-0000-187-C-1C-01) Matrix Spike (MS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-011 REV# 13.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 114018001 (3002-0000-187-C-1C-01).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

Samples 1200637952 (3002-0000-187-C-1C-01) and 1200637953 (LCS) were recounted due to tailing.

Miscellaneous Information:**NCR Documentation**

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product:	Alphaspec Pu, Solid-TRU2,ALL2 High Rad (CT)
Analytical Method:	DOE EML HASL-300, Pu-11-RC Modified
Prep Method:	Ash Soil Prep
Dry Soil Prep GL-RAD-A-021 Method:	Dry Soil Prep
Analytical Batch Number:	338663
Prep Batch Number:	338661
Dry Soil Prep GL-RAD-A-021 Batch Number:	338660

Sample ID	Client ID
114018001	3002-0000-187-C-1C-01
1200637954	Method Blank (MB)
1200637957	Laboratory Control Sample (LCS)
1200637955	114018001(3002-0000-187-C-1C-01) Sample Duplicate (DUP)
1200637956	114018001(3002-0000-187-C-1C-01) Matrix Spike (MS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-011 REV# 13.

Calibration Information:**Calibration Information**

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:**Blank Information**

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 114018001 (3002-0000-187-C-1C-01).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

Samples 114018001 (3002-0000-187-C-1C-01), 1200637954 (MB) and 1200637955 (3002-0000-187-C-1C-01) were recounted due to high MDAs.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product:	Liquid Scint Pu241, Solid-TRU2,ALL2 High Rad (CT)
Analytical Method:	DOE EML HASL-300, Pu-11-RC Modified
Prep Method:	Ash Soil Prep
Dry Soil Prep GL-RAD-A-021 Method:	Dry Soil Prep
Analytical Batch Number:	338664
Prep Batch Number:	338661
Dry Soil Prep GL-RAD-A-021 Batch Number:	338660

Sample ID	Client ID
114018001	3002-0000-187-C-1C-01
1200637958	Method Blank (MB)
1200637961	Laboratory Control Sample (LCS)
1200637959	114018001(3002-0000-187-C-1C-01) Sample Duplicate (DUP)
1200637960	114018001(3002-0000-187-C-1C-01) Matrix Spike (MS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-035 REV# 5.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 114018001 (3002-0000-187-C-1C-01).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. The following NCR was generated for this SDG:
NCR 119581 was generated due to RDL less than MDA. 1. Samples 114018001 and 1200637958 did not meet the detection limit due to small sample volumes used because of limited sample volume. Samples were counted for the maximum lsc count time of 500 minutes. 1. Reporting results.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product:	Liquid Scint Fe55, Solid-HTD2,ALL2 High Rad (CT)
Analytical Method:	DOE RESL Fe-1, Modified
Prep Method:	Ash Soil Prep
Dry Soil Prep GL-RAD-A-021 Method:	Dry Soil Prep
Analytical Batch Number:	338665
Prep Batch Number:	338661
Dry Soil Prep GL-RAD-A-021 Batch Number:	338660

Sample ID	Client ID
114018001	3002-0000-187-C-1C-01
114018002	3002-0000-187-C-1C-02
114018003	3002-0000-187-C-1C-03
114018004	3002-0000-187-C-1C-04
114018005	3002-0000-187-C-1C-05
114018006	3002-0000-187-C-1C-06
114018007	3002-0000-187-C-1C-07
114018008	3002-0000-187-C-1C-08
1200637964	Method Blank (MB)

1200637967	Laboratory Control Sample (LCS)
1200637965	114018001(3002-0000-187-C-1C-01) Sample Duplicate (DUP)
1200637966	114018001(3002-0000-187-C-1C-01) Matrix Spike (MS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-040 REV# 2.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 114018001 (3002-0000-187-C-1C-01).

QC Information

The Matrix Spike 1200637966 (3002-0000-187-C-1C-01) did not meet recovery requirements due to the sample activity being greater than five times the spiked nominal concentration.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

Sample 1200637967 (LCS) was recounted due to low/high recovery.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Manual Integration

No manual integrations were performed on data in this batch.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product: Gammaspec, Gamma, Solid-GAM2,ALL2 High Rad (CT)
Analytical Method: EML HASL 300, 4.5.2.3
Prep Method: Dry Soil Prep
Analytical Batch Number: 338669
Prep Batch Number: 338660

Sample ID	Client ID
114018001	3002-0000-187-C-1C-01
114018002	3002-0000-187-C-1C-02
114018003	3002-0000-187-C-1C-03
114018004	3002-0000-187-C-1C-04
114018005	3002-0000-187-C-1C-05
114018006	3002-0000-187-C-1C-06
114018007	3002-0000-187-C-1C-07
114018008	3002-0000-187-C-1C-08
1200637980	Method Blank (MB)
1200637982	Laboratory Control Sample (LCS)
1200637981	114018001(3002-0000-187-C-1C-01) Sample Duplicate (DUP)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-013 REV# 10.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 114018001 (3002-0000-187-C-1C-01).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Miscellaneous Information:**NCR Documentation**

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Manual Integration

No manual integrations were performed on data in this batch.

Qualifier information

Qualifier	Reason	Analyte	Sample
UI	Data rejected due to low abundance.	Cesium-137	114018002
		Lead-212	114018008
		Thallium-208	1200637981
		Zinc-65	114018001
UI	Data rejected due to no valid peak.	Potassium-40	114018001
			114018002
			114018003
			114018005
			114018006
			114018007
			114018008
			1200637981

Method/Analysis Information

Product: LSC, Tritium Dist, Solid-HTD2,ALL2 High Rad (CT)
Analytical Method: EPA 906.0 Modified
Analytical Batch Number: 338667

Sample ID	Client ID
114018001	3002-0000-187-C-1C-01
114018002	3002-0000-187-C-1C-02
114018003	3002-0000-187-C-1C-03
114018004	3002-0000-187-C-1C-04
114018005	3002-0000-187-C-1C-05
114018006	3002-0000-187-C-1C-06
114018007	3002-0000-187-C-1C-07
114018008	3002-0000-187-C-1C-08
1200637972	Method Blank (MB)
1200637975	Laboratory Control Sample (LCS)
1200637973	114018001(3002-0000-187-C-1C-01) Sample Duplicate (DUP)
1200637974	114018001(3002-0000-187-C-1C-01) Matrix Spike (MS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-002 REV# 9.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 114018001 (3002-0000-187-C-1C-01).

QC Information

The Matrix Spike 1200637974 (3002-0000-187-C-1C-01) did not meet recovery requirements due to the sample activity being greater than five times the spiked nominal concentration.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Additional Comments

The blank 1200637972 (MB) did not meet the detection limit due to keeping the blank volume consistent with the other sample volumes. All other samples met the detection limit.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product:	Liquid Scint C14, Solid-HTD2,ALL2 High Rad (CT)
Analytical Method:	EPA EERF C-01 Modified
Analytical Batch Number:	338668

Sample ID

Client ID

114018001	3002-0000-187-C-1C-01
114018002	3002-0000-187-C-1C-02
114018003	3002-0000-187-C-1C-03
114018004	3002-0000-187-C-1C-04
114018005	3002-0000-187-C-1C-05
114018006	3002-0000-187-C-1C-06
114018007	3002-0000-187-C-1C-07
114018008	3002-0000-187-C-1C-08
1200637976	Method Blank (MB)
1200637979	Laboratory Control Sample (LCS)
1200637977	114018001(3002-0000-187-C-1C-01) Sample Duplicate (DUP)
1200637978	114018001(3002-0000-187-C-1C-01) Matrix Spike (MS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-003 REV# 7.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 114018001 (3002-0000-187-C-1C-01).

QC Information

The Matrix Spike 1200637978 (3002-0000-187-C-1C-01) did not meet recovery requirements due to the sample activity being greater than five times the spiked nominal concentration.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

Sample 114018007 (3002-0000-187-C-1C-07) was requenched and recounted due to the quench number being out of calibration range.

Samples 114018001 (3002-0000-187-C-1C-01) and 1200637977 (3002-0000-187-C-1C-01) were recounted due to high relative percent difference/relative error ratio.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. The following NCR was generated for this SDG:
NCR 120076 was generated due to Failed RPD for DUP. 1. Sample 114018001 and dup 1200637977 did not meet the relative percent difference due to the non homogenous matrix of the sample. 1. Reporting reports.

Manual Integration

No manual integrations were performed on data in this batch.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product:	Liquid Scint Ni63, Solid-HTD2,ALL2 High Rad (CT)
Analytical Method:	DOE RESL Ni-1, Modified
Prep Method:	Ash Soil Prep
Dry Soil Prep GL-RAD-A-021 Method:	Dry Soil Prep
Analytical Batch Number:	341858
Prep Batch Number:	338661
Dry Soil Prep GL-RAD-A-021 Batch Number:	338660

Sample ID	Client ID
114018001	3002-0000-187-C-1C-01
114018002	3002-0000-187-C-1C-02
114018003	3002-0000-187-C-1C-03
114018004	3002-0000-187-C-1C-04
114018005	3002-0000-187-C-1C-05
114018006	3002-0000-187-C-1C-06
114018007	3002-0000-187-C-1C-07
114018008	3002-0000-187-C-1C-08
1200645631	Method Blank (MB)
1200645634	Laboratory Control Sample (LCS)
1200645632	114018001(3002-0000-187-C-1C-01) Sample Duplicate (DUP)
1200645633	114018001(3002-0000-187-C-1C-01) Matrix Spike (MS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-022 REV# 6.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 114018001 (3002-0000-187-C-1C-01).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

Samples were reprepared due to high relative percent difference/relative error ratio.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Manual Integration

No manual integrations were performed on data in this batch.

Additional Comments

The blank result for 1200645631 (MB) is greater than the MDA but less than the detection limit.

Qualifier information

Manual qualifiers were not required.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Review Validation:

GEL requires all analytical data to be verified by a qualified data validator. In addition, all data designated for CLP or CLP-like packaging will receive a third level validation upon completion of the data package.

The following data validator verified the information presented in this case narrative:

Heather A. Cerdas 0121104

Reviewer: _____

COMPANY - WIDE NONCONFORMANCE REPORT			
Mo.Day Yr. 15-JUN-04	Division: Radiochemistry	Type: Process	
Instrument Type: LSC	Quality Criteria: Specifications	Client Code: YANK	
Test / Method: DOE EML HASL-300, Pu-11-RC Modified	Matrix Type: Solid	Batch ID: 338664	Sample Numbers: See Below
Potentially affected work order(s)(SDG): 114018(MSR#04-1700)			
Application Issues: RDL less than MDA			
Specification and Requirements Nonconformance Description:		NRG Disposition:	
1. Samples 114018001 and 1200637958 did not meet the detection limit due to small sample volumes used because of limited sample volume. Samples were counted for the maximum lsc count time of 500 minutes.		1. Reporting results.	

Originator's Name:
 Melanie Aycock 15-JUN-04

Data Validator/Group Leader:
 Joseph Jones 15-JUN-04

Quality Review:

Corrective Action:

Director:

Corrective Action ID and Complete Date:

COMPANY - WIDE NONCONFORMANCE REPORT			
Mo.Day Yr. 16-JUN-04	Division: Radiochemistry	Type: Process	
Instrument Type: LSC	Quality Criteria: Specifications	Client Code: YANK	
Test / Method: EPA EERF C-01 Modified	Matrix Type: Solid	Batch ID: 338668	Sample Numbers: See Below
Potentially affected work order(s)(SDG): 114018(MSR#04-1700)			
Application Issues: Failed RPD for DUP			
Specification and Requirements		NRG Disposition:	
Nonconformance Description:			
1. Sample 114018001 and dup 1200637977 did not meet the relative percent difference due to the non homogenous matrix of the sample.		1. Reporting reports.	

Originator's Name:
 Melanie Aycock 16-JUN-04

Data Validator/Group Leader:
 Joseph Jones 16-JUN-04

Quality Review:

Corrective Action:

Director:

Corrective Action ID and Complete Date:

SAMPLE DATA SUMMARY

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : Haddam Neck Plant
 362 Injun Hollow Road
 East Hampton, Connecticut 06424
 Contact: Mr. Pete Hollenbeck
 Project: PO# 002337-Pete Hollenbeck

Report Date: June 21, 2004

Page 1 of 3

Client Sample ID:	3002-0000-187-C-1C-01	Project:	YANK00204
Sample ID:	114018001	Client ID:	YANK001
Matrix:	Concrete	Vol. Recv.:	
Collect Date:	26-MAY-04		
Receive Date:	02-JUN-04		
Collector:	Client		
Moisture:	9.89%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch Mtd.
High Rad Testing											
<i>Alphaspec Am241, Cm, Solid-TRU2,ALL2 High Rad (CT)</i>											
Americium-241		0.289	+/-0.113	0.00	+/-0.117	0.0313	pCi/g	RDD	06/10/04	2224	338662 1
Curium-242	U	0.00	+/-0.0242	0.00	+/-0.0242	0.0335	pCi/g				
Curium-243/244		0.0742	+/-0.0614	0.0206	+/-0.0619	0.0725	pCi/g				
<i>Alphaspec Pu, Solid-TRU2,ALL2 High Rad (CT)</i>											
Plutonium-238		0.165	+/-0.0665	0.0201	+/-0.0676	0.0566	pCi/g	RDD	06/14/04	1525	338663 2
Plutonium-239/240		0.171	+/-0.0675	0.020	+/-0.0687	0.0566	pCi/g				
<i>GammaSpec, Gamma, Solid-GAM2,ALL2 High Rad (CT)</i>											
Actinium-228	U	-0.885	+/-5.32	4.25	+/-5.21	8.53	pCi/g	ADD	06/07/04	1523	338669 3
Americium-241	U	1.02	+/-3.23	2.29	+/-3.16	4.60	pCi/g				
Bismuth-212	U	-2.78	+/-9.94	6.59	+/-9.75	13.2	pCi/g				
Bismuth-214	U	-0.0769	+/-2.02	1.35	+/-1.98	2.71	pCi/g				
Cesium-134		6.91	+/-2.14	1.04	+/-2.10	2.09	pCi/g				
Cesium-137		592	+/-67.2	0.809	+/-65.9	1.62	pCi/g				
Cobalt-60		2230	+/-174	0.725	+/-171	1.46	pCi/g				
Europium-152		453	+/-29.9	1.53	+/-29.3	3.08	pCi/g				
Europium-154		55.9	+/-7.54	2.03	+/-7.39	4.10	pCi/g				
Europium-155	U	1.22	+/-1.73	1.24	+/-1.69	2.48	pCi/g				
Lead-212	U	0.299	+/-1.04	0.746	+/-1.02	1.50	pCi/g				
Lead-214	U	-1.31	+/-1.42	1.09	+/-1.40	2.18	pCi/g				
Manganese-54		2.94	+/-1.56	0.997	+/-1.53	2.00	pCi/g				
Niobium-94	U	0.346	+/-0.954	0.727	+/-0.935	1.46	pCi/g				
Potassium-40	U	0.00	+/-14.5	5.41	+/-14.2	10.9	pCi/g				
	UI										
Radium-226	U	-0.0769	+/-2.02	1.35	+/-1.98	2.71	pCi/g				
Silver-108m	U	-0.0476	+/-0.784	0.602	+/-0.768	1.21	pCi/g				
Thallium-208	U	0.910	+/-1.08	0.724	+/-1.06	1.45	pCi/g				
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 High Rad (CT)</i>											
Tritium		326	+/-16.5	3.71	+/-37.1	7.42	pCi/g	AAK	06/10/04	1953	338667 4
<i>Laboratory Composite</i>											
<i>Liquid Scint C14, Solid-HTD2,ALL2 High Rad (CT)</i>											
Carbon-14		1600	+/-12.4	0.863	+/-28.6	1.79	pCi/g	AAK	06/15/04	1525	338668 6
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 High Rad (CT)</i>											
Iron-55		830	+/-9.09	0.811	+/-33.9	1.69	pCi/g	AAK	06/15/04	0900	338665 7

GENERAL ENGINEERING LABORATORIES, LLC
 2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : Haddam Neck Plant
 362 Injun Hollow Road
 East Hampton, Connecticut 06424
 Contact: Mr. Pete Hollenbeck
 Project: PO# 002337-Pete Hollenbeck

Report Date: June 21, 2004

Page 2 of 3

Client Sample ID: 3002-0000-187-C-1C-01
 Sample ID: 114018001
 Project: YANK00204
 Client ID: YANK001
 Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch Mtd.
High Rad Testing											
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 High Rad (CT)</i>											
Nickel-63		791	+/-15.9	2.49	+/-32.4	5.19	pCi/g		AAK 06/18/04	0415	341858 8
<i>Liquid Scint Pu241, Solid-TRU2,ALL2 High Rad (CT)</i>											
Plutonium-241	U	2.04	+/-3.46	2.89	+/-3.46	5.82	pCi/g		RDD 06/13/04	1501	338664 10

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	NXL1	06/07/04	1210	338661
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	NXL1	06/07/04	1009	338660
GL-RAD-A-026	Laboratory sample composite	ADD	06/04/04	1722	338659

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, Am-05-RC Modified
2	DOE EML HASL-300, Pu-11-RC Modified
3	EML HASL 300, 4.5.2.3
4	EPA 906.0 Modified
5	GL-RAD-A-026
6	EPA EERF C-01 Modified
7	DOE RESL Fe-1, Modified
8	DOE RESL Ni-1, Modified
9	DOE RESL Ni-1, Modified
10	DOE EML HASL-300, Pu-11-RC Modified

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Americium-243	Alphaspec Am241, Cm, Solid-TRU	91	(25%-125%)
Plutonium-242	Alphaspec Pu, Solid-TRU2,ALL2	97	
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,AI	80	
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,AI	34	
Carrier/Tracer Recovery	Liquid Scint Pu241, Solid-TRU2,A	96	

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

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : Haddam Neck Plant
362 Injun Hollow Road
East Hampton, Connecticut 06424
Contact: Mr. Pete Hollenbeck
Project: PO# 002337-Pete Hollenbeck

Report Date: June 21, 2004

Page 3 of 3

Client Sample ID: 3002-0000-187-C-1C-01
Sample ID: 114018001

Project: YANK00204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch Mtd.
-----------	-----------	--------	-------------	----	-----	-----	-------	----	-------------	------	------------

- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Sarah Kozlik.

Heather G. Arnold
Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : Haddam Neck Plant
 362 Injun Hollow Road
 East Hampton, Connecticut 06424
 Contact: Mr. Pete Hollenbeck
 Project: PO# 002337-Pete Hollenbeck

Report Date: June 21, 2004

Page 1 of 2

Client Sample ID:	3002-0000-187-C-1C-02	Project:	YANK00204
Sample ID:	114018002	Client ID:	YANK001
Matrix:	Concrete	Vol. Recv.:	
Collect Date:	26-MAY-04		
Receive Date:	02-JUN-04		
Collector:	Client		
Moisture:	10.5%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch Mtd.
High Rad Testing											
<i>GammaSpec, Gamma, Solid-GAM2, ALL2 High Rad (CT)</i>											
Actinium-228	U	0.406	+/-2.73	2.12	+/-2.67	4.27	pCi/g		ADD 06/07/04	1524	338669 1
Americium-241	U	0.417	+/-1.28	0.933	+/-1.26	1.88	pCi/g				
Bismuth-212	U	1.17	+/-5.35	3.68	+/-5.25	7.42	pCi/g				
Bismuth-214	U	0.995	+/-1.09	0.754	+/-1.06	1.52	pCi/g				
Cesium-134		5.44	+/-1.28	0.557	+/-1.26	1.12	pCi/g				
Cesium-137	U	0.00	+/-0.585	0.456	+/-0.573	0.919	pCi/g				
	UI										
Cobalt-60		392	+/-26.5	0.314	+/-25.9	0.640	pCi/g				
Europium-152		519	+/-34.5	0.797	+/-33.8	1.61	pCi/g				
Europium-154		52.9	+/-6.03	1.00	+/-5.91	2.04	pCi/g				
Europium-155	U	1.40	+/-1.30	0.780	+/-1.27	1.57	pCi/g				
Lead-212	U	0.647	+/-0.553	0.409	+/-0.542	0.824	pCi/g				
Lead-214	U	0.322	+/-0.764	0.563	+/-0.749	1.14	pCi/g				
Manganese-54	U	0.741	+/-0.643	0.510	+/-0.630	1.03	pCi/g				
Niobium-94	U	0.418	+/-0.514	0.403	+/-0.504	0.812	pCi/g				
Potassium-40	U	0.00	+/-4.46	2.42	+/-4.37	4.98	pCi/g				
	UI										
Radium-226	U	0.995	+/-1.09	0.754	+/-1.06	1.52	pCi/g				
Silver-108m	U	0.232	+/-0.402	0.296	+/-0.394	0.596	pCi/g				
Thallium-208	U	0.648	+/-0.595	0.414	+/-0.583	0.835	pCi/g				
<i>LSC, Tritium Dist, Solid-HTD2, ALL2 High Rad (CT)</i>											
Tritium		1590	+/-34.1	3.46	+/-165	6.91	pCi/g		AAK 06/10/04	2024	338667 2
<i>Laboratory Composite</i>											
<i>Liquid Scint C14, Solid-HTD2, ALL2 High Rad (CT)</i>											
Carbon-14		5.18	+/-0.532	0.368	+/-0.539	0.747	pCi/g		AAK 06/14/04	2048	338668 4
<i>Liquid Scint Fe55, Solid-HTD2, ALL2 High Rad (CT)</i>											
Iron-55		651	+/-7.37	0.723	+/-26.6	1.50	pCi/g		AAK 06/15/04	1020	338665 5
<i>Liquid Scint Ni63, Solid-HTD2, ALL2 High Rad (CT)</i>											
Nickel-63		4.09	+/-0.966	0.724	+/-0.977	1.48	pCi/g		AAK 06/18/04	0517	341858 6

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	NXL1	06/07/04	1211	338661

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : Haddam Neck Plant
362 Injun Hollow Road
East Hampton, Connecticut 06424
Contact: Mr. Pete Hollenbeck
Project: PO# 002337-Pete Hollenbeck

Report Date: June 21, 2004

Page 2 of 2

Client Sample ID: 3002-0000-187-C-1C-02
Sample ID: 114018002

Project: YANK00204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch Mtd.
Dry Soil Prep	Dry Soil Prep	GL-RAD-A-021			NXL1	06/07/04	1009	338660			
GL-RAD-A-026	Laboratory sample composite				ADD	06/04/04	1722	338659			

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 906.0 Modified
3	GL-RAD-A-026
4	EPA EERF C-01 Modified
5	DOE RESL Fe-1, Modified
6	DOE RESL Ni-1, Modified
7	DOE RESL Ni-1, Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2, AI	74	
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2, AI	64	

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Sarah Kozlik.

Hollan J. Coe

Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : Haddam Neck Plant
 362 Injun Hollow Road
 East Hampton, Connecticut 06424
 Contact: Mr. Pete Hollenbeck
 Project: PO# 002337-Pete Hollenbeck

Report Date: June 21, 2004

Page 1 of 2

Client Sample ID:	3002-0000-187-C-1C-03	Project:	YANK00204
Sample ID:	114018003	Client ID:	YANK001
Matrix:	Concrete	Vol. Recv.:	
Collect Date:	26-MAY-04		
Receive Date:	02-JUN-04		
Collector:	Client		
Moisture:	10.4%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd.
High Rad Testing													
<i>Gammascpec, Gamma, Solid-GAM2,ALL2 High Rad (CT)</i>													
Actinium-228	U	-0.599	+/-2.63	2.08	+/-2.58	4.20	pCi/g		ADD	06/07/04	1524	338669	1
Americium-241	U	-0.579	+/-1.35	0.965	+/-1.33	1.94	pCi/g						
Bismuth-212	U	4.02	+/-5.60	3.72	+/-5.49	7.49	pCi/g						
Bismuth-214	U	0.344	+/-1.13	0.753	+/-1.11	1.52	pCi/g						
Cesium-134		4.54	+/-1.28	0.562	+/-1.26	1.13	pCi/g						
Cesium-137	U	0.165	+/-0.757	0.446	+/-0.742	0.900	pCi/g						
Cobalt-60		319	+/-25.1	0.360	+/-24.6	0.734	pCi/g						
Europium-152		500	+/-33.6	0.833	+/-32.9	1.68	pCi/g						
Europium-154		47.2	+/-5.74	2.16	+/-5.63	4.35	pCi/g						
Europium-155		2.49	+/-1.48	0.800	+/-1.45	1.61	pCi/g						
Lead-212	U	0.411	+/-0.577	0.417	+/-0.566	0.840	pCi/g						
Lead-214	U	-0.334	+/-0.758	0.580	+/-0.742	1.17	pCi/g						
Manganese-54	U	0.0116	+/-0.655	0.521	+/-0.642	1.05	pCi/g						
Niobium-94	U	0.0998	+/-0.537	0.407	+/-0.526	0.821	pCi/g						
Potassium-40	U	0.00	+/-4.19	2.46	+/-4.11	5.05	pCi/g						
	UI												
Radium-226	U	0.344	+/-1.13	0.753	+/-1.11	1.52	pCi/g						
Silver-108m	U	0.310	+/-0.396	0.305	+/-0.388	0.616	pCi/g						
Thallium-208	U	0.0969	+/-0.621	0.415	+/-0.609	0.837	pCi/g						
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 High Rad (CT)</i>													
Tritium		2110	+/-40.8	3.74	+/-224	7.49	pCi/g		AAK	06/10/04	2055	338667	2
<i>Laboratory Composite</i>													
<i>Liquid Scint C14, Solid-HTD2,ALL2 High Rad (CT)</i>													
Carbon-14		3.44	+/-0.506	0.370	+/-0.509	0.753	pCi/g		AAK	06/14/04	2149	338668	4
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 High Rad (CT)</i>													
Iron-55		675	+/-8.80	1.02	+/-27.7	2.11	pCi/g		AAK	06/15/04	1152	338665	5
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 High Rad (CT)</i>													
Nickel-63		3.34	+/-0.980	0.751	+/-0.987	1.54	pCi/g		AAK	06/18/04	0619	341858	6

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	NXL1	06/07/04	1211	338661

GENERAL ENGINEERING LABORATORIES, LLC
 2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : Haddam Neck Plant
 362 Injun Hollow Road
 East Hampton, Connecticut 06424
 Contact: Mr. Pete Hollenbeck
 Project: PO# 002337-Pete Hollenbeck

Report Date: June 21, 2004

Page 2 of 2

Client Sample ID: 3002-0000-187-C-1C-03
 Sample ID: 114018003

Project: YANK00204
 Client ID: YANK001
 Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch Mtd.
Dry Soil Prep	Dry Soil Prep	GL-RAD-A-021			NXL1	06/07/04	1009	338660			
GL-RAD-A-026	Laboratory sample composite				ADD	06/04/04	1722	338659			

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 906.0 Modified
3	GL-RAD-A-026
4	EPA EERF C-01 Modified
5	DOE RESL Fe-1, Modified
6	DOE RESL Ni-1, Modified
7	DOE RESL Ni-1, Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,AI	74	
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,AI	61	

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Sarah Kozlik.

Heather P. Coole

Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : Haddam Neck Plant
362 Injun Hollow Road
East Hampton, Connecticut 06424
Contact: Mr. Pete Hollenbeck
Project: PO# 002337-Pete Hollenbeck

Report Date: June 21, 2004

Page 1 of 2

Client Sample ID:	3002-0000-187-C-1C-04	Project:	YANK00204
Sample ID:	114018004	Client ID:	YANK001
Matrix:	Concrete	Vol. Recv.:	
Collect Date:	26-MAY-04		
Receive Date:	02-JUN-04		
Collector:	Client		
Moisture:	9.18%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mid.
High Rad Testing													
<i>Gammapec, Gamma, Solid-GAM2, ALL2 High Rad (CT)</i>													
Actinium-228	U	0.387	+/-2.43	1.94	+/-2.39	3.91	pCi/g		ADD	06/07/04	1525	338669	1
Americium-241	U	0.676	+/-1.32	0.868	+/-1.30	1.75	pCi/g						
Bismuth-212	U	-3.37	+/-5.23	3.41	+/-5.13	6.89	pCi/g						
Bismuth-214	U	0.292	+/-0.918	0.703	+/-0.900	1.42	pCi/g						
Cesium-134		3.24	+/-1.13	0.517	+/-1.11	1.04	pCi/g						
Cesium-137	U	0.124	+/-0.541	0.413	+/-0.530	0.833	pCi/g						
Cobalt-60		258	+/-15.7	0.339	+/-15.4	0.693	pCi/g						
Europium-152		418	+/-28.3	0.731	+/-27.7	1.48	pCi/g						
Europium-154		38.2	+/-5.19	2.00	+/-5.08	4.05	pCi/g						
Europium-155	U	0.483	+/-1.34	0.709	+/-1.32	1.43	pCi/g						
Lead-212	U	0.341	+/-0.511	0.372	+/-0.501	0.751	pCi/g						
Lead-214	U	0.843	+/-0.801	0.519	+/-0.785	1.05	pCi/g						
Manganese-54	U	0.0267	+/-0.646	0.488	+/-0.633	0.984	pCi/g						
Niobium-94	U	0.131	+/-0.493	0.375	+/-0.483	0.758	pCi/g						
Potassium-40	U	2.45	+/-4.19	3.25	+/-4.11	6.65	pCi/g						
Radium-226	U	0.292	+/-0.918	0.703	+/-0.900	1.42	pCi/g						
Silver-108m	U	-0.198	+/-0.355	0.271	+/-0.348	0.548	pCi/g						
Thallium-208	U	0.585	+/-0.571	0.387	+/-0.560	0.780	pCi/g						
<i>LSC, Tritium Dist, Solid-HTD2, ALL2 High Rad (CT)</i>													
Tritium		3010	+/-47.1	3.51	+/-310	7.02	pCi/g		AAK	06/10/04	2126	338667	2
<i>Laboratory Composite</i>													
<i>Liquid Scint C14, Solid-HTD2, ALL2 High Rad (CT)</i>													
Carbon-14		3.13	+/-0.495	0.366	+/-0.498	0.744	pCi/g		AAK	06/14/04	2250	338668	4
<i>Liquid Scint Fe55, Solid-HTD2, ALL2 High Rad (CT)</i>													
Iron-55		597	+/-7.39	0.822	+/-24.4	1.70	pCi/g		AAK	06/15/04	1545	338665	5
<i>Liquid Scint Ni63, Solid-HTD2, ALL2 High Rad (CT)</i>													
Nickel-63		3.12	+/-0.979	0.754	+/-0.985	1.54	pCi/g		AAK	06/18/04	0720	341858	6

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	NXL1	06/07/04	1211	338661
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	NXL1	06/07/04	1009	338660

GENERAL ENGINEERING LABORATORIES, LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : Haddam Neck Plant
362 Injun Hollow Road
East Hampton, Connecticut 06424
Contact: Mr. Pete Hollenbeck
Project: PO# 002337-Pete Hollenbeck

Report Date: June 21, 2004

Page 1 of 2

Client Sample ID:	3002-0000-187-C-1C-05	Project:	YANK00204
Sample ID:	114018005	Client ID:	YANK001
Matrix:	Concrete	Vol. Recv.:	
Collect Date:	26-MAY-04		
Receive Date:	02-JUN-04		
Collector:	Client		
Moisture:	9.58%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch Mtd.
High Rad Testing											
<i>GammaSpec, Gamma, Solid-GAM2, ALL2 High Rad (CT)</i>											
Actinium-228	U	0.193	+/-3.64	2.83	+/-3.57	5.75	pCi/g		ADD 06/14/04	1458	338669 1
Americium-241	U	0.346	+/-1.78	1.29	+/-1.74	2.62	pCi/g				
Bismuth-212	U	7.30	+/-7.30	5.12	+/-7.16	10.4	pCi/g				
Bismuth-214	U	-1.54	+/-1.35	1.03	+/-1.33	2.09	pCi/g				
Cesium-134		2.30	+/-1.67	0.765	+/-1.64	1.56	pCi/g				
Cesium-137	U	0.0508	+/-0.763	0.597	+/-0.748	1.22	pCi/g				
Cobalt-60		245	+/-17.0	0.417	+/-16.6	0.875	pCi/g				
Europium-152		338	+/-23.0	1.12	+/-22.5	2.28	pCi/g				
Europium-154		28.6	+/-4.60	2.80	+/-4.51	5.71	pCi/g				
Europium-155	U	0.00415	+/-1.49	1.09	+/-1.46	2.20	pCi/g				
Lead-212	U	1.00	+/-0.784	0.588	+/-0.769	1.19	pCi/g				
Lead-214	U	0.977	+/-1.05	0.788	+/-1.03	1.60	pCi/g				
Manganese-54	U	-0.0908	+/-0.928	0.720	+/-0.909	1.47	pCi/g				
Niobium-94	U	-0.323	+/-0.694	0.536	+/-0.680	1.09	pCi/g				
Potassium-40	U	0.00	+/-7.67	3.25	+/-7.52	6.91	pCi/g				
	UI										
Radium-226	U	-1.54	+/-1.35	1.03	+/-1.33	2.09	pCi/g				
Silver-108m	U	-0.217	+/-0.548	0.397	+/-0.537	0.809	pCi/g				
Thallium-208	U	0.411	+/-0.810	0.567	+/-0.793	1.15	pCi/g				
<i>LSC, Tritium Dist, Solid-HTD2, ALL2 High Rad (CT)</i>											
Tritium		2350	+/-41.3	3.45	+/-236	6.91	pCi/g		AAK 06/10/04	2157	338667 2
<i>Laboratory Composite</i>											
<i>Liquid Scint C14, Solid-HTD2, ALL2 High Rad (CT)</i>											
Carbon-14		2.11	+/-0.487	0.374	+/-0.488	0.761	pCi/g		AAK 06/14/04	2351	338668 4
<i>Liquid Scint Fe55, Solid-HTD2, ALL2 High Rad (CT)</i>											
Iron-55		542	+/-7.01	0.821	+/-22.2	1.70	pCi/g		AAK 06/15/04	1732	338665 5
<i>Liquid Scint Ni63, Solid-HTD2, ALL2 High Rad (CT)</i>											
Nickel-63		3.10	+/-1.20	0.942	+/-1.21	1.93	pCi/g		AAK 06/18/04	0822	341858 6

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	NXL1	06/07/04	1211	338661

GENERAL ENGINEERING LABORATORIES, LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : Haddam Neck Plant
362 Injun Hollow Road
East Hampton, Connecticut 06424
Contact: Mr. Pete Hollenbeck
Project: PO# 002337-Pete Hollenbeck

Report Date: June 21, 2004

Page 2 of 2

Client Sample ID: 3002-0000-187-C-1C-05 Project: YANK00204
Sample ID: 114018005 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch Mtd.
Dry Soil Prep	Dry Soil Prep	GL-RAD-A-021			NXL1	06/07/04	1009	338660			
GL-RAD-A-026	Laboratory sample composite				ADD	06/04/04	1722	338659			

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 906.0 Modified
3	GL-RAD-A-026
4	EPA EERF C-01 Modified
5	DOE RESL Fe-1, Modified
6	DOE RESL Ni-1, Modified
7	DOE RESL Ni-1, Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,AI	73	
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,AI	50	

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Sarah Kozlik.

Heather J. Curcio

Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC
 2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : Haddam Neck Plant
 362 Injun Hollow Road
 East Hampton, Connecticut 06424
 Contact: Mr. Pete Hollenbeck
 Project: PO# 002337-Pete Hollenbeck

Report Date: June 21, 2004

Page 1 of 2

Client Sample ID: 3002-0000-187-C-1C-06
 Sample ID: 114018006
 Matrix: Concrete
 Collect Date: 26-MAY-04
 Receive Date: 02-JUN-04
 Collector: Client
 Moisture: 9.16%

Project: YANK00204
 Client ID: YANK001
 Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch Mtd.
High Rad Testing												
<i>Gammascpec, Gamma, Solid-GAM2,ALL2 High Rad (CT)</i>												
Actinium-228	U	0.506	+/-1.55	1.19	+/-1.52	2.41	pCi/g		ADD	06/07/04	1526	338669 1
Americium-241	U	0.187	+/-0.641	0.462	+/-0.629	0.932	pCi/g					
Bismuth-212	U	2.60	+/-3.02	2.05	+/-2.96	4.14	pCi/g					
Bismuth-214	U	-1.53	+/-0.584	0.421	+/-0.573	0.849	pCi/g					
Cesium-134		1.84	+/-0.692	0.313	+/-0.678	0.632	pCi/g					
Cesium-137	U	0.203	+/-0.321	0.252	+/-0.315	0.508	pCi/g					
Cobalt-60		216	+/-16.8	0.199	+/-16.5	0.407	pCi/g					
Europium-152		246	+/-16.5	0.498	+/-16.2	1.00	pCi/g					
Europium-154		21.8	+/-2.79	1.13	+/-2.73	2.28	pCi/g					
Europium-155	U	0.342	+/-0.831	0.527	+/-0.814	1.06	pCi/g					
Lead-212	U	0.238	+/-0.459	0.262	+/-0.449	0.528	pCi/g					
Lead-214	U	0.250	+/-0.558	0.342	+/-0.547	0.690	pCi/g					
Manganese-54	U	-0.0762	+/-0.378	0.291	+/-0.370	0.588	pCi/g					
Niobium-94	U	0.181	+/-0.293	0.229	+/-0.287	0.462	pCi/g					
Potassium-40	U	0.00	+/-3.99	1.52	+/-3.91	3.13	pCi/g					
	UI											
Radium-226	U	-1.53	+/-0.584	0.421	+/-0.573	0.849	pCi/g					
Silver-108m	U	-0.18	+/-0.232	0.172	+/-0.227	0.347	pCi/g					
Thallium-208	U	0.140	+/-0.343	0.236	+/-0.337	0.476	pCi/g					
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 High Rad (CT)</i>												
Tritium		2890	+/-46.5	3.56	+/-296	7.13	pCi/g		AAK	06/10/04	2228	338667 2
<i>Laboratory Composite</i>												
<i>Liquid Scint C14, Solid-HTD2,ALL2 High Rad (CT)</i>												
Carbon-14		1.39	+/-0.453	0.357	+/-0.453	0.726	pCi/g		AAK	06/15/04	0052	338668 4
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 High Rad (CT)</i>												
Iron-55		341	+/-5.12	0.692	+/-14.2	1.43	pCi/g		AAK	06/15/04	1926	338665 5
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 High Rad (CT)</i>												
Nickel-63		14.6	+/-2.11	1.47	+/-2.17	3.01	pCi/g		AAK	06/18/04	0923	341858 6

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	NXL1	06/07/04	1211	338661

GENERAL ENGINEERING LABORATORIES, LLC
 2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : Haddam Neck Plant
 362 Injun Hollow Road
 East Hampton, Connecticut 06424
 Contact: Mr. Pete Hollenbeck
 Project: PO# 002337-Pete Hollenbeck

Report Date: June 21, 2004

Page 2 of 2

Client Sample ID: 3002-0000-187-C-1C-06
 Sample ID: 114018006
 Project: YANK00204
 Client ID: YANK001
 Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch Mtd.
Dry Soil Prep	Dry Soil Prep	GL-RAD-A-021			NXL1	06/07/04	1009	338660			
GL-RAD-A-026	Laboratory sample composite				ADD	06/04/04	1722	338659			

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 906.0 Modified
3	GL-RAD-A-026
4	EPA EERF C-01 Modified
5	DOE RESL Fe-1, Modified
6	DOE RESL Ni-1, Modified
7	DOE RESL Ni-1, Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,Al	70	
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,Al	30	

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Sarah Kozlik.



Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : Haddam Neck Plant
362 Injun Hollow Road
East Hampton, Connecticut 06424
Contact: Mr. Pete Hollenbeck
Project: PO# 002337-Pete Hollenbeck

Report Date: June 21, 2004

Page 1 of 2

Client Sample ID: 3002-0000-187-C-1C-07
Sample ID: 114018007
Matrix: Concrete
Collect Date: 26-MAY-04
Receive Date: 02-JUN-04
Collector: Client
Moisture: 8.63%

Project: YANK00204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch Mtd.
High Rad Testing											
<i>GammaSpec, Gamma, Solid-GAM2, ALL2 High Rad (CT)</i>											
Actinium-228	U	0.753	+/-2.76	2.19	+/-2.71	4.45	pCi/g		ADD 06/07/04	1527	338669 1
Americium-241	U	0.137	+/-0.567	0.387	+/-0.556	0.784	pCi/g				
Bismuth-212	U	-2.24	+/-5.70	3.87	+/-5.58	7.88	pCi/g				
Bismuth-214	U	-1.09	+/-1.11	0.805	+/-1.09	1.64	pCi/g				
Cesium-134		1.31	+/-1.16	0.596	+/-1.14	1.21	pCi/g				
Cesium-137	U	0.657	+/-0.917	0.460	+/-0.898	0.937	pCi/g				
Cobalt-60		127	+/-7.29	0.353	+/-7.15	0.737	pCi/g				
Europium-152		192	+/-15.7	0.838	+/-15.3	1.70	pCi/g				
Europium-154		15.2	+/-2.81	1.77	+/-2.75	3.62	pCi/g				
Europium-155	U	0.378	+/-1.09	0.757	+/-1.07	1.53	pCi/g				
Lead-212	U	0.151	+/-0.579	0.436	+/-0.567	0.883	pCi/g				
Lead-214	U	0.590	+/-0.971	0.597	+/-0.951	1.21	pCi/g				
Manganese-54	U	-0.503	+/-0.684	0.530	+/-0.670	1.08	pCi/g				
Niobium-94	U	-0.136	+/-0.563	0.418	+/-0.552	0.852	pCi/g				
Potassium-40	U	0.00	+/-4.92	2.58	+/-4.82	5.49	pCi/g				
	UI										
Radium-226	U	-1.09	+/-1.11	0.805	+/-1.09	1.64	pCi/g				
Silver-108m	U	0.031	+/-0.421	0.317	+/-0.413	0.645	pCi/g				
Thallium-208	U	-0.162	+/-0.674	0.438	+/-0.661	0.891	pCi/g				
<i>LSC, Tritium Dist, Solid-HTD2, ALL2 High Rad (CT)</i>											
Tritium		2870	+/-47.4	3.73	+/-300	7.46	pCi/g		AAK 06/10/04	2259	338667 2
<i>Laboratory Composite</i>											
<i>Liquid Scint C14, Solid-HTD2, ALL2 High Rad (CT)</i>											
Carbon-14	U	0.625	+/-0.470	0.385	+/-0.471	0.781	pCi/g		AAK 06/16/04	1316	338668 4
<i>Liquid Scint Fe55, Solid-HTD2, ALL2 High Rad (CT)</i>											
Iron-55		260	+/-4.80	0.736	+/-11.1	1.52	pCi/g		AAK 06/15/04	2127	338665 5
<i>Liquid Scint Ni63, Solid-HTD2, ALL2 High Rad (CT)</i>											
Nickel-63	U	2.04	+/-1.55	1.25	+/-1.55	2.56	pCi/g		AAK 06/18/04	1025	341858 6

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	NXL1	06/07/04	1211	338661

GENERAL ENGINEERING LABORATORIES, LLC
 2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : Haddam Neck Plant
 362 Injun Hollow Road
 East Hampton, Connecticut 06424
 Contact: Mr. Pete Hollenbeck
 Project: PO# 002337-Pete Hollenbeck

Report Date: June 21, 2004

Page 2 of 2

Client Sample ID: 3002-0000-187-C-1C-07
 Sample ID: 114018007
 Project: YANK00204
 Client ID: YANK001
 Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch Mtd.
Dry Soil Prep	Dry Soil Prep	GL-RAD-A-021			NXL1	06/07/04	1009	338660			
GL-RAD-A-026	Laboratory sample composite				ADD	06/04/04	1722	338659			

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 906.0 Modified
3	GL-RAD-A-026
4	EPA EERF C-01 Modified
5	DOE RESL Fe-1, Modified
6	DOE RESL Ni-1, Modified
7	DOE RESL Ni-1, Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2, AI	71	
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2, AI	34	

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Sarah Kozlik.

Heather J. Kozlik

Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : Haddam Neck Plant
362 Injun Hollow Road
East Hampton, Connecticut 06424
Contact: Mr. Pete Hollenbeck
Project: PO# 002337-Pete Hollenbeck

Report Date: June 21, 2004

Page 1 of 2

Client Sample ID:	3002-0000-187-C-1C-08	Project:	YANK00204
Sample ID:	114018008	Client ID:	YANK001
Matrix:	Concrete	Vol. Recv.:	
Collect Date:	26-MAY-04		
Receive Date:	02-JUN-04		
Collector:	Client		
Moisture:	9.74%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd.
High Rad Testing													
<i>Gammascpec, Gamma, Solid-GAM2,ALL2 High Rad (CT)</i>													
Actinium-228	U	1.50	+/-1.99	1.55	+/-1.95	3.16	pCi/g		ADD	06/07/04	1553	338669	1
Americium-241	U	-0.101	+/-0.907	0.632	+/-0.888	1.28	pCi/g						
Bismuth-212	U	0.673	+/-3.91	2.66	+/-3.83	5.41	pCi/g						
Bismuth-214	U	-0.112	+/-0.709	0.553	+/-0.695	1.13	pCi/g						
Cesium-134		0.855	+/-0.707	0.413	+/-0.692	0.841	pCi/g						
Cesium-137		1.57	+/-0.702	0.304	+/-0.688	0.620	pCi/g						
Cobalt-60		98.6	+/-6.45	0.253	+/-6.32	0.528	pCi/g						
Europium-152		128	+/-8.89	0.571	+/-8.71	1.16	pCi/g						
Europium-154		9.16	+/-2.08	1.30	+/-2.04	2.66	pCi/g						
Europium-155	U	0.0703	+/-0.790	0.556	+/-0.774	1.13	pCi/g						
Lead-212	U	0.00	+/-0.400	0.309	+/-0.392	0.626	pCi/g						
	UI												
Lead-214	U	0.798	+/-0.723	0.419	+/-0.708	0.854	pCi/g						
Manganese-54	U	-0.189	+/-0.487	0.374	+/-0.477	0.761	pCi/g						
Niobium-94	U	-0.148	+/-0.371	0.287	+/-0.364	0.584	pCi/g						
Potassium-40	U	0.00	+/-4.14	1.89	+/-4.06	4.01	pCi/g						
	UI												
Radium-226	U	-0.112	+/-0.709	0.553	+/-0.695	1.13	pCi/g						
Silver-108m	U	-0.0634	+/-0.287	0.213	+/-0.281	0.434	pCi/g						
Thallium-208	U	0.227	+/-0.425	0.295	+/-0.416	0.601	pCi/g						
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 High Rad (CT)</i>													
Tritium		4850	+/-60.3	3.58	+/-493	7.17	pCi/g		AAK	06/10/04	2330	338667	2
<i>Laboratory Composite</i>													
<i>Liquid Scint C14, Solid-HTD2,ALL2 High Rad (CT)</i>													
Carbon-14		0.974	+/-0.426	0.342	+/-0.426	0.694	pCi/g		AAK	06/15/04	0254	338668	4
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 High Rad (CT)</i>													
Iron-55		218	+/-5.04	0.884	+/-9.89	1.82	pCi/g		AAK	06/15/04	2328	338665	5
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 High Rad (CT)</i>													
Nickel-63	U	1.13	+/-0.744	0.599	+/-0.745	1.23	pCi/g		AAK	06/18/04	1127	341858	6

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	NXL1	06/07/04	1211	338661

GENERAL ENGINEERING LABORATORIES, LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : Haddam Neck Plant
362 Injun Hollow Road
East Hampton, Connecticut 06424
Contact: Mr. Pete Hollenbeck
Project: PO# 002337-Pete Hollenbeck

Report Date: June 21, 2004

Page 2 of 2

Client Sample ID: 3002-0000-187-C-1C-08 Project: YANK00204
Sample ID: 114018008 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch Mtd.
Dry Soil Prep	Dry Soil Prep	GL-RAD-A-021			NXL1	06/07/04	1009	338660			
GL-RAD-A-026	Laboratory sample composite				ADD	06/04/04	1722	338659			

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 906.0 Modified
3	GL-RAD-A-026
4	EPA EERF C-01 Modified
5	DOE RESL Fe-1, Modified
6	DOE RESL Ni-1, Modified
7	DOE RESL Ni-1, Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,Al	65	
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,Al	74	

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Sarah Kozlik.

Hecater Glee
Reviewed by

QUALITY CONTROL DATA

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: June 21, 2004

Page 1 of 8

Client : Connecticut Yankee Atomic Power
Haddam Neck Plant
362 Injun Hollow Road
East Hampton, Connecticut
Contact: Mr. Pete Hollenbeck
Workorder: 114018

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
High Rad Testing										
Batch	338662									
QC1200637951	114018001	DUP								
Americium-241			0.289	0.224	pCi/g	25	(0% - 100%)	RDD	06/10/04	22:24
			Uncert: +/-0.113	+/-0.109						
			TPU: +/-0.117	+/-0.111						
Curium-242		U	0.00	0.0134	pCi/g	29	(0% - 100%)			
			Uncert: +/-0.0242	+/-0.0263						
			TPU: +/-0.0242	+/-0.0263						
Curium-243/244			0.0742	0.113	pCi/g	42	(0% - 100%)			
			Uncert: +/-0.0614	+/-0.0738						
			TPU: +/-0.0619	+/-0.0747						
QC1200637953	LCS									
Americium-241	12.1			12.4	pCi/g		(75%-125%)		06/11/04	08:44
			Uncert: +/-1.19	+/-1.96						
			TPU: +/-1.96	+/-1.96						
Curium-242		U	0.0603	0.0603	pCi/g					
			Uncert: +/-0.104	+/-0.104						
			TPU: +/-0.104	+/-0.104						
Curium-243/244	15.6			15.1	pCi/g		(75%-125%)			
			Uncert: +/-1.31	+/-2.30						
			TPU: +/-2.30	+/-2.30						
QC1200637950	MB									
Americium-241				0.0583	pCi/g				06/10/04	22:24
			Uncert: +/-0.0618	+/-0.062						
			TPU: +/-0.062	+/-0.062						
Curium-242			0.0335	0.0335	pCi/g					
			Uncert: +/-0.0379	+/-0.0381						
			TPU: +/-0.0381	+/-0.0381						
Curium-243/244		U	0.0314	0.0314	pCi/g					
			Uncert: +/-0.0472	+/-0.0473						
			TPU: +/-0.0473	+/-0.0473						
QC1200637952	114018001	MS								
Americium-241	17.3		0.289	17.1	pCi/g		(75%-125%)		06/11/04	08:44
			Uncert: +/-0.113	+/-1.75						
			TPU: +/-0.117	+/-2.85						
Curium-242		U	0.00	0.0629	pCi/g					
			Uncert: +/-0.0242	+/-0.142						
			TPU: +/-0.0242	+/-0.142						
Curium-243/244	22.3		0.0742	23.8	pCi/g		(75%-125%)			
			Uncert: +/-0.0614	+/-2.06						
			TPU: +/-0.0619	+/-3.74						
Batch	338663									
QC1200637955	114018001	DUP								
Plutonium-238			0.165	0.146	pCi/g	12	(0% - 100%)	RDD	06/14/04	15:25

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 114018

Page 2 of 8

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
High Rad Testing											
Batch	338663										
Plutonium-239/240		Uncert:	+/-0.0665	+/-0.0754							
		TPU:	+/-0.0676	+/-0.0767							
			0.171	0.0769	pCi/g	76		(0% - 100%)			
		Uncert:	+/-0.0675	+/-0.0476							
		TPU:	+/-0.0687	+/-0.0482							
QC1200637957	LCS										
Plutonium-238				U	-0.101	pCi/g				06/11/04	08:44
		Uncert:			+/-0.233						
		TPU:			+/-0.234						
Plutonium-239/240		10.8			12.5	pCi/g		116			
		Uncert:			+/-1.49						
		TPU:			+/-2.12						
QC1200637954	MB										
Plutonium-238				U	8.890E-10	pCi/g				06/14/04	15:25
		Uncert:			+/-0.0292						
		TPU:			+/-0.0292						
Plutonium-239/240				U	8.890E-10	pCi/g					
		Uncert:			+/-0.0292						
		TPU:			+/-0.0292						
QC1200637956	114018001	MS									
Plutonium-238			0.165	U	0.182	pCi/g				06/11/04	08:44
		Uncert:	+/-0.0665		+/-0.222						
		TPU:	+/-0.0676		+/-0.223						
Plutonium-239/240		15.4	0.171		15.9	pCi/g		102			
		Uncert:	+/-0.0675		+/-1.65						
		TPU:	+/-0.0687		+/-2.40						
Batch	338664										
QC1200637959	114018001	DUP									
Plutonium-241			U	2.04	U	1.96	pCi/g	0	(0% - 100%)	RDD	06/14/04 07:52
		Uncert:		+/-3.46		+/-3.07					
		TPU:		+/-3.46		+/-3.08					
QC1200637961	LCS										
Plutonium-241			355		290	pCi/g		82	(75%-125%)		06/14/04 11:28
		Uncert:			+/-24.8						
		TPU:			+/-34.5						
QC1200637958	MB										
Plutonium-241				U	-0.595	pCi/g				06/13/04	23:26
		Uncert:			+/-4.17						
		TPU:			+/-4.17						
QC1200637960	114018001	MS									
Plutonium-241			656	U	2.04	611	pCi/g		93	(75%-125%)	06/14/04 10:57
		Uncert:		+/-3.46		+/-46.7					
		TPU:		+/-3.46		+/-70.7					
Batch	338665										
QC1200637965	114018001	DUP									
Iron-55					830	736	pCi/g	12	(0% - 20%)	AAK	06/16/04 03:29
		Uncert:		+/-9.09		+/-8.34					
		TPU:		+/-33.9		+/-30.0					
QC1200637967	LCS										

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 114018

Page 3 of 8

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
High Rad Testing											
Batch	338665										
Iron-55	14.4			11.9	pCi/g		83	(75%-125%)			
	Uncert:			+/-3.25							
	TPU:			+/-3.29							
QC1200637964	MB										
Iron-55			U	-3.47	pCi/g					06/16/04	01:28
	Uncert:			+/-1.32							
	TPU:			+/-1.33							
QC1200637966	114018001	MS									
Iron-55	53.8	830		810	pCi/g		-39 *	(75%-125%)		06/16/04	04:59
	Uncert:	+/-9.09		+/-18.3							
	TPU:	+/-33.9		+/-36.2							
Batch	338667										
QC1200637973	114018001	DUP									
Tritium		326		356	pCi/g	9		(0% - 20%)	AAK	06/11/04	00:31
	Uncert:	+/-16.5		+/-16.9							
	TPU:	+/-37.1		+/-39.9							
QC1200637975	LCS										
Tritium	32.5			40.4	pCi/g		124	(75%-125%)		06/11/04	01:33
	Uncert:			+/-6.91							
	TPU:			+/-7.98							
QC1200637972	MB										
Tritium			U	0.594	pCi/g					06/11/04	00:01
	Uncert:			+/-4.41							
	TPU:			+/-4.41							
QC1200637974	114018001	MS									
Tritium	32.0	326		417	pCi/g		283*	(75%-125%)		06/11/04	01:02
	Uncert:	+/-16.5		+/-18.3							
	TPU:	+/-37.1		+/-46.9							
Batch	338668										
QC1200637977	114018001	DUP									
Carbon-14		1600		2620	pCi/g	48*		(0% - 20%)	AAK	06/15/04	15:37
	Uncert:	+/-12.4		+/-20.2							
	TPU:	+/-28.6		+/-46.5							
QC1200637979	LCS										
Carbon-14	26.6			28.4	pCi/g		107	(75%-125%)		06/15/04	05:47
	Uncert:			+/-0.798							
	TPU:			+/-0.918							
QC1200637976	MB										
Carbon-14			U	0.0535	pCi/g					06/15/04	03:55
	Uncert:			+/-0.426							
	TPU:			+/-0.426							
QC1200637978	114018001	MS									
Carbon-14	26.5	1600		2480	pCi/g		3310*	(75%-125%)		06/15/04	05:03
	Uncert:	+/-12.4		+/-19.1							
	TPU:	+/-28.6		+/-44.1							
Batch	338669										
QC1200637981	114018001	DUP									
Actinium-228			U	-0.885	pCi/g	N/A		(0% - 100%)	ADD	06/10/04	12:27

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 114018

Page 4 of 8

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
High Rad Testing											
Batch	338669										
Americium-241	Uncert:			+/-5.32							
	TPU:			+/-5.21							
	U		U	1.02		1.17		pCi/g	14		(0% - 100%)
Bismuth-212	Uncert:			+/-3.23							
	TPU:			+/-3.16							
	U		U	-2.78		2.43		pCi/g	N/A		(0% - 100%)
Bismuth-214	Uncert:			+/-9.94							
	TPU:			+/-9.75							
	U		U	-0.0769		-0.0642		pCi/g	N/A		(0% - 100%)
Cesium-134	Uncert:			+/-2.02							
	TPU:			+/-1.98							
				6.91		7.44		pCi/g	7		(0% - 100%)
Cesium-137	Uncert:			+/-2.14							
	TPU:			+/-2.10							
				592		596		pCi/g	1		(0% - 20%)
Cobalt-60	Uncert:			+/-67.2							
	TPU:			+/-65.9							
				2230		2220		pCi/g	0		(0% - 20%)
Europium-152	Uncert:			+/-174							
	TPU:			+/-171							
				453		437		pCi/g	4		(0% - 20%)
Europium-154	Uncert:			+/-29.9							
	TPU:			+/-29.3							
				55.9		52.3		pCi/g	7		(0% - 20%)
Europium-155	Uncert:			+/-7.54							
	TPU:			+/-7.39							
	U		U	1.22		0.560		pCi/g	74		(0% - 100%)
Lead-212	Uncert:			+/-1.73							
	TPU:			+/-1.69							
	U		U	0.299		-0.0147		pCi/g	N/A		(0% - 100%)
Lead-214	Uncert:			+/-1.04							
	TPU:			+/-1.02							
	U		U	-1.31		-4.34		pCi/g	N/A		(0% - 100%)
Manganese-54	Uncert:			+/-1.42							
	TPU:			+/-1.40							
				2.94		2.65		pCi/g	10		(0% - 100%)
Niobium-94	Uncert:			+/-1.56							
	TPU:			+/-1.53							
	U		U	0.346		0.0649		pCi/g	137		(0% - 100%)
Potassium-40	Uncert:			+/-0.954							
	TPU:			+/-0.935							
	UUI		UUI	0.00		0.00		pCi/g	88		(0% - 100%)
Radium-226	Uncert:			+/-14.5							
	TPU:			+/-14.2							
	U		U	-0.0769		-0.0642		pCi/g	N/A		(0% - 100%)
Silver-108m	Uncert:			+/-2.02							
	TPU:			+/-1.98							
	U		U	-0.0476		-0.284		pCi/g	N/A		(0% - 100%)

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 114018

Page 5 of 8

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
High Rad Testing										
Batch	338669									
Thallium-208	Uncert:	+/-0.784	+/-0.636							
	TPU:	+/-0.768	+/-0.624							
	U	0.910 UUI	0.00	pCi/g	40*					
	Uncert:	+/-1.08	+/-0.833							
	TPU:	+/-1.06	+/-0.816							
QC1200637982 LCS Actinium-228		U	-2.63	pCi/g					06/07/04	18:50
Americium-241	Uncert:		+/-3.79							
	TPU:		+/-3.72							
	234		232	pCi/g		99	(75%-125%)			
Bismuth-212	Uncert:		+/-17.5							
	TPU:		+/-17.1							
	U		-3.79	pCi/g						
Bismuth-214	Uncert:		+/-6.54							
	TPU:		+/-6.41							
	U		-0.434	pCi/g						
Cesium-134	Uncert:		+/-1.43							
	TPU:		+/-1.40							
	U		0.0732	pCi/g						
Cesium-137	Uncert:		+/-0.936							
	TPU:		+/-0.918							
	92.5		95.2	pCi/g		103	(75%-125%)			
Cobalt-60	Uncert:		+/-11.6							
	TPU:		+/-11.4							
	144		145	pCi/g		101	(75%-125%)			
Europium-152	Uncert:		+/-10.8							
	TPU:		+/-10.6							
	U		-1.24	pCi/g						
Europium-154	Uncert:		+/-1.82							
	TPU:		+/-1.79							
	U		-1.5	pCi/g						
Europium-155	Uncert:		+/-2.29							
	TPU:		+/-2.25							
	U		-0.174	pCi/g						
Lead-212	Uncert:		+/-1.50							
	TPU:		+/-1.47							
	U		0.522	pCi/g						
Lead-214	Uncert:		+/-0.831							
	TPU:		+/-0.814							
	U		0.0977	pCi/g						
Manganese-54	Uncert:		+/-1.21							
	TPU:		+/-1.19							
	U		-0.304	pCi/g						
Niobium-94	Uncert:		+/-0.889							
	TPU:		+/-0.871							
	U		-0.153	pCi/g						
	Uncert:		+/-0.793							
	TPU:		+/-0.777							

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 114018

Page 6 of 8

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
High Rad Testing										
Batch	338669									
Potassium-40		U	1.10	pCi/g						
	Uncert:		+/-8.63							
	TPU:		+/-8.45							
Radium-226		U	-0.434	pCi/g			(75%-125%)			
	Uncert:		+/-1.43							
	TPU:		+/-1.40							
Silver-108m		U	-0.307	pCi/g						
	Uncert:		+/-0.682							
	TPU:		+/-0.669							
Thallium-208		U	-0.231	pCi/g						
	Uncert:		+/-0.743							
	TPU:		+/-0.728							
QC1200637980 MB										
Actinium-228		U	0.095	pCi/g					06/07/04	18:49
	Uncert:		+/-0.200							
	TPU:		+/-0.196							
Americium-241		U	-0.167	pCi/g						
	Uncert:		+/-0.351							
	TPU:		+/-0.344							
Bismuth-212		U	0.0283	pCi/g						
	Uncert:		+/-0.444							
	TPU:		+/-0.435							
Bismuth-214		U	0.0537	pCi/g						
	Uncert:		+/-0.0964							
	TPU:		+/-0.0945							
Cesium-134		U	-0.032	pCi/g						
	Uncert:		+/-0.0589							
	TPU:		+/-0.0577							
Cesium-137		U	-0.0341	pCi/g						
	Uncert:		+/-0.0562							
	TPU:		+/-0.0551							
Cobalt-60		U	-0.0196	pCi/g						
	Uncert:		+/-0.0708							
	TPU:		+/-0.0694							
Europium-152		U	0.0871	pCi/g						
	Uncert:		+/-0.130							
	TPU:		+/-0.128							
Europium-154		U	-0.124	pCi/g						
	Uncert:		+/-0.192							
	TPU:		+/-0.188							
Europium-155		U	0.0533	pCi/g						
	Uncert:		+/-0.116							
	TPU:		+/-0.114							
Lead-212		U	0.00208	pCi/g						
	Uncert:		+/-0.106							
	TPU:		+/-0.104							
Lead-214		U	-0.00087	pCi/g						
	Uncert:		+/-0.096							

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 114018

Page 7 of 8

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
High Rad Testing										
Batch	338669									
Manganese-54	TPU:		+/-0.0941							
		U	-0.0155	pCi/g						
	Uncert:		+/-0.0477							
	TPU:		+/-0.0468							
Niobium-94		U	0.0564	pCi/g						
	Uncert:		+/-0.048							
	TPU:		+/-0.0471							
Potassium-40		U	0.745	pCi/g						
	Uncert:		+/-0.684							
	TPU:		+/-0.670							
Radium-226		U	0.0537	pCi/g						
	Uncert:		+/-0.0964							
	TPU:		+/-0.0945							
Silver-108m		U	-0.0456	pCi/g						
	Uncert:		+/-0.0421							
	TPU:		+/-0.0413							
Thallium-208		U	0.0387	pCi/g						
	Uncert:		+/-0.0509							
	TPU:		+/-0.0499							
Batch	341858									
QC1200645632	114018001	DUP								
Nickel-63			791	748	pCi/g	6	(0% - 20%)	AAK	06/18/04	12:38
			Uncert: +/-15.9	+/-14.9						
			TPU: +/-32.4	+/-30.5						
QC1200645634	LCS									
Nickel-63	60.7			48.5	pCi/g		80 (75%-125%)		06/18/04	13:52
				Uncert: +/-1.30						
				TPU: +/-2.16						
QC1200645631	MB									
Nickel-63				1.42	pCi/g				06/18/04	12:28
				Uncert: +/-0.669						
				TPU: +/-0.671						
QC1200645633	114018001	MS								
Nickel-63	127	791		903	pCi/g		88 (75%-125%)		06/18/04	12:50
				Uncert: +/-15.9						
				TPU: +/-32.4						

Notes:

The Qualifiers in this report are defined as follows:

- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 114018

Page 8 of 8

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
X		Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.								
h		Sample preparation or preservation holding time exceeded.								

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

** Indicates analyte is a surrogate compound.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

3002-0000-187-C-1C-01	MSR04-1700	114018001	338662	14596-10-2	Americium-241	TRG I	UAM05RCM	AM05RCM	REG	0.289	0.113	PC/G	0	7/6/2004	38140 20139	10.24	0.0313	PC/G	0	PC/G	1	9.9	0.214	G	PC/G	PR
3002-0000-187-C-1C-01	MSR04-1700	114018001	338662	QER-100-93	Curium-242	TRG I	UAM05RCM	AM05RCM	REG	0	0.0242	PC/G	0	7/6/2004	38140 20139	10.24	0.0335	PC/G	0	PC/G	1	9.9	0.214	G	PC/G	PR
3002-0000-187-C-1C-01	MSR04-1700	114018001	338662	QER-101-57	Curium-243/244	TRG I	UAM05RCM	AM05RCM	REG	0.0742	0.0614	PC/G	0	7/6/2004	38140 20139	10.24	0.0725	PC/G	0.0206	PC/G	1	9.9	0.214	G	PC/G	PR
3002-0000-187-C-1C-01	MSR04-1700	114018001	338663	13981-16-3	Plutonium-238	TRG 32	UPU1TRCM	PU1TRCM	REG	0.165	0.0665	PC/G	0	7/6/2004	38140 20417	3.25	0.0566	PC/G	0.0201	PC/G	1	9.9	0.222	G	PC/G	PR
3002-0000-187-C-1C-01	MSR04-1700	114018001	338663	0651-10-70	Plutonium-238/240	TRG 32	UPU1TRCM	PU1TRCM	REG	0.171	0.0835	PC/G	0	7/6/2004	38140 20417	3.25	0.0566	PC/G	0.0201	PC/G	1	9.9	0.222	G	PC/G	PR
3002-0000-187-C-1C-01	MSR04-1700	114018001	338664	14119-32-5	Plutonium-241	TRG 36	UPU1TRCM	PU1TRCM	REG	2.04	3.46	PC/G	0	7/6/2004	38140 20347	3.01	5.82	PC/G	2.89	PC/G	1	9.9	0.213	G	PC/G	PR
3002-0000-187-C-1C-01	MSR04-1700	114018001	338665	14681-59-5	Iron-55	TRG 26	ULSC	LSC	REG	830	9.09	PC/G	0	7/6/2004	38140 20486	9.00	1.69	PC/G	0.81	PC/G	1	9.9	2.04	G	PC/G	PR
3002-0000-187-C-1C-01	MSR04-1700	114018001	338667	10028-17-8	Tritium	TRG 20	UE906 0	EP06 0	REG	326	16.5	PC/G	0	10/6/2004	7.53	7.42	PC/G	3.71	PC/G	1	9.9		G	PC/G	PR	
3002-0000-187-C-1C-01	MSR04-1700	114018001	338668	14762-75-5	Carbon-14	TRG 5	ULSC	LSC	REG	1600	12.4	PC/G	0	15/06/2004	3.25	1.79	PC/G	0.863	PC/G	1	9.9	2.45	G	PC/G	PR	
3002-0000-187-C-1C-01	MSR04-1700	114018001	338669	10045-97-3	Cesium-137	TRG 8	UHASL300	HASL300	REG	592	67.2	PC/G	0	7/6/2004	38140 04653	3.23	1.62	PC/G	0.809	PC/G	1	9.9	20.4	G	PC/G	PR
3002-0000-187-C-1C-01	MSR04-1700	114018001	338669	10198-40-0	Cobalt-60	TRG 8	UHASL300	HASL300	REG	2230	174	PC/G	0	7/6/2004	38140 04653	3.23	1.46	PC/G	0.725	PC/G	1	9.9	20.4	G	PC/G	PR
3002-0000-187-C-1C-01	MSR04-1700	114018001	338669	13965-00-2	Potassium-40	TRG 8	UHASL300	HASL300	REG	0	14.5	PC/G	0	7/6/2004	38140 04653	3.23	10.9	PC/G	5.41	PC/G	1	9.9	20.4	G	PC/G	PR
3002-0000-187-C-1C-01	MSR04-1700	114018001	338669	13966-31-9	Manganese-54	TRG 8	UHASL300	HASL300	REG	2.94	1.56	PC/G	0	7/6/2004	38140 04653	3.23	2	PC/G	0.997	PC/G	1	9.9	20.4	G	PC/G	PR
3002-0000-187-C-1C-01	MSR04-1700	114018001	338669	13967-70-9	Cesium-134	TRG 8	UHASL300	HASL300	REG	6.91	2.14	PC/G	0	7/6/2004	38140 04653	3.23	2.09	PC/G	1.04	PC/G	1	9.9	20.4	G	PC/G	PR
3002-0000-187-C-1C-01	MSR04-1700	114018001	338669	13992-63-3	Radium-226	TRG 8	UHASL300	HASL300	REG	-0.0769	2.02	PC/G	0	7/6/2004	38140 04653	3.23	2.71	PC/G	1.35	PC/G	1	9.9	20.4	G	PC/G	PR
3002-0000-187-C-1C-01	MSR04-1700	114018001	338669	14331-83-0	Actinium-228	TRG 8	UHASL300	HASL300	REG	-0.885	5.32	PC/G	0	7/6/2004	38140 04653	3.23	8.53	PC/G	4.25	PC/G	1	9.9	20.4	G	PC/G	PR
3002-0000-187-C-1C-01	MSR04-1700	114018001	338669	14391-16-3	Europium-155	TRG 8	UHASL300	HASL300	REG	1.22	1.73	PC/G	0	7/6/2004	38140 04653	3.23	2.48	PC/G	1.24	PC/G	1	9.9	20.4	G	PC/G	PR
3002-0000-187-C-1C-01	MSR04-1700	114018001	338669	14391-65-2	Silver-108m	TRG 8	UHASL300	HASL300	REG	-0.0476	0.784	PC/G	0	7/6/2004	38140 04653	3.23	1.21	PC/G	0.602	PC/G	1	9.9	20.4	G	PC/G	PR
3002-0000-187-C-1C-01	MSR04-1700	114018001	338669	14596-10-2	Americium-241	TRG 8	UHASL300	HASL300	REG	1.02	3.23	PC/G	0	7/6/2004	38140 04653	3.23	4.6	PC/G	2.29	PC/G	1	9.9	20.4	G	PC/G	PR
3002-0000-187-C-1C-01	MSR04-1700	114018001	338669	14681-63-1	Niobium-94	TRG 8	UHASL300	HASL300	REG	0.346	0.954	PC/G	0	7/6/2004	38140 04653	3.23	1.46	PC/G	0.727	PC/G	1	9.9	20.4	G	PC/G	PR
3002-0000-187-C-1C-01	MSR04-1700	114018001	338669	14683-23-9	Europium-152	TRG 8	UHASL300	HASL300	REG	453	29.9	PC/G	0	7/6/2004	38140 04653	3.23	3.08	PC/G	1.53	PC/G	1	9.9	20.4	G	PC/G	PR
3002-0000-187-C-1C-01	MSR04-1700	114018001	338669	14733-03-0	Bismuth-214	TRG 8	UHASL300	HASL300	REG	-0.0769	2.02	PC/G	0	7/6/2004	38140 04653	3.23	2.71	PC/G	1.35	PC/G	1	9.9	20.4	G	PC/G	PR
3002-0000-187-C-1C-01	MSR04-1700	114018001	338669	14913-49-6	Bismuth-212	TRG 8	UHASL300	HASL300	REG	-2.78	9.94	PC/G	0	7/6/2004	38140 04653	3.23	13.2	PC/G	6.59	PC/G	1	9.9	20.4	G	PC/G	PR
3002-0000-187-C-1C-01	MSR04-1700	114018001	338669	14913-50-9	Thallium-208	TRG 8	UHASL300	HASL300	REG	0.91	1.08	PC/G	0	7/6/2004	38140 04653	3.23	1.45	PC/G	0.724	PC/G	1	9.9	20.4	G	PC/G	PR
3002-0000-187-C-1C-01	MSR04-1700	114018001	338669	15067-28-4	Lead-214	TRG 8	UHASL300	HASL300	REG	-1.31	1.42	PC/G	0	7/6/2004	38140 04653	3.23	2.18	PC/G	1.09	PC/G	1	9.9	20.4	G	PC/G	PR
3002-0000-187-C-1C-01	MSR04-1700	114018001	338669	15092-94-1	Lead-212	TRG 8	UHASL300	HASL300	REG	0.289	0.289	PC/G	0	7/6/2004	38140 04653	3.23	0.289	PC/G	0.745	PC/G	1	9.9	20.4	G	PC/G	PR
3002-0000-187-C-1C-01	MSR04-1700	114018001	338669	15585-10-1	Europium-154	TRG 8	UHASL300	HASL300	REG	55.9	7.54	PC/G	0	7/6/2004	38140 04653	3.23	4.1	PC/G	2.03	PC/G	1	9.9	20.4	G	PC/G	PR
3002-0000-187-C-1C-01	MSR04-1700	114018001	341858	13781-37-8	Nickel-63	TRG 30	ULSC	LSC	REG	791	15.9	PC/G	0	7/6/2004	38140 20994	4.15	5.19	PC/G	2.49	PC/G	1	9.9	2.01	G	PC/G	PR
3002-0000-187-C-1C-02	MSR04-1700	114018002	338665	14681-59-5	Iron-55	TRG 26	ULSC	LSC	REG	851	7.37	PC/G	0	7/6/2004	38140 27431	10.20	1.5	PC/G	0.723	PC/G	1	11	2.11	G	PC/G	PR
3002-0000-187-C-1C-02	MSR04-1700	114018002	338667	10028-17-8	Tritium	TRG 20	UE906 0	EP06 0	REG	1600	34.1	PC/G	0	10/6/2004	8.24	6.91	PC/G	3.46	PC/G	1	11		G	PC/G	PR	
3002-0000-187-C-1C-02	MSR04-1700	114018002	338668	14762-75-5	Carbon-14	TRG 5	ULSC	LSC	REG	5.18	0.532	PC/G	0	14/06/2004	8.48	0.747	PC/G	0.368	PC/G	1	11	2.54	G	PC/G	PR	
3002-0000-187-C-1C-02	MSR04-1700	114018002	338669	10045-97-3	Cesium-137	TRG 8	UHASL300	HASL300	REG	0	0.585	PC/G	0	7/6/2004	38140 04653	3.24	0.919	PC/G	0.456	PC/G	1	11	21.9	G	PC/G	PR
3002-0000-187-C-1C-02	MSR04-1700	114018002	338669	10198-40-0	Cobalt-60	TRG 8	UHASL300	HASL300	REG	392	28.5	PC/G	0	7/6/2004	38140 04653	3.24	0.316	PC/G	0.214	PC/G	1	11	21.9	G	PC/G	PR
3002-0000-187-C-1C-02	MSR04-1700	114018002	338669	13966-31-9	Manganese-54	TRG 8	UHASL300	HASL300	REG	0.741	0.643	PC/G	0	7/6/2004	38140 04653	3.24	1.03	PC/G	0.51	PC/G	1	11	21.9	G	PC/G	PR
3002-0000-187-C-1C-02	MSR04-1700	114018002	338669	13967-70-9	Cesium-134	TRG 8	UHASL300	HASL300	REG	5.44	1.28	PC/G	0	7/6/2004	38140 04653	3.24	1.12	PC/G	0.557	PC/G	1	11	21.9	G	PC/G	PR
3002-0000-187-C-1C-02	MSR04-1700	114018002	338669	13992-63-3	Radium-226	TRG 8	UHASL300	HASL300	REG	0.995	1.09	PC/G	0	7/6/2004	38140 04653	3.24	1.52	PC/G	0.754	PC/G	1	11	21.9	G	PC/G	PR
3002-0000-187-C-1C-02	MSR04-1700	114018002	338669	14331-83-0	Actinium-228	TRG 8	UHASL300	HASL300	REG	0.406	2.73	PC/G	0	7/6/2004	38140 04653	3.24	4.27	PC/G	2.12	PC/G	1	11	21.9	G	PC/G	PR
3002-0000-187-C-1C-02	MSR04-1700	114018002	338669	14391-16-3	Europium-155	TRG 8	UHASL300	HASL300	REG	1.02	1.3	PC/G	0	7/6/2004	38140 04653	3.24	1.57	PC/G	0.78	PC/G	1	11	21.9	G	PC/G	PR
3002-0000-187-C-1C-02	MSR04-1700	114018002	338669	14391-65-2	Silver-108m	TRG 8	UHASL300	HASL300	REG	0.233	0.402	PC/G	0	7/6/2004	38140 04653	3.24	0.596	PC/G	0.296	PC/G	1	11	21.9	G	PC/G	PR
3002-0000-187-C-1C-02	MSR04-1700	114018002	338669	14596-10-2	Americium-241	TRG 8	UHASL300	HASL300	REG	0.417	1.28	PC/G	0	7/6/2004	38140 04653	3.24	1.88	PC/G	0.933	PC/G	1	11	21.9	G	PC/G	PR
3002-0000-187-C-1C-02	MSR04-1700	114018002	338669	14681-63-1	Niobium-94	TRG 8	UHASL300	HASL300	REG	0.418	0.514	PC/G	0	7/6/2004	38140 04653	3.24	0.812	PC/G	0.403	PC/G	1	11	21.9	G	PC/G	PR
3002-																										

3002-0000-187-C-1C-04	MSRW04-1700	114018004	338669	14913-49-6	Bismuth-212	TRG 8	UHASL300	HASL300	REG	-3.37	5.23	PCJG	0	U	7/6/2004	38140.04653	3.25	6.89	PCJG	3.41	PCJG	1	9.2	18.2	G	PCJG	PR
3002-0000-187-C-1C-04	MSRW04-1700	114018004	338669	14913-50-9	Thallium-208	TRG 8	UHASL300	HASL300	REG	0.585	0.571	PCJG	0	U	7/6/2004	38140.04653	3.25	0.78	PCJG	0.387	PCJG	1	9.2	18.2	G	PCJG	PR
3002-0000-187-C-1C-04	MSRW04-1700	114018004	338669	15067-28-4	Lead-214	TRG 8	UHASL300	HASL300	REG	0.843	0.801	PCJG	0	U	7/6/2004	38140.04653	3.25	1.05	PCJG	0.519	PCJG	1	9.2	18.2	G	PCJG	PR
3002-0000-187-C-1C-04	MSRW04-1700	114018004	338669	15092-94-1	Lead-212	TRG 8	UHASL300	HASL300	REG	0.341	0.511	PCJG	0	U	7/6/2004	38140.04653	3.25	0.751	PCJG	0.372	PCJG	1	9.2	18.2	G	PCJG	PR
3002-0000-187-C-1C-04	MSRW04-1700	114018004	338669	15585-10-1	Europium-154	TRG 8	UHASL300	HASL300	REG	38.2	5.19	PCJG	0	U	7/6/2004	38140.04653	3.25	4.05	PCJG	2.19	PCJG	1	9.2	18.2	G	PCJG	PR
3002-0000-187-C-1C-04	MSRW04-1700	114018004	338669	14858-37-8	Nickel-63	TRG 30	ULSC	LSC	REG	3.12	0.978	PCJG	0	U	7/6/2004	38140.27639	7.20	1.54	PCJG	0.754	PCJG	1	9.2	1.99	G	PCJG	PR
3002-0000-187-C-1C-05	MSRW04-1700	114018005	338665	14681-59-5	Iron-55	TRG 26	ULSC	LSC	REG	54.2	7.01	PCJG	0	U	7/6/2004	38140.27431	5.32	1.7	PCJG	0.821	PCJG	1	9.6	2.08	G	PCJG	PR
3002-0000-187-C-1C-05	MSRW04-1700	114018005	338667	10028-17-8	Tritium	TRG 20	UE906.0	E906.0	REG	2350	41.3	PCJG	0	U	10/6/2004	106/2004	9.57	6.91	PCJG	3.45	PCJG	1	9.6		G	PCJG	PR
3002-0000-187-C-1C-05	MSRW04-1700	114018005	338668	14762-75-5	Carbon-14	TRG 5	ULSC	LSC	REG	2.11	0.487	PCJG	0	U	14/06/2004	11/51	0.761	PCJG	0.374	PCJG	1	9.6	2.51	G	PCJG	PR	
3002-0000-187-C-1C-05	MSRW04-1700	114018005	338669	10045-97-3	Cesium-137	TRG 6	UHASL300	HASL300	REG	0.508	0.763	PCJG	0	U	7/6/2004	38140.05139	2.58	1.22	PCJG	0.597	PCJG	1	9.6	22.4	G	PCJG	PR
3002-0000-187-C-1C-05	MSRW04-1700	114018005	338669	10198-40-0	Cobalt-60	TRG 8	UHASL300	HASL300	REG	2.048	1.7	PCJG	0	U	7/6/2004	38140.05139	2.58	0.875	PCJG	0.417	PCJG	1	9.6	22.4	G	PCJG	PR
3002-0000-187-C-1C-05	MSRW04-1700	114018005	338669	13965-00-2	Potassium-40	TRG 6	UHASL300	HASL300	REG	0	1.37	PCJG	0	U	7/6/2004	38140.05139	2.58	6.91	PCJG	3.25	PCJG	1	9.6	22.4	G	PCJG	PR
3002-0000-187-C-1C-05	MSRW04-1700	114018005	338669	13967-70-9	Cesium-134	TRG 8	UHASL300	HASL300	REG	-0.0968	0.928	PCJG	0	U	7/6/2004	38140.05139	2.58	1.47	PCJG	0.7	PCJG	1	9.6	22.4	G	PCJG	PR
3002-0000-187-C-1C-05	MSRW04-1700	114018005	338669	13967-70-9	Cesium-134	TRG 8	UHASL300	HASL300	REG	2.3	1.67	PCJG	0	U	7/6/2004	38140.05139	2.58	1.58	PCJG	0.765	PCJG	1	9.6	22.4	G	PCJG	PR
3002-0000-187-C-1C-05	MSRW04-1700	114018005	338669	13982-63-3	Radium-226	TRG 8	UHASL300	HASL300	REG	-1.54	1.35	PCJG	0	U	7/6/2004	38140.05139	2.58	2.09	PCJG	1.03	PCJG	1	9.6	22.4	G	PCJG	PR
3002-0000-187-C-1C-05	MSRW04-1700	114018005	338669	14331-83-0	Actinium-228	TRG 8	UHASL300	HASL300	REG	0.193	3.64	PCJG	0	U	7/6/2004	38140.05139	2.58	5.75	PCJG	2.83	PCJG	1	9.6	22.4	G	PCJG	PR
3002-0000-187-C-1C-05	MSRW04-1700	114018005	338669	14391-16-3	Europium-155	TRG 6	UHASL300	HASL300	REG	0.00415	1.49	PCJG	0	U	7/6/2004	38140.05139	2.58	2.2	PCJG	1.08	PCJG	1	9.6	22.4	G	PCJG	PR
3002-0000-187-C-1C-05	MSRW04-1700	114018005	338669	14391-65-2	Silver-108m	TRG 6	UHASL300	HASL300	REG	-0.217	0.548	PCJG	0	U	7/6/2004	38140.05139	2.58	0.809	PCJG	0.397	PCJG	1	9.6	22.4	G	PCJG	PR
3002-0000-187-C-1C-05	MSRW04-1700	114018005	338669	14596-10-2	Americium-241	TRG 8	UHASL300	HASL300	REG	0.346	1.78	PCJG	0	U	7/6/2004	38140.05139	2.58	2.62	PCJG	1.28	PCJG	1	9.6	22.4	G	PCJG	PR
3002-0000-187-C-1C-05	MSRW04-1700	114018005	338669	14683-23-9	Europium-152	TRG 6	UHASL300	HASL300	REG	3.38	2.3	PCJG	0	U	7/6/2004	38140.05139	2.58	2.28	PCJG	1.12	PCJG	1	9.6	22.4	G	PCJG	PR
3002-0000-187-C-1C-05	MSRW04-1700	114018005	338669	14733-03-0	Bismuth-212	TRG 8	UHASL300	HASL300	REG	-1.54	1.35	PCJG	0	U	7/6/2004	38140.05139	2.58	2.09	PCJG	1.03	PCJG	1	9.6	22.4	G	PCJG	PR
3002-0000-187-C-1C-05	MSRW04-1700	114018005	338669	14913-49-6	Bismuth-214	TRG 8	UHASL300	HASL300	REG	7.3	7.3	PCJG	0	U	7/6/2004	38140.05139	2.58	10.4	PCJG	5.12	PCJG	1	9.6	22.4	G	PCJG	PR
3002-0000-187-C-1C-05	MSRW04-1700	114018005	338669	14913-50-9	Thallium-208	TRG 6	UHASL300	HASL300	REG	0.411	0.81	PCJG	0	U	7/6/2004	38140.05139	2.58	1.15	PCJG	0.587	PCJG	1	9.6	22.4	G	PCJG	PR
3002-0000-187-C-1C-05	MSRW04-1700	114018005	338669	15067-28-4	Lead-212	TRG 8	UHASL300	HASL300	REG	0.977	1.05	PCJG	0	U	7/6/2004	38140.05139	2.58	1.6	PCJG	0.788	PCJG	1	9.6	22.4	G	PCJG	PR
3002-0000-187-C-1C-05	MSRW04-1700	114018005	338669	15092-94-1	Lead-212	TRG 8	UHASL300	HASL300	REG	1	0.784	PCJG	0	U	7/6/2004	38140.05139	2.58	1.19	PCJG	0.588	PCJG	1	9.6	22.4	G	PCJG	PR
3002-0000-187-C-1C-05	MSRW04-1700	114018005	338669	15585-10-1	Europium-154	TRG 8	UHASL300	HASL300	REG	28.6	4.5	PCJG	0	U	7/6/2004	38140.04653	3.26	5.13	PCJG	1.52	PCJG	1	9.2	1.99	G	PCJG	PR
3002-0000-187-C-1C-06	MSRW04-1700	114018006	338665	13781-37-8	Nickel-63	TRG 30	ULSC	LSC	REG	3.1	1.2	PCJG	0	U	7/6/2004	38140.27639	6.22	1.93	PCJG	0.942	PCJG	1	9.6	2	G	PCJG	PR
3002-0000-187-C-1C-06	MSRW04-1700	114018006	338665	14681-59-5	Iron-55	TRG 26	ULSC	LSC	REG	341	5.12	PCJG	0	U	7/6/2004	38140.27431	7.26	1.43	PCJG	0.692	PCJG	1	9.2	2.03	G	PCJG	PR
3002-0000-187-C-1C-06	MSRW04-1700	114018006	338667	10028-17-8	Tritium	TRG 20	UE906.0	E906.0	REG	2890	46.5	PCJG	0	U	10/6/2004	10/28	7.13	PCJG	3.58	PCJG	1	9.2		G	PCJG	PR	
3002-0000-187-C-1C-06	MSRW04-1700	114018006	338668	14762-75-5	Carbon-14	TRG 5	ULSC	LSC	REG	1.39	0.453	PCJG	0	U	15/06/2004	12.52	0.726	PCJG	0.357	PCJG	1	9.2	2.6	G	PCJG	PR	
3002-0000-187-C-1C-06	MSRW04-1700	114018006	338669	10045-97-3	Cesium-137	TRG 6	UHASL300	HASL300	REG	0.203	0.321	PCJG	0	U	7/6/2004	38140.04653	3.26	0.508	PCJG	0.252	PCJG	1	9.2	21.1	G	PCJG	PR
3002-0000-187-C-1C-06	MSRW04-1700	114018006	338669	10198-40-0	Cobalt-60	TRG 8	UHASL300	HASL300	REG	2.16	1.8	PCJG	0	U	7/6/2004	38140.04653	3.26	0.407	PCJG	0.198	PCJG	1	9.2	21.1	G	PCJG	PR
3002-0000-187-C-1C-06	MSRW04-1700	114018006	338669	13965-00-2	Potassium-40	TRG 6	UHASL300	HASL300	REG	0	1.68	PCJG	0	U	7/6/2004	38140.04653	3.26	5.13	PCJG	1.52	PCJG	1	9.2	21.1	G	PCJG	PR
3002-0000-187-C-1C-06	MSRW04-1700	114018006	338669	13967-70-9	Cesium-134	TRG 8	UHASL300	HASL300	REG	-0.0762	0.378	PCJG	0	U	7/6/2004	38140.04653	3.26	0.588	PCJG	0.291	PCJG	1	9.2	21.1	G	PCJG	PR
3002-0000-187-C-1C-06	MSRW04-1700	114018006	338669	13967-70-9	Cesium-134	TRG 8	UHASL300	HASL300	REG	1.84	0.692	PCJG	0	U	7/6/2004	38140.04653	3.26	0.632	PCJG	0.313	PCJG	1	9.2	21.1	G	PCJG	PR
3002-0000-187-C-1C-06	MSRW04-1700	114018006	338669	13982-63-3	Radium-226	TRG 8	UHASL300	HASL300	REG	-1.53	0.584	PCJG	0	U	7/6/2004	38140.04653	3.26	0.849	PCJG	0.421	PCJG	1	9.2	21.1	G	PCJG	PR
3002-0000-187-C-1C-06	MSRW04-1700	114018006	338669	14331-83-0	Actinium-228	TRG 6	UHASL300	HASL300	REG	0.506	1.55	PCJG	0	U	7/6/2004	38140.04653	3.26	2.41	PCJG	1.19	PCJG	1	9.2	21.1	G	PCJG	PR
3002-0000-187-C-1C-06	MSRW04-1700	114018006	338669	14391-16-3	Europium-155	TRG 6	UHASL300	HASL300	REG	0.342	0.831	PCJG	0	U	7/6/2004	38140.04653	3.26	1.06	PCJG	0.527	PCJG	1	9.2	21.1	G	PCJG	PR
3002-0000-187-C-1C-06	MSRW04-1700	114018006	338669	14391-65-2	Silver-108m	TRG 6	UHASL300	HASL300	REG	-0.18	0.232	PCJG	0	U	7/6/2004	38140.04653	3.26	0.347	PCJG	0.173	PCJG	1	9.2	21.1	G	PCJG	PR
3002-0000-187-C-1C-06	MSRW04-1700	114018006	338669	14596-10-2	Americium-241	TRG 8	UHASL300	HASL300	REG	0.187	0.641	PCJG	0	U	7/6/2004	38140.04653	3.26	0.932	PCJG	0.483	PCJG	1	9.2	21.1	G	PCJG	PR
3002-0000-187-C-1C-06	MSRW04-1700	114018006	338669	14681-59-5	Niobium-94	TRG 8	UHASL300	HASL300	REG	-0.181	0.293	PCJG	0	U	7/6/2004	38140.04653	3.26	0.462	PCJG	0.228	PCJG	1	9.2	21.1	G	PCJG	PR
3002-0000-187-C-1C-06	MSRW04-1700	114018006	338669	14683-23-9	Europium-152	TRG 6	UHASL300	HASL300	REG	246	16.5	PCJG	0	U	7/6/2004	38140.04653	3.26	1	PCJG	0.498	PCJG	1	9.2	21.1	G	PCJG	PR
3002-0000-187-C-1C-06	MSRW04-1700	114018006	338669	14733-03-0	Bismuth-214	TRG 8	UHASL300	HASL300	REG	-1.53	0.584	PCJG	0	U	7/6/2004	38140.04653	3.26	0.849	PCJG	0.421	PCJG	1	9.2	21.1	G	PCJG	PR
3002-0000-187-C-1C-06	MSRW04-1700	114018006	338669	14913-49-6	Bismuth-212	TRG 8	UHASL300	HASL300	REG	2.6	3.02	PCJG	0	U	7/6/2004	38140.04653	3.26	4									

MSR#04-1700	1200637982	338669	14681-63-1	Niobium-94	TRG	U	HASL300	BS1	-0.153	0.793	PCI/G	0	U	7/6/2004	6.50	1.26	PCI/G	0.609	PCI/G	1	0	10	G	PCI/G	PR				
MSR#04-1700	1200637982	338669	14683-23-9	Europium-152	TRG	U	HASL300	BS1	-1.24	1.82	PCI/G	0	U	7/6/2004	6.50	2.33	PCI/G	1.12	PCI/G	1	0	10	G	PCI/G	PR				
MSR#04-1700	1200637982	338669	14733-03-0	Bismuth-214	TRG	U	HASL300	BS1	-0.434	1.43	PCI/G	0	U	7/6/2004	6.50	2.27	PCI/G	1.1	PCI/G	1	0	10	G	PCI/G	PR				
MSR#04-1700	1200637982	338669	14913-49-6	Bismuth-212	TRG	U	HASL300	BS1	-3.79	6.54	PCI/G	0	U	7/6/2004	6.50	10.2	PCI/G	4.91	PCI/G	1	0	10	G	PCI/G	PR				
MSR#04-1700	1200637982	338669	14913-50-9	Thallium-208	TRG	U	HASL300	BS1	-0.231	0.743	PCI/G	0	U	7/6/2004	6.50	1.18	PCI/G	0.588	PCI/G	1	0	10	G	PCI/G	PR				
MSR#04-1700	1200637982	338669	15067-28-4	Lead-214	TRG	U	HASL300	BS1	0.0977	1.21	PCI/G	0	U	7/6/2004	6.50	1.82	PCI/G	0.878	PCI/G	1	0	10	G	PCI/G	PR				
MSR#04-1700	1200637982	338669	15092-94-1	Lead-212	TRG	U	HASL300	BS1	0.522	0.831	PCI/G	0	U	7/6/2004	6.50	1.26	PCI/G	0.614	PCI/G	1	0	10	G	PCI/G	PR				
MSR#04-1700	1200637982	338669	15585-10-1	Europium-154	TRG	U	HASL300	BS1	-1.5	2.29	PCI/G	0	U	7/6/2004	6.50	3.52	PCI/G	1.64	PCI/G	1	0	10	G	PCI/G	PR				
MSR#04-1700	1200645631	341858	13781-37-8	Nickel-63	TRG	U	LSC	LB1	1.42	0.669	PCI/G	0		18/06/2004	12.28	1.09	PCI/G	0.531	PCI/G	1	0	2.1	G	PCI/G	PR				
3002-0000-187-C-1C-01	MSR#04-1700	1200645632	341858	13781-37-8	Nickel-63	TRG	U	LSC	LR2	748	14.9	PCI/G	0		18/06/2004	12.38	3.56	PCI/G	1.68	PCI/G	1	9.9	1.94	G	PCI/G	791	PR		
3002-0000-187-C-1C-01	MSR#04-1700	1200645633	341858	13781-37-8	Nickel-63	TRG	U	LSC	MS2	903	18	PCI/G	0		18/06/2004	12.50	4.87	PCI/G	2.31	PCI/G	1	9.9	1.01	G	12	7	PCI/G	918	PR
MSR#04-1700	1200645634	341858	13781-37-8	Nickel-63	TRG	U	LSC	BS1	48.5	1.3	PCI/G	0		18/06/2004	1.52	0.916	PCI/G	0.448	PCI/G	1	0	2.1	G	60	7	PCI/G	PR		

Table of Contents

Case Narrative	1
Chain of Custody	4
Cooler Receipt Checklist	7
Radiological Analysis	9
Sample Data Summary	22
Quality Control Data	63

**CASE
NARRATIVE**

CASE NARRATIVE
For
CONNECTICUT YANKEE
RE: Concrete Cores
PO# 002337
Work Order: 111637
SDG: MSR# 04-1223

April 8, 2004

Laboratory Identification:

General Engineering Laboratories, LLC

Mailing Address:

P.O. Box 30712
Charleston, South Carolina 29417

Express Mail Delivery and Shipping Address:

2040 Savage Road
Charleston, South Carolina 29407

Telephone Number:

(843) 556-8171

Summary:

Sample receipt

The samples for the Concrete Cores Project for work order 111637 arrived at General Engineering Laboratories, LLC, (GEL) in Charleston, South Carolina April 27, 2004 for environmental analysis. All sample containers arrived without any visible signs of tampering or breakage. The chain of custody contained the proper documentation and signatures.

The laboratory received the following samples:

3100-0000-179-C-1C-01	3100-0000-179-C-12C-01
3100-0000-179-C-1C-02	3100-0000-179-C-15C-01
3100-0000-175-C-1C-01	3100-0000-179-C-15C-02
3100-0000-175-C-1C-02	3100-0000-175-C-10C-01
3100-0000-179-C-4C-01	3100-0000-175-C-17C-01
3100-0000-179-C-4C-02	3100-0000-175-C-20C-01
3100-0000-175-C-4C-01	3100-0000-175-C-20C-02
3100-0000-175-C-4C-02	3101-0000-175-B-21B-01
3100-0000-179-C-9C-01	3101-0000-175-B-21B-02

Items of Note:

There are no items to note.

Case Narrative:

Sample analyses were conducted using methodology as outlined in General Engineering Laboratories (GEL) Standard Operating Procedures. Any technical or administrative problems during analysis, data review, and reduction are listed below by analytical parameter.

Analytical Request:

All eighteen concrete samples were analyzed for Gamma Spec. Fourteen of the eighteen were analyzed for Sr-90, and H-3. Four of these samples were also analyzed for C-14 and CHTRU.

Internal Chain of Custody:

Custody was maintained for all of these samples.

Data Package:

The enclosed data package contains the following sections: Case Narrative, Chain of Custody, Cooler Receipt Checklist, Laboratory Certifications, and Radiochemistry.

I certify that this data package is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or a designee, as verified by the following signature.


Sarah Kozlik
Project Manager

CHAIN
OF
CUSTODY

11163770

Connecticut Yankee Atomic Power Company

362 Injun Hollow Road, East Hampton, CT 06424
860-267-2556

Chain of Custody Form

No. 2004-00061

Project Name: Haddam Neck Decommissioning			Media Code	Sample Type Code	Container Size- & Type Code	Analyses Requested					Lab Use Only			
Contact Name & Phone: Pete Hollenbeck 860-267-3923						CHGAM	H-3	SR-90	C-14	CHTRU	Comments:			
Analytical Lab (Name, City, State): General Engineering Laboratories 2040 Savage Road Charleston, SC 29407 Sarah Kozlik														
Priority: <input type="checkbox"/> 30 D. <input checked="" type="checkbox"/> 14 D. <input type="checkbox"/> 7 D. Other:														
Sample Designation	Date	Time								Comment, Preservation	Lab Sample ID			
3100-0000-179-C-1C-01 ✓	4/1/04	1105	CT	CR	BP	X				contains PCB's (<400 ppm)				
3100-0000-179-C-1C-02 ✓	4/1/04	1105	CT	CR	BP	X				contains PCB's (<400 ppm)				
3100-0000-179-C-4C-01 ✓	4/1/04	1430	CT	CR	BP	X	X	X	X					
3100-0000-179-C-4C-02 ✓	4/1/04	1430	CT	CR	BP	X	X	X	X					
3100-0000-179-C-9C-01 ✓	4/6/04	1325	CT	CR	BP	X	X	X						
3100-0000-179-C-12C-01 ✓	4/6/04	1500	CT	CR	BP	X	X	X						
3100-0000-179-C-15C-01 ✓	4/8/04	1325	CT	CR	BP	X	X	X						
3100-0000-179-C-15C-02	4/8/04	1325	CT	CR	BP	X	X	X						
NOTES: PO #: 002337 MSR #: 04-1223 <input type="checkbox"/> LTP QA <input type="checkbox"/> Radwaste QA <input checked="" type="checkbox"/> Non QA										Samples Shipped Via: <input checked="" type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Hand <input type="checkbox"/> Other _____		Internal Container Temp.: <u>18</u> Deg. C Custody Sealed? Y <input type="checkbox"/> N <input checked="" type="checkbox"/> Custody Seal Intact? Y <input type="checkbox"/> N <input type="checkbox"/>		
1) Relinquished By <u>Dorulla</u> Date/Time <u>4/24/04 1235</u>			2) Received By <u>[Signature]</u> Date/Time <u>4-27-04 0950</u>			Bill of Lading # <u>7912 2204 3956</u>								
3) Relinquished By _____ Date/Time _____			4) Received By _____ Date/Time _____											
5) Relinquished By _____ Date/Time _____			6) Received By _____ Date/Time _____											

11103790

Connecticut Yankee Atomic Power Company

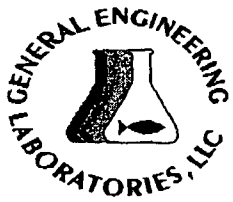
362 Injun Hollow Road, East Hampton, CT 06424
860-267-2556

Chain of Custody Form

No. 2004-00060

Project Name: Haddam Neck Decommissioning			Media Code	Sample Type Code	Container Size- & Type Code	Analyses Requested					Lab Use Only			
Contact Name & Phone: Pete Hollenbeck 860-267-3923						CHGAM	H-3	SR-90	C-14	CHTRU	Comments:			
Analytical Lab (Name, City, State): General Engineering Laboratories 2040 Savage Road Charleston, SC 29407 Sarah Kozlik														
Priority: <input type="checkbox"/> 30 D. <input checked="" type="checkbox"/> 14 D. <input type="checkbox"/> 7 D. Other:														
Sample Designation	Date	Time								Comment, Preservation	Lab Sample ID			
3100-0000-175-C-1C-01	3/25/04	1440	CT	CR	BP	X				contains PCB's (<400 ppm)				
3100-0000-175-C-1C-02	3/25/04	1440	CT	CR	BP	X				contains PCB's (<400 ppm)				
3100-0000-175-C-4C-01	3/29/04	0825	CT	CR	BP	X	X	X	X					
3100-0000-175-C-4C-02	3/29/04	0825	CT	CR	BP	X	X	X	X					
3100-0000-175-C-10C-01	3/29/04	1420	CT	CR	BP	X	X	X						
3100-0000-175-C-17C-01	3/30/04	1330	CT	CR	BP	X	X	X						
3100-0000-175-C-20C-01	3/30/04	1430	CT	CR	BP	X	X	X						
3100-0000-175-C-20C-02	3/30/04	1430	CT	CR	BP	X	X	X						
3101-0000-175-B-21B-01	3/31/04	1100	BR	CR	BP	X	X	X						
3101-0000-175-B-21B-02	3/31/04	1100	BR	CR	BP	X	X	X						
NOTES: PO #: 002337 MSR #: 04-1223 <input type="checkbox"/> LTP QA <input type="checkbox"/> Radwaste QA <input checked="" type="checkbox"/> Non QA										Samples Shipped Via: <input checked="" type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Hand <input type="checkbox"/> Other _____		Internal Container Temp.: <u>18</u> Deg. C Custody Sealed? Y <input type="checkbox"/> N <input checked="" type="checkbox"/> Custody Seal Intact? Y <input type="checkbox"/> N <input type="checkbox"/>		
1) Relinquished By <i>[Signature]</i>			Date/Time <u>4/26/04 1235</u>			2) Received By <i>[Signature]</i>			Date/Time <u>4-27-04 0920</u>			7912 2204 3956 Bill of Lading #		
3) Relinquished By			Date/Time			4) Received By			Date/Time					
5) Relinquished By			Date/Time			6) Received By			Date/Time					

**COOLER
RECEIPT
CHECKLIST**



SAMPLE RECEIPT & REVIEW FORM

PM use only

Client: <u>Conn Yankee</u>	SDG/AREOC Work Order: _____
Date Received: <u>4/28/04</u>	PM(A) Review (ensure non-conforming items are resolved prior to signing):
Received By: <u>MIC</u>	<u>Copy 1/2/04</u>

Sample Receipt Criteria	Conforming	NA	Non-Conforming	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	✓			Circle Applicable: seals broken damaged container leaking container other (describe)
2 Samples requiring cold preservation within (4 +/- 2 C)? Record preservation method.		✓		ice bags blue ice dry ice none other (describe) <u>18°</u>
3 Chain of custody documents included with shipment?	✓			
4 Sample containers intact and sealed?	✓			Circle Applicable: seals broken damaged container leaking container other (describe)
5 Samples requiring chemical preservation at proper pH?		✓		Sample ID's, containers affected and observed pH:
6 VOA vials free of headspace (defined as < 6mm bubble)?		✓		Sample ID's and containers affected:
7 Samples received within holding time?	✓			ID's and tests affected:
8 Sample ID's on COC match ID's on bottles?	✓			Sample ID's and containers affected:
9 Date & time on COC match date & time on bottles?	✓			Sample ID's affected:
10 Number of containers received match number indicated on COC?	✓			Sample ID's affected:
11 COC form is properly signed in relinquished/received sections?	✓			
12 Air Bill & Tracking #'s				<u>Fed ex # 7912 2204 3956</u>

Radiological Information	Non-RAD	RAD	RADI	RSO RAD Receipt #
What is the radiological classification of the samples?		✓		Comments: _____
Radioactivity Screening Results (maximum observed CPM)		N/A		If > 20 area background is observed on a non-radioactive sample, contact the RSO to investigate.

RADIOLOGICAL ANALYSIS

**Radiochemistry Case Narrative
Connecticut Yankee Atomic Power Co. (YANK)
SDG MSR#:04-1223**

Method/Analysis Information

Product:	Alphaspec Am241, Cm, Solid-TRU2,ALL2
Analytical Method:	DOE EML HASL-300, Am-05-RC Modified
Prep Method:	Ash Soil Prep
Dry Soil Prep GL-RAD-A-021 Method:	Dry Soil Prep
Analytical Batch Number:	328693
Prep Batch Number:	328490
Dry Soil Prep GL-RAD-A-021 Batch Number:	328473

Sample ID	Client ID
111637005	3100-0000-179-C-4C-01
111637006	3100-0000-179-C-4C-02
111637007	3100-0000-175-C-4C-01
111637008	3100-0000-175-C-4C-02
1200614764	Method Blank (MB)
1200614767	Laboratory Control Sample (LCS)
1200614765	111637005(3100-0000-179-C-4C-01) Sample Duplicate (DUP)
1200614766	111637005(3100-0000-179-C-4C-01) Matrix Spike (MS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-011 REV# 12.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 111637005 (3100-0000-179-C-4C-01).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Miscellaneous Information:**NCR Documentation**

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product:	Alphaspec Pu, Solid-TRU2,ALL2
Analytical Method:	DOE EML HASL-300, Pu-11-RC Modified
Prep Method:	Ash Soil Prep
Dry Soil Prep GL-RAD-A-021 Method:	Dry Soil Prep
Analytical Batch Number:	328694
Prep Batch Number:	328490
Dry Soil Prep GL-RAD-A-021 Batch Number:	328473

Sample ID	Client ID
111637005	3100-0000-179-C-4C-01
111637006	3100-0000-179-C-4C-02
111637007	3100-0000-175-C-4C-01
111637008	3100-0000-175-C-4C-02
1200614768	Method Blank (MB)
1200614771	Laboratory Control Sample (LCS)
1200614769	111637005(3100-0000-179-C-4C-01) Sample Duplicate (DUP)
1200614770	111637005(3100-0000-179-C-4C-01) Matrix Spike (MS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-011 REV# 12.

Calibration Information:**Calibration Information**

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:**Blank Information**

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 111637005 (3100-0000-179-C-4C-01).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product:	Liquid Scint Pu241, Solid-TRU2,ALL2
Analytical Method:	DOE EML HASL-300, Pu-11-RC Modified
Prep Method:	Ash Soil Prep
Dry Soil Prep GL-RAD-A-021 Method:	Dry Soil Prep
Analytical Batch Number:	328695
Prep Batch Number:	328490
Dry Soil Prep GL-RAD-A-021 Batch Number:	328473

Sample ID	Client ID
111637005	3100-0000-179-C-4C-01
111637006	3100-0000-179-C-4C-02
111637007	3100-0000-175-C-4C-01
111637008	3100-0000-175-C-4C-02
1200614772	Method Blank (MB)
1200614775	Laboratory Control Sample (LCS)
1200614773	111637005(3100-0000-179-C-4C-01) Sample Duplicate (DUP)
1200614774	111637005(3100-0000-179-C-4C-01) Matrix Spike (MS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-035 REV# 5.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 111637005 (3100-0000-179-C-4C-01).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product:	Gammascpec, Gamma, Solid-GAM2,ALL2
Analytical Method:	EML HASL 300, 4.5.2.3
Prep Method:	Dry Soil Prep
Laboratory sample composite Method:	GL-RAD-A-026
Analytical Batch Number:	328906
Prep Batch Number:	328473
Laboratory sample composite Batch Number:	328472

Sample ID	Client ID
111637001	3100-0000-179-C-1C-01
111637002	3100-0000-179-C-1C-02
111637003	3100-0000-175-C-1C-01
111637004	3100-0000-175-C-1C-02

111637005	3100-0000-179-C-4C-01
111637006	3100-0000-179-C-4C-02
111637007	3100-0000-175-C-4C-01
111637008	3100-0000-175-C-4C-02
111637009	3100-0000-179-C-9C-01
111637010	3100-0000-179-C-12C-01
111637011	3100-0000-179-C-15C-01
111637012	3100-0000-179-C-15C-02
111637013	3100-0000-175-C-10C-01
111637014	3100-0000-175-C-17C-01
111637015	3100-0000-175-C-20C-01
111637016	3100-0000-175-C-20C-02
111637017	3101-0000-175-B-21B-01
111637018	3101-0000-175-B-21B-02
1200615255	Method Blank (MB)
1200615257	Laboratory Control Sample (LCS)
1200615256	111637001(3100-0000-179-C-1C-01) Sample Duplicate (DUP)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-013 REV# 10.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 111637001 (3100-0000-179-C-1C-01).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Qualifier information

Qualifier	Reason	Analyte	Sample
UI	Data rejected due to low abundance.	Actinium-228	111637004
			111637007
			111637009
			111637010
			111637011
			111637014
			111637015
			111637016
		Bismuth-214	111637010
			111637011
			111637012
			111637014
			111637016
			1200615256
		Cesium-134	111637003
		Cobalt-60	111637006
		Lead-212	1200615255
		Lead-214	111637018
		Thallium-208	111637010
			111637011
			111637012
UI	Data rejected due to no valid peak.	Americium-241	1200615256
		Bismuth-212	111637014

Method/Analysis Information

Product:

Analytical Method:

Prep Method:

Dry Soil Prep GL-RAD-A-021 Method:

Analytical Batch Number:

Prep Batch Number:

Dry Soil Prep GL-RAD-A-021 Batch Number:

GFPC, Sr90, solid-HTD2,ALL2

EPA 905.0 Modified

Ash Soil Prep

Dry Soil Prep

328553

328490

328473

Sample ID

111637005

111637006

111637007

111637008

111637009

111637010

111637011

111637012

111637013

Client ID

3100-0000-179-C-4C-01

3100-0000-179-C-4C-02

3100-0000-175-C-4C-01

3100-0000-175-C-4C-02

3100-0000-179-C-9C-01

3100-0000-179-C-12C-01

3100-0000-179-C-15C-01

3100-0000-179-C-15C-02

3100-0000-175-C-10C-01

111637014	3100-0000-175-C-17C-01
111637015	3100-0000-175-C-20C-01
111637016	3100-0000-175-C-20C-02
111637017	3101-0000-175-B-21B-01
111637018	3101-0000-175-B-21B-02
1200614496	Method Blank (MB)
1200614499	Laboratory Control Sample (LCS)
1200614497	111637018(3101-0000-175-B-21B-02) Sample Duplicate (DUP)
1200614498	111637018(3101-0000-175-B-21B-02) Matrix Spike (MS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-004 REV# 8.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 111637018 (3101-0000-175-B-21B-02).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

Samples 111637012 (3100-0000-179-C-15C-02), 111637015 (3100-0000-175-C-20C-01), 111637016 (3100-0000-175-C-20C-02) and 111637018 (3101-0000-175-B-21B-02) were recounted to verify sample results. Second counts being reported.

Sample 111637014 (3100-0000-175-C-17C-01) was counted 5 days from the initial separation in order to verify the sample result. The results did not verify, and the sample was put back onto a SR spec column. The result of the second separation confirms that the initial beta result was biased high due to an interfering isotope, and the result from the second separation is being reported.

Chemical Recoveries

All chemical recoveries meet the required acceptance limits for this sample set.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. The following NCR was generated for this SDG:
NCR 110600 was generated due to RDL less than MDA. 1. The samples (111637010,111637011,111637013) did not meet the required detection limit. They were counted for five-hundred minutes. Reporting results.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product:	LSC, Tritium Dist, Solid-HTD2,ALL2
Analytical Method:	EPA 906.0 Modified
Prep Method:	GL-RAD-A-026
Analytical Batch Number:	328815
Prep Batch Number:	328472

Sample ID	Client ID
111637005	3100-0000-179-C-4C-01
111637006	3100-0000-179-C-4C-02
111637007	3100-0000-175-C-4C-01
111637008	3100-0000-175-C-4C-02
111637009	3100-0000-179-C-9C-01
111637010	3100-0000-179-C-12C-01
111637011	3100-0000-179-C-15C-01
111637012	3100-0000-179-C-15C-02
111637013	3100-0000-175-C-10C-01
111637014	3100-0000-175-C-17C-01
111637015	3100-0000-175-C-20C-01
111637016	3100-0000-175-C-20C-02
111637017	3101-0000-175-B-21B-01
111637018	3101-0000-175-B-21B-02
1200615008	Method Blank (MB)
1200615011	Laboratory Control Sample (LCS)
1200615009	111637005(3100-0000-179-C-4C-01) Sample Duplicate (DUP)
1200615010	111637005(3100-0000-179-C-4C-01) Matrix Spike (MS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-002 REV# 9.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 111637005 (3100-0000-179-C-4C-01).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

Sample 1200615010 (3100-0000-179-C-4C-01) was recounted due to low/high recovery.

Samples 111637005 (3100-0000-179-C-4C-01) and 1200615009 (3100-0000-179-C-4C-01) were recounted due to high relative percent difference/relative error ratio.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product:	Liquid Scint C14, Solid-HTD2,ALL2
Analytical Method:	EPA EERF C-01 Modified
Prep Method:	GL-RAD-A-026
Analytical Batch Number:	328843
Prep Batch Number:	328472

Sample ID	Client ID
111637005	3100-0000-179-C-4C-01
111637006	3100-0000-179-C-4C-02
111637007	3100-0000-175-C-4C-01
111637008	3100-0000-175-C-4C-02
1200615067	Method Blank (MB)
1200615070	Laboratory Control Sample (LCS)
1200615068	111637005(3100-0000-179-C-4C-01) Sample Duplicate (DUP)
1200615069	111637005(3100-0000-179-C-4C-01) Matrix Spike (MS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in

accordance with GL-RAD-A-003 REV# 7.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 111637005 (3100-0000-179-C-4C-01).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Qualifier information

Manual qualifiers were not required.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Review Validation:

GEL requires all analytical data to be verified by a qualified data validator. In addition, all data designated for CLP or CLP-like packaging will receive a third level validation upon completion of the data package.

The following data validator verified the information presented in this case narrative:

Arnell Cichou 5/12/04

Reviewer: _____

COMPANY - WIDE NONCONFORMANCE REPORT			
Mo. Day Yr. 10-MAY-04	Division: Radiochemistry	Type: Process	
Instrument Type: GFPC	Quality Criteria: Specifications	Client Code: YANK	
Test / Method: EPA 905.0 Modified	Matrix Type: Solid	Batch ID: 328553	Sample Numbers: See Below
Potentially affected work order(s)(SDG): 111637(MSR#:04-1223)			
Application Issues: RDL less than MDA Failed RPD for DUP			
Specification and Requirements		NRG Disposition:	
Nonconformance Description:			
1. The samples (111637010,111637011,111637013) did not meet the required detection limit. They were counted for five-hundred minutes.		1. Reporting results.	

Originator's Name:
 Jimmy Hartley 10-MAY-04

Quality Review:
 Lonnie Morris 10-MAY-04

Director:

Data Validator/Group Leader:
 Joseph Jones 10-MAY-04

Corrective Action:

Corrective Action ID and Complete Date:

SAMPLE DATA SUMMARY

GENERAL ENGINEERING LABORATORIES, LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : Haddam Neck Plant
362 Injun Hollow Road
East Hampton, Connecticut 06424
Contact : Mr. Pete Hollenbeck
Project : Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 1 of 2

Client Sample ID:	3100-0000-179-C-1C-01	Project:	YANK00204
Sample ID:	111637001	Client ID:	YANK001
Matrix:	Misc Solid		
Collect Date:	01-APR-04		
Receive Date:	27-APR-04		
Collector:	Client		
Moisture:	4.95%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gamma Spec Analysis													
<i>GammaSpec, Gamma, Solid-GAM2, ALL2</i>													
Actinium-228	U	0.401	+/-0.365	0.210	+/-0.358	0.433	pCi/g		SRB	05/05/04	2015	328906	1
Americium-241	U	0.0304	+/-0.167	0.116	+/-0.163	0.237	pCi/g						
Bismuth-212	U	0.495	+/-0.395	0.321	+/-0.387	0.664	pCi/g						
Bismuth-214		0.305	+/-0.194	0.0722	+/-0.191	0.149	pCi/g						
Cesium-134		0.267	+/-0.113	0.045	+/-0.111	0.0935	pCi/g						
Cesium-137		19.5	+/-2.21	0.0397	+/-2.17	0.0821	pCi/g						
Cobalt-60		5.20	+/-0.406	0.039	+/-0.398	0.0833	pCi/g						
Europium-152	U	-0.0517	+/-0.141	0.105	+/-0.138	0.214	pCi/g						
Europium-154	U	0.0685	+/-0.133	0.110	+/-0.130	0.234	pCi/g						
Europium-155	U	0.0344	+/-0.114	0.0805	+/-0.112	0.164	pCi/g						
Lead-212		0.356	+/-0.126	0.0549	+/-0.124	0.112	pCi/g						
Lead-214		0.457	+/-0.179	0.0796	+/-0.176	0.163	pCi/g						
Manganese-54	U	0.0444	+/-0.0563	0.045	+/-0.0552	0.0934	pCi/g						
Niobium-94	U	0.0361	+/-0.0321	0.0335	+/-0.0315	0.0696	pCi/g						
Potassium-40		6.25	+/-1.33	0.357	+/-1.30	0.766	pCi/g						
Radium-226		0.305	+/-0.194	0.0722	+/-0.191	0.149	pCi/g						
Silver-108m	U	0.0229	+/-0.0607	0.0457	+/-0.0595	0.0933	pCi/g						
Thallium-208		0.196	+/-0.100	0.0409	+/-0.0981	0.0843	pCi/g						

Solid Preparation

Laboratory Composite

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	04/27/04	1554	328473
GL-RAD-A-026	Laboratory sample composite	AWB	04/27/04	1522	328472

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	GL-RAD-A-026

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : Haddam Neck Plant
362 Injun Hollow Road
East Hampton, Connecticut 06424
Contact: Mr. Pete Hollenbeck
Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 2 of 2

Client Sample ID: 3100-0000-179-C-1C-01
Sample ID: 111637001

Project: YANK00204
Client ID: YANK001

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch Mtd.
-----------	-----------	--------	-------------	----	-----	-----	-------	----	-------------	------	------------

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Sarah Kozlik.



Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : Haddam Neck Plant
 362 Injun Hollow Road
 East Hampton, Connecticut 06424
 Contact: Mr. Pete Hollenbeck
 Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 1 of 2

Client Sample ID:	3100-0000-179-C-1C-02	Project:	YANK00204
Sample ID:	111637002	Client ID:	YANK001
Matrix:	Misc Solid		
Collect Date:	01-APR-04		
Receive Date:	27-APR-04		
Collector:	Client		
Moisture:	5.62%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gamma Spec Analysis													
<i>Gammascpec, Gamma, Solid-GAM2, ALL2</i>													
Actinium-228		0.437	+/-0.478	0.175	+/-0.468	0.363	pCi/g		SRB	05/05/04	2016	328906	1
Americium-241	U	-0.00108	+/-0.0539	0.0349	+/-0.0528	0.0714	pCi/g						
Bismuth-212	U	0.281	+/-0.482	0.370	+/-0.472	0.766	pCi/g						
Bismuth-214		0.374	+/-0.226	0.0781	+/-0.222	0.162	pCi/g						
Cesium-134	U	0.0242	+/-0.0965	0.0556	+/-0.0946	0.115	pCi/g						
Cesium-137		0.102	+/-0.098	0.0442	+/-0.096	0.0915	pCi/g						
Cobalt-60		0.153	+/-0.0932	0.0602	+/-0.0913	0.126	pCi/g						
Europium-152	U	0.0671	+/-0.125	0.0969	+/-0.122	0.199	pCi/g						
Europium-154	U	0.0359	+/-0.274	0.147	+/-0.268	0.308	pCi/g						
Europium-155	U	0.0291	+/-0.0925	0.0673	+/-0.0906	0.138	pCi/g						
Lead-212		0.399	+/-0.128	0.0484	+/-0.125	0.0992	pCi/g						
Lead-214		0.298	+/-0.198	0.0712	+/-0.194	0.146	pCi/g						
Manganese-54	U	-0.0349	+/-0.060	0.0459	+/-0.0588	0.0956	pCi/g						
Niobium-94	U	0.0243	+/-0.0626	0.0436	+/-0.0614	0.090	pCi/g						
Potassium-40		4.95	+/-1.77	0.502	+/-1.73	1.06	pCi/g						
Radium-226		0.374	+/-0.226	0.0781	+/-0.222	0.162	pCi/g						
Silver-108m	U	-0.0169	+/-0.0451	0.0339	+/-0.0442	0.070	pCi/g						
Thallium-208		0.210	+/-0.118	0.0432	+/-0.115	0.0892	pCi/g						

Solid Preparation

Laboratory Composite

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	04/27/04	1554	328473
GL-RAD-A-026	Laboratory sample composite	AWB	04/27/04	1522	328472

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	GL-RAD-A-026

Notes:

The Qualifiers in this report are defined as follows :

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : Haddam Neck Plant
362 Injun Hollow Road
East Hampton, Connecticut 06424
Contact: Mr. Pete Hollenbeck
Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 2 of 2

Client Sample ID: 3100-0000-179-C-1C-02
Sample ID: 111637002

Project: YANK00204
Client ID: YANK001

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch Mtd.
-----------	-----------	--------	-------------	----	-----	-----	-------	----	-------------	------	------------

- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Sarah Kozlik.



Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : Haddam Neck Plant
362 Injun Hollow Road
East Hampton, Connecticut 06424
Contact: Mr. Pete Hollenbeck
Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 1 of 2

Client Sample ID:	3100-0000-175-C-1C-01	Project:	YANK00204
Sample ID:	111637003	Client ID:	YANK001
Matrix:	Misc Solid		
Collect Date:	25-MAR-04		
Receive Date:	27-APR-04		
Collector:	Client		
Moisture:	5.07%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch Mtd.
Rad Gamma Spec Analysis												
<i>Gammasec, Gamma, Solid-GAM2, ALL2</i>												
Actinium-228	U	0.178	+/-0.329	0.199	+/-0.322	0.411	pCi/g		SRB	05/05/04	2113	328906 1
Americium-241	U	0.174	+/-0.249	0.132	+/-0.244	0.269	pCi/g					
Bismuth-212	U	0.232	+/-0.590	0.343	+/-0.578	0.710	pCi/g					
Bismuth-214		0.381	+/-0.173	0.0868	+/-0.170	0.179	pCi/g					
Cesium-134	U	0.00	+/-0.110	0.0545	+/-0.108	0.113	pCi/g					
	UI											
Cesium-137		34.9	+/-4.37	0.0465	+/-4.28	0.0959	pCi/g					
Cobalt-60		7.78	+/-0.669	0.043	+/-0.656	0.0915	pCi/g					
Europium-152	U	-0.11	+/-0.163	0.123	+/-0.160	0.251	pCi/g					
Europium-154	U	0.0152	+/-0.148	0.117	+/-0.145	0.248	pCi/g					
Europium-155	U	-0.0455	+/-0.121	0.0856	+/-0.119	0.175	pCi/g					
Lead-212		0.430	+/-0.134	0.0646	+/-0.131	0.132	pCi/g					
Lead-214		0.254	+/-0.196	0.0962	+/-0.192	0.196	pCi/g					
Manganese-54	U	-0.00119	+/-0.0627	0.0497	+/-0.0614	0.103	pCi/g					
Niobium-94	U	-0.0323	+/-0.0492	0.0358	+/-0.0482	0.0743	pCi/g					
Potassium-40		7.36	+/-1.37	0.303	+/-1.34	0.662	pCi/g					
Radium-226		0.381	+/-0.173	0.0868	+/-0.170	0.179	pCi/g					
Silver-108m	U	-0.0398	+/-0.072	0.0542	+/-0.0706	0.110	pCi/g					
Thallium-208	U	0.0936	+/-0.0927	0.0533	+/-0.0908	0.109	pCi/g					

Solid Preparation

Laboratory Composite

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	04/27/04	1554	328473
GL-RAD-A-026	Laboratory sample composite	AWB	04/27/04	1522	328472

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	GL-RAD-A-026

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power

Address : Haddam Neck Plant

362 Injun Hollow Road

East Hampton, Connecticut 06424

Contact: Mr. Pete Hollenbeck

Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 2 of 2

Client Sample ID: 3100-0000-175-C-1C-01
Sample ID: 111637003

Project: YANK00204
Client ID: YANK001

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch	Mtd.
-----------	-----------	--------	-------------	----	-----	-----	-------	----	-------------	------	-------	------

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Sarah Kozlik.

Heather G. Cervoni

Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : Haddam Neck Plant
 362 Injun Hollow Road
 East Hampton, Connecticut 06424
 Contact: Mr. Pete Hollenbeck
 Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 1 of 2

Client Sample ID:	3100-0000-175-C-1C-02	Project:	YANK00204
Sample ID:	111637004	Client ID:	YANK001
Matrix:	Misc Solid		
Collect Date:	25-MAR-04		
Receive Date:	27-APR-04		
Collector:	Client		
Moisture:	6.09%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch	Mtd.
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid-GAM2, ALL2</i>												
Actinium-228	U	0.00	+/-0.267	0.158	+/-0.262	0.331	pCi/g	SRB	05/05/04	2252	328906	1
	UI											
Americium-241	U	0.0396	+/-0.0967	0.0707	+/-0.0948	0.147	pCi/g					
Bismuth-212		0.686	+/-0.395	0.207	+/-0.387	0.441	pCi/g					
Bismuth-214		0.411	+/-0.158	0.0431	+/-0.155	0.0917	pCi/g					
Cesium-134	U	0.039	+/-0.0353	0.0299	+/-0.0346	0.0639	pCi/g					
Cesium-137	U	0.0246	+/-0.0665	0.0241	+/-0.0652	0.0516	pCi/g					
Cobalt-60	U	0.00969	+/-0.0352	0.0294	+/-0.0345	0.065	pCi/g					
Europium-152	U	-0.0381	+/-0.0744	0.0525	+/-0.0729	0.111	pCi/g					
Europium-154	U	-0.0152	+/-0.107	0.0801	+/-0.104	0.176	pCi/g					
Europium-155	U	-0.0445	+/-0.0686	0.0486	+/-0.0673	0.101	pCi/g					
Lead-212		0.498	+/-0.0938	0.0311	+/-0.0919	0.0646	pCi/g					
Lead-214		0.383	+/-0.114	0.0393	+/-0.112	0.0825	pCi/g					
Manganese-54	U	0.0167	+/-0.0346	0.0279	+/-0.0339	0.0598	pCi/g					
Niobium-94	U	-0.00119	+/-0.0291	0.0226	+/-0.0285	0.0482	pCi/g					
Potassium-40		6.20	+/-1.29	0.297	+/-1.26	0.656	pCi/g					
Radium-226		0.411	+/-0.158	0.0431	+/-0.155	0.0917	pCi/g					
Silver-108m	U	0.0128	+/-0.0297	0.0201	+/-0.0291	0.0423	pCi/g					
Thallium-208		0.134	+/-0.0845	0.0219	+/-0.0828	0.0467	pCi/g					

Solid Preparation

Laboratory Composite

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	04/27/04	1554	328473
GL-RAD-A-026	Laboratory sample composite	AWB	04/27/04	1522	328472

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	GL-RAD-A-026

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : Haddam Neck Plant
362 Injun Hollow Road
East Hampton, Connecticut 06424
Contact: Mr. Pete Hollenbeck
Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 2 of 2

Client Sample ID: 3100-0000-175-C-1C-02
Sample ID: 111637004

Project: YANK00204
Client ID: YANK001

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch Mtd.
-----------	-----------	--------	-------------	----	-----	-----	-------	----	-------------	------	------------

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Sarah Kozlik.

Heather C. C. C.
Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : Haddam Neck Plant
 362 Injun Hollow Road
 East Hampton, Connecticut 06424
 Contact : Mr. Pete Hollenbeck
 Project : Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 1 of 3

Client Sample ID:	3100-0000-179-C-4C-01	Project:	YANK00204
Sample ID:	111637005	Client ID:	YANK001
Matrix:	Misc Solid		
Collect Date:	01-APR-04		
Receive Date:	27-APR-04		
Collector:	Client		
Moisture:	5.59%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch Mtd.
Rad Alpha Spec Analysis											
<i>Alphaspec Am241, Cm, Solid-TRU2,ALL2</i>											
Americium-241	U	-0.00716	+/-0.0149	0.0211	+/-0.0149	0.0589	pCi/g		JAS1 05/04/04	1231	328693 1
Curium-242	U	-0.00854	+/-0.00749	0.0181	+/-0.00756	0.0556	pCi/g				
Curium-243/244	U	0.00396	+/-0.0266	0.0264	+/-0.0266	0.0696	pCi/g				
<i>Alphaspec Pu, Solid-TRU2,ALL2</i>											
Plutonium-238		0.00765	+/-0.00866	0.00	+/-0.00868	0.00691	pCi/g		JAS1 05/03/04	2216	328694 2
Plutonium-239/240	U	0.00636	+/-0.00901	0.00421	+/-0.00902	0.0153	pCi/g				
<i>Liquid Scint Pu241, Solid-TRU2,ALL2</i>											
Plutonium-241	U	-0.286	+/-1.64	1.38	+/-1.64	2.83	pCi/g		JAS1 05/05/04	1854	328695 3
Rad Gamma Spec Analysis											
<i>Gammaspac, Gamma, Solid-GAM2,ALL2</i>											
Actinium-228		0.549	+/-0.245	0.0878	+/-0.240	0.190	pCi/g		SRB 05/05/04	2253	328906 4
Americium-241	U	0.0518	+/-0.179	0.111	+/-0.175	0.231	pCi/g				
Bismuth-212	U	0.0904	+/-0.351	0.182	+/-0.344	0.391	pCi/g				
Bismuth-214		0.435	+/-0.139	0.043	+/-0.137	0.0913	pCi/g				
Cesium-134	U	0.0554	+/-0.0618	0.0311	+/-0.0606	0.0661	pCi/g				
Cesium-137	U	0.0446	+/-0.0334	0.028	+/-0.0327	0.0592	pCi/g				
Cobalt-60	U	0.0241	+/-0.0392	0.030	+/-0.0384	0.0658	pCi/g				
Europium-152	U	0.0207	+/-0.0791	0.0588	+/-0.0776	0.123	pCi/g				
Europium-154	U	-0.0809	+/-0.106	0.0766	+/-0.104	0.169	pCi/g				
Europium-155	U	0.0156	+/-0.0785	0.0583	+/-0.077	0.121	pCi/g				
Lead-212		0.507	+/-0.0952	0.0311	+/-0.0933	0.0646	pCi/g				
Lead-214		0.559	+/-0.143	0.0428	+/-0.140	0.0895	pCi/g				
Manganese-54	U	-0.0028	+/-0.0342	0.0261	+/-0.0336	0.0558	pCi/g				
Niobium-94	U	-0.0142	+/-0.0314	0.0234	+/-0.0308	0.0496	pCi/g				
Potassium-40		6.20	+/-1.19	0.246	+/-1.17	0.551	pCi/g				
Radium-226		0.435	+/-0.139	0.043	+/-0.137	0.0913	pCi/g				
Silver-108m	U	7.570E-05	+/-0.0261	0.0204	+/-0.0256	0.043	pCi/g				
Thallium-208		0.132	+/-0.0697	0.0232	+/-0.0683	0.0492	pCi/g				
Rad Gas Flow Proportional Counting											
<i>GFPC, Sr90, solid-HTD2,ALL2</i>											
Strontium-90	U	-0.0014	+/-0.0064	0.0063	+/-0.0065	0.0132	pCi/g		HOB1 05/05/04	0521	328553 5
Rad Liquid Scintillation Analysis											
<i>LSC, Tritium Dist, Solid-HTD2,ALL2</i>											
Tritium	U	2.35	+/-1.74	1.38	+/-1.75	2.76	pCi/g		CTO1 05/05/04	1020	328815 6
<i>Liquid Scint C14, Solid-HTD2,ALL2</i>											

GENERAL ENGINEERING LABORATORIES, LLC
 2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : Haddam Neck Plant
 362 Injun Hollow Road
 East Hampton, Connecticut 06424
 Contact: Mr. Pete Hollenbeck
 Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 2 of 3

Client Sample ID: 3100-0000-179-C-4C-01 Project: YANK00204
 Sample ID: 111637005 Client ID: YANK001

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>Liquid Scint C14, Solid-HTD2,ALL2</i>													
Carbon-14	U	-0.211	+/-0.285	0.244	+/-0.285	0.497	pCi/g		CTO1	04/30/04	1858	328843	7
Solid Preparation													
<i>Laboratory Composite</i>													

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	BSW1	04/28/04	1645	328490
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	04/27/04	1554	328473
GL-RAD-A-026	Laboratory sample composite	AWB	04/27/04	1522	328472

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, Am-05-RC Modified
2	DOE EML HASL-300, Pu-11-RC Modified
3	DOE EML HASL-300, Pu-11-RC Modified
4	EML HASL 300, 4.5.2.3
5	EPA 905.0 Modified
6	EPA 906.0 Modified
7	EPA EERF C-01 Modified
8	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Americium-243	Alphaspec Am241, Cm, Solid-TRU	88	(25%-125%)
Plutonium-242	Alphaspec Pu, Solid-TRU2,ALL2	94	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Pu241, Solid-TRU2,A	79	
Carrier/Tracer Recovery	GFPC, Sr90, solid-HTD2,ALL2	73	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : Haddam Neck Plant
362 Injun Hollow Road
East Hampton, Connecticut 06424
Contact: Mr. Pete Hollenbeck
Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 3 of 3

Client Sample ID: 3100-0000-179-C-4C-01
Sample ID: 111637005

Project: YANK00204
Client ID: YANK001

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd.
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	------

- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Sarah Kozlik.

Alexander G. ...

Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : Haddam Neck Plant
 362 Injun Hollow Road
 East Hampton, Connecticut 06424
 Contact: Mr. Pete Hollenbeck
 Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 1 of 3

Client Sample ID:	3100-0000-179-C-4C-02	Project:	YANK00204
Sample ID:	111637006	Client ID:	YANK001
Matrix:	Misc Solid		
Collect Date:	01-APR-04		
Receive Date:	27-APR-04		
Collector:	Client		
Moisture:	6.44%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch Mtd.
Rad Alpha Spec Analysis											
<i>Alphaspec Am241, Cm, Solid-TRU2,ALL2</i>											
Americium-241	U	0.000458	+/-0.0176	0.0185	+/-0.0176	0.0525	pCi/g		JAS1 05/04/04	1231	328693 1
Curium-242	U	-0.00317	+/-0.0137	0.0106	+/-0.0137	0.0392	pCi/g				
Curium-243/244	U	-0.00345	+/-0.0221	0.0254	+/-0.0221	0.0663	pCi/g				
<i>Alphaspec Pu, Solid-TRU2,ALL2</i>											
Plutonium-238	U	0.00791	+/-0.0112	0.00524	+/-0.0112	0.0191	pCi/g		JAS1 05/03/04	2216	328694 2
Plutonium-239/240	U	0.00314	+/-0.00984	0.00741	+/-0.00984	0.0234	pCi/g				
<i>Liquid Scint Pu241, Solid-TRU2,ALL2</i>											
Plutonium-241	U	-0.286	+/-2.38	2.00	+/-2.38	4.09	pCi/g		JAS1 05/05/04	1941	328695 3
Rad Gamma Spec Analysis											
<i>Gammaspes, Gamma, Solid-GAM2,ALL2</i>											
Actinium-228		0.410	+/-0.286	0.106	+/-0.280	0.227	pCi/g		SRB 05/05/04	2254	328906 4
Americium-241	U	0.0326	+/-0.186	0.119	+/-0.183	0.245	pCi/g				
Bismuth-212	U	0.0259	+/-0.528	0.229	+/-0.518	0.484	pCi/g				
Bismuth-214		0.465	+/-0.147	0.0556	+/-0.144	0.117	pCi/g				
Cesium-134	U	0.0307	+/-0.0391	0.0315	+/-0.0383	0.067	pCi/g				
Cesium-137		0.0821	+/-0.0526	0.0263	+/-0.0516	0.0557	pCi/g				
Cobalt-60	U	0.00	+/-0.0609	0.0398	+/-0.0597	0.0858	pCi/g				
	UI										
Europium-152	U	-0.0682	+/-0.0797	0.0583	+/-0.0782	0.122	pCi/g				
Europium-154	U	-0.0524	+/-0.119	0.0893	+/-0.116	0.195	pCi/g				
Europium-155	U	0.0584	+/-0.0803	0.0587	+/-0.0787	0.122	pCi/g				
Lead-212		0.598	+/-0.0976	0.0303	+/-0.0957	0.0631	pCi/g				
Lead-214		0.445	+/-0.136	0.0442	+/-0.134	0.0923	pCi/g				
Manganese-54	U	0.011	+/-0.0393	0.0304	+/-0.0385	0.0646	pCi/g				
Niobium-94	U	-0.0158	+/-0.0323	0.0236	+/-0.0317	0.0501	pCi/g				
Potassium-40		7.18	+/-1.15	0.279	+/-1.13	0.619	pCi/g				
Radium-226		0.465	+/-0.147	0.0556	+/-0.144	0.117	pCi/g				
Silver-108m	U	-0.00831	+/-0.0275	0.0206	+/-0.0269	0.0434	pCi/g				
Thallium-208		0.197	+/-0.0623	0.0259	+/-0.0611	0.0548	pCi/g				
Rad Gas Flow Proportional Counting											
<i>GFPC, Sr90, solid-HTD2,ALL2</i>											
Strontium-90		0.0183	+/-0.0079	0.0066	+/-0.0097	0.0138	pCi/g		HOB1 05/05/04	0521	328553 5
Rad Liquid Scintillation Analysis											
<i>LSC, Tritium Dist, Solid-HTD2,ALL2</i>											
Tritium		9.34	+/-2.02	1.39	+/-2.13	2.78	pCi/g		CTO1 05/02/04	0833	328815 6

GENERAL ENGINEERING LABORATORIES, LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : Haddam Neck Plant
362 Injun Hollow Road
East Hampton, Connecticut 06424
Contact: Mr. Pete Hollenbeck
Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 2 of 3

Client Sample ID: 3100-0000-179-C-4C-02 Project: YANK00204
Sample ID: 111637006 Client ID: YANK001

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch Mtd.
Rad Liquid Scintillation Analysis												
<i>Liquid Scint C14, Solid-HTD2,ALL2</i>												
Carbon-14	U	-0.19	+/-0.316	0.269	+/-0.316	0.550	pCi/g		CTO1	04/30/04	2000	328843 7
Solid Preparation												
<i>Laboratory Composite</i>												

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	BSW1	04/28/04	1645	328490
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	04/27/04	1554	328473
GL-RAD-A-026	Laboratory sample composite	AWB	04/27/04	1522	328472

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, Am-05-RC Modified
2	DOE EML HASL-300, Pu-11-RC Modified
3	DOE EML HASL-300, Pu-11-RC Modified
4	EML HASL 300, 4.5.2.3
5	EPA 905.0 Modified
6	EPA 906.0 Modified
7	EPA EERF C-01 Modified
8	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Americium-243	Alphaspec Am241, Cm, Solid-TRL	97	(25%-125%)
Plutonium-242	Alphaspec Pu, Solid-TRU2,ALL2	76	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Pu241, Solid-TRU2,A	54	
Carrier/Tracer Recovery	GFPC, Sr90, solid-HTD2,ALL2	72	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : Haddam Neck Plant
362 Injun Hollow Road
East Hampton, Connecticut 06424
Contact: Mr. Pete Hollenbeck
Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 3 of 3

Client Sample ID: 3100-0000-179-C-4C-02
Sample ID: 111637006

Project: YANK00204
Client ID: YANK001

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch Mtd.
-----------	-----------	--------	-------------	----	-----	-----	-------	----	-------------	------	------------

- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
 - U Indicates the target analyte was analyzed for but not detected above the detection limit.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Sarah Kozlik.

Heather G. Lee

Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : Haddam Neck Plant
 362 Injun Hollow Road
 East Hampton, Connecticut 06424
 Contact: Mr. Pete Hollenbeck
 Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 1 of 3

Client Sample ID:	3100-0000-175-C-4C-01	Project:	YANK00204
Sample ID:	111637007	Client ID:	YANK001
Matrix:	Misc Solid		
Collect Date:	29-MAR-04		
Receive Date:	27-APR-04		
Collector:	Client		
Moisture:	5.37%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch Mtd.
Rad Alpha Spec Analysis											
<i>Alphaspec Am241, Cm, Solid-TRU2,ALL2</i>											
Americium-241	U	0.00866	+/-0.0162	0.00918	+/-0.0163	0.0338	pCi/g		JAS1 05/04/04	1331	328693 1
Curium-242	U	-0.0016	+/-0.00313	0.00758	+/-0.00314	0.0332	pCi/g				
Curium-243/244	U	0.013	+/-0.0199	0.0113	+/-0.020	0.038	pCi/g				
<i>Alphaspec Pu, Solid-TRU2,ALL2</i>											
Plutonium-238	U	-0.0135	+/-0.00798	0.0133	+/-0.00805	0.0332	pCi/g		JAS1 05/03/04	2237	328694 2
Plutonium-239/240	U	0.00356	+/-0.0124	0.0106	+/-0.0124	0.0278	pCi/g				
<i>Liquid Scint Pu241, Solid-TRU2,ALL2</i>											
Plutonium-241	U	-0.569	+/-1.52	1.29	+/-1.52	2.63	pCi/g		JAS1 05/05/04	2028	328695 3
Rad Gamma Spec Analysis											
<i>Gammascpec, Gamma, Solid-GAM2,ALL2</i>											
Actinium-228	U	0.00	+/-0.267	0.164	+/-0.262	0.342	pCi/g		SRB 05/05/04	2257	328906 4
	UI										
Americium-241	U	-0.0177	+/-0.136	0.084	+/-0.134	0.173	pCi/g				
Bismuth-212	U	0.242	+/-0.302	0.240	+/-0.296	0.506	pCi/g				
Bismuth-214		0.368	+/-0.130	0.0528	+/-0.128	0.111	pCi/g				
Cesium-134	U	0.00123	+/-0.0402	0.0304	+/-0.0394	0.0648	pCi/g				
Cesium-137		0.104	+/-0.0572	0.0264	+/-0.056	0.056	pCi/g				
Cobalt-60	U	0.0351	+/-0.0446	0.0378	+/-0.0437	0.0813	pCi/g				
Europium-152	U	-0.0168	+/-0.0898	0.0676	+/-0.088	0.141	pCi/g				
Europium-154	U	0.0461	+/-0.105	0.0865	+/-0.103	0.189	pCi/g				
Europium-155	U	0.0453	+/-0.0826	0.0591	+/-0.081	0.122	pCi/g				
Lead-212		0.536	+/-0.103	0.0341	+/-0.101	0.0708	pCi/g				
Lead-214		0.518	+/-0.133	0.0468	+/-0.130	0.0975	pCi/g				
Manganese-54	U	-0.0254	+/-0.0375	0.0283	+/-0.0367	0.0603	pCi/g				
Niobium-94	U	0.00503	+/-0.0343	0.0262	+/-0.0336	0.0552	pCi/g				
Potassium-40		7.86	+/-1.31	0.298	+/-1.28	0.654	pCi/g				
Radium-226		0.368	+/-0.130	0.0528	+/-0.128	0.111	pCi/g				
Silver-108m	U	-0.0234	+/-0.0312	0.0226	+/-0.0306	0.0474	pCi/g				
Thallium-208		0.200	+/-0.0817	0.026	+/-0.0801	0.0549	pCi/g				
Rad Gas Flow Proportional Counting											
<i>GFPC, Sr90, solid-HTD2,ALL2</i>											
Strontium-90	U	0.0056	+/-0.007	0.0065	+/-0.0072	0.0135	pCi/g		HOB1 05/05/04	0521	328553 5
Rad Liquid Scintillation Analysis											
<i>LSC, Tritium Dist, Solid-HTD2,ALL2</i>											
Tritium		6.11	+/-1.91	1.40	+/-1.96	2.80	pCi/g		CTO1 05/02/04	0905	328815 6

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : Haddam Neck Plant
 362 Injun Hollow Road
 East Hampton, Connecticut 06424
 Contact: Mr. Pete Hollenbeck
 Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 2 of 3

Client Sample ID: 3100-0000-175-C-4C-01 Project: YANK00204
 Sample ID: 111637007 Client ID: YANK001

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch Mtd.
Rad Liquid Scintillation Analysis											
<i>Liquid Scint C14, Solid-HTD2,ALL2</i>											
Carbon-14	U	-0.105	+/-0.252	0.213	+/-0.252	0.436	pCi/g		CTO1 04/30/04	2102	328843 7
Solid Preparation											
<i>Laboratory Composite</i>											

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	BSW1	04/28/04	1645	328490
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	04/27/04	1554	328473
GL-RAD-A-026	Laboratory sample composite	AWB	04/27/04	1522	328472

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, Am-05-RC Modified
2	DOE EML HASL-300, Pu-11-RC Modified
3	DOE EML HASL-300, Pu-11-RC Modified
4	EML HASL 300, 4.5.2.3
5	EPA 905.0 Modified
6	EPA 906.0 Modified
7	EPA EERF C-01 Modified
8	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Americium-243	Alphaspec Am241, Cm, Solid-TRI	81	(25%-125%)
Plutonium-242	Alphaspec Pu, Solid-TRU2,ALL2	96	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Pu241, Solid-TRU2,A	85	
Carrier/Tracer Recovery	GFPC, Sr90, solid-HTD2,ALL2	74	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : Haddam Neck Plant
362 Injun Hollow Road
East Hampton, Connecticut 06424
Contact: Mr. Pete Hollenbeck
Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 3 of 3

Client Sample ID: 3100-0000-175-C-4C-01
Sample ID: 111637007

Project: YANK00204
Client ID: YANK001

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd.
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	------

- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Sarah Kozlik.

Heather G. C. R. O.
Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : Haddam Neck Plant
 362 Injun Hollow Road
 East Hampton, Connecticut 06424
 Contact : Mr. Pete Hollenbeck
 Project : Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 1 of 3

Client Sample ID:	3100-0000-175-C-4C-02	Project:	YANK00204
Sample ID:	111637008	Client ID:	YANK001
Matrix:	Misc Solid		
Collect Date:	29-MAR-04		
Receive Date:	27-APR-04		
Collector:	Client		
Moisture:	5.42%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch Mtd.
Rad Alpha Spec Analysis											
<i>Alphaspec Am241, Cm, Solid-TRU2,ALL2</i>											
Americium-241	U	-0.0129	+/-0.00842	0.0204	+/-0.00857	0.057	pCi/g		JAS1 05/04/04	1331	328693 1
Curium-242	U	-0.00335	+/-0.00464	0.0112	+/-0.00466	0.0414	pCi/g				
Curium-243/244	U	-0.00407	+/-0.0139	0.0181	+/-0.0139	0.0523	pCi/g				
<i>Alphaspec Pu, Solid-TRU2,ALL2</i>											
Plutonium-238	U	-0.000109	+/-0.0131	0.0127	+/-0.0131	0.0328	pCi/g		JAS1 05/03/04	2237	328694 2
Plutonium-239/240	U	-0.000109	+/-0.0131	0.0127	+/-0.0131	0.0328	pCi/g				
<i>Liquid Scint Pu241, Solid-TRU2,ALL2</i>											
Plutonium-241	U	-0.624	+/-1.61	1.37	+/-1.61	2.79	pCi/g		JAS1 05/05/04	2116	328695 3
Rad Gamma Spec Analysis											
<i>Gammaspac, Gamma, Solid-GAM2,ALL2</i>											
Actinium-228		0.531	+/-0.243	0.0846	+/-0.238	0.178	pCi/g		SRB 05/05/04	2309	328906 4
Americium-241	U	-0.159	+/-0.182	0.119	+/-0.178	0.245	pCi/g				
Bismuth-212		0.696	+/-0.458	0.188	+/-0.449	0.393	pCi/g				
Bismuth-214		0.343	+/-0.140	0.0485	+/-0.137	0.101	pCi/g				
Cesium-134	U	0.0444	+/-0.0357	0.0292	+/-0.035	0.061	pCi/g				
Cesium-137	U	0.0526	+/-0.0424	0.0257	+/-0.0416	0.0535	pCi/g				
Cobalt-60	U	0.0403	+/-0.0352	0.0304	+/-0.0345	0.0646	pCi/g				
Europium-152	U	-0.0533	+/-0.0805	0.0578	+/-0.0789	0.120	pCi/g				
Europium-154	U	-0.0138	+/-0.113	0.0764	+/-0.111	0.163	pCi/g				
Europium-155	U	0.064	+/-0.122	0.0653	+/-0.119	0.134	pCi/g				
Lead-212		0.551	+/-0.0978	0.0317	+/-0.0958	0.0653	pCi/g				
Lead-214		0.485	+/-0.141	0.0402	+/-0.138	0.0832	pCi/g				
Manganese-54	U	0.00643	+/-0.0352	0.0275	+/-0.0345	0.0574	pCi/g				
Niobium-94	U	0.0178	+/-0.0293	0.0234	+/-0.0287	0.0486	pCi/g				
Potassium-40		7.23	+/-1.19	0.261	+/-1.17	0.560	pCi/g				
Radium-226		0.343	+/-0.140	0.0485	+/-0.137	0.101	pCi/g				
Silver-108m	U	0.00672	+/-0.027	0.0202	+/-0.0264	0.0419	pCi/g				
Thallium-208		0.154	+/-0.0658	0.0231	+/-0.0645	0.0482	pCi/g				
Rad Gas Flow Proportional Counting											
<i>GFPC, Sr90, solid-HTD2,ALL2</i>											
Strontium-90	U	0.0057	+/-0.0066	0.0061	+/-0.0068	0.0127	pCi/g		HOB1 05/05/04	0654	328553 5
Rad Liquid Scintillation Analysis											
<i>LSC, Tritium Dist, Solid-HTD2,ALL2</i>											
Tritium		4.50	+/-1.85	1.40	+/-1.87	2.79	pCi/g		CTO1 05/02/04	0937	328815 6
<i>Liquid Scint C14, Solid-HTD2,ALL2</i>											

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : Haddam Neck Plant
 362 Injun Hollow Road
 East Hampton, Connecticut 06424
 Contact: Mr. Pete Hollenbeck
 Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 2 of 3

Client Sample ID: 3100-0000-175-C-4C-02 Project: YANK00204
 Sample ID: 111637008 Client ID: YANK001

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>Liquid Scint C14, Solid-HTD2,ALL2</i>													
Carbon-14	U	-0.106	+/-0.315	0.267	+/-0.315	0.544	pCi/g		CTO1	04/30/04	2203	328843	7

Solid Preparation

Laboratory Composite

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	BSW1	04/28/04	1645	328490
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	04/27/04	1554	328473
GL-RAD-A-026	Laboratory sample composite	AWB	04/27/04	1522	328472

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, Am-05-RC Modified
2	DOE EML HASL-300, Pu-11-RC Modified
3	DOE EML HASL-300, Pu-11-RC Modified
4	EML HASL 300, 4.5.2.3
5	EPA 905.0 Modified
6	EPA 906.0 Modified
7	EPA EERF C-01 Modified
8	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Americium-243	Alphaspec Am241, Cm, Solid-TR1	80	(25%-125%)
Plutonium-242	Alphaspec Pu, Solid-TRU2,ALL2	94	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Pu241, Solid-TRU2,A	75	
Carrier/Tracer Recovery	GFPC, Sr90, solid-HTD2,ALL2	73	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : Haddam Neck Plant
362 Injun Hollow Road
East Hampton, Connecticut 06424
Contact: Mr. Pete Hollenbeck
Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 3 of 3

Client Sample ID: 3100-0000-175-C-4C-02
Sample ID: 111637008

Project: YANK00204
Client ID: YANK001

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch Mtd.
-----------	-----------	--------	-------------	----	-----	-----	-------	----	-------------	------	------------

- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Sarah Kozlik.



Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : Haddam Neck Plant
 362 Injun Hollow Road
 East Hampton, Connecticut 06424
 Contact: Mr. Pete Hollenbeck
 Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 1 of 2

Client Sample ID:	3100-0000-179-C-9C-01	Project:	YANK00204
Sample ID:	111637009	Client ID:	YANK001
Matrix:	Misc Solid		
Collect Date:	06-APR-04		
Receive Date:	27-APR-04		
Collector:	Client		
Moisture:	4.23%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch Mtd.
Rad Gamma Spec Analysis												
<i>GammaSpec, Gamma, Solid-GAM2, ALL2</i>												
Actinium-228	U	0.00	+/-0.389	0.191	+/-0.381	0.402	pCi/g		SRB	05/05/04	2319	328906 1
	UI											
Americium-241	U	0.106	+/-0.328	0.161	+/-0.321	0.334	pCi/g					
Bismuth-212		0.675	+/-0.479	0.270	+/-0.469	0.575	pCi/g					
Bismuth-214		0.443	+/-0.237	0.0597	+/-0.233	0.127	pCi/g					
Cesium-134	U	0.0763	+/-0.0726	0.0433	+/-0.0711	0.092	pCi/g					
Cesium-137	U	0.0245	+/-0.0455	0.0357	+/-0.0446	0.0757	pCi/g					
Cobalt-60	U	0.0117	+/-0.0622	0.0437	+/-0.0609	0.0955	pCi/g					
Europium-152	U	0.0836	+/-0.125	0.0871	+/-0.123	0.182	pCi/g					
Europium-154	U	-0.14	+/-0.146	0.101	+/-0.143	0.224	pCi/g					
Europium-155	U	0.0901	+/-0.117	0.0832	+/-0.115	0.172	pCi/g					
Lead-212		0.698	+/-0.165	0.045	+/-0.162	0.0935	pCi/g					
Lead-214		0.471	+/-0.177	0.0606	+/-0.174	0.127	pCi/g					
Manganese-54	U	0.0317	+/-0.0444	0.0371	+/-0.0435	0.0793	pCi/g					
Niobium-94	U	0.00711	+/-0.0426	0.0325	+/-0.0418	0.0689	pCi/g					
Potassium-40		6.66	+/-1.55	0.382	+/-1.52	0.845	pCi/g					
Radium-226		0.443	+/-0.237	0.0597	+/-0.233	0.127	pCi/g					
Silver-108m	U	-0.00628	+/-0.0374	0.0279	+/-0.0367	0.0588	pCi/g					
Thallium-208		0.162	+/-0.0915	0.033	+/-0.0897	0.070	pCi/g					
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid-HTD2, ALL2</i>												
Strontium-90	U	0.0054	+/-0.0071	0.0065	+/-0.0073	0.0136	pCi/g		HOB1	05/05/04	0654	328553 2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid-HTD2, ALL2</i>												
Tritium	U	1.70	+/-1.85	1.49	+/-1.85	2.98	pCi/g		CTO1	05/02/04	1009	328815 3
Solid Preparation												
<i>Laboratory Composite</i>												

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	BSW1	04/28/04	1645	328490
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	04/27/04	1554	328473
GL-RAD-A-026	Laboratory sample composite	AWB	04/27/04	1522	328472

GENERAL ENGINEERING LABORATORIES, LLC
 2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : Haddam Neck Plant
 362 Injun Hollow Road
 East Hampton, Connecticut 06424
 Contact: Mr. Pete Hollenbeck
 Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 2 of 2

Client Sample ID: 3100-0000-179-C-9C-01 Project: YANK00204
 Sample ID: 111637009 Client ID: YANK001

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch Mtd.
-----------	-----------	--------	-------------	----	-----	-----	-------	----	-------------	------	------------

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid-HTD2,ALL2	71	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Sarah Kozlik.

Arcelia J Lee M.D.

Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : Haddam Neck Plant
362 Injun Hollow Road
East Hampton, Connecticut 06424
Contact: Mr. Pete Hollenbeck
Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 1 of 2

Client Sample ID: 3100-0000-179-C-12C-01 Project: YANK00204
Sample ID: 111637010 Client ID: YANK001
Matrix: Misc Solid
Collect Date: 06-APR-04
Receive Date: 27-APR-04
Collector: Client
Moisture: 5.59%

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch Mtd.
Rad Gamma Spec Analysis												
<i>GammaSpec, Gamma, Solid-GAM2, ALL2</i>												
Actinium-228	U	0.00	+/-0.253	0.131	+/-0.248	0.274	pCi/g		SRB	05/05/04	2320	328906 1
	UI											
Americium-241	U	0.0846	+/-0.116	0.0729	+/-0.114	0.151	pCi/g					
Bismuth-212	U	0.215	+/-0.232	0.188	+/-0.228	0.399	pCi/g					
Bismuth-214	U	0.00	+/-0.108	0.0675	+/-0.106	0.140	pCi/g					
	UI											
Cesium-134	U	-0.00571	+/-0.0352	0.0262	+/-0.0345	0.0559	pCi/g					
Cesium-137	U	0.0285	+/-0.0301	0.0244	+/-0.0295	0.0514	pCi/g					
Cobalt-60	U	0.00927	+/-0.0366	0.0295	+/-0.0359	0.0641	pCi/g					
Europium-152	U	-0.00768	+/-0.0649	0.0464	+/-0.0636	0.0975	pCi/g					
Europium-154	U	-0.0908	+/-0.0919	0.0626	+/-0.0901	0.139	pCi/g					
Europium-155	U	0.00649	+/-0.059	0.0434	+/-0.0579	0.0898	pCi/g					
Lead-212		0.300	+/-0.0748	0.0315	+/-0.0733	0.0651	pCi/g					
Lead-214		0.321	+/-0.0917	0.0357	+/-0.0899	0.0747	pCi/g					
Manganese-54	U	0.0199	+/-0.0296	0.0237	+/-0.029	0.0506	pCi/g					
Niobium-94	U	0.0176	+/-0.0276	0.0219	+/-0.0271	0.0464	pCi/g					
Potassium-40		6.91	+/-1.15	0.259	+/-1.12	0.570	pCi/g					
Radium-226		0.287	+/-0.108	0.0356	+/-0.106	0.0758	pCi/g					
Silver-108m	U	0.0137	+/-0.0224	0.0179	+/-0.0219	0.0377	pCi/g					
Thallium-208	U	0.00	+/-0.0573	0.0311	+/-0.0561	0.0647	pCi/g					
	UI											
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid-HTD2, ALL2</i>												
Strontium-90	U	-0.0007	+/-0.0077	0.0075	+/-0.0077	0.0156	pCi/g		HOB1	05/05/04	0654	328553 2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid-HTD2, ALL2</i>												
Tritium	U	0.176	+/-1.65	1.38	+/-1.65	2.76	pCi/g		CTO1	05/02/04	1040	328815 3
Solid Preparation												
<i>Laboratory Composite</i>												

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	BSW1	04/28/04	1645	328490
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	04/27/04	1554	328473

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : Haddam Neck Plant
362 Injun Hollow Road
East Hampton, Connecticut 06424
Contact: Mr. Pete Hollenbeck
Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 2 of 2

Client Sample ID: 3100-0000-179-C-12C-01 Project: YANK00204
Sample ID: 111637010 Client ID: YANK001

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch Mtd.
GL-RAD-A-026	Laboratory sample composite				AWB	04/27/04		1522	328472		

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid-HTD2,ALL2	67	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Sarah Kozlik.

Heather G. Wood
Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : Haddam Neck Plant
 362 Injun Hollow Road
 East Hampton, Connecticut 06424
 Contact: Mr. Pete Hollenbeck
 Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 1 of 2

Client Sample ID:	3100-0000-179-C-15C-01	Project:	YANK00204
Sample ID:	111637011	Client ID:	YANK001
Matrix:	Misc Solid		
Collect Date:	08-APR-04		
Receive Date:	27-APR-04		
Collector:	Client		
Moisture:	5.5%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch Mtd.
Rad Gamma Spec Analysis												
<i>Gammaspcc, Gamma, Solid-GAM2, ALL2</i>												
Actinium-228	U	0.00	+/-0.182	0.118	+/-0.178	0.244	pCi/g		SRB	05/05/04	2322	328906 1
	UI											
Americium-241	U	0.0126	+/-0.0818	0.0587	+/-0.0801	0.121	pCi/g					
Bismuth-212		0.531	+/-0.368	0.156	+/-0.360	0.328	pCi/g					
Bismuth-214	U	0.00	+/-0.145	0.0666	+/-0.142	0.136	pCi/g					
	UI											
Cesium-134	U	0.00688	+/-0.0313	0.0245	+/-0.0307	0.0515	pCi/g					
Cesium-137	U	-0.00288	+/-0.0279	0.0216	+/-0.0273	0.0452	pCi/g					
Cobalt-60	U	0.00292	+/-0.0334	0.0266	+/-0.0327	0.0566	pCi/g					
Europium-152	U	-0.0161	+/-0.0689	0.0514	+/-0.0675	0.107	pCi/g					
Europium-154	U	-0.0482	+/-0.0907	0.0687	+/-0.0889	0.147	pCi/g					
Europium-155	U	0.0182	+/-0.0717	0.0518	+/-0.0703	0.107	pCi/g					
Lead-212		0.294	+/-0.0769	0.0299	+/-0.0753	0.0615	pCi/g					
Lead-214		0.448	+/-0.111	0.036	+/-0.108	0.0746	pCi/g					
Manganese-54	U	-0.0128	+/-0.0297	0.0223	+/-0.0291	0.0468	pCi/g					
Niobium-94	U	-0.00213	+/-0.0267	0.0207	+/-0.0262	0.0432	pCi/g					
Potassium-40		7.08	+/-1.23	0.232	+/-1.20	0.498	pCi/g					
Radium-226		0.389	+/-0.145	0.0437	+/-0.142	0.0906	pCi/g					
Silver-108m	U	-0.0269	+/-0.0242	0.0171	+/-0.0238	0.0356	pCi/g					
Thallium-208	U	0.00	+/-0.0489	0.0287	+/-0.0479	0.0592	pCi/g					
	UI											
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid-HTD2, ALL2</i>												
Strontium-90	U	-0.0003	+/-0.0075	0.0073	+/-0.0075	0.0152	pCi/g		HOB1	05/05/04	0752	328553 2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid-HTD2, ALL2</i>												
Tritium	U	1.76	+/-1.71	1.37	+/-1.71	2.75	pCi/g		CTO1	05/02/04	1112	328815 3
Solid Preparation												
<i>Laboratory Composite</i>												

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	BSW1	04/28/04	1645	328490
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	04/27/04	1554	328473

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : Haddam Neck Plant
362 Injun Hollow Road
East Hampton, Connecticut 06424
Contact: Mr. Pete Hollenbeck
Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 2 of 2

Client Sample ID: 3100-0000-179-C-15C-01 Project: YANK00204
Sample ID: 111637011 Client ID: YANK001

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch Mtd.
GL-RAD-A-026	Laboratory sample composite				AWB	.04/27/04		1522	328472		

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid-HTD2,ALL2	67	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Sarah Kozlik.

Hecitar Geciro
Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : Haddam Neck Plant
 362 Injun Hollow Road
 East Hampton, Connecticut 06424
 Contact: Mr. Pete Hollenbeck
 Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 1 of 2

Client Sample ID:	3100-0000-179-C-15C-02	Project:	YANK00204
Sample ID:	111637012	Client ID:	YANK001
Matrix:	Misc Solid		
Collect Date:	08-APR-04		
Receive Date:	27-APR-04		
Collector:	Client		
Moisture:	7.15%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gamma Spec Analysis													
<i>Gammascpec, Gamma, Solid-GAM2, ALL2</i>													
Actinium-228		0.456	+/-0.359	0.120	+/-0.352	0.258	pCi/g		SRB	05/05/04	2325	328906	1
Americium-241	U	0.0047	+/-0.0403	0.0261	+/-0.0395	0.0538	pCi/g						
Bismuth-212	U	0.164	+/-0.369	0.298	+/-0.361	0.628	pCi/g						
Bismuth-214	U	0.00	+/-0.182	0.0867	+/-0.178	0.180	pCi/g						
	UI												
Cesium-134	U	0.0342	+/-0.0482	0.0397	+/-0.0472	0.0843	pCi/g						
Cesium-137	U	0.0555	+/-0.0426	0.0356	+/-0.0418	0.0751	pCi/g						
Cobalt-60	U	0.019	+/-0.055	0.039	+/-0.0539	0.085	pCi/g						
Europium-152	U	-0.00278	+/-0.0971	0.0652	+/-0.0952	0.137	pCi/g						
Europium-154	U	-0.00842	+/-0.140	0.112	+/-0.137	0.244	pCi/g						
Europium-155	U	0.0361	+/-0.0679	0.0481	+/-0.0665	0.0996	pCi/g						
Lead-212		0.315	+/-0.0959	0.0339	+/-0.0939	0.0705	pCi/g						
Lead-214		0.308	+/-0.150	0.0469	+/-0.147	0.0983	pCi/g						
Manganese-54	U	-0.0104	+/-0.0455	0.035	+/-0.0446	0.0746	pCi/g						
Niobium-94	U	-0.00495	+/-0.0392	0.0306	+/-0.0384	0.0648	pCi/g						
Potassium-40		6.22	+/-1.29	0.327	+/-1.26	0.725	pCi/g						
Radium-226		0.310	+/-0.182	0.0543	+/-0.178	0.115	pCi/g						
Silver-108m	U	0.0125	+/-0.0309	0.0237	+/-0.0302	0.050	pCi/g						
Thallium-208	U	0.00	+/-0.0884	0.0485	+/-0.0866	0.100	pCi/g						
	UI												
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid-HTD2, ALL2</i>													
Strontium-90	U	0.0133	+/-0.0076	0.0068	+/-0.0088	0.014	pCi/g		HOB1	05/10/04	1737	328553	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2, ALL2</i>													
Tritium	U	2.52	+/-1.77	1.40	+/-1.78	2.79	pCi/g		CTO1	05/02/04	1144	328815	3
Solid Preparation													
<i>Laboratory Composite</i>													

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	BSW1	04/28/04	1645	328490
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	04/27/04	1554	328473

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : Haddam Neck Plant
362 Injun Hollow Road
East Hampton, Connecticut 06424
Contact: Mr. Pete Hollenbeck
Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 2 of 2

Client Sample ID: 3100-0000-179-C-15C-02 Project: YANK00204
Sample ID: 111637012 Client ID: YANK001

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch Mtd.
GL-RAD-A-026	Laboratory sample composite				AWB	04/27/04	1522	328472			

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid-HTD2,ALL2	65	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Sarah Kozlik.



Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : Haddam Neck Plant
 362 Injun Hollow Road
 East Hampton, Connecticut 06424
 Contact: Mr. Pete Hollenbeck
 Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 1 of 2

Client Sample ID:	3100-0000-175-C-10C-01	Project:	YANK00204
Sample ID:	111637013	Client ID:	YANK001
Matrix:	Misc Solid		
Collect Date:	29-MAR-04		
Receive Date:	27-APR-04		
Collector:	Client		
Moisture:	4.85%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch Mtd.
Rad Gamma Spec Analysis											
<i>Gammascpec, Gamma, Solid-GAM2,ALL2</i>											
Actinium-228		0.462	+/-0.269	0.0953	+/-0.263	0.204	pCi/g		SRB	05/06/04	0942 328906 1
Americium-241	U	-0.0227	+/-0.0918	0.0655	+/-0.0899	0.136	pCi/g				
Bismuth-212	U	0.321	+/-0.356	0.175	+/-0.349	0.375	pCi/g				
Bismuth-214		0.408	+/-0.149	0.0402	+/-0.146	0.0855	pCi/g				
Cesium-134	U	0.062	+/-0.0544	0.0313	+/-0.0533	0.0664	pCi/g				
Cesium-137	U	0.0165	+/-0.0315	0.0254	+/-0.0308	0.0539	pCi/g				
Cobalt-60	U	-0.00478	+/-0.0356	0.0284	+/-0.0349	0.0625	pCi/g				
Europium-152	U	0.0455	+/-0.0725	0.0551	+/-0.071	0.115	pCi/g				
Europium-154	U	-0.0221	+/-0.101	0.0751	+/-0.0988	0.165	pCi/g				
Europium-155	U	-0.00875	+/-0.0666	0.0483	+/-0.0652	0.100	pCi/g				
Lead-212		0.525	+/-0.088	0.0282	+/-0.0863	0.0587	pCi/g				
Lead-214		0.457	+/-0.131	0.0381	+/-0.128	0.0798	pCi/g				
Manganese-54	U	-0.0079	+/-0.0301	0.0228	+/-0.0295	0.0492	pCi/g				
Niobium-94	U	0.0016	+/-0.0288	0.0225	+/-0.0282	0.0478	pCi/g				
Potassium-40		6.49	+/-1.09	0.241	+/-1.07	0.539	pCi/g				
Radium-226		0.408	+/-0.149	0.0402	+/-0.146	0.0855	pCi/g				
Silver-108m	U	0.00345	+/-0.0263	0.0194	+/-0.0258	0.0408	pCi/g				
Thallium-208		0.171	+/-0.0625	0.0229	+/-0.0613	0.0486	pCi/g				
Rad Gas Flow Proportional Counting											
<i>GFPC, Sr90, solid-HTD2,ALL2</i>											
Strontium-90	U	0.0021	+/-0.0079	0.0076	+/-0.0079	0.0157	pCi/g		HOB1	05/05/04	0753 328553 2
Rad Liquid Scintillation Analysis											
<i>LSC, Tritium Dist, Solid-HTD2,ALL2</i>											
Tritium	U	0.108	+/-1.61	1.34	+/-1.61	2.69	pCi/g		CTO1	05/02/04	1216 328815 3

Solid Preparation

Laboratory Composite

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	BSW1	04/28/04	1645	328490
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	04/27/04	1554	328473
GL-RAD-A-026	Laboratory sample composite	AWB	04/27/04	1522	328472

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : Haddam Neck Plant
362 Injun Hollow Road
East Hampton, Connecticut 06424
Contact: Mr. Pete Hollenbeck
Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 2 of 2

Client Sample ID: 3100-0000-175-C-10C-01 Project: YANK00204
Sample ID: 111637013 Client ID: YANK001

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch Mtd.
-----------	-----------	--------	-------------	----	-----	-----	-------	----	-------------	------	------------

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid-HTD2,ALL2	68	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Sarah Kozlik.

Heather A. ...

Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : Haddam Neck Plant
 362 Injun Hollow Road
 East Hampton, Connecticut 06424
 Contact: Mr. Pete Hollenbeck
 Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 1 of 2

Client Sample ID:	3100-0000-175-C-17C-01	Project:	YANK00204
Sample ID:	111637014	Client ID:	YANK001
Matrix:	Misc Solid		
Collect Date:	30-MAR-04		
Receive Date:	27-APR-04		
Collector:	Client		
Moisture:	6.92%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch	Mtd.
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid-GAM2, ALL2</i>												
Actinium-228	U	0.00	+/-0.270	0.147	+/-0.265	0.308	pCi/g		SRB	05/06/04	0943	328906 1
	UI											
Americium-241	U	0.107	+/-0.119	0.0846	+/-0.116	0.174	pCi/g					
Bismuth-212	U	0.00	+/-0.474	0.210	+/-0.464	0.448	pCi/g					
	UI											
Bismuth-214	U	0.00	+/-0.174	0.0842	+/-0.171	0.174	pCi/g					
	UI											
Cesium-134	U	0.0401	+/-0.0441	0.0355	+/-0.0432	0.075	pCi/g					
Cesium-137	U	-0.00764	+/-0.0393	0.0293	+/-0.0385	0.0618	pCi/g					
Cobalt-60		0.160	+/-0.0778	0.0311	+/-0.0762	0.0682	pCi/g					
Europium-152	U	0.0228	+/-0.0893	0.0687	+/-0.0875	0.143	pCi/g					
Europium-154	U	-0.0123	+/-0.139	0.0937	+/-0.136	0.204	pCi/g					
Europium-155	U	0.0026	+/-0.0864	0.0605	+/-0.0847	0.125	pCi/g					
Lead-212		0.365	+/-0.100	0.0356	+/-0.0982	0.0738	pCi/g					
Lead-214		0.334	+/-0.124	0.0495	+/-0.122	0.103	pCi/g					
Manganese-54	U	-0.0192	+/-0.0403	0.0309	+/-0.0395	0.0658	pCi/g					
Niobium-94	U	0.0324	+/-0.0427	0.030	+/-0.0418	0.0629	pCi/g					
Potassium-40		7.27	+/-1.28	0.293	+/-1.25	0.647	pCi/g					
Radium-226		0.292	+/-0.174	0.0547	+/-0.171	0.115	pCi/g					
Silver-108m	U	-0.0198	+/-0.0306	0.0223	+/-0.030	0.0469	pCi/g					
Thallium-208		0.189	+/-0.0911	0.0261	+/-0.0893	0.0552	pCi/g					
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr-90, solid-HTD2, ALL2</i>												
Strontium-90	U	0.0046	+/-0.0166	0.0055	+/-0.0148	0.0287	pCi/g		HOB1	05/12/04	0631	328553 3
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid-HTD2, ALL2</i>												
Tritium	U	-0.312	+/-1.71	1.45	+/-1.71	2.89	pCi/g		CTO1	05/02/04	1248	328815 4
Solid Preparation												
<i>Laboratory Composite</i>												

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	BSW1	04/28/04	1646	328490
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	04/27/04	1554	328473

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : Haddam Neck Plant
 362 Injun Hollow Road
 East Hampton, Connecticut 06424
 Contact : Mr. Pete Hollenbeck
 Project : Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 1 of 2

Client Sample ID:	3100-0000-175-C-20C-01	Project:	YANK00204
Sample ID:	111637015	Client ID:	YANK001
Matrix:	Misc Solid		
Collect Date:	30-MAR-04		
Receive Date:	27-APR-04		
Collector:	Client		
Moisture:	7.63%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch Mtd.
Rad Gamma Spec Analysis												
<i>GammaSpec, Gamma, Solid-GAM2, ALL2</i>												
Actinium-228	U	0.00	+/-0.221	0.135	+/-0.217	0.282	pCi/g		SRB	05/06/04	0944	328906 1
	UI											
Americium-241	U	0.0903	+/-0.154	0.0811	+/-0.151	0.167	pCi/g					
Bismuth-212	U	0.334	+/-0.360	0.187	+/-0.353	0.397	pCi/g					
Bismuth-214		0.303	+/-0.172	0.0449	+/-0.168	0.0946	pCi/g					
Cesium-134	U	0.00755	+/-0.0376	0.0297	+/-0.0368	0.0629	pCi/g					
Cesium-137	U	0.0453	+/-0.0331	0.0278	+/-0.0324	0.0584	pCi/g					
Cobalt-60	U	0.0257	+/-0.0365	0.0313	+/-0.0358	0.0678	pCi/g					
Europium-152	U	-0.0384	+/-0.0758	0.0555	+/-0.0743	0.116	pCi/g					
Europium-154	U	0.0485	+/-0.105	0.0875	+/-0.103	0.189	pCi/g					
Europium-155	U	0.016	+/-0.0757	0.0539	+/-0.0742	0.111	pCi/g					
Lead-212		0.381	+/-0.0875	0.0309	+/-0.0858	0.0639	pCi/g					
Lead-214		0.310	+/-0.107	0.0446	+/-0.105	0.0928	pCi/g					
Manganese-54	U	0.0042	+/-0.0327	0.0257	+/-0.0321	0.0547	pCi/g					
Niobium-94	U	0.0274	+/-0.0303	0.0249	+/-0.0297	0.0524	pCi/g					
Potassium-40		6.60	+/-1.22	0.250	+/-1.20	0.553	pCi/g					
Radium-226		0.303	+/-0.172	0.0449	+/-0.168	0.0946	pCi/g					
Silver-108m	U	-0.0234	+/-0.0272	0.0192	+/-0.0267	0.0404	pCi/g					
Thallium-208		0.0683	+/-0.070	0.025	+/-0.0686	0.0527	pCi/g					
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid-HTD2, ALL2</i>												
Strontium-90	U	-0.0097	+/-0.0048	0.0052	+/-0.0057	0.0109	pCi/g		HOB1	05/10/04	1738	328553 2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid-HTD2, ALL2</i>												
Tritium	U	-1.0	+/-1.62	1.39	+/-1.62	2.79	pCi/g		CTO1	05/02/04	1320	328815 3
Solid Preparation												
<i>Laboratory Composite</i>												

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	BSW1	04/28/04	1646	328490
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	04/27/04	1554	328473
GL-RAD-A-026	Laboratory sample composite	AWB	04/27/04	1522	328472

GENERAL ENGINEERING LABORATORIES, LLC
 2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : Haddam Neck Plant
 362 Injun Hollow Road
 East Hampton, Connecticut 06424
 Contact: Mr. Pete Hollenbeck
 Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 2 of 2

Client Sample ID: 3100-0000-175-C-20C-01 Project: YANK00204
 Sample ID: 111637015 Client ID: YANK001

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch Mtd.
-----------	-----------	--------	-------------	----	-----	-----	-------	----	-------------	------	------------

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid-HTD2,ALL2	72	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Sarah Kozlik.

Heather C. C. C.
 Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : Haddam Neck Plant
 362 Injun Hollow Road
 East Hampton, Connecticut 06424
 Contact: Mr. Pete Hollenbeck
 Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 1 of 2

Client Sample ID:	3100-0000-175-C-20C-02	Project:	YANK00204
Sample ID:	111637016	Client ID:	YANK001
Matrix:	Misc Solid		
Collect Date:	30-MAR-04		
Receive Date:	27-APR-04		
Collector:	Client		
Moisture:	6.58%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gamma Spec Analysis													
<i>Gammascpec, Gamma, Solid-GAM2, ALL2</i>													
Actinium-228	U	0.00	+/-0.280	0.143	+/-0.275	0.299	pCi/g		SRB	05/07/04	0949	328906	1
	UI												
Americium-241	U	-0.0226	+/-0.0991	0.070	+/-0.0971	0.145	pCi/g						
Bismuth-212	U	0.397	+/-0.361	0.190	+/-0.354	0.403	pCi/g						
Bismuth-214	U	0.00	+/-0.160	0.0738	+/-0.157	0.152	pCi/g						
	UI												
Cesium-134	U	-0.00792	+/-0.0461	0.0303	+/-0.0451	0.0641	pCi/g						
Cesium-137	U	0.0109	+/-0.0323	0.0257	+/-0.0316	0.0541	pCi/g						
Cobalt-60	U	0.0303	+/-0.0388	0.0329	+/-0.038	0.0707	pCi/g						
Europium-152	U	-0.0541	+/-0.0859	0.0627	+/-0.0842	0.131	pCi/g						
Europium-154	U	-0.107	+/-0.122	0.0891	+/-0.120	0.191	pCi/g						
Europium-155	U	0.0252	+/-0.0896	0.0647	+/-0.0878	0.134	pCi/g						
Lead-212		0.284	+/-0.0864	0.041	+/-0.0847	0.0845	pCi/g						
Lead-214		0.432	+/-0.126	0.0438	+/-0.124	0.0913	pCi/g						
Manganese-54	U	-0.000273	+/-0.037	0.0286	+/-0.0363	0.0604	pCi/g						
Niobium-94	U	-0.00244	+/-0.0323	0.025	+/-0.0316	0.0525	pCi/g						
Potassium-40		6.94	+/-1.26	0.268	+/-1.24	0.585	pCi/g						
Radium-226		0.255	+/-0.160	0.0519	+/-0.157	0.109	pCi/g						
Silver-108m	U	0.010	+/-0.0282	0.0216	+/-0.0277	0.0451	pCi/g						
Thallium-208	U	0.0541	+/-0.0595	0.0356	+/-0.0583	0.0738	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid-HTD2, ALL2</i>													
Strontium-90	U	-0.0066	+/-0.006	0.0062	+/-0.0064	0.0127	pCi/g		HOB1	05/10/04	1738	328553	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2, ALL2</i>													
Tritium	U	0.826	+/-1.72	1.41	+/-1.72	2.83	pCi/g		CTO1	05/02/04	1352	328815	3
Solid Preparation													
<i>Laboratory Composite</i>													

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	BSW1	04/28/04	1646	328490
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	04/27/04	1554	328473
GL-RAD-A-026	Laboratory sample composite	AWB	04/27/04	1522	328472

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : Haddam Neck Plant
362 Injun Hollow Road
East Hampton, Connecticut 06424
Contact: Mr. Pete Hollenbeck
Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 2 of 2

Client Sample ID: 3100-0000-175-C-20C-02 Project: YANK00204
Sample ID: 111637016 Client ID: YANK001

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch Mtd.
-----------	-----------	--------	-------------	----	-----	-----	-------	----	-------------	------	------------

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid-HTD2,ALL2	72	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Sarah Kozlik.

Heather J. Chesno
Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : Haddam Neck Plant
 362 Injun Hollow Road
 East Hampton, Connecticut 06424
 Contact: Mr. Pete Hollenbeck
 Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 1 of 2

Client Sample ID:	3101-0000-175-B-21B-01	Project:	YANK00204
Sample ID:	111637017	Client ID:	YANK001
Matrix:	Misc Solid		
Collect Date:	31-MAR-04		
Receive Date:	27-APR-04		
Collector:	Client		
Moisture:	.492%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch	Mtd.
Rad Gamma Spec Analysis												
<i>Gammasec, Gamma, Solid-GAM2, ALL2</i>												
Actinium-228	U	0.302	+/-0.252	0.150	+/-0.246	0.314	pCi/g		SRB 05/06/04	0946	328906	1
Americium-241	U	0.000646	+/-0.135	0.0829	+/-0.132	0.172	pCi/g					
Bismuth-212	U	0.097	+/-0.306	0.222	+/-0.300	0.472	pCi/g					
Bismuth-214	U	0.0661	+/-0.130	0.0533	+/-0.127	0.112	pCi/g					
Cesium-134	U	0.0117	+/-0.0395	0.0312	+/-0.0387	0.0666	pCi/g					
Cesium-137	U	0.0243	+/-0.0453	0.0285	+/-0.0444	0.0604	pCi/g					
Cobalt-60	U	-0.0291	+/-0.0402	0.0293	+/-0.0394	0.0648	pCi/g					
Europium-152	U	-0.0428	+/-0.110	0.0702	+/-0.108	0.146	pCi/g					
Europium-154	U	0.0175	+/-0.106	0.0868	+/-0.104	0.190	pCi/g					
Europium-155	U	0.0195	+/-0.0794	0.0595	+/-0.0779	0.123	pCi/g					
Lead-212		0.138	+/-0.0963	0.0399	+/-0.0944	0.0824	pCi/g					
Lead-214		0.131	+/-0.140	0.0518	+/-0.138	0.108	pCi/g					
Manganese-54	U	-0.00095	+/-0.0366	0.0281	+/-0.0359	0.0603	pCi/g					
Niobium-94	U	-0.0141	+/-0.0328	0.0247	+/-0.0322	0.0523	pCi/g					
Potassium-40		3.37	+/-0.955	0.294	+/-0.936	0.650	pCi/g					
Radium-226	U	0.0661	+/-0.130	0.0533	+/-0.127	0.112	pCi/g					
Silver-108m	U	-0.0168	+/-0.0345	0.0244	+/-0.0338	0.0511	pCi/g					
Thallium-208		0.111	+/-0.0768	0.0259	+/-0.0753	0.0548	pCi/g					

Rad Gas Flow Proportional Counting

GFPC, Sr90, solid-HTD2, ALL2

Strontium-90	U	-0.0042	+/-0.0054	0.0055	+/-0.0055	0.0115	pCi/g		HOB1 05/05/04	2103	328553	2
--------------	---	---------	-----------	--------	-----------	--------	-------	--	---------------	------	--------	---

Rad Liquid Scintillation Analysis

LSC, Tritium Dist, Solid-HTD2, ALL2

Tritium	U	-0.195	+/-1.70	1.44	+/-1.70	2.87	pCi/g		CTO1 05/02/04	1424	328815	3
---------	---	--------	---------	------	---------	------	-------	--	---------------	------	--------	---

Solid Preparation

Laboratory Composite

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	BSW1	04/28/04	1646	328490
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	04/27/04	1554	328473
GL-RAD-A-026	Laboratory sample composite	AWB	04/27/04	1522	328472

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : Haddam Neck Plant
362 Injun Hollow Road
East Hampton, Connecticut 06424
Contact: Mr. Pete Hollenbeck
Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 2 of 2

Client Sample ID: 3101-0000-175-B-21B-01 Project: YANK00204
Sample ID: 111637017 Client ID: YANK001

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch Mtd.
-----------	-----------	--------	-------------	----	-----	-----	-------	----	-------------	------	------------

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid-HTD2, ALL2	83	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Sarah Kozlik.

Alecory C. C. O. O.

Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : Haddam Neck Plant
362 Injun Hollow Road
East Hampton, Connecticut 06424
Contact: Mr. Pete Hollenbeck
Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 1 of 2

Client Sample ID: 3101-0000-175-B-21B-02 Project: YANK00204
Sample ID: 111637018 Client ID: YANK001
Matrix: Misc Solid
Collect Date: 31-MAR-04
Receive Date: 27-APR-04
Collector: Client
Moisture: .101%

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gamma Spec Analysis													
<i>GammaSpec, Gamma, Solid-GAM2, ALL2</i>													
Actinium-228	U	0.0614	+/-0.130	0.0699	+/-0.127	0.146	pCi/g	SRB	05/06/04	0947	328906	1	
Americium-241	U	0.000693	+/-0.0498	0.0365	+/-0.0488	0.0754	pCi/g						
Bismuth-212	U	0.0944	+/-0.139	0.113	+/-0.137	0.237	pCi/g						
Bismuth-214		0.110	+/-0.0696	0.025	+/-0.0682	0.0521	pCi/g						
Cesium-134	U	-0.00447	+/-0.0201	0.0154	+/-0.0197	0.0325	pCi/g						
Cesium-137	U	0.0145	+/-0.0188	0.0153	+/-0.0185	0.032	pCi/g						
Cobalt-60	U	-0.0171	+/-0.0209	0.0153	+/-0.0205	0.033	pCi/g						
Europium-152	U	0.0104	+/-0.0448	0.0345	+/-0.0439	0.0715	pCi/g						
Europium-154	U	-0.0246	+/-0.0584	0.0448	+/-0.0572	0.0958	pCi/g						
Europium-155	U	0.00592	+/-0.0462	0.0339	+/-0.0453	0.0698	pCi/g						
Lead-212		0.0765	+/-0.047	0.0193	+/-0.0461	0.0398	pCi/g						
Lead-214	U	0.00	+/-0.0627	0.0314	+/-0.0615	0.0645	pCi/g						
	UI												
Manganese-54	U	0.00184	+/-0.0234	0.0178	+/-0.0229	0.037	pCi/g						
Niobium-94	U	0.0132	+/-0.0192	0.0137	+/-0.0188	0.0285	pCi/g						
Potassium-40		2.53	+/-0.620	0.151	+/-0.607	0.324	pCi/g						
Radium-226		0.110	+/-0.0696	0.025	+/-0.0682	0.0521	pCi/g						
Silver-108m	U	0.000653	+/-0.0156	0.0118	+/-0.0153	0.0246	pCi/g						
Thallium-208	U	0.018	+/-0.0416	0.0181	+/-0.0408	0.0374	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid-HTD2, ALL2</i>													
Strontium-90	U	0.0006	+/-0.0045	0.0043	+/-0.0045	0.009	pCi/g	HOB1	05/10/04	1738	328553	2	
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2, ALL2</i>													
Tritium	U	-0.759	+/-1.73	1.48	+/-1.73	2.97	pCi/g	CTO1	05/02/04	1457	328815	3	
Solid Preparation													
<i>Laboratory Composite</i>													

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	BSW1	04/28/04	1646	328490
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AWB	04/27/04	1554	328473
GL-RAD-A-026	Laboratory sample composite	AWB	04/27/04	1522	328472

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : Haddam Neck Plant
362 Injun Hollow Road
East Hampton, Connecticut 06424
Contact: Mr. Pete Hollenbeck
Project: Concrete Cores PO# 002337

Report Date: May 12, 2004

Page 2 of 2

Client Sample ID: 3101-0000-175-B-21B-02 Project: YANK00204
Sample ID: 111637018 Client ID: YANK001

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	AnalystDate	Time	Batch Mtd.
-----------	-----------	--------	-------------	----	-----	-----	-------	----	-------------	------	------------

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid-HTD2,ALL2	87	(25%-125%)


Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Sarah Kozlik.



Reviewed by

QUALITY CONTROL DATA

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: May 12, 2004

Page 1 of 8

Client : Connecticut Yankee Atomic Power
 Haddam Neck Plant
 362 Injun Hollow Road
 East Hampton, Connecticut
 Contact: Mr. Pete Hollenbeck
 Workorder: 111637

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Alpha Spec											
Batch	328693										
QC1200614765	111637005	DUP									
Americium-241		U	-0.00716	U	0.000454	pCi/g	N/A	(0% - 100%)	JAS1	05/04/04	13:31
		Uncert:	+/-0.0149		+/-0.0174						
		TPU:	+/-0.0149		+/-0.0174						
Curium-242		U	-0.00854	U	0.0115	pCi/g	N/A	(0% - 100%)			
		Uncert:	+/-0.00749		+/-0.0184						
		TPU:	+/-0.00756		+/-0.0184						
Curium-243/244		U	0.00396	U	-0.00114	pCi/g	N/A	(0% - 100%)			
		Uncert:	+/-0.0266		+/-0.0127						
		TPU:	+/-0.0266		+/-0.0127						
QC1200614767	LCS										
Americium-241			2.69		2.50	pCi/g		93 (75%-125%)			
		Uncert:			+/-0.240						
		TPU:			+/-0.383						
Curium-242				U	0.0122	pCi/g					
		Uncert:			+/-0.017						
		TPU:			+/-0.017						
Curium-243/244			3.47		3.43	pCi/g		99 (75%-125%)			
		Uncert:			+/-0.281						
		TPU:			+/-0.496						
QC1200614764	MB										
Americium-241				U	0.00633	pCi/g					
		Uncert:			+/-0.0178						
		TPU:			+/-0.0178						
Curium-242				U	0.00	pCi/g					
		Uncert:			+/-0.0122						
		TPU:			+/-0.0122						
Curium-243/244				U	0.000243	pCi/g					
		Uncert:			+/-0.0132						
		TPU:			+/-0.0132						
QC1200614766	111637005	MS									
Americium-241		U	2.51	U	-0.00716	pCi/g		106 (75%-125%)			
		Uncert:			+/-0.0149						
		TPU:			+/-0.0149						
Curium-242		U	-0.00854	U	-0.00358	pCi/g					
		Uncert:	+/-0.00749		+/-0.00497						
		TPU:	+/-0.00756		+/-0.00499						
Curium-243/244		U	3.25	U	0.00396	pCi/g		107 (75%-125%)			
		Uncert:	+/-0.0266		+/-0.295						
		TPU:	+/-0.0266		+/-0.523						
Batch	328694										
QC1200614769	111637005	DUP									
Plutonium-238			0.00765	U	0.00127	pCi/g	143	(0% - 100%)	JAS1	05/03/04	22:37

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 111637

Page 2 of 8

Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Alpha Spec											
Batch	328694										
Plutonium-239/240		Uncert:	+/-0.00866	+/-0.0085							
		TPU:	+/-0.00868	+/-0.0085							
		U	0.00636	U	-0.00137	pCi/g	N/A	(0% - 100%)			
		Uncert:	+/-0.00901	+/-0.00925							
		TPU:	+/-0.00902	+/-0.00925							
QC1200614771	LCS										
Plutonium-238	4.22			4.84	pCi/g		115	(75%-125%)			
		Uncert:		+/-0.228							
		TPU:		+/-0.440							
Plutonium-239/240				0.0458	pCi/g			(75%-125%)			
		Uncert:		+/-0.0263							
		TPU:		+/-0.0266							
QC1200614768	MB										
Plutonium-238				U	0.00139	pCi/g				05/03/04	22:37
		Uncert:		+/-0.00937							
		TPU:		+/-0.00937							
Plutonium-239/240				U	-0.0116	pCi/g					
		Uncert:		+/-0.0106							
		TPU:		+/-0.0107							
QC1200614770	111637005	MS									
Plutonium-238	3.94	0.00765		4.32	pCi/g		109	(75%-125%)		05/03/04	22:37
		Uncert:	+/-0.00866	+/-0.217							
		TPU:	+/-0.00868	+/-0.406							
Plutonium-239/240		U	0.00636	0.0951	pCi/g			(75%-125%)			
		Uncert:	+/-0.00901	+/-0.0326							
		TPU:	+/-0.00902	+/-0.0334							
Batch	328695										
QC1200614773	111637005	DUP									
Plutonium-241		U	-0.286	U	-0.927	pCi/g	N/A	(0% - 100%)	JAS1	05/05/04	22:50
		Uncert:	+/-1.64	+/-1.78							
		TPU:	+/-1.64	+/-1.78							
QC1200614775	LCS										
Plutonium-241	35.7			31.7	pCi/g		89	(75%-125%)		05/06/04	00:25
		Uncert:		+/-2.03							
		TPU:		+/-3.30							
QC1200614772	MB										
Plutonium-241				U	-0.512	pCi/g				05/05/04	22:03
		Uncert:		+/-1.49							
		TPU:		+/-1.49							
QC1200614774	111637005	MS									
Plutonium-241	66.9	U	-0.286	60.2	pCi/g		90	(75%-125%)		05/05/04	23:37
		Uncert:	+/-1.64	+/-3.94							
		TPU:	+/-1.64	+/-6.48							
Rad Gamma Spec											
Batch	328906										
QC1200615256	111637001	DUP									
Actinium-228		U	0.401	U	0.344	pCi/g	15	(0% - 100%)	SRB	05/06/04	09:48
		Uncert:	+/-0.365	+/-0.472							
				+/-0.463							

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 111637

Page 3 of 8

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec											
Batch 328906											
Americium-241		TPU:		+/-0.358							
	U		0.0304	UUI	0.00	pCi/g	103	(0% - 100%)			
		Uncert:		+/-0.167							
Bismuth-212		TPU:		+/-0.163							
	U		0.495	U	0.545	pCi/g	10	(0% - 100%)			
		Uncert:		+/-0.395							
Bismuth-214		TPU:		+/-0.387							
			0.305	UUI	0.00	pCi/g	*	(0% - 100%)			
		Uncert:		+/-0.194							
Cesium-134		TPU:		+/-0.191							
			0.267		0.189	pCi/g	34	(0% - 100%)			
		Uncert:		+/-0.113							
Cesium-137		TPU:		+/-0.111							
			19.5		20.2	pCi/g	3	(0% - 100%)			
		Uncert:		+/-2.21							
Cobalt-60		TPU:		+/-2.17							
			5.20		5.36	pCi/g	3	(0% - 100%)			
		Uncert:		+/-0.406							
Europium-152		TPU:		+/-0.398							
	U		-0.0517	U	-0.135	pCi/g	N/A	(0% - 100%)			
		Uncert:		+/-0.141							
Europium-154		TPU:		+/-0.138							
	U		0.0685	U	-0.05	pCi/g	N/A	(0% - 100%)			
		Uncert:		+/-0.133							
Europium-155		TPU:		+/-0.130							
	U		0.0344	U	0.0789	pCi/g	79	(0% - 100%)			
		Uncert:		+/-0.114							
Lead-212		TPU:		+/-0.112							
			0.356		0.364	pCi/g	2	(0% - 100%)			
		Uncert:		+/-0.126							
Lead-214		TPU:		+/-0.124							
			0.457		0.477	pCi/g	4	(0% - 100%)			
		Uncert:		+/-0.179							
Manganese-54		TPU:		+/-0.176							
	U		0.0444	U	0.00641	pCi/g	150	(0% - 100%)			
		Uncert:		+/-0.0563							
Niobium-94		TPU:		+/-0.0552							
	U		0.0361	U	0.0253	pCi/g	35	(0% - 100%)			
		Uncert:		+/-0.0321							
Potassium-40		TPU:		+/-0.0315							
			6.25		7.16	pCi/g	14	(0% - 20%)			
		Uncert:		+/-1.33							
Radium-226		TPU:		+/-1.30							
			0.305		0.442	pCi/g	37	(0% - 100%)			
		Uncert:		+/-0.194							
Silver-108m		TPU:		+/-0.191							
	U		0.0229	U	-0.0139	pCi/g	N/A	(0% - 100%)			
		Uncert:		+/-0.0607							

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 111637

Page 4 of 8

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec										
Batch	328906									
Thallium-208		TPU: +/-0.0595 0.196	+/-0.0734 0.256	pCi/g	27		(0% - 100%)			
		Uncert: +/-0.100	+/-0.145							
		TPU: +/-0.0981	+/-0.142							
QC1200615257 Actinium-228	LCS		U -0.628	pCi/g					05/06/04	09:50
		Uncert: +/-2.99	+/-2.93							
Americium-241	234		246	pCi/g		105	(75%-125%)			
		Uncert: +/-22.9	+/-22.4							
		TPU: +/-22.4	-4.6	pCi/g						
Bismuth-212			U -5.44	pCi/g						
		Uncert: +/-5.44	+/-5.33							
Bismuth-214			U 0.712	pCi/g						
		Uncert: +/-1.23	+/-1.21							
		TPU: +/-1.21	-0.25	pCi/g						
Cesium-134			U +/-0.792	pCi/g						
		Uncert: +/-0.776	95.0	pCi/g		102	(75%-125%)			
Cesium-137	92.7		+/-12.1							
		TPU: +/-11.9	148	pCi/g		101	(75%-125%)			
Cobalt-60	146		U +/-11.9	pCi/g						
		Uncert: +/-11.6	0.301	pCi/g						
Europium-152			U +/-1.51	pCi/g						
		TPU: +/-1.48	-0.592	pCi/g						
Europium-154			U +/-1.81	pCi/g						
		Uncert: +/-1.77	-1.05	pCi/g						
Europium-155			U +/-1.88	pCi/g						
		TPU: +/-1.84	0.114	pCi/g						
Lead-212			U +/-0.851	pCi/g						
		Uncert: +/-0.834	0.988	pCi/g						
Lead-214			U +/-1.11	pCi/g						
		TPU: +/-1.09	-0.08	pCi/g						
Manganese-54			U +/-0.705	pCi/g						
		TPU: +/-0.691	0.673	pCi/g						
Niobium-94			U +/-0.660	pCi/g						
		TPU: +/-0.647	7.33	pCi/g						
Potassium-40			U							

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 111637

Page 5 of 8

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gamma Spec									
Batch	328906								
Radium-226		U	0.712	pCi/g			(75%-125%)		
	Uncert:		+/-7.84						
	TPU:		+/-7.68						
Silver-108m		U	-0.426	pCi/g					
	Uncert:		+/-1.23						
	TPU:		+/-1.21						
Thallium-208		U	0.084	pCi/g					
	Uncert:		+/-0.678						
	TPU:		+/-0.664						
QC1200615255 MB Actinium-228		U	0.218	pCi/g					05/05/04 15:20
	Uncert:		+/-0.326						
	TPU:		+/-0.319						
Americium-241		U	-0.132	pCi/g					
	Uncert:		+/-0.162						
	TPU:		+/-0.158						
Bismuth-212		U	0.549	pCi/g					
	Uncert:		+/-0.412						
	TPU:		+/-0.404						
Bismuth-214		U	0.00	pCi/g					
	Uncert:		+/-0.261						
	TPU:		+/-0.256						
Cesium-134		U	0.0662	pCi/g					
	Uncert:		+/-0.0618						
	TPU:		+/-0.0606						
Cesium-137		U	-0.0072	pCi/g					
	Uncert:		+/-0.0458						
	TPU:		+/-0.0449						
Cobalt-60		U	0.0101	pCi/g					
	Uncert:		+/-0.0578						
	TPU:		+/-0.0567						
Europium-152		U	0.0344	pCi/g					
	Uncert:		+/-0.127						
	TPU:		+/-0.125						
Europium-154		U	-0.0185	pCi/g					
	Uncert:		+/-0.148						
	TPU:		+/-0.145						
Europium-155		U	0.0526	pCi/g					
	Uncert:		+/-0.145						
	TPU:		+/-0.142						
Lead-212		UUI	0.00	pCi/g					
	Uncert:		+/-0.0805						
	TPU:		+/-0.0789						
Lead-214		U	0.00395	pCi/g					
	Uncert:		+/-0.149						
	TPU:		+/-0.146						

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 111637

Page 6 of 8

Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec											
Batch	328906										
Manganese-54			U	-0.0255	pCi/g						
	Uncert:			+/-0.0528							
	TPU:			+/-0.0517							
Niobium-94			U	-0.00103	pCi/g						
	Uncert:			+/-0.0474							
	TPU:			+/-0.0464							
Potassium-40			U	0.443	pCi/g						
	Uncert:			+/-1.45							
	TPU:			+/-1.42							
Radium-226			U	0.141	pCi/g						
	Uncert:			+/-0.261							
	TPU:			+/-0.256							
Silver-108m			U	-0.0111	pCi/g						
	Uncert:			+/-0.0434							
	TPU:			+/-0.0425							
Thallium-208			U	0.082	pCi/g						
	Uncert:			+/-0.0545							
	TPU:			+/-0.0534							
Rad Gas Flow											
Batch	328553										
QC1200614497	111637018	DUP									
Strontium-90			U	0.0006	U	0.0005	pCi/g	0	(0% - 100%)	HOB1	05/10/04 21:50
	Uncert:			+/-0.0045		+/-0.0047					
	TPU:			+/-0.0045		+/-0.0047					
QC1200614499	LCS										
Strontium-90			2.07			2.16	pCi/g	104	(75%-125%)		05/04/04 16:23
	Uncert:					+/-0.120					
	TPU:					+/-0.549					
QC1200614496	MB										
Strontium-90					U	-0.0025	pCi/g				05/05/04 21:03
	Uncert:					+/-0.005					
	TPU:					+/-0.0051					
QC1200614498	111637018	MS									
Strontium-90			4.12	U	0.0006	4.20	pCi/g	102	(75%-125%)		05/04/04 16:23
	Uncert:					+/-0.0045					
	TPU:					+/-0.0045					
Rad Liquid Scintillation											
Batch	328815										
QC1200615009	111637005	DUP									
Tritium			U	2.35		4.20	pCi/g	57	(0% - 100%)	CTO1	05/05/04 10:52
	Uncert:			+/-1.74		+/-2.21					
	TPU:			+/-1.75		+/-2.24					
QC1200615011	LCS										
Tritium			18.1			17.5	pCi/g	97	(75%-125%)		05/02/04 17:05
	Uncert:					+/-2.25					
	TPU:					+/-2.54					
QC1200615008	MB										
Tritium					U	0.0662	pCi/g				05/02/04 15:29

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 111637

Page 7 of 8

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Liquid Scintillation									
Batch	328815								
		Uncert:							
		TPU:							
QC1200615010	111637005	MS							
Tritium	16.7	U	2.35	23.0	pCi/g	124	(75%-125%)		05/05/04 11:24
		Uncert:							
		TPU:							
Batch	328843								
QC1200615068	111637005	DUP							
Carbon-14		U	-0.211	U 0.239	pCi/g	N/A	(0% - 100%)	CTO1	05/01/04 00:07
		Uncert:							
		TPU:							
QC1200615070	LCS								
Carbon-14	17.1			17.6	pCi/g	103	(75%-125%)		05/01/04 02:11
		Uncert:							
		TPU:							
QC1200615067	MB								
Carbon-14				U -0.134	pCi/g				04/30/04 23:05
		Uncert:							
		TPU:							
QC1200615069	111637005	MS							
Carbon-14	17.4	U	-0.211	17.8	pCi/g	102	(75%-125%)		05/01/04 01:09
		Uncert:							
		TPU:							

Notes:

The Qualifiers in this report are defined as follows:

- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- h Sample preparation or preservation holding time exceeded.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 111637

Page 8 of 8

<u>Parmname</u>	<u>NOM</u>	<u>Sample Qual</u>	<u>QC</u>	<u>Units</u>	<u>RPD%</u>	<u>REC%</u>	<u>Range</u>	<u>Anlst</u>	<u>Date</u>	<u>Time</u>
-----------------	------------	--------------------	-----------	--------------	-------------	-------------	--------------	--------------	-------------	-------------

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

** Indicates analyte is a surrogate compound.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

3100-0000-179-C-1C-01	MSR# 04-1223	11637001	328906	10045-97-3	Cesium-137	TRG 8	UHASL300	HASL300	REG	19.5	2.21	PCIG	0	27/04/2004	38111.87847	8.15	0.0821	PCIG	0.0397	PCIG	1	5	16.5	G	PCIG	PR
3100-0000-179-C-1C-01	MSR# 04-1223	11637001	328906	10198-40-0	Cobalt-60	TRG 8	UHASL300	HASL300	REG	5.2	0.406	PCIG	0	27/04/2004	38111.87847	8.15	0.0833	PCIG	0.039	PCIG	1	5	16.5	G	PCIG	PR
3100-0000-179-C-1C-01	MSR# 04-1223	11637001	328906	13966-00-2	Potassium-40	TRG 8	UHASL300	HASL300	REG	6.25	1.33	PCIG	0	27/04/2004	38111.87847	8.15	0.766	PCIG	0.357	PCIG	1	5	16.5	G	PCIG	PR
3100-0000-179-C-1C-01	MSR# 04-1223	11637001	328906	13966-31-9	Manganese-54	TRG 8	UHASL300	HASL300	REG	0.0444	0.0563	PCIG	0	27/04/2004	38111.87847	8.15	0.0934	PCIG	0.045	PCIG	1	5	16.5	G	PCIG	PR
3100-0000-179-C-1C-01	MSR# 04-1223	11637001	328906	13967-70-9	Cesium-134	TRG 8	UHASL300	HASL300	REG	0.267	0.113	PCIG	0	27/04/2004	38111.87847	8.15	0.0935	PCIG	0.077	PCIG	1	5	16.5	G	PCIG	PR
3100-0000-179-C-1C-01	MSR# 04-1223	11637001	328906	13982-63-3	Radium-226	TRG 8	UHASL300	HASL300	REG	0.305	0.194	PCIG	0	27/04/2004	38111.87847	8.15	0.149	PCIG	0.0722	PCIG	1	5	16.5	G	PCIG	PR
3100-0000-179-C-1C-01	MSR# 04-1223	11637001	328906	14331-83-0	Actinium-228	TRG 8	UHASL300	HASL300	REG	0.401	0.365	PCIG	0	27/04/2004	38111.87847	8.15	0.433	PCIG	0.21	PCIG	1	5	16.5	G	PCIG	PR
3100-0000-179-C-1C-01	MSR# 04-1223	11637001	328906	14391-16-3	Europium-155	TRG 8	UHASL300	HASL300	REG	0.0344	0.114	PCIG	0	27/04/2004	38111.87847	8.15	0.164	PCIG	0.0805	PCIG	1	5	16.5	G	PCIG	PR
3100-0000-179-C-1C-01	MSR# 04-1223	11637001	328906	14391-65-2	Silver-108m	TRG 8	UHASL300	HASL300	REG	0.0229	0.0607	PCIG	0	27/04/2004	38111.87847	8.15	0.0933	PCIG	0.0457	PCIG	1	5	16.5	G	PCIG	PR
3100-0000-179-C-1C-01	MSR# 04-1223	11637001	328906	14596-10-2	Americium-241	TRG 8	UHASL300	HASL300	REG	0.0304	0.167	PCIG	0	27/04/2004	38111.87847	8.15	0.237	PCIG	0.116	PCIG	1	5	16.5	G	PCIG	PR
3100-0000-179-C-1C-01	MSR# 04-1223	11637001	328906	14681-63-1	Niobium-94	TRG 8	UHASL300	HASL300	REG	0.0061	0.0321	PCIG	0	27/04/2004	38111.87847	8.15	0.0696	PCIG	0.0335	PCIG	1	5	16.5	G	PCIG	PR
3100-0000-179-C-1C-01	MSR# 04-1223	11637001	328906	14683-23-9	Europium-152	TRG 8	UHASL300	HASL300	REG	-0.0571	0.141	PCIG	0	27/04/2004	38111.87847	8.15	0.214	PCIG	0.105	PCIG	1	5	16.5	G	PCIG	PR
3100-0000-179-C-1C-01	MSR# 04-1223	11637001	328906	14733-03-0	Bismuth-214	TRG 8	UHASL300	HASL300	REG	0.305	0.194	PCIG	0	27/04/2004	38111.87847	8.15	0.149	PCIG	0.0722	PCIG	1	5	16.5	G	PCIG	PR
3100-0000-179-C-1C-01	MSR# 04-1223	11637001	328906	14913-49-6	Bismuth-212	TRG 8	UHASL300	HASL300	REG	0.495	0.395	PCIG	0	27/04/2004	38111.87847	8.15	0.664	PCIG	0.321	PCIG	1	5	16.5	G	PCIG	PR
3100-0000-179-C-1C-01	MSR# 04-1223	11637001	328906	14913-50-9	Thallium-208	TRG 8	UHASL300	HASL300	REG	0.196	0.1	PCIG	0	27/04/2004	38111.87847	8.15	0.0843	PCIG	0.0409	PCIG	1	5	16.5	G	PCIG	PR
3100-0000-179-C-1C-01	MSR# 04-1223	11637001	328906	15067-28-4	Lead-214	TRG 8	UHASL300	HASL300	REG	0.457	0.179	PCIG	0	27/04/2004	38111.87847	8.15	0.163	PCIG	0.0796	PCIG	1	5	16.5	G	PCIG	PR
3100-0000-179-C-1C-01	MSR# 04-1223	11637001	328906	15092-94-1	Lead-212	TRG 8	UHASL300	HASL300	REG	0.358	0.126	PCIG	0	27/04/2004	38111.87847	8.15	0.112	PCIG	0.0549	PCIG	1	5	16.5	G	PCIG	PR
3100-0000-179-C-1C-01	MSR# 04-1223	11637001	328906	15585-10-1	Europium-154	TRG 8	UHASL300	HASL300	REG	0.0685	0.133	PCIG	0	27/04/2004	38111.87847	8.15	0.234	PCIG	0.11	PCIG	1	5	16.5	G	PCIG	PR
3100-0000-179-C-1C-02	MSR# 04-1223	11637002	328906	10045-97-3	Cesium-137	TRG 8	UHASL300	HASL300	REG	10.2	0.098	PCIG	0	27/04/2004	38111.87847	8.16	0.9915	PCIG	0.0442	PCIG	1	5	16.5	G	PCIG	PR
3100-0000-179-C-1C-02	MSR# 04-1223	11637002	328906	10198-40-0	Cobalt-60	TRG 8	UHASL300	HASL300	REG	0.153	0.0932	PCIG	0	27/04/2004	38111.87847	8.16	0.126	PCIG	0.0602	PCIG	1	5	16.5	G	PCIG	PR
3100-0000-179-C-1C-02	MSR# 04-1223	11637002	328906	13966-00-2	Potassium-40	TRG 8	UHASL300	HASL300	REG	4.93	1.77	PCIG	0	27/04/2004	38111.87847	8.16	1.05	PCIG	0.502	PCIG	1	5	16.5	G	PCIG	PR
3100-0000-179-C-1C-02	MSR# 04-1223	11637002	328906	13966-31-9	Manganese-54	TRG 8	UHASL300	HASL300	REG	-0.0349	0.06	PCIG	0	27/04/2004	38111.87847	8.16	0.0956	PCIG	0.0459	PCIG	1	5	16.5	G	PCIG	PR
3100-0000-179-C-1C-02	MSR# 04-1223	11637002	328906	13967-70-9	Cesium-134	TRG 8	UHASL300	HASL300	REG	0.0242	0.0985	PCIG	0	27/04/2004	38111.87847	8.16	0.115	PCIG	0.0556	PCIG	1	5	16.5	G	PCIG	PR
3100-0000-179-C-1C-02	MSR# 04-1223	11637002	328906	13982-63-3	Radium-226	TRG 8	UHASL300	HASL300	REG	0.374	0.226	PCIG	0	27/04/2004	38111.87847	8.16	0.162	PCIG	0.0781	PCIG	1	5	16.5	G	PCIG	PR
3100-0000-179-C-1C-02	MSR# 04-1223	11637002	328906	14331-83-0	Actinium-228	TRG 8	UHASL300	HASL300	REG	0.437	0.478	PCIG	0	27/04/2004	38111.87847	8.16	0.363	PCIG	0.175	PCIG	1	5	16.5	G	PCIG	PR
3100-0000-179-C-1C-02	MSR# 04-1223	11637002	328906	14391-16-3	Europium-155	TRG 8	UHASL300	HASL300	REG	0.0291	0.0925	PCIG	0	27/04/2004	38111.87847	8.16	0.138	PCIG	0.0673	PCIG	1	5	16.5	G	PCIG	PR
3100-0000-179-C-1C-02	MSR# 04-1223	11637002	328906	14391-65-2	Silver-108m	TRG 8	UHASL300	HASL300	REG	0.105	0.194	PCIG	0	27/04/2004	38111.87847	8.16	0.071	PCIG	0.0339	PCIG	1	5	16.5	G	PCIG	PR
3100-0000-179-C-1C-02	MSR# 04-1223	11637002	328906	14596-10-2	Americium-241	TRG 8	UHASL300	HASL300	REG	-0.00108	0.0539	PCIG	0	27/04/2004	38111.87847	8.16	0.0714	PCIG	0.0349	PCIG	1	5	16.5	G	PCIG	PR
3100-0000-179-C-1C-02	MSR# 04-1223	11637002	328906	14681-63-1	Niobium-94	TRG 8	UHASL300	HASL300	REG	0.0243	0.0626	PCIG	0	27/04/2004	38111.87847	8.16	0.09	PCIG	0.0436	PCIG	1	5	16.5	G	PCIG	PR
3100-0000-179-C-1C-02	MSR# 04-1223	11637002	328906	14683-23-9	Europium-152	TRG 8	UHASL300	HASL300	REG	0.0671	0.125	PCIG	0	27/04/2004	38111.87847	8.16	0.199	PCIG	0.0969	PCIG	1	5	16.5	G	PCIG	PR
3100-0000-179-C-1C-02	MSR# 04-1223	11637002	328906	14733-03-0	Bismuth-214	TRG 8	UHASL300	HASL300	REG	0.374	0.226	PCIG	0	27/04/2004	38111.87847	8.16	0.162	PCIG	0.0781	PCIG	1	5	16.5	G	PCIG	PR
3100-0000-179-C-1C-02	MSR# 04-1223	11637002	328906	14913-49-6	Bismuth-212	TRG 8	UHASL300	HASL300	REG	0.261	0.482	PCIG	0	27/04/2004	38111.87847	8.16	0.766	PCIG	0.37	PCIG	1	5	16.5	G	PCIG	PR
3100-0000-179-C-1C-02	MSR# 04-1223	11637002	328906	14913-50-9	Thallium-208	TRG 8	UHASL300	HASL300	REG	0.21	0.118	PCIG	0	27/04/2004	38111.87847	8.16	0.0892	PCIG	0.0432	PCIG	1	5	16.5	G	PCIG	PR
3100-0000-179-C-1C-02	MSR# 04-1223	11637002	328906	15067-28-4	Lead-214	TRG 8	UHASL300	HASL300	REG	0.298	0.198	PCIG	0	27/04/2004	38111.87847	8.16	0.145	PCIG	0.0713	PCIG	1	5	16.5	G	PCIG	PR
3100-0000-179-C-1C-02	MSR# 04-1223	11637002	328906	15092-94-1	Lead-212	TRG 8	UHASL300	HASL300	REG	0.399	0.128	PCIG	0	27/04/2004	38111.87847	8.16	0.0992	PCIG	0.0484	PCIG	1	5	16.5	G	PCIG	PR
3100-0000-179-C-1C-02	MSR# 04-1223	11637002	328906	15585-10-1	Europium-154	TRG 8	UHASL300	HASL300	REG	0.0359	0.274	PCIG	0	27/04/2004	38111.87847	8.16	0.308	PCIG	0.147	PCIG	1	5	16.5	G	PCIG	PR
3100-0000-175-C-1C-01	MSR# 04-1223	11637003	328906	10045-97-3	Cesium-137	TRG 8	UHASL300	HASL300	REG	34.9	4.37	PCIG	0	27/04/2004	38111.87847	9.13	0.0959	PCIG	0.0465	PCIG	1	5	16.1	G	PCIG	PR
3100-0000-175-C-1C-01	MSR# 04-1223	11637003	328906	10198-40-0	Cobalt-60	TRG 8	UHASL300	HASL300	REG	7.78	0.669	PCIG	0	27/04/2004	38111.87847	9.13	0.9915	PCIG	0.043	PCIG	1	5	16.1	G	PCIG	PR
3100-0000-175-C-1C-01	MSR# 04-1223	11637003	328906	13966-00-2	Potassium-40	TRG 8	UHASL300	HASL300	REG	7.36	1.37	PCIG	0	27/04/2004	38111.87847	9.13	0.662	PCIG	0.303	PCIG	1	5	16.1	G	PCIG	PR
3100-0000-175-C-1C-01	MSR# 04-1223	11637003	328906	13966-31-9	Manganese-54	TRG 8	UHASL300	HASL300	REG	-0.00118	0.0627	PCIG	0	27/04/2004	38111.87847	9.13	0.103	PCIG	0.0497	PCIG	1	5	16.1	G	PCIG	PR
3100-0000-175-C-1C-01	MSR# 04-1223	11637003	328906	13967-70-9	Cesium-134	TRG 8	UHASL300	HASL300	REG	0.14	0.113	PCIG	0	27/04/2004	38111.87847	9.13	0.113	PCIG	0.0548	PCIG	1	5	16.1	G	PCIG	PR
3100-0000-175-C-1C-01	MSR# 04-1223	11637003	328906	13982-63-3	Radium-226	TRG 8	UHASL300	HASL300	REG	0.381	0.173	PCIG	0	27/04/2004	38111.87847	9.13	0.179	PCIG	0.0869	PCIG	1	5	16.1	G	PCIG	PR
3100-0000-175-C-1C-01	MSR# 04-1223	11637003	328906	14331-83-0	Actinium-228	TRG 8	UHASL300	HASL300	REG	0.178	0.329	PCIG	0	27/04/2004	38111.87847	9.13	0.411	PCIG	0.199	PCIG	1	5	16.1	G	PCIG	PR
3100-0000-175-C-1C-01	MSR# 04-1223	11637003	328906	14391-16-3	Europium-155	TRG 8	UHASL300	HASL300	REG	-0.0455	0.121	PCIG	0	27/04/2004	38111.87847	9.13	0.175	PCIG	0.0856	PCIG	1	5	16.1	G	PCIG	PR
3100-0000-175-C-1C-01	MSR# 04-1223	11637003																								

3100-0000-179-C-4C-01	MSR#04-1223	11637005	328906	14391-16-3	Europium-155	TRG 8	UHASL300	HASL300	REG	0.0156	0.0785	PCIG	U	27/04/2004	38111.87847	10.53	0.121	PCIG	0.0583	PCIG	1	5.6	19.1	G	PCIG	PR
3100-0000-179-C-4C-01	MSR#04-1223	11637005	328906	14391-65-2	Silver-108m	TRG 8	UHASL300	HASL300	REG	7.57E-05	0.0261	PCIG	U	27/04/2004	38111.87847	10.53	0.043	PCIG	0.0204	PCIG	1	5.6	19.1	G	PCIG	PR
3100-0000-179-C-4C-01	MSR#04-1223	11637005	328906	14596-10-2	Americium-241	TRG 8	UHASL300	HASL300	REG	0.0518	0.179	PCIG	U	27/04/2004	38111.87847	10.53	0.231	PCIG	0.111	PCIG	1	5.6	19.1	G	PCIG	PR
3100-0000-179-C-4C-01	MSR#04-1223	11637005	328906	14681-63-1	Niobium-94	TRG 8	UHASL300	HASL300	REG	-0.142	0.0314	PCIG	U	27/04/2004	38111.87847	10.53	0.0496	PCIG	0.0234	PCIG	1	5.6	19.1	G	PCIG	PR
3100-0000-179-C-4C-01	MSR#04-1223	11637005	328906	14681-23-9	Europium-152	TRG 8	UHASL300	HASL300	REG	0.0207	0.0717	PCIG	U	27/04/2004	38111.87847	10.53	0.123	PCIG	0.0588	PCIG	1	5.6	19.1	G	PCIG	PR
3100-0000-179-C-4C-01	MSR#04-1223	11637005	328906	14733-03-0	Bismuth-212	TRG 8	UHASL300	HASL300	REG	0.435	0.139	PCIG	U	27/04/2004	38111.87847	10.53	0.0913	PCIG	0.043	PCIG	1	5.6	19.1	G	PCIG	PR
3100-0000-179-C-4C-01	MSR#04-1223	11637005	328906	14913-49-6	Bismuth-214	TRG 8	UHASL300	HASL300	REG	0.0504	0.351	PCIG	U	27/04/2004	38111.87847	10.53	0.391	PCIG	0.182	PCIG	1	5.6	19.1	G	PCIG	PR
3100-0000-179-C-4C-01	MSR#04-1223	11637005	328906	14913-50-9	Thallium-208	TRG 8	UHASL300	HASL300	REG	0.132	0.0697	PCIG	U	27/04/2004	38111.87847	10.53	0.0492	PCIG	0.0232	PCIG	1	5.6	19.1	G	PCIG	PR
3100-0000-179-C-4C-01	MSR#04-1223	11637005	328906	15067-28-4	Lead-214	TRG 8	UHASL300	HASL300	REG	0.559	0.143	PCIG	U	27/04/2004	38111.87847	10.53	0.0895	PCIG	0.0428	PCIG	1	5.6	19.1	G	PCIG	PR
3100-0000-179-C-4C-01	MSR#04-1223	11637005	328906	15092-94-1	Lead-212	TRG 8	UHASL300	HASL300	REG	0.507	0.0852	PCIG	U	27/04/2004	38111.87847	10.53	0.0648	PCIG	0.0311	PCIG	1	5.6	19.1	G	PCIG	PR
3100-0000-179-C-4C-01	MSR#04-1223	11637005	328906	15585-10-1	Europium-154	TRG 8	UHASL300	HASL300	REG	-0.0809	0.106	PCIG	U	27/04/2004	38111.87847	10.53	0.189	PCIG	0.0769	PCIG	1	5.6	19.1	G	PCIG	PR
3100-0000-179-C-4C-02	MSR#04-1223	11637006	328553	10098-97-2	Srortium-90	TRG 45	UE905M	E905M	REG	0.0183	0.0078	PCIG	U	28/04/2004	38111.29514	5.21	0.0138	PCIG	0.0068	PCIG	1	6.4	8.54	G	PCIG	PR
3100-0000-179-C-4C-02	MSR#04-1223	11637006	328693	14596-10-2	Americium-241	TRG 1	UAM05RCM	AM05RCM	REG	0.000458	0.0176	PCIG	U	28/04/2004	38111.29444	12.31	0.0525	PCIG	0.0185	PCIG	1	6.4	1.07	G	PCIG	PR
3100-0000-179-C-4C-02	MSR#04-1223	11637006	328693	OER-100-93	Curium-242	TRG 1	UAM05RCM	AM05RCM	REG	-0.00317	0.0137	PCIG	U	28/04/2004	38111.29444	12.31	0.0392	PCIG	0.0106	PCIG	1	6.4	1.07	G	PCIG	PR
3100-0000-179-C-4C-02	MSR#04-1223	11637006	328693	OER-101-57	Curium-243/244	TRG 1	UAM05RCM	AM05RCM	REG	-0.00345	0.0221	PCIG	U	28/04/2004	38111.29444	12.31	0.0663	PCIG	0.0254	PCIG	1	6.4	1.07	G	PCIG	PR
3100-0000-179-C-4C-02	MSR#04-1223	11637006	328694	13981-16-3	Plutonium-238	TRG 32	UPU11RCM	PU11RCM	REG	0.00791	0.0112	PCIG	U	28/04/2004	38111.29375	10.16	0.0191	PCIG	0.00524	PCIG	1	6.4	1.07	G	PCIG	PR
3100-0000-179-C-4C-02	MSR#04-1223	11637006	328694	OER-100-70	Plutonium-239/240	TRG 32	UPU11RCM	PU11RCM	REG	0.00314	0.00984	PCIG	U	28/04/2004	38111.29375	10.16	0.0234	PCIG	0.00741	PCIG	1	6.4	1.07	G	PCIG	PR
3100-0000-179-C-4C-02	MSR#04-1223	11637006	328695	14119-32-5	Plutonium-241	TRG 36	UPU11RCM	PU11RCM	REG	-0.286	0.238	PCIG	U	28/04/2004	38111.29514	7.41	4.09	PCIG	2.0	PCIG	1	6.4	2.03	G	PCIG	PR
3100-0000-179-C-4C-02	MSR#04-1223	11637006	328815	10028-17-8	Trinium	TRG 20	UE906 0	E906 0	REG	9.34	2.02	PCIG	U	27/04/2004	38109.65417	8.33	2.78	PCIG	1.39	PCIG	1	6.4	1.7	G	PCIG	PR
3100-0000-179-C-4C-02	MSR#04-1223	11637006	328843	14762-75-5	Carbon-14	TRG 5	ULSC	LSC	REG	-0.19	0.318	PCIG	U	27/04/2004	38079.67361	8.00	0.55	PCIG	0.269	PCIG	1	6.4	3.01	G	PCIG	PR
3100-0000-179-C-4C-02	MSR#04-1223	11637006	328906	10045-97-3	Cesium-137	TRG 8	UHASL300	HASL300	REG	0.0821	0.0526	PCIG	U	27/04/2004	38111.87847	10.54	0.0557	PCIG	0.0263	PCIG	1	6.4	1.7	G	PCIG	PR
3100-0000-179-C-4C-02	MSR#04-1223	11637006	328906	10198-40-0	Cobalt-60	TRG 8	UHASL300	HASL300	REG	0	0.0609	PCIG	U	27/04/2004	38111.87847	10.54	0.0858	PCIG	0.0398	PCIG	1	6.4	1.7	G	PCIG	PR
3100-0000-179-C-4C-02	MSR#04-1223	11637006	328906	13966-00-2	Potassium-40	TRG 8	UHASL300	HASL300	REG	7.18	1.15	PCIG	U	27/04/2004	38111.87847	10.54	0.619	PCIG	0.279	PCIG	1	6.4	1.7	G	PCIG	PR
3100-0000-179-C-4C-02	MSR#04-1223	11637006	328906	13966-31-9	Manganese-54	TRG 8	UHASL300	HASL300	REG	0.011	0.0393	PCIG	U	27/04/2004	38111.87847	10.54	0.0648	PCIG	0.0304	PCIG	1	6.4	1.7	G	PCIG	PR
3100-0000-179-C-4C-02	MSR#04-1223	11637006	328906	13967-70-9	Cesium-134	TRG 8	UHASL300	HASL300	REG	0.0307	0.0391	PCIG	U	27/04/2004	38111.87847	10.54	0.067	PCIG	0.0315	PCIG	1	6.4	1.7	G	PCIG	PR
3100-0000-179-C-4C-02	MSR#04-1223	11637006	328906	14331-83-0	Radium-226	TRG 8	UHASL300	HASL300	REG	0.485	0.27	PCIG	U	27/04/2004	38111.87847	10.54	0.117	PCIG	0.0558	PCIG	1	6.4	1.7	G	PCIG	PR
3100-0000-179-C-4C-02	MSR#04-1223	11637006	328906	14331-83-0	Actinium-228	TRG 8	UHASL300	HASL300	REG	0.41	0.286	PCIG	U	27/04/2004	38111.87847	10.54	0.227	PCIG	0.106	PCIG	1	6.4	1.7	G	PCIG	PR
3100-0000-179-C-4C-02	MSR#04-1223	11637006	328906	14391-16-3	Europium-155	TRG 8	UHASL300	HASL300	REG	0.0584	0.0803	PCIG	U	27/04/2004	38111.87847	10.54	0.122	PCIG	0.0587	PCIG	1	6.4	1.7	G	PCIG	PR
3100-0000-179-C-4C-02	MSR#04-1223	11637006	328906	14391-65-2	Silver-108m	TRG 8	UHASL300	HASL300	REG	-0.00831	0.0275	PCIG	U	27/04/2004	38111.87847	10.54	0.0434	PCIG	0.0206	PCIG	1	6.4	1.7	G	PCIG	PR
3100-0000-179-C-4C-02	MSR#04-1223	11637006	328906	14596-10-2	Americium-241	TRG 8	UHASL300	HASL300	REG	0.0326	0.186	PCIG	U	27/04/2004	38111.87847	10.54	0.245	PCIG	0.119	PCIG	1	6.4	1.7	G	PCIG	PR
3100-0000-179-C-4C-02	MSR#04-1223	11637006	328906	14681-63-1	Niobium-94	TRG 8	UHASL300	HASL300	REG	-0.0158	0.0323	PCIG	U	27/04/2004	38111.87847	10.54	0.0501	PCIG	0.0236	PCIG	1	6.4	1.7	G	PCIG	PR
3100-0000-179-C-4C-02	MSR#04-1223	11637006	328906	14683-23-9	Europium-152	TRG 8	UHASL300	HASL300	REG	-0.0682	0.0797	PCIG	U	27/04/2004	38111.87847	10.54	0.122	PCIG	0.0583	PCIG	1	6.4	1.7	G	PCIG	PR
3100-0000-179-C-4C-02	MSR#04-1223	11637006	328906	14733-03-0	Bismuth-214	TRG 8	UHASL300	HASL300	REG	0.485	0.162	PCIG	U	27/04/2004	38111.87847	10.54	0.0338	PCIG	0.00918	PCIG	1	5.4	1.6	G	PCIG	PR
3100-0000-179-C-4C-02	MSR#04-1223	11637006	328906	14913-49-6	Bismuth-212	TRG 8	UHASL300	HASL300	REG	0.0259	0.528	PCIG	U	27/04/2004	38111.87847	10.54	0.484	PCIG	0.2239	PCIG	1	6.4	1.7	G	PCIG	PR
3100-0000-179-C-4C-02	MSR#04-1223	11637006	328906	14913-50-9	Thallium-208	TRG 8	UHASL300	HASL300	REG	0.197	0.0623	PCIG	U	27/04/2004	38111.87847	10.54	0.0548	PCIG	0.0259	PCIG	1	6.4	1.7	G	PCIG	PR
3100-0000-179-C-4C-02	MSR#04-1223	11637006	328906	15067-28-4	Lead-214	TRG 8	UHASL300	HASL300	REG	0.445	0.136	PCIG	U	27/04/2004	38111.87847	10.54	0.0923	PCIG	0.0442	PCIG	1	6.4	1.7	G	PCIG	PR
3100-0000-179-C-4C-02	MSR#04-1223	11637006	328906	15092-94-1	Lead-212	TRG 8	UHASL300	HASL300	REG	0.596	0.0976	PCIG	U	27/04/2004	38111.87847	10.54	0.0631	PCIG	0.0303	PCIG	1	6.4	1.7	G	PCIG	PR
3100-0000-179-C-4C-02	MSR#04-1223	11637006	328906	15585-10-1	Europium-154	TRG 8	UHASL300	HASL300	REG	-0.0524	0.119	PCIG	U	27/04/2004	38111.87847	10.54	0.195	PCIG	0.0893	PCIG	1	6.4	1.7	G	PCIG	PR
3100-0000-179-C-4C-01	MSR#04-1223	11637007	328553	10098-97-2	Srortium-90	TRG 45	UE905M	E905M	REG	0.00506	0.0077	PCIG	U	28/04/2004	38111.29514	5.21	0.0133	PCIG	0.0065	PCIG	1	5.4	8.57	G	PCIG	PR
3100-0000-179-C-4C-01	MSR#04-1223	11637007	328693	14596-10-2	Americium-241	TRG 1	UAM05RCM	AM05RCM	REG	0.00068	0.0162	PCIG	U	28/04/2004	38111.29444	13.31	0.0338	PCIG	0.00918	PCIG	1	5.4	1.6	G	PCIG	PR
3100-0000-179-C-4C-01	MSR#04-1223	11637007	328693	OER-100-93	Curium-242	TRG 1	UAM05RCM	AM05RCM	REG	-0.0016	0.00313	PCIG	U	28/04/2004	38111.29444	13.31	0.0332	PCIG	0.00756	PCIG	1	5.4	1.6	G	PCIG	PR
3100-0000-179-C-4C-01	MSR#04-1223	11637007	328693	OER-101-57	Curium-243/244	TRG 1	UAM05RCM	AM05RCM	REG	0.013	0.0199	PCIG	U	28/04/2004	38111.29444	13.31	0.038	PCIG	0.0113	PCIG	1	5.4	1.6	G	PCIG	PR
3100-0000-179-C-4C-01	MSR#04-1223	11637007	328694	13981-16-3	Plutonium-238	TRG 32	UPU11RCM	PU11RCM	REG	-0.0135	0.00798	PCIG	U	28/04/2004	38111.29375	10.37	0.0332	PCIG	0.0133	PCIG	1	5.4	1.6	G	PCIG	PR
3100-0000-179-C-4C-01	MSR#04-1223	11637007	328694	OER-100-70	Plutonium-239/240	TRG 32	UPU11RCM	PU11RCM	REG	0.00356	0.0124	PCIG	U	28/04/2004	38111.29375</											

3100-0000-175-C-4C-02	MSR# 04-1223	11637008	32890614913-50-9	Thallium-208	TRG 8	UHASL300	HASL300	REG	0.154	0.0658	PCIGU	0	27/04/2004	3811187847	11:09	0.0482	PCIGU	0.0231	PCIGU	1	5.4	19	G	PCIGU	PR
3100-0000-175-C-4C-02	MSR# 04-1223	11637008	32890615067-28-4	Lead-214	TRG 8	UHASL300	HASL300	REG	0.485	0.141	PCIGU	0	27/04/2004	3811187847	11:09	0.0832	PCIGU	0.0402	PCIGU	1	5.4	19	G	PCIGU	PR
3100-0000-175-C-4C-02	MSR# 04-1223	11637008	32890615092-94-1	Lead-212	TRG 8	UHASL300	HASL300	REG	0.551	0.0978	PCIGU	0	27/04/2004	3811187847	11:09	0.0653	PCIGU	0.0317	PCIGU	1	5.4	19	G	PCIGU	PR
3100-0000-175-C-4C-02	MSR# 04-1223	11637008	32890615585-10-1	Europium-154	TRG 8	UHASL300	HASL300	REG	-0.038	0.113	PCIGU	0	27/04/2004	3811187847	11:09	0.163	PCIGU	0.0764	PCIGU	1	5.4	19	G	PCIGU	PR
3100-0000-179-C-9C-01	MSR# 04-1223	11637009	32855310098-97-2	Strontium-90	TRG 45	UE905M	E905M	REG	0.0064	0.0071	PCIGU	0	28/04/2004	3811129514	6:54	0.0163	PCIGU	0.0065	PCIGU	1	4.2	8.61	G	PCIGU	PR
3100-0000-179-C-9C-01	MSR# 04-1223	11637009	32881510028-17-8	Tritium	TRG 20	UE906.0	E906.0	REG	1.7	1.85	PCIGU	0	27/04/2004	3810965417	10:05	2.98	PCIGU	1.49	PCIGU	1	4.2	15.4	G	PCIGU	PR
3100-0000-179-C-9C-01	MSR# 04-1223	11637009	32890610045-97-3	Cesium-137	TRG 8	UHASL300	HASL300	REG	0.0245	0.0455	PCIGU	0	27/04/2004	3811187847	11:19	0.0757	PCIGU	0.0357	PCIGU	1	4.2	15.4	G	PCIGU	PR
3100-0000-179-C-9C-01	MSR# 04-1223	11637009	32890610198-40-0	Cobalt-60	TRG 8	UHASL300	HASL300	REG	0.0117	0.0622	PCIGU	0	27/04/2004	3811187847	11:19	0.0955	PCIGU	0.0437	PCIGU	1	4.2	15.4	G	PCIGU	PR
3100-0000-179-C-9C-01	MSR# 04-1223	11637009	32890613966-00-2	Potassium-40	TRG 8	UHASL300	HASL300	REG	6.66	1.55	PCIGU	0	27/04/2004	3811187847	11:19	0.845	PCIGU	0.382	PCIGU	1	4.2	15.4	G	PCIGU	PR
3100-0000-179-C-9C-01	MSR# 04-1223	11637009	32890613966-31-9	Manganese-54	TRG 8	UHASL300	HASL300	REG	0.0317	0.0444	PCIGU	0	27/04/2004	3811187847	11:19	0.0793	PCIGU	0.0371	PCIGU	1	4.2	15.4	G	PCIGU	PR
3100-0000-179-C-9C-01	MSR# 04-1223	11637009	32890613967-70-9	Cesium-134	TRG 8	UHASL300	HASL300	REG	0.0763	0.0726	PCIGU	0	27/04/2004	3811187847	11:19	0.092	PCIGU	0.0433	PCIGU	1	4.2	15.4	G	PCIGU	PR
3100-0000-179-C-9C-01	MSR# 04-1223	11637009	32890614733-03-0	Bismuth-214	TRG 8	UHASL300	HASL300	REG	0.443	0.237	PCIGU	0	27/04/2004	3811187847	11:19	0.127	PCIGU	0.0597	PCIGU	1	4.2	15.4	G	PCIGU	PR
3100-0000-179-C-9C-01	MSR# 04-1223	11637009	32890614331-83-0	Actinium-228	TRG 8	UHASL300	HASL300	REG	0	0.389	PCIGU	0	27/04/2004	3811187847	11:19	0.402	PCIGU	0.181	PCIGU	1	4.2	15.4	G	PCIGU	PR
3100-0000-179-C-9C-01	MSR# 04-1223	11637009	32890614391-16-3	Europium-155	TRG 8	UHASL300	HASL300	REG	0.0901	0.117	PCIGU	0	27/04/2004	3811187847	11:19	0.172	PCIGU	0.0832	PCIGU	1	4.2	15.4	G	PCIGU	PR
3100-0000-179-C-9C-01	MSR# 04-1223	11637009	32890614391-65-2	Silver-108m	TRG 8	UHASL300	HASL300	REG	-0.00628	0.0374	PCIGU	0	27/04/2004	3811187847	11:19	0.0588	PCIGU	0.0279	PCIGU	1	4.2	15.4	G	PCIGU	PR
3100-0000-179-C-9C-01	MSR# 04-1223	11637009	32890614596-10-2	Americium-241	TRG 8	UHASL300	HASL300	REG	0.106	0.328	PCIGU	0	27/04/2004	3811187847	11:19	0.334	PCIGU	0.161	PCIGU	1	4.2	15.4	G	PCIGU	PR
3100-0000-179-C-9C-01	MSR# 04-1223	11637009	32890614681-63-1	Niobium-94	TRG 8	UHASL300	HASL300	REG	0.00711	0.0426	PCIGU	0	27/04/2004	3811187847	11:19	0.0689	PCIGU	0.0325	PCIGU	1	4.2	15.4	G	PCIGU	PR
3100-0000-179-C-9C-01	MSR# 04-1223	11637009	32890614683-23-9	Europium-152	TRG 8	UHASL300	HASL300	REG	0.0836	0.125	PCIGU	0	27/04/2004	3811187847	11:19	0.182	PCIGU	0.0871	PCIGU	1	4.2	15.4	G	PCIGU	PR
3100-0000-179-C-9C-01	MSR# 04-1223	11637009	32890614733-03-0	Bismuth-214	TRG 8	UHASL300	HASL300	REG	0.443	0.237	PCIGU	0	27/04/2004	3811187847	11:19	0.127	PCIGU	0.0597	PCIGU	1	4.2	15.4	G	PCIGU	PR
3100-0000-179-C-9C-01	MSR# 04-1223	11637009	32890614913-49-6	Bismuth-212	TRG 8	UHASL300	HASL300	REG	0.675	0.479	PCIGU	0	27/04/2004	3811187847	11:19	0.575	PCIGU	0.277	PCIGU	1	4.2	15.4	G	PCIGU	PR
3100-0000-179-C-9C-01	MSR# 04-1223	11637009	32890614913-50-9	Thallium-208	TRG 8	UHASL300	HASL300	REG	0.162	0.0915	PCIGU	0	27/04/2004	3811187847	11:19	0.07	PCIGU	0.033	PCIGU	1	4.2	15.4	G	PCIGU	PR
3100-0000-179-C-9C-01	MSR# 04-1223	11637009	32890615067-28-4	Lead-214	TRG 8	UHASL300	HASL300	REG	0.471	0.177	PCIGU	0	27/04/2004	3811187847	11:19	0.127	PCIGU	0.0606	PCIGU	1	4.2	15.4	G	PCIGU	PR
3100-0000-179-C-9C-01	MSR# 04-1223	11637009	32890615092-94-1	Lead-212	TRG 8	UHASL300	HASL300	REG	0.698	0.165	PCIGU	0	27/04/2004	3811187847	11:19	0.0935	PCIGU	0.045	PCIGU	1	4.2	15.4	G	PCIGU	PR
3100-0000-179-C-9C-01	MSR# 04-1223	11637009	32890615585-10-1	Europium-154	TRG 8	UHASL300	HASL300	REG	-0.14	0.146	PCIGU	0	27/04/2004	3811187847	11:19	0.224	PCIGU	0.101	PCIGU	1	4.2	15.4	G	PCIGU	PR
3100-0000-179-C-12C-01	MSR# 04-1223	11637010	32855310098-97-2	Strontium-90	TRG 45	UE905M	E905M	REG	-0.00077	0.0077	PCIGU	0	28/04/2004	3811129514	6:54	0.0156	PCIGU	0.0075	PCIGU	1	5.6	8.53	G	PCIGU	PR
3100-0000-179-C-12C-01	MSR# 04-1223	11637010	32881510028-17-8	Tritium	TRG 20	UE906.0	E906.0	REG	1.7	1.7	PCIGU	0	27/04/2004	3811129514	6:54	2.75	PCIGU	1.37	PCIGU	1	5.5	19.3	G	PCIGU	PR
3100-0000-179-C-12C-01	MSR# 04-1223	11637010	32890610045-97-3	Cesium-137	TRG 8	UHASL300	HASL300	REG	0.0285	0.0301	PCIGU	0	27/04/2004	3811187847	11:20	0.0514	PCIGU	0.0244	PCIGU	1	5.6	20.4	G	PCIGU	PR
3100-0000-179-C-12C-01	MSR# 04-1223	11637010	32890610198-40-0	Cobalt-60	TRG 8	UHASL300	HASL300	REG	0.00927	0.0366	PCIGU	0	27/04/2004	3811187847	11:20	0.0641	PCIGU	0.0295	PCIGU	1	5.6	20.4	G	PCIGU	PR
3100-0000-179-C-12C-01	MSR# 04-1223	11637010	32890613966-00-2	Potassium-40	TRG 8	UHASL300	HASL300	REG	6.91	1.15	PCIGU	0	27/04/2004	3811187847	11:20	0.57	PCIGU	0.259	PCIGU	1	5.6	20.4	G	PCIGU	PR
3100-0000-179-C-12C-01	MSR# 04-1223	11637010	32890613966-31-9	Manganese-54	TRG 8	UHASL300	HASL300	REG	0.0199	0.0296	PCIGU	0	27/04/2004	3811187847	11:20	0.0506	PCIGU	0.0237	PCIGU	1	5.6	20.4	G	PCIGU	PR
3100-0000-179-C-12C-01	MSR# 04-1223	11637010	32890613967-70-9	Cesium-134	TRG 8	UHASL300	HASL300	REG	-0.00571	0.0352	PCIGU	0	27/04/2004	3811187847	11:20	0.0559	PCIGU	0.0262	PCIGU	1	5.6	20.4	G	PCIGU	PR
3100-0000-179-C-12C-01	MSR# 04-1223	11637010	32890613982-63-3	Radium-226	TRG 8	UHASL300	HASL300	REG	0.287	0.108	PCIGU	0	27/04/2004	3811187847	11:20	0.0758	PCIGU	0.0356	PCIGU	1	5.6	20.4	G	PCIGU	PR
3100-0000-179-C-12C-01	MSR# 04-1223	11637010	32890614331-83-0	Actinium-228	TRG 8	UHASL300	HASL300	REG	0.176	0.175	PCIGU	0	27/04/2004	3811187847	11:20	0.174	PCIGU	0.081	PCIGU	1	5.6	20.4	G	PCIGU	PR
3100-0000-179-C-12C-01	MSR# 04-1223	11637010	32890614391-16-3	Europium-155	TRG 8	UHASL300	HASL300	REG	0.00649	0.0599	PCIGU	0	27/04/2004	3811187847	11:20	0.0888	PCIGU	0.0434	PCIGU	1	5.6	20.4	G	PCIGU	PR
3100-0000-179-C-12C-01	MSR# 04-1223	11637010	32890614391-65-2	Silver-108m	TRG 8	UHASL300	HASL300	REG	0.0137	0.0224	PCIGU	0	27/04/2004	3811187847	11:20	0.0377	PCIGU	0.0179	PCIGU	1	5.6	20.4	G	PCIGU	PR
3100-0000-179-C-12C-01	MSR# 04-1223	11637010	32890614596-10-2	Americium-241	TRG 8	UHASL300	HASL300	REG	0.0846	0.116	PCIGU	0	27/04/2004	3811187847	11:20	0.151	PCIGU	0.0729	PCIGU	1	5.6	20.4	G	PCIGU	PR
3100-0000-179-C-12C-01	MSR# 04-1223	11637010	32890614681-63-1	Niobium-94	TRG 8	UHASL300	HASL300	REG	0.0176	0.0276	PCIGU	0	27/04/2004	3811187847	11:20	0.0464	PCIGU	0.0219	PCIGU	1	5.6	20.4	G	PCIGU	PR
3100-0000-179-C-12C-01	MSR# 04-1223	11637010	32890614683-23-9	Europium-152	TRG 8	UHASL300	HASL300	REG	-0.00768	0.0649	PCIGU	0	27/04/2004	3811187847	11:20	0.0675	PCIGU	0.0464	PCIGU	1	5.6	20.4	G	PCIGU	PR
3100-0000-179-C-12C-01	MSR# 04-1223	11637010	32890614733-03-0	Bismuth-214	TRG 8	UHASL300	HASL300	REG	0	0.108	PCIGU	0	27/04/2004	3811187847	11:20	0.14	PCIGU	0.0675	PCIGU	1	5.6	20.4	G	PCIGU	PR
3100-0000-179-C-12C-01	MSR# 04-1223	11637010	32890614913-49-6	Bismuth-212	TRG 8	UHASL300	HASL300	REG	0.215	0.173	PCIGU	0	27/04/2004	3811187847	11:20	0.386	PCIGU	0.188	PCIGU	1	5.6	20.4	G		

3100-0000-175-C-10C-01	MSR# 04-1223	11637013	328906	13966-00-2	Potassium-40	TRG 8	UHASL300	HASL300	REG	6.49	1.09	PCIG	0	27/04/2004	38111.87917	9.42	0.539	PCIG	0.241	PCIG	1	4.8	20.1	G	PCIG	PR
3100-0000-175-C-10C-01	MSR# 04-1223	11637013	328906	13966-31-9	Manganese-54	TRG 8	UHASL300	HASL300	REG	-0.0079	0.0301	PCIG	0	27/04/2004	38111.87917	9.42	0.0492	PCIG	0.0228	PCIG	1	4.9	20.1	G	PCIG	PR
3100-0000-175-C-10C-01	MSR# 04-1223	11637013	328906	13967-13-8	Cesium-137	TRG 8	UHASL300	HASL300	REG	0.0623	0.0623	PCIG	0	27/04/2004	38111.87917	9.42	0.0623	PCIG	0.0623	PCIG	1	4.9	20.1	G	PCIG	PR
3100-0000-175-C-10C-01	MSR# 04-1223	11637013	328906	13992-63-3	Radium-226	TRG 8	UHASL300	HASL300	REG	0.408	0.149	PCIG	0	27/04/2004	38111.87917	9.42	0.0855	PCIG	0.0402	PCIG	1	4.9	20.1	G	PCIG	PR
3100-0000-175-C-10C-01	MSR# 04-1223	11637013	328906	14331-83-0	Actinium-228	TRG 8	UHASL300	HASL300	REG	0.462	0.269	PCIG	0	27/04/2004	38111.87917	9.42	0.204	PCIG	0.0953	PCIG	1	4.9	20.1	G	PCIG	PR
3100-0000-175-C-10C-01	MSR# 04-1223	11637013	328906	14391-16-3	Europium-155	TRG 8	UHASL300	HASL300	REG	-0.00875	0.0668	PCIG	0	27/04/2004	38111.87917	9.42	0.1	PCIG	0.0483	PCIG	1	4.9	20.1	G	PCIG	PR
3100-0000-175-C-10C-01	MSR# 04-1223	11637013	328906	14391-65-2	Silver-108m	TRG 8	UHASL300	HASL300	REG	0.00345	0.0263	PCIG	0	27/04/2004	38111.87917	9.42	0.0408	PCIG	0.0184	PCIG	1	4.9	20.1	G	PCIG	PR
3100-0000-175-C-10C-01	MSR# 04-1223	11637013	328906	14596-10-2	Americium-241	TRG 8	UHASL300	HASL300	REG	-0.0227	0.0918	PCIG	0	27/04/2004	38111.87917	9.42	0.136	PCIG	0.0655	PCIG	1	4.9	20.1	G	PCIG	PR
3100-0000-175-C-10C-01	MSR# 04-1223	11637013	328906	14681-63-1	Niobium-94	TRG 8	UHASL300	HASL300	REG	0.0016	0.0288	PCIG	0	27/04/2004	38111.87917	9.42	0.0478	PCIG	0.0225	PCIG	1	4.9	20.1	G	PCIG	PR
3100-0000-175-C-10C-01	MSR# 04-1223	11637013	328906	14683-23-9	Europium-152	TRG 8	UHASL300	HASL300	REG	0.0458	0.0725	PCIG	0	27/04/2004	38111.87917	9.42	0.115	PCIG	0.0551	PCIG	1	4.9	20.1	G	PCIG	PR
3100-0000-175-C-10C-01	MSR# 04-1223	11637013	328906	14733-03-0	Bismuth-214	TRG 8	UHASL300	HASL300	REG	0.408	0.149	PCIG	0	27/04/2004	38111.87917	9.42	0.0855	PCIG	0.0402	PCIG	1	4.9	20.1	G	PCIG	PR
3100-0000-175-C-10C-01	MSR# 04-1223	11637013	328906	14913-49-6	Bismuth-212	TRG 8	UHASL300	HASL300	REG	0.321	0.356	PCIG	0	27/04/2004	38111.87917	9.42	0.375	PCIG	0.175	PCIG	1	4.9	20.1	G	PCIG	PR
3100-0000-175-C-10C-01	MSR# 04-1223	11637013	328906	14913-50-9	Thallium-208	TRG 8	UHASL300	HASL300	REG	0.171	0.0625	PCIG	0	27/04/2004	38111.87917	9.42	0.0486	PCIG	0.0229	PCIG	1	4.9	20.1	G	PCIG	PR
3100-0000-175-C-10C-01	MSR# 04-1223	11637013	328906	15067-28-4	Lead-214	TRG 8	UHASL300	HASL300	REG	0.457	0.131	PCIG	0	27/04/2004	38111.87917	9.42	0.0788	PCIG	0.0381	PCIG	1	4.9	20.1	G	PCIG	PR
3100-0000-175-C-10C-01	MSR# 04-1223	11637013	328906	15092-94-1	Lead-212	TRG 8	UHASL300	HASL300	REG	0.525	0.088	PCIG	0	27/04/2004	38111.87917	9.42	0.0587	PCIG	0.0282	PCIG	1	4.9	20.1	G	PCIG	PR
3100-0000-175-C-10C-01	MSR# 04-1223	11637013	328906	15585-10-1	Europium-154	TRG 8	UHASL300	HASL300	REG	-0.0221	0.101	PCIG	0	27/04/2004	38111.87917	9.42	0.165	PCIG	0.0751	PCIG	1	4.9	20.1	G	PCIG	PR
3100-0000-175-C-10C-01	MSR# 04-1223	11637014	328553	10098-97-2	Sroutium-90	TRG 45	UE905M	E905M	REG	0.0932	0.0121	PCIG	0	28/04/2004	38111.36458	9.53	0.0148	PCIG	0.0071	PCIG	1	6.9	8.4	G	PCIG	PR
3100-0000-175-C-10C-01	MSR# 04-1223	11637014	328815	10028-17-8	Tritium	TRG 20	UE906 0	E906 0	REG	-0.312	1.71	PCIG	0	27/04/2004	38109.65417	12.48	2.89	PCIG	1.45	PCIG	1	6.9	8.4	G	PCIG	PR
3100-0000-175-C-10C-01	MSR# 04-1223	11637014	328906	10045-97-3	Cesium-137	TRG 8	UHASL300	HASL300	REG	-0.00764	0.0393	PCIG	0	27/04/2004	38111.87917	9.43	0.0618	PCIG	0.0293	PCIG	1	6.9	18.2	G	PCIG	PR
3100-0000-175-C-10C-01	MSR# 04-1223	11637014	328906	10198-40-0	Cobalt-60	TRG 8	UHASL300	HASL300	REG	0.16	0.0778	PCIG	0	27/04/2004	38111.87917	9.43	0.0682	PCIG	0.0311	PCIG	1	6.9	18.2	G	PCIG	PR
3100-0000-175-C-10C-01	MSR# 04-1223	11637014	328906	13966-00-2	Potassium-40	TRG 8	UHASL300	HASL300	REG	7.27	1.28	PCIG	0	27/04/2004	38111.87917	9.43	0.647	PCIG	0.293	PCIG	1	6.9	18.2	G	PCIG	PR
3100-0000-175-C-10C-01	MSR# 04-1223	11637014	328906	13966-31-9	Manganese-54	TRG 8	UHASL300	HASL300	REG	-0.192	0.0403	PCIG	0	27/04/2004	38111.87917	9.43	0.0658	PCIG	0.0309	PCIG	1	6.9	18.2	G	PCIG	PR
3100-0000-175-C-10C-01	MSR# 04-1223	11637014	328906	13967-70-9	Cesium-134	TRG 8	UHASL300	HASL300	REG	0.0401	0.0441	PCIG	0	27/04/2004	38111.87917	9.43	0.073	PCIG	0.0355	PCIG	1	6.9	18.2	G	PCIG	PR
3100-0000-175-C-10C-01	MSR# 04-1223	11637014	328906	13962-63-3	Radium-226	TRG 8	UHASL300	HASL300	REG	0.292	0.174	PCIG	0	27/04/2004	38111.87917	9.43	0.115	PCIG	0.0547	PCIG	1	6.9	18.2	G	PCIG	PR
3100-0000-175-C-10C-01	MSR# 04-1223	11637014	328906	14331-83-0	Actinium-228	TRG 8	UHASL300	HASL300	REG	0.408	0.149	PCIG	0	27/04/2004	38111.87917	9.43	0.308	PCIG	0.147	PCIG	1	6.9	18.2	G	PCIG	PR
3100-0000-175-C-10C-01	MSR# 04-1223	11637014	328906	14391-16-3	Europium-155	TRG 8	UHASL300	HASL300	REG	0.0026	0.0864	PCIG	0	27/04/2004	38111.87917	9.43	0.125	PCIG	0.0605	PCIG	1	6.9	18.2	G	PCIG	PR
3100-0000-175-C-10C-01	MSR# 04-1223	11637014	328906	14391-65-2	Silver-108m	TRG 8	UHASL300	HASL300	REG	-0.0198	0.0306	PCIG	0	27/04/2004	38111.87917	9.43	0.0469	PCIG	0.0223	PCIG	1	6.9	18.2	G	PCIG	PR
3100-0000-175-C-10C-01	MSR# 04-1223	11637014	328906	14596-10-2	Americium-241	TRG 8	UHASL300	HASL300	REG	0.107	0.119	PCIG	0	27/04/2004	38111.87917	9.43	0.174	PCIG	0.0846	PCIG	1	6.9	18.2	G	PCIG	PR
3100-0000-175-C-10C-01	MSR# 04-1223	11637014	328906	14681-63-1	Niobium-94	TRG 8	UHASL300	HASL300	REG	0.0324	0.0427	PCIG	0	27/04/2004	38111.87917	9.43	0.0629	PCIG	0.03	PCIG	1	6.9	18.2	G	PCIG	PR
3100-0000-175-C-10C-01	MSR# 04-1223	11637014	328906	14683-23-9	Europium-152	TRG 8	UHASL300	HASL300	REG	0.0228	0.0893	PCIG	0	27/04/2004	38111.87917	9.43	0.143	PCIG	0.0687	PCIG	1	6.9	18.2	G	PCIG	PR
3100-0000-175-C-10C-01	MSR# 04-1223	11637014	328906	14733-03-0	Bismuth-214	TRG 8	UHASL300	HASL300	REG	0	0.174	PCIG	0	27/04/2004	38111.87917	9.43	0.174	PCIG	0.0842	PCIG	1	6.9	18.2	G	PCIG	PR
3100-0000-175-C-10C-01	MSR# 04-1223	11637014	328906	14913-49-6	Bismuth-212	TRG 8	UHASL300	HASL300	REG	0.189	0.0911	PCIG	0	27/04/2004	38111.87917	9.43	0.448	PCIG	0.261	PCIG	1	6.9	18.2	G	PCIG	PR
3100-0000-175-C-10C-01	MSR# 04-1223	11637014	328906	14913-50-9	Thallium-208	TRG 8	UHASL300	HASL300	REG	0.189	0.0911	PCIG	0	27/04/2004	38111.87917	9.43	0.0552	PCIG	0.0261	PCIG	1	6.9	18.2	G	PCIG	PR
3100-0000-175-C-10C-01	MSR# 04-1223	11637014	328906	15067-28-4	Lead-214	TRG 8	UHASL300	HASL300	REG	0.334	0.124	PCIG	0	27/04/2004	38111.87917	9.43	0.103	PCIG	0.0495	PCIG	1	6.9	18.2	G	PCIG	PR
3100-0000-175-C-10C-01	MSR# 04-1223	11637014	328906	15092-94-1	Lead-212	TRG 8	UHASL300	HASL300	REG	0.365	0.1	PCIG	0	27/04/2004	38111.87917	9.43	0.0738	PCIG	0.0356	PCIG	1	6.9	18.2	G	PCIG	PR
3100-0000-175-C-10C-01	MSR# 04-1223	11637014	328906	15585-10-1	Europium-154	TRG 8	UHASL300	HASL300	REG	-0.0123	0.139	PCIG	0	27/04/2004	38111.87917	9.43	0.204	PCIG	0.0937	PCIG	1	6.9	18.2	G	PCIG	PR
3100-0000-175-C-20C-01	MSR# 04-1223	11637015	328553	10098-97-2	Sroutium-90	TRG 45	UE905M	E905M	REG	0.0277	0.0072	PCIG	0	28/04/2004	38111.36458	9.03	0.0113	PCIG	0.0054	PCIG	1	7.6	8.4	G	PCIG	PR
3100-0000-175-C-20C-01	MSR# 04-1223	11637015	328815	10028-17-8	Tritium	TRG 20	UE906 0	E906 0	REG	-1	1.62	PCIG	0	27/04/2004	38109.65417	1.20	2.79	PCIG	1.39	PCIG	1	7.6	8.4	G	PCIG	PR
3100-0000-175-C-20C-01	MSR# 04-1223	11637015	328906	10045-97-3	Cesium-137	TRG 8	UHASL300	HASL300	REG	0.0453	0.0453	PCIG	0	27/04/2004	38111.87917	9.44	0.054	PCIG	0.0276	PCIG	1	7.6	20.5	G	PCIG	PR
3100-0000-175-C-20C-01	MSR# 04-1223	11637015	328906	10198-40-0	Cobalt-60	TRG 8	UHASL300	HASL300	REG	0.0257	0.0363	PCIG	0</													

3101-0000-175-B-21B-01	MSR# 04-1223	116637017	328906	14681-63-1	Niobium-94	TRG 8	UHASL300	HASL300	REG	-0.0141	0.0328	PCV/G	0/U	27/04/2004	38111.87917	9.46	0.0623	PCV/G	0.0247	PCV/G	1	0.49	21.9	G	PCV/G	PR	
3101-0000-175-B-21B-01	MSR# 04-1223	116637017	328906	14683-23-9	Europium-152	TRG 8	UHASL300	HASL300	REG	-0.0428	0.11	PCV/G	0/U	27/04/2004	38111.87917	9.46	0.146	PCV/G	0.0702	PCV/G	1	0.49	21.9	G	PCV/G	PR	
3101-0000-175-B-21B-01	MSR# 04-1223	116637017	328906	14733-03-0	Bismuth-214	TRG 8	UHASL300	HASL300	REG	0.0661	0.13	PCV/G	0/U	27/04/2004	38111.87917	9.46	0.172	PCV/G	0.0533	PCV/G	1	0.49	21.9	G	PCV/G	PR	
3101-0000-175-B-21B-01	MSR# 04-1223	116637017	328906	14913-50-9	Bismuth-212	TRG 8	UHASL300	HASL300	REG	0.0177	0.0788	PCV/G	0/U	27/04/2004	38111.87917	9.46	0.0472	PCV/G	0.0223	PCV/G	1	0.49	21.9	G	PCV/G	PR	
3101-0000-175-B-21B-01	MSR# 04-1223	116637017	328906	14913-50-9	Thallium-208	TRG 8	UHASL300	HASL300	REG	0.111	0.0768	PCV/G	0/U	27/04/2004	38111.87917	9.46	0.0548	PCV/G	0.0258	PCV/G	1	0.49	21.9	G	PCV/G	PR	
3101-0000-175-B-21B-01	MSR# 04-1223	116637017	328906	15067-28-4	Lead-214	TRG 8	UHASL300	HASL300	REG	0.131	0.14	PCV/G	0/U	27/04/2004	38111.87917	9.46	0.108	PCV/G	0.0518	PCV/G	1	0.49	21.9	G	PCV/G	PR	
3101-0000-175-B-21B-01	MSR# 04-1223	116637017	328906	15092-94-1	Lead-212	TRG 8	UHASL300	HASL300	REG	0.138	0.0637	PCV/G	0/U	27/04/2004	38111.87917	9.46	0.0824	PCV/G	0.0398	PCV/G	1	0.49	21.9	G	PCV/G	PR	
3101-0000-175-B-21B-01	MSR# 04-1223	116637017	328906	15585-10-1	Europium-154	TRG 8	UHASL300	HASL300	REG	0.0175	0.106	PCV/G	0/U	27/04/2004	38111.87917	9.46	0.18	PCV/G	0.0868	PCV/G	1	0.49	21.9	G	PCV/G	PR	
3101-0000-175-B-21B-01	MSR# 04-1223	116637018	328553	10098-97-2	Strontium-90	TRG 45	UE905M	E905M	REG	0.0144	0.0066	PCV/G	0/U	28/04/2004	38111.36458	9.03	0.0113	PCV/G	0.0054	PCV/G	1	0.1	8.03	G	PCV/G	PR	
3101-0000-175-B-21B-01	MSR# 04-1223	116637018	328553	10028-17-8	Thulium	TRG 20	UE906 U	E906 U	REG	0.759	1.73	PCV/G	0/U	27/04/2004	38108.65417	2.57	2.97	PCV/G	1.48	PCV/G	1	0.1	29.6	G	PCV/G	PR	
3101-0000-175-B-21B-01	MSR# 04-1223	116637018	328906	10045-97-3	Cesium-137	TRG 8	UHASL300	HASL300	REG	0.0145	0.0188	PCV/G	0/U	27/04/2004	38111.87917	9.47	0.033	PCV/G	0.0153	PCV/G	1	0.1	29.6	G	PCV/G	PR	
3101-0000-175-B-21B-01	MSR# 04-1223	116637018	328906	10198-40-0	Cobalt-60	TRG 8	UHASL300	HASL300	REG	-0.0171	0.0208	PCV/G	0/U	27/04/2004	38111.87917	9.47	0.033	PCV/G	0.0153	PCV/G	1	0.1	29.6	G	PCV/G	PR	
3101-0000-175-B-21B-01	MSR# 04-1223	116637018	328906	13966-00-2	Potassium-40	TRG 8	UHASL300	HASL300	REG	2.53	0.62	PCV/G	0/U	27/04/2004	38111.87917	9.47	0.324	PCV/G	0.151	PCV/G	1	0.1	29.6	G	PCV/G	PR	
3101-0000-175-B-21B-01	MSR# 04-1223	116637018	328906	13966-31-9	Manganese-54	TRG 8	UHASL300	HASL300	REG	0.00184	0.0234	PCV/G	0/U	27/04/2004	38111.87917	9.47	0.037	PCV/G	0.0178	PCV/G	1	0.1	29.6	G	PCV/G	PR	
3101-0000-175-B-21B-01	MSR# 04-1223	116637018	328906	13967-70-9	Cesium-134	TRG 8	UHASL300	HASL300	REG	-0.00447	0.0201	PCV/G	0/U	27/04/2004	38111.87917	9.47	0.0328	PCV/G	0.0154	PCV/G	1	0.1	29.6	G	PCV/G	PR	
3101-0000-175-B-21B-01	MSR# 04-1223	116637018	328906	13982-63-3	Radium-226	TRG 8	UHASL300	HASL300	REG	0.11	0.0698	PCV/G	0/U	27/04/2004	38111.87917	9.47	0.0521	PCV/G	0.025	PCV/G	1	0.1	29.6	G	PCV/G	PR	
3101-0000-175-B-21B-01	MSR# 04-1223	116637018	328906	14331-83-0	Actinium-228	TRG 8	UHASL300	HASL300	REG	0.0614	0.13	PCV/G	0/U	27/04/2004	38111.87917	9.47	0.148	PCV/G	0.0689	PCV/G	1	0.1	29.6	G	PCV/G	PR	
3101-0000-175-B-21B-01	MSR# 04-1223	116637018	328906	14391-16-3	Europium-155	TRG 8	UHASL300	HASL300	REG	0.00592	0.0469	PCV/G	0/U	27/04/2004	38111.87917	9.47	0.0698	PCV/G	0.0338	PCV/G	1	0.1	29.6	G	PCV/G	PR	
3101-0000-175-B-21B-01	MSR# 04-1223	116637018	328906	14391-65-2	Silver-108m	TRG 8	UHASL300	HASL300	REG	0.00653	0.0156	PCV/G	0/U	27/04/2004	38111.87917	9.47	0.0248	PCV/G	0.0118	PCV/G	1	0.1	29.6	G	PCV/G	PR	
3101-0000-175-B-21B-01	MSR# 04-1223	116637018	328906	14596-10-2	Americium-241	TRG 8	UHASL300	HASL300	REG	0.00663	0.0498	PCV/G	0/U	27/04/2004	38111.87917	9.47	0.0754	PCV/G	0.0365	PCV/G	1	0.1	29.6	G	PCV/G	PR	
3101-0000-175-B-21B-01	MSR# 04-1223	116637018	328906	14681-63-1	Niobium-94	TRG 8	UHASL300	HASL300	REG	0.0132	0.0192	PCV/G	0/U	27/04/2004	38111.87917	9.47	0.0285	PCV/G	0.0137	PCV/G	1	0.1	29.6	G	PCV/G	PR	
3101-0000-175-B-21B-01	MSR# 04-1223	116637018	328906	14683-23-9	Europium-152	TRG 8	UHASL300	HASL300	REG	0.0104	0.0448	PCV/G	0/U	27/04/2004	38111.87917	9.47	0.0715	PCV/G	0.0345	PCV/G	1	0.1	29.6	G	PCV/G	PR	
3101-0000-175-B-21B-01	MSR# 04-1223	116637018	328906	14733-03-0	Bismuth-214	TRG 8	UHASL300	HASL300	REG	0.11	0.0988	PCV/G	0/U	27/04/2004	38111.87917	9.47	0.0521	PCV/G	0.025	PCV/G	1	0.1	29.6	G	PCV/G	PR	
3101-0000-175-B-21B-01	MSR# 04-1223	116637018	328906	14913-49-6	Bismuth-212	TRG 8	UHASL300	HASL300	REG	0.0844	0.138	PCV/G	0/U	27/04/2004	38111.87917	9.47	0.237	PCV/G	0.118	PCV/G	1	0.1	29.6	G	PCV/G	PR	
3101-0000-175-B-21B-01	MSR# 04-1223	116637018	328906	14913-50-9	Thallium-208	TRG 8	UHASL300	HASL300	REG	0.918	0.078	PCV/G	0/U	27/04/2004	38111.87917	9.47	0.018	PCV/G	0.018	PCV/G	1	0.1	29.6	G	PCV/G	PR	
3101-0000-175-B-21B-01	MSR# 04-1223	116637018	328906	15067-28-4	Lead-214	TRG 8	UHASL300	HASL300	REG	0.0627	0.067	PCV/G	0/U	27/04/2004	38111.87917	9.47	0.045	PCV/G	0.0314	PCV/G	1	0.1	29.6	G	PCV/G	PR	
3101-0000-175-B-21B-01	MSR# 04-1223	116637018	328906	15092-94-1	Lead-212	TRG 8	UHASL300	HASL300	REG	0.0765	0.047	PCV/G	0/U	27/04/2004	38111.87917	9.47	0.0398	PCV/G	0.0193	PCV/G	1	0.1	29.6	G	PCV/G	PR	
3101-0000-175-B-21B-01	MSR# 04-1223	116637018	328906	15585-10-1	Europium-154	TRG 8	UHASL300	HASL300	REG	-0.0246	0.0584	PCV/G	0/U	27/04/2004	38111.87917	9.47	0.0958	PCV/G	0.0448	PCV/G	1	0.1	29.6	G	PCV/G	PR	
3101-0000-175-B-21B-01	MSR# 04-1223	1200614496	328553	10098-97-2	Strontium-90	TRG U	E905M	LB1	-0.0025	0.005	PCV/G	0/U	5/5/2004	9.03	0.0105	PCV/G	0.005	PCV/G	1	0.1	8.03	G	PCV/G	PR			
3101-0000-175-B-21B-01	MSR# 04-1223	1200614497	328553	10098-97-2	Strontium-90	TRG U	E905M	LR1	0.004	0.0058	PCV/G	0/U	5/5/2004	9.03	0.0113	PCV/G	0.0054	PCV/G	1	0.1	8.03	G	PCV/G	0.01	44	PR	
3101-0000-175-B-21B-01	MSR# 04-1223	1200614498	328553	10098-97-2	Strontium-90	TRG U	E905M	MS1	4.2	2.33	PCV/G	0/U	4/5/2004	4.23	0.0791	PCV/G	0.035	PCV/G	1	0.1	4.03	G	4.12	PCV/G	4.13	PR	
3101-0000-175-B-21B-01	MSR# 04-1223	1200614499	328553	10098-97-2	Strontium-90	TRG U	E905M	BS1	7.7	4.2	PCV/G	0/U	4/5/2004	4.23	0.033	PCV/G	0.013	PCV/G	1	0.1	4.03	G	4.12	PCV/G	4.13	PR	
3101-0000-175-B-21B-01	MSR# 04-1223	1200614764	328693	14596-10-2	Americium-241	TRG U	AM05RCM	LB1	0.00633	0.0178	PCV/G	0/U	4/5/2004	1.31	0.0442	PCV/G	0.0138	PCV/G	1	0.1	1.6	G	1.6	PCV/G	PR		
3101-0000-175-B-21B-01	MSR# 04-1223	1200614764	328693	OER-100-93	Curium-242	TRG U	AM05RCM	LB1	0.0122	0.0122	PCV/G	0/U	4/5/2004	1.31	0.0168	PCV/G	0.0138	PCV/G	1	0.1	1.6	G	1.6	PCV/G	PR		
3101-0000-175-B-21B-01	MSR# 04-1223	1200614764	328693	OER-101-57	Curium-243/244	TRG U	AM05RCM	LB1	0.000243	0.0137	PCV/G	0/U	4/5/2004	1.31	0.0442	PCV/G	0.0138	PCV/G	1	0.1	1.6	G	1.6	PCV/G	PR		
3100-0000-179-C-4C-01	MSR# 04-1223	1200614765	328693	14596-10-2	Americium-241	TRG U	AM05RCM	LR1	0.000454	0.0174	PCV/G	0/U	4/5/2004	1.31	0.0519	PCV/G	0.0183	PCV/G	1	5.6	1.08	G	1.08	PCV/G	-0.0	0716	PR
3100-0000-179-C-4C-01	MSR# 04-1223	1200614765	328693	OER-100-93	Curium-242	TRG U	AM05RCM	LR1	0.0115	0.0184	PCV/G	0/U	4/5/2004	1.31	0.0326	PCV/G	0.00745	PCV/G	1	5.6	1.08	G	1.08	PCV/G	-0.0	0854	PR
3100-0000-179-C-4C-01	MSR# 04-1223	1200614765	328693	OER-101-57	Curium-243/244	TRG U	AM05RCM	LR1	-0.00174	0.0127	PCV/G	0/U	4/5/2004	1.31	0.0444	PCV/G	0.0145	PCV/G	1	5.6	1.08	G	1.08	PCV/G	0.00	396	PR
3100-0000-179-C-4C-01	MSR# 04-1223	1200614766	328693	14596-10-2	Americium-241	TRG U	AM05RCM	MS1	0.00178	0.0178	PCV/G	0/U	4/5/2004	1.31	0.0178	PCV/G	0.0138	PCV/G	1	5.6	1.07	G	1.07	PCV/G	2.50	PR	
3100-0000-179-C-4C-01	MSR#																										

3100-0000-179-C-1C-01	MSR# 04-1223	1200615256	32890614331-83-0	Actinium-228	TRG	U	HASL300	LR1	0.344	0.472	PCI/G	0	U		6/5/2004	9.48	0.499	PCI/G	0.241	PCI/G	1	5	16.5	G	PCI/G	0.40	1	PR
3100-0000-179-C-1C-01	MSR# 04-1223	1200615256	32890614391-16-3	Europium-155	TRG	U	HASL300	LR1	0.0789	0.12	PCI/G	0	U		6/5/2004	9.48	0.179	PCI/G	0.0876	PCI/G	1	5	16.5	G	PCI/G	0.03	44	PR
3100-0000-179-C-1C-01	MSR# 04-1223	1200615256	32890614391-65-2	Silver-108m	TRG	U	HASL300	LR1	-0.0139	0.0749	PCI/G	0	U		6/5/2004	9.48	0.116	PCI/G	0.0568	PCI/G	1	5	16.5	G	PCI/G	0.02	29	PR
3100-0000-179-C-1C-01	MSR# 04-1223	1200615256	32890614596-10-2	Americium-241	TRG	U	HASL300	LR1	0	0.808	PCI/G	0	UUI		6/5/2004	9.48	0.9601	PCI/G	0.0441	PCI/G	1	5	16.5	G	PCI/G	0.03	04	PR
3100-0000-179-C-1C-01	MSR# 04-1223	1200615256	32890614681-63-1	Niobium-94	TRG	U	HASL300	LR1	0.0253	0.0657	PCI/G	0	U		6/5/2004	9.48	0.104	PCI/G	0.0502	PCI/G	1	5	16.5	G	PCI/G	0.03	61	PR
3100-0000-179-C-1C-01	MSR# 04-1223	1200615256	32890614683-23-9	Europium-152	TRG	U	HASL300	LR1	-0.135	0.178	PCI/G	0	U		6/5/2004	9.48	0.275	PCI/G	0.134	PCI/G	1	5	16.5	G	PCI/G	-0.0	517	PR
3100-0000-179-C-1C-01	MSR# 04-1223	1200615256	32890614733-03-0	Bismuth-214	TRG	U	HASL300	LR1	0	0.28	PCI/G	0	UUI		6/5/2004	9.48	0.275	PCI/G	0.134	PCI/G	1	5	16.5	G	PCI/G	0.30	5	PR
3100-0000-179-C-1C-01	MSR# 04-1223	1200615256	32890614913-49-6	Bismuth-212	TRG	U	HASL300	LR1	0.545	0.601	PCI/G	0	U		6/5/2004	9.48	0.963	PCI/G	0.466	PCI/G	1	5	16.5	G	PCI/G	0.49	5	PR
3100-0000-179-C-1C-01	MSR# 04-1223	1200615256	32890614913-50-9	Thallium-208	TRG	U	HASL300	LR1	0.256	0.145	PCI/G	0	U		6/5/2004	9.48	0.116	PCI/G	0.0563	PCI/G	1	5	16.5	G	PCI/G	0.19	6	PR
3100-0000-179-C-1C-01	MSR# 04-1223	1200615256	32890615067-28-4	Lead-214	TRG	U	HASL300	LR1	0.477	0.26	PCI/G	0	U		6/5/2004	9.48	0.201	PCI/G	0.0979	PCI/G	1	5	16.5	G	PCI/G	0.45	7	PR
3100-0000-179-C-1C-01	MSR# 04-1223	1200615256	32890615092-94-1	Lead-212	TRG	U	HASL300	LR1	0.364	0.166	PCI/G	0	U		6/5/2004	9.48	0.145	PCI/G	0.071	PCI/G	1	5	16.5	G	PCI/G	0.35	6	PR
3100-0000-179-C-1C-01	MSR# 04-1223	1200615256	32890615585-10-1	Europium-154	TRG	U	HASL300	LR1	-0.05	0.222	PCI/G	0	U		6/5/2004	9.48	0.356	PCI/G	0.169	PCI/G	1	5	16.5	G	PCI/G	0.06	85	PR
MSR# 04-1223	1200615257	32890610045-97-3	Cesium-137	TRG	U	HASL300	BS1	95	12	PCI/G	0				6/5/2004	9.50	1.18	PCI/G	0.579	PCI/G	1	0	10	G	92	7	PCI/G	PR
MSR# 04-1223	1200615257	32890610198-40-0	Cobalt-60	TRG	U	HASL300	BS1	148	11.9	PCI/G	0				6/5/2004	9.50	1.2	PCI/G	0.572	PCI/G	1	0	10	G	14	6	PCI/G	PR
MSR# 04-1223	1200615257	32890613966-00-2	Potassium-40	TRG	U	HASL300	BS1	7.33	7.84	PCI/G	0	U			6/5/2004	9.50	13.6	PCI/G	6.52	PCI/G	1	0	10	G			PCI/G	PR
MSR# 04-1223	1200615257	32890613966-31-9	Manganese-54	TRG	U	HASL300	BS1	-0.08	0.705	PCI/G	0	U			6/5/2004	9.50	1.11	PCI/G	0.539	PCI/G	1	0	10	G			PCI/G	PR
MSR# 04-1223	1200615257	32890613967-70-9	Cesium-134	TRG	U	HASL300	BS1	-0.25	0.792	PCI/G	0	U			6/5/2004	9.50	1.24	PCI/G	0.6	PCI/G	1	0	10	G			PCI/G	PR
MSR# 04-1223	1200615257	32890613982-63-3	Radium-226	TRG	U	HASL300	BS1	0.712	1.23	PCI/G	0	U			6/5/2004	9.50	1.89	PCI/G	0.966	PCI/G	1	0	10	G			PCI/G	PR
MSR# 04-1223	1200615257	32890614331-83-0	Actinium-228	TRG	U	HASL300	BS1	-0.628	2.96	PCI/G	0	U			6/5/2004	9.50	4.68	PCI/G	2.27	PCI/G	1	0	10	G			PCI/G	PR
MSR# 04-1223	1200615257	32890614391-16-3	Europium-155	TRG	U	HASL300	BS1	-1.05	1.88	PCI/G	0	U			6/5/2004	9.50	2.53	PCI/G	1.24	PCI/G	1	0	10	G			PCI/G	PR
MSR# 04-1223	1200615257	32890614391-65-2	Silver-108m	TRG	U	HASL300	BS1	-0.426	0.678	PCI/G	0	U			6/5/2004	9.50	0.86	PCI/G	0.418	PCI/G	1	0	10	G			PCI/G	PR
MSR# 04-1223	1200615257	32890614596-10-2	Americium-241	TRG	U	HASL300	BS1	246	22.9	PCI/G	0	U			6/5/2004	9.50	5.37	PCI/G	2.64	PCI/G	1	0	10	G	23	4	PCI/G	PR
MSR# 04-1223	1200615257	32890614681-63-1	Niobium-94	TRG	U	HASL300	BS1	0.673	0.66	PCI/G	0	U			6/5/2004	9.50	1.07	PCI/G	0.522	PCI/G	1	0	10	G			PCI/G	PR
MSR# 04-1223	1200615257	32890614683-23-9	Europium-152	TRG	U	HASL300	BS1	0.301	1.51	PCI/G	0	U			6/5/2004	9.50	2.28	PCI/G	1.11	PCI/G	1	0	10	G			PCI/G	PR
MSR# 04-1223	1200615257	32890614733-03-0	Bismuth-214	TRG	U	HASL300	BS1	0.712	1.23	PCI/G	0	U			6/5/2004	9.50	1.89	PCI/G	0.966	PCI/G	1	0	10	G			PCI/G	PR
MSR# 04-1223	1200615257	32890614913-49-6	Bismuth-212	TRG	U	HASL300	BS1	-4.6	5.44	PCI/G	0	U			6/5/2004	9.50	8.3	PCI/G	4.02	PCI/G	1	0	10	G			PCI/G	PR
MSR# 04-1223	1200615257	32890614913-50-9	Thallium-208	TRG	U	HASL300	BS1	0.084	0.65	PCI/G	0	U			6/5/2004	9.50	1.04	PCI/G	0.504	PCI/G	1	0	10	G			PCI/G	PR
MSR# 04-1223	1200615257	32890615067-28-4	Lead-214	TRG	U	HASL300	BS1	0.988	1.11	PCI/G	0	U			6/5/2004	9.50	1.72	PCI/G	0.838	PCI/G	1	0	10	G			PCI/G	PR
MSR# 04-1223	1200615257	32890615092-94-1	Lead-212	TRG	U	HASL300	BS1	0.114	0.851	PCI/G	0	U			6/5/2004	9.50	1.28	PCI/G	0.625	PCI/G	1	0	10	G			PCI/G	PR
MSR# 04-1223	1200615257	32890615585-10-1	Europium-154	TRG	U	HASL300	BS1	-0.592	1.81	PCI/G	0	U			6/5/2004	9.50	2.97	PCI/G	1.41	PCI/G	1	0	10	G			PCI/G	PR

Folder 5
File 6

Table of Contents

General Narrative	1
Chain of Custody and Supporting Documentation	6
Radiological Analysis	23
Sample Data Summary	123
Quality Control Data	302

General Narrative

CASE NARRATIVE
For
CONNECTICUT YANKEE
RE: Metal & Concrete
PO# 002332
Work Order: 157164
SDG: MSR #06-0328

March 13, 2006

Laboratory Identification:

General Engineering Laboratories, LLC

Mailing Address:

P.O. Box 30712
Charleston, South Carolina 29417

Express Mail Delivery and Shipping Address:

2040 Savage Road
Charleston, South Carolina 29407

Telephone Number:

(843) 556-8171

Summary:

Sample receipt

The sample(s) for this Project arrived at General Engineering Laboratories, LLC, (GEL) in Charleston, South Carolina on March 2, 2006. All sample containers arrived without any visible signs of tampering or breakage. The chain of custody contained the proper documentation and signatures.

The laboratory received the following sample(s):

<u>Sample ID</u>	<u>Client Sample ID</u>
157164001	3100-0000-190-C1C-01
157164002	3100-0000-190-C1C-02
157164003	3100-0000-190-C1C-03
157164004	3100-0000-190-C1C-04
157164005	3100-0000-190-RB
157164006	3100-0000-190-C2C-01
157164007	3100-0000-190-C4C-01
157164008	3100-0000-191-C1C-01

Sample ID

157164009
157164010
157164011
157164012
157164013
157164014
157164015
157164016
157164017
157164018
157164019
157164020
157164021
157164022
157164023
157164024
157164025
157164026
157164027
157164028
157164029
157164030
157164031
157164032
157164033
157164034
157164035
157164036
157164037
157164038
157164039
157164040
157164041
157164042
157164043
157164044
157164045
157164046
157164047
157164048
157164049
157164050

Client Sample ID

3100-0000-191-C1C-02
3100-0000-191-C1C-03
3100-0000-191-C1C-04
3100-0000-191-C3C-01
3100-0000-191-C5C-01
3100-0000-192-C1C-01
3100-0000-192-C1C-02
3100-0000-192-C1C-03
3100-0000-192-C1C-04
3100-0000-192-RB
3100-0000-192-C3C-01
3100-0000-192-C5C-01
3100-0000-193-C1C-01
3100-0000-193-C1C-02
3100-0000-193-C1C-03
3100-0000-193-C1C-04
3100-0000-193-C4C-01
3100-0000-193-C5C-01
3100-0000-194-C1C-01
3100-0000-194-C1C-02
3100-0000-194-C1C-03
3100-0000-194-C1C-04
3100-0000-194-C3C-01
3100-0000-194-C4C-01
3100-0000-195-C1C-01
3100-0000-195-C1C-02
3100-0000-195-C1C-03
3100-0000-195-C1C-04
3100-0000-195-C3C-01
3100-0000-195-C4C-01
3100-0000-196-C1C-01
3100-0000-196-C1C-02
3100-0000-196-C1C-03
3100-0000-196-C1C-04
3100-0000-196-C3C-01
3100-0000-196-C5C-01
3100-0000-197-C1C-01
3100-0000-197-C1C-02
3100-0000-197-C1C-03
3100-0000-197-C1C-04
3100-0000-197-C3C-01
3100-0000-197-C4C-01

GENERAL ENGINEERING LABORATORIES, LLC

a Member of THE GEL GROUP, INC.

P.O. Box 30712 • Charleston, SC 29417 • 2040 Savage Road (29407)
Phone (843) 556-8171 • Fa3 (843) 766-1178 • www.gel.com

<u>Sample ID</u>	<u>Client Sample ID</u>
157164051	3100-0000-200-C1C-01
157164052	3100-0000-200-C1C-02
157164053	3100-0000-200-C1C-03
157164054	3100-0000-200-C1C-04
157164055	3100-0000-200-RB
157164056	3100-0000-200-C3C-01
157164057	3100-0000-200-C5C-01
157164058	3100-0000-201-C1C-01
157164059	3100-0000-201-C1C-02
157164060	3100-0000-201-C1C-03
157164061	3100-0000-201-C1C-04
157164062	3100-0000-201-C4C-01
157164063	3100-0000-201-C6C-01
157164064	3100-0000-202-C1C-01
157164065	3100-0000-202-C1C-02
157164066	3100-0000-202-C1C-03
157164067	3100-0000-202-C1C-04
157164068	3100-0000-202-C6C-01
157164069	3100-0000-202-C9C-01
157164070	3100-0000-203-C1C-01
157164071	3100-0000-203-C1C-02
157164072	3100-0000-203-C1C-03
157164073	3100-0000-203-C1C-04
157164074	3100-0000-203-C4C-01
157164075	3100-0000-203-C6C-01

Items of Note:

There are no items of note.

Case Narrative:

Sample analyses were conducted using methodology as outlined in General Engineering Laboratories (GEL) Standard Operating Procedures. Any technical or administrative problems during analysis, data review, and reduction are listed below by analytical parameter.

Analytical Request:

Fourty-eight concrete samples were analyzed for CHGAM, Sr-90, Fe-55, Ni-63 and H-3.
 Twenty-four concrete samples were analyzed for CHALL.
 Three metal samples were analyzed for CHALL.

Internal Chain of Custody:

Custody was maintained for the sample(s).

Data Package:

The enclosed data package contains the following sections: Case Narrative, Chain of Custody and Supporting Documentation and all analytical fractions.

I certify that this data package is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or a designee, as verified by the following signature.

Cheryl Jones
Project Manager

**Chain of Custody
and
Supporting
Documentation**

Connecticut Yankee Atomic Power Company						Chain of Custody Form						No. 2006-00094		
362 Injun Hollow Road, East Hampton, CT 06424 860-267-2556														
Project Name: Haddam Neck Decommissioning			Media Code	Sample Type Code	Container Size- & Type Code	Analyses Requested						Lab Use Only		
Contact Name & Phone: Jack McCarthy 860-267-2556 x 3024						CHGAM	CHALL	FSSHTD	FSSTRU	FSSOTHR	H-3 Fe-55 Sr-90 Ni-63	Comments: Box 4 8544 5163 3697 1571641 / 157128 cal		
Analytical Lab (Name, City, State): General Engineering Laboratories 2040 Savage Road Charleston, SC 29407 ATT: Cheryl Jones (843-556-8171)														
Priority: <input type="checkbox"/> 30 D. <input type="checkbox"/> 14 D. <input checked="" type="checkbox"/> 7 D. Other:														
Sample Designation	Date	Time	Comment, Preservation	Lab Sample ID										
3100-0000-190-C1C-01	2/14/06	1802	CT	CR	BP		X							
3100-0000-190-C1C-02	2/14/06	1802	CT	CR	BP		X							
3100-0000-190-C1C-03	2/14/06	1802	CT	CR	BP	X				X				
3100-0000-190-C1C-04	2/14/06	1802	CT	CR	BP	X				X				
3100-0000-190-RB	2/14/06	1802	ME	CR	BP		X				ME = Metal			
3100-0000-190-C2C-01	2/14/06	1915	CT	CR	BP	X				X				
3100-0000-190-C4C-01	2/14/06	1945	CT	CR	BP	X				X				
NOTES: PO #: 002332 MSR #:06-0328 <input checked="" type="checkbox"/> LTP QA <input type="checkbox"/> Radwaste QA <input type="checkbox"/> Non QA										Samples Shipped Via: <input checked="" type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Hand <input type="checkbox"/> Other		Internal Container Temp.: ____ Deg. C Custody Sealed? Y N Custody Seal Intact? Y N		
1) Relinquished By <i>[Signature]</i>			Date/Time 3/1/06 1350			2) Received By <i>[Signature]</i>			Date/Time 3-2-06 0900			Bill of Lading # 8544 5163 3697		
3) Relinquished By			Date/Time			4) Received By			Date/Time					
5) Relinquished By			Date/Time			6) Received By			Date/Time					

Connecticut Yankee Atomic Power Company

362 Injun Hollow Road, East Hampton, CT 06424
860-267-2556

Chain of Custody Form

No. 2006-00099

Project Name: Haddam Neck Decommissioning			Media Code	Sample Type Code	Container Size & Type Code	Analyses Requested					Lab Use Only			
Contact Name & Phone: Jack McCarthy 860-267-2556 x 3024						CHGAM	CHALL	FSSHTD	FSSTRU	FSSOTHR	H-3 Fe-55 Sr-90 Ni-63	Comments: Box 2		
Analytical Lab (Name, City, State): General Engineering Laboratories 2040 Savage Road Charleston, SC 29407 ATT: Cheryl Jones (843-556-8171)														
Priority: <input type="checkbox"/> 30 D. <input type="checkbox"/> 14 D. <input checked="" type="checkbox"/> 7 D. Other:														
Sample Designation	Date	Time								Comment, Preservation	Lab Sample ID			
3100-0000-191-C1C-01	2/17/06	0912	CT	CR	BP		X							
3100-0000-191-C1C-02	2/17/06	0912	CT	CR	BP		X							
3100-0000-191-C1C-03	2/17/06	0912	CT	CR	BP	X					X			
3100-0000-191-C1C-04	2/17/06	0912	CT	CR	BP	X					X			
3100-0000-191-C3C-01	2/17/06	1004	CT	CR	BP	X					X			
3100-0000-191-C5C-01	2/17/06	1015	CT	CR	BP	X					X			
NOTES: PO #: 002332 MSR #:06-0328 <input checked="" type="checkbox"/> LTP QA <input type="checkbox"/> Radwaste QA <input type="checkbox"/> Non QA										Samples Shipped Via: <input checked="" type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Hand <input type="checkbox"/> Other		Internal Container Temp.: ____ Deg. C Custody Sealed? Y N Custody Seal Intact? Y N		
1) Relinquished By <i>[Signature]</i>			Date/Time 3/1/06 1350		2) Received By <i>[Signature]</i>			Date/Time 3-2-06 0920		8544 5163 3701 Bill of Lading #				
3) Relinquished By			Date/Time		4) Received By			Date/Time						
5) Relinquished By			Date/Time		6) Received By			Date/Time						

8

Connecticut Yankee Atomic Power Company 362 Injun Hollow Road, East Hampton, CT 06424 860-267-2556						Chain of Custody Form						No. 2006-00100	
Project Name: Haddam Neck Decommissioning			Media Code	Sample Type Code	Container Size- & Type Code	Analyses Requested						Lab Use Only	
Contact Name & Phone: Jack McCarthy 860-267-2556 x 3024						CHGAM	CHALL	FSSHTD	FSSTRU	FSSOTHR	H-3 Fe-55 Sr-90 Ni-63	Comments: Box 2	
Analytical Lab (Name, City, State): General Engineering Laboratories 2040 Savage Road Charleston, SC 29407 ATT: Cheryl Jones (843-556-8171)													
Priority: <input type="checkbox"/> 30 D <input type="checkbox"/> 14 D. <input checked="" type="checkbox"/> 7 D. Other:													
Sample Designation	Date	Time									Comment, Preservation	Lab Sample ID	
3100-0000-192-C1C-01	2/16/06	1052	CT	CR	BP		X						
3100-0000-192-C1C-02	2/16/06	1052	CT	CR	BP		X						
3100-0000-192-C1C-03	2/16/06	1052	CT	CR	BP	X				X			
3100-0000-192-C1C-04	2/16/06	1052	CT	CR	BP	X				X			
3100-0000-192-RB	2/16/06	1335	ME	CR	BP		X				ME = Metal		
3100-0000-192-C3C-01	2/16/06	1354	CT	CR	BP	X				X			
3100-0000-192-C5C-01	2/16/06	1414	CT	CR	BP	X				X			
NOTES: PO #: 002332 MSR #06-0328: <input checked="" type="checkbox"/> LTP QA <input type="checkbox"/> Radwaste QA <input type="checkbox"/> Non QA										Samples Shipped Via: <input checked="" type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Hand <input type="checkbox"/> Other		Internal Container Temp.: ____ Deg. C Custody Sealed? Y N Custody Seal Intact? Y N	
1) Relinquished By <i>[Signature]</i> Date/Time 3/1/06 1356			2) Received By <i>[Signature]</i> Date/Time 3-7-06 0920			8544 5163 3701 Bill of Lading #							
3) Relinquished By Date/Time			4) Received By Date/Time										
5) Relinquished By Date/Time			6) Received By Date/Time										

Connecticut Yankee Atomic Power Company

362 Injun Hollow Road, East Hampton, CT 06424
860-267-2556

Chain of Custody Form

No. 2006-00101

Project Name: Haddam Neck Decommissioning			Media Code	Sample Type Code	Container Size- & Type Code	Analyses Requested						Lab Use Only		
Contact Name & Phone: Jack McCarthy 860-267-2556 x 3024						CHGAM	CHALL	FSSHTD	FSSTRU	FSSOTHR	H-3 Fe-55 Sr-90 Ni-63	Comments: Box 2		
Analytical Lab (Name, City, State): General Engineering Laboratories 2040 Savage Road Charleston, SC 29407 ATT: Cheryl Jones (843-556-8171)														
Priority: <input type="checkbox"/> 30 D. <input type="checkbox"/> 14 D. <input checked="" type="checkbox"/> 7 D. Other:														
Sample Designation	Date	Time								Comment, Preservation	Lab Sample ID			
3100-0000-193-C1C-01	2/16/06	0906	CT	CR	BP		X							
3100-0000-193-C1C-02	2/16/06	0906	CT	CR	BP		X							
3100-0000-193-C1C-03	2/16/06	0906	CT	CR	BP	X					X			
3100-0000-193-C1C-04	2/16/06	0906	CT	CR	BP	X					X			
3100-0000-193-C4C-01	2/16/06	0948	CT	CR	BP	X					X			
3100-0000-193-C5C-01	2/16/06	0955	CT	CR	BP	X					X			
NOTES: PO #: 002332 MSR #:06-0328 <input checked="" type="checkbox"/> LTP QA <input type="checkbox"/> Radwaste QA <input type="checkbox"/> Non QA									Samples Shipped Via: <input checked="" type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Hand <input type="checkbox"/> Other		Internal Container Temp.: ___ Deg. C Custody Sealed? Y N Custody Seal Intact? Y N			
1) Relinquished By <i>John J. DeLoatch</i> Date/Time 3/1/06 1350			2) Received By <i>Mike Kamin</i> Date/Time 3-2-06 0930			Bill of Lading # <u>854451633701</u>								
3) Relinquished By Date/Time			4) Received By Date/Time											
5) Relinquished By Date/Time			6) Received By Date/Time											

10

Connecticut Yankee Atomic Power Company						Chain of Custody Form						No. 2006-00102		
362 Injun Hollow Road, East Hampton, CT 06424 860-267-2556														
Project Name: Haddam Neck Decommissioning			Media Code	Sample Type Code	Container Size- & Type Code	Analyses Requested						Lab Use Only		
Contact Name & Phone: Jack McCarthy 860-267-2556 x 3024						CHGAM	CHALL	FSSHTD	FSSTRU	FSSOTHR	H-3 Fe-55 Sr-90 Ni-63	Comments: Box 2		
Analytical Lab (Name, City, State): General Engineering Laboratories 2040 Savage Road Charleston, SC 29407 ATT: Cheryl Jones (843-556-8171)														
Priority: <input type="checkbox"/> 30 D. <input type="checkbox"/> 14 D. <input checked="" type="checkbox"/> 7 D. Other:														
Sample Designation	Date	Time									Comment, Preservation	Lab Sample ID		
3100-0000-194-C1C-01	2/16/06	0940	CT	CR	BP		X							
3100-0000-194-C1C-02	2/16/06	0940	CT	CR	BP		X							
3100-0000-194-C1C-03	2/16/06	0940	CT	CR	BP	X				X				
3100-0000-194-C1C-04	2/16/06	0940	CT	CR	BP	X				X				
3100-0000-194-C3C-01	2/16/06	1005	CT	CR	BP	X				X				
3100-0000-194-C4C-01	2/16/06	1010	CT	CR	BP	X				X				
NOTES: PO #: 002332 MSR #06-0328: <input checked="" type="checkbox"/> LTP QA <input type="checkbox"/> Radwaste QA <input type="checkbox"/> Non QA											Samples Shipped Via: <input checked="" type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Hand <input type="checkbox"/> Other		Internal Container Temp.: ____ Deg. C Custody Sealed? Y N Custody Seal Intact? Y N	
1) Relinquished By: <i>[Signature]</i> Date/Time: 3/1/06 1350			2) Received By: <i>[Signature]</i> Date/Time: 3-2-06 0920			8544 5163 3701 Bill of Lading #								
3) Relinquished By: Date/Time:			4) Received By: Date/Time:											
5) Relinquished By: Date/Time:			6) Received By: Date/Time:											

11

Connecticut Yankee Atomic Power Company 362 Injun Hollow Road, East Hampton, CT 06424 860-267-2556						Chain of Custody Form						No. 2006-00103											
Project Name: Haddam Neck Decommissioning			Media Code	Sample Type Code	Container Size- & Type Code	Analyses Requested						Lab Use Only											
Contact Name & Phone: Jack McCarthy 860-267-2556 x 3024						<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:10%;"></td> <td style="width:10%; text-align: center;">CHGAM</td> <td style="width:10%; text-align: center;">CHALL</td> <td style="width:10%; text-align: center;">FSSHTD</td> <td style="width:10%; text-align: center;">FSSTRU</td> <td style="width:10%; text-align: center;">FSSOTHR</td> <td style="width:10%; text-align: center;">H-3 Fe-55 Sr-90 Ni-63</td> <td colspan="2" style="padding: 5px;">Comments: <i>Box 4</i> <i>8544 5163 3697</i></td> </tr> </table>							CHGAM	CHALL	FSSHTD	FSSTRU	FSSOTHR	H-3 Fe-55 Sr-90 Ni-63	Comments: <i>Box 4</i> <i>8544 5163 3697</i>		Comments: <i>Box 4</i> <i>8544 5163 3697</i>		
	CHGAM	CHALL				FSSHTD	FSSTRU	FSSOTHR	H-3 Fe-55 Sr-90 Ni-63	Comments: <i>Box 4</i> <i>8544 5163 3697</i>													
Analytical Lab (Name, City, State): General Engineering Laboratories 2040 Savage Road Charleston, SC 29407 ATT: Cheryl Jones (843-556-8171)						<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:10%;"></td> <td style="width:10%; text-align: center;">CHGAM</td> <td style="width:10%; text-align: center;">CHALL</td> <td style="width:10%; text-align: center;">FSSHTD</td> <td style="width:10%; text-align: center;">FSSTRU</td> <td style="width:10%; text-align: center;">FSSOTHR</td> <td style="width:10%; text-align: center;">H-3 Fe-55 Sr-90 Ni-63</td> <td colspan="2" style="padding: 5px;"> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:50%; padding: 5px;">Comment, Preservation</th> <th style="width:50%; padding: 5px;">Lab Sample ID</th> </tr> </table> </td> </tr> </table>							CHGAM	CHALL	FSSHTD	FSSTRU	FSSOTHR	H-3 Fe-55 Sr-90 Ni-63	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:50%; padding: 5px;">Comment, Preservation</th> <th style="width:50%; padding: 5px;">Lab Sample ID</th> </tr> </table>		Comment, Preservation	Lab Sample ID	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:50%; padding: 5px;">Comment, Preservation</th> <th style="width:50%; padding: 5px;">Lab Sample ID</th> </tr> </table>
	CHGAM	CHALL	FSSHTD	FSSTRU	FSSOTHR	H-3 Fe-55 Sr-90 Ni-63	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:50%; padding: 5px;">Comment, Preservation</th> <th style="width:50%; padding: 5px;">Lab Sample ID</th> </tr> </table>		Comment, Preservation	Lab Sample ID													
Comment, Preservation	Lab Sample ID																						
Comment, Preservation	Lab Sample ID																						
Priority: <input type="checkbox"/> 30 D. <input type="checkbox"/> 14 D. <input checked="" type="checkbox"/> 7 D. Other:			<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:10%; padding: 5px;">Sample Designation</th> <th style="width:10%; padding: 5px;">Date</th> <th style="width:10%; padding: 5px;">Time</th> <th style="width:10%;"></th> <th style="width:10%;"></th> <th style="width:10%;"></th> <th style="width:10%;"></th> <th style="width:10%;"></th> <th style="width:10%;"></th> <th style="width:10%;"></th> <th style="width:10%;"></th> </tr> </table>						Sample Designation	Date	Time									<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:50%; padding: 5px;">Comment, Preservation</th> <th style="width:50%; padding: 5px;">Lab Sample ID</th> </tr> </table>		Comment, Preservation	Lab Sample ID
Sample Designation	Date	Time																					
Comment, Preservation	Lab Sample ID																						
NS 3100-0000-195-C1C-01			CT	CR	BP		X																
3100-0000-195-C1C-02			CT	CR	BP		X																
3100-0000-195-C1C-03			CT	CR	BP	X					X												
3100-0000-195-C1C-04			CT	CR	BP	X					X												
3100-0000-195-C3C-01			CT	CR	BP	X					X												
3100-0000-195-C4C-01			CT	CR	BP	X					X												
NOTES: PO #: 002332 MSR #06-0328: <input checked="" type="checkbox"/> LTP QA <input type="checkbox"/> Radwaste QA <input type="checkbox"/> Non QA										Samples Shipped Via: <input checked="" type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Hand <input type="checkbox"/> Other		Internal Container Temp.: ____ Deg. C Custody Sealed? Y N Custody Seal Intact? Y N											
1) Relinquished By <i>[Signature]</i>			Date/Time <i>3/1/06 1350</i>		2) Received By <i>[Signature]</i>			Date/Time <i>3-7-06 0920</i>			Bill of Lading # <i>854451633697</i>												
3) Relinquished By			Date/Time		4) Received By			Date/Time															
5) Relinquished By			Date/Time		6) Received By			Date/Time															

Connecticut Yankee Atomic Power Company

Chain of Custody Form

No. 2006-00104

362 Injun Hollow Road, East Hampton, CT 06424
860-267-2556

Project Name: Haddam Neck Decommissioning			Media Code	Sample Type Code	Container Size & Type Code	Analyses Requested					Lab Use Only			
Contact Name & Phone: Jack McCarthy 860-267-2556 x 3024						CHGAM	CHALL	FSSHTD	FSSSTRU	FSSOTHR	H-3 Fe-55 Sr-90 Ni-63	Comments:		
Analytical Lab (Name, City, State): General Engineering Laboratories 2040 Savage Road Charleston, SC 29407 ATT: Cheryl Jones (843-556-8171)												Box 4 8544 5163 3697		
Priority: <input type="checkbox"/> 30 D. <input type="checkbox"/> 14 D. <input checked="" type="checkbox"/> 7 D. Other:														
Sample Designation	Date	Time								Comment, Preservation	Lab Sample ID			
3100-0000-196-C1C-01	2/15/06	1340	CT	CR	BP		X							
3100-0000-196-C1C-02	2/15/06	1340	CT	CR	BP		X							
3100-0000-196-C1C-03	2/15/06	1340	CT	CR	BP	X								
3100-0000-196-C1C-04	2/15/06	1340	CT	CR	BP	X								
3100-0000-196-C3C-01	2/16/06	0805	CT	CR	BP	X								
3100-0000-196-C5C-01	2/16/06	0822	CT	CR	BP	X								
NOTES: PO #: 002332 MSR #: 06-0328 <input checked="" type="checkbox"/> LTP QA <input type="checkbox"/> Radwaste QA <input type="checkbox"/> Non QA									Samples Shipped Via: <input checked="" type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Hand <input type="checkbox"/> Other		Internal Container Temp.: ____ Deg. C Custody Sealed? Y N Custody Seal Intact? Y N			
1) Relinquished By: <i>John J. McCarthy</i>			Date/Time: 3/1/06 1350			2) Received By: <i>Mike Lambert</i>			Date/Time: 3-2-06 0900			8544 5163 3697 Bill of Lading #		
3) Relinquished By			Date/Time			4) Received By			Date/Time					
5) Relinquished By			Date/Time			6) Received By			Date/Time					

13

Connecticut Yankee Atomic Power Company						Chain of Custody Form						No. 2006-00105		
362 Injun Hollow Road, East Hampton, CT 06424 860-267-2556														
Project Name: Haddam Neck Decommissioning			Media Code	Sample Type Code	Container Size- & Type Code	Analyses Requested						Lab Use Only		
Contact Name & Phone: Jack McCarthy 860-267-2556 x 3024						CHGAM	CHALL	FSSHTD	FSSTRU	FSSOTHR	H-3 Fe-55 Sr-90 Ni-63	Comments: Box 4 8544 5163 3697		
Analytical Lab (Name, City, State): General Engineering Laboratories 2040 Savage Road Charleston, SC 29407 ATT: Cheryl Jones (843-556-8171)														
Priority: <input type="checkbox"/> 30 D. <input type="checkbox"/> 14 D. <input checked="" type="checkbox"/> 7 D. Other:														
Sample Designation	Date	Time												
3100-0000-197-C1C-01	2/15/06	0930	CT	CR	BP		X							
3100-0000-197-C1C-02	2/15/06	0930	CT	CR	BP		X							
3100-0000-197-C1C-03	2/15/06	0930	CT	CR	BP	X					X			
3100-0000-197-C1C-04	2/15/06	0942	CT	CR	BP	X					X			
3100-0000-197-C3C-01	2/15/06	1013	CT	CR	BP	X					X			
3100-0000-197-C4C-01	2/15/06	1030	CT	CR	BP	X					X			
NOTES: PO #: 002332 MSR #:06-0328 <input checked="" type="checkbox"/> LTP QA <input type="checkbox"/> Radwaste QA <input type="checkbox"/> Non QA											Samples Shipped Via: <input checked="" type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Hand <input type="checkbox"/> Other		Internal Container Temp.: ____ Deg. C Custody Sealed? Y N Custody Seal Intact? Y N	
1) Relinquished By: <i>John J. [Signature]</i> Date/Time: 3/1/06 1350			2) Received By: <i>[Signature]</i> Date/Time: 3-2-06 0920			8544 5163 3697 Bill of Lading #								
3) Relinquished By: Date/Time:			4) Received By: Date/Time:											
5) Relinquished By: Date/Time:			6) Received By: Date/Time:											

14

Connecticut Yankee Atomic Power Company

362 Injun Hollow Road, East Hampton, CT 06424
860-267-2556

Chain of Custody Form

No. 2006-00109

Project Name: Haddam Neck Decommissioning			Media Code	Sample Type Code	Container Size & Type Code	Analyses Requested						Lab Use Only		
Contact Name & Phone: Jack McCarthy 860-267-2556 x 3024						CHGAM	CHALL	FSSHTD	FSSTRU	FSSOTHR	H-3 Fe-55 Sr-90 Ni-63	Comments: Box 1 8544 5163 3686		
Analytical Lab (Name, City, State): General Engineering Laboratories 2040 Savage Road Charleston, SC 29407 ATT: Cheryl Jones (843-556-8171)														
Priority: <input type="checkbox"/> 30 D. <input type="checkbox"/> 14 D. <input checked="" type="checkbox"/> 7 D. Other:														
Sample Designation	Date	Time								Comment, Preservation	Lab Sample ID			
3100-0000-200-C1C-01	2/11/06	1458	CT	CR	BP		X							
3100-0000-200-C1C-02	2/11/06	1458	CT	CR	BP		X							
3100-0000-200-C1C-03	2/11/06	1458	CT	CR	BP	X								
3100-0000-200-C1C-04	2/11/06	1458	CT	CR	BP	X								
3100-0000-200-RB	2/13/06	1045	ME	CR	BP		X			ME = Metal				
3100-0000-200-C3C-01	2/11/06	1517	CT	CR	BP	X								
3100-0000-200-C5C-01	2/13/06	1045	CT	CR	BP	X								
NOTES: PO #: 002332 MSR #:06-0328 <input checked="" type="checkbox"/> LTP QA <input type="checkbox"/> Radwaste QA <input type="checkbox"/> Non QA									Samples Shipped Via: <input checked="" type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Hand <input type="checkbox"/> Other		Internal Container Temp.: ____ Deg. C Custody Sealed? Y N Custody Seal Intact? Y N			
1) Relinquished By <i>Jack McCarthy</i>			Date/Time 3/1/06 1350			2) Received By <i>Neil K...</i>			Date/Time 3-2-06 0920			Bill of Lading # 8544 5163 3686		
3) Relinquished By			Date/Time			4) Received By			Date/Time					
5) Relinquished By			Date/Time			6) Received By			Date/Time					

15

Connecticut Yankee Atomic Power Company						Chain of Custody Form						No. 2006-00110		
362 Injun Hollow Road, East Hampton, CT 06424 860-267-2556														
Project Name: Haddam Neck Decommissioning			Media Code	Sample Type Code	Container Size- &Type Code	Analyses Requested						Lab Use Only		
Contact Name & Phone: Jack McCarthy 860-267-2556 x 3024						CHGAM	CHALL	FSSHTD	FSSTRU	FSSOTHR	H-3 Fe-55 Sr-90 Ni-63	Comments:		
Analytical Lab (Name, City, State): General Engineering Laboratories 2040 Savage Road Charleston, SC 29407 ATT: Cheryl Jones (843-556-8171)												Box 1		
Priority: <input type="checkbox"/> 30 D. <input type="checkbox"/> 14 D. <input checked="" type="checkbox"/> 7 D. Other:												8544 5163 3686		
Sample Designation	Date	Time				Comment, Preservation	Lab Sample ID							
3100-0000-201-C1C-01	2/13/06	1508	CT	CR	BP		X							
3100-0000-201-C1C-02	2/13/06	1508	CT	CR	BP		X							
3100-0000-201-C1C-03	2/13/06	1520	CT	CR	BP	X				X				
3100-0000-201-C1C-04	2/13/06	1520	CT	CR	BP	X				X				
3100-0000-201-C4C-01	2/14/06	0901	CT	CR	BP	X				X				
3100-0000-201-C6C-01	2/14/06	1005	CT	CR	BP	X				X				
NOTES: PO #: 002332 MSR #:06-0328 <input checked="" type="checkbox"/> LTP QA <input type="checkbox"/> Radwaste QA <input type="checkbox"/> Non QA										Samples Shipped Via: <input checked="" type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Hand <input type="checkbox"/> Other		Internal Container Temp.: ____ Deg. C Custody Sealed? Y N Custody Seal Intact? Y N		
1) Relinquished By <i>John J. Smith</i> Date/Time <i>3/1/06 1350</i>			2) Received By <i>John J. Smith</i> Date/Time <i>3-2-06 0900</i>											
3) Relinquished By			4) Received By											
5) Relinquished By			6) Received By							Bill of Lading # 8544 5163 3686				

15

Connecticut Yankee Atomic Power Company

362 Injun Hollow Road, East Hampton, CT 06424
860-267-2556

Chain of Custody Form

No. 2006-00111

Project Name: Haddam Neck Decommissioning			Media Code	Sample Type Code	Container Size- & Type Code	Analyses Requested						Lab Use Only		
Contact Name & Phone: Jack McCarthy 860-267-2556 x 3024						CHGAM	CHALL	FSSHTD	FSSSTRU	FSSOTHR	H-3 Fe-55 Sr-90 Ni-63	Comments: Box 1 8544 5163 3686		
Analytical Lab (Name, City, State): General Engineering Laboratories 2040 Savage Road Charleston, SC 29407 ATT: Cheryl Jones (843-556-8171)														
Priority: <input type="checkbox"/> 30 D. <input type="checkbox"/> 14 D. <input checked="" type="checkbox"/> 7 D. Other:														
Sample Designation	Date	Time								Comment, Preservation	Lab Sample ID			
3100-0000-202-C1C-01	2/8/06	0904	CT	CR	BP		X							
3100-0000-202-C1C-02	2/8/06	0904	CT	CR	BP		X							
3100-0000-202-C1C-03	2/8/06	1104	CT	CR	BP	X					X			
3100-0000-202-C1C-04	2/8/06	1104	CT	CR	BP	X					X			
3100-0000-202-C6C-01	2/8/06	1515	CT	CR	BP	X					X			
3100-0000-202-C9C-01	2/9/06	1104	CT	CR	BP	X					X			
NOTES: PO #: 002332 MSR #06-0328: <input checked="" type="checkbox"/> LTP QA <input type="checkbox"/> Radwaste QA <input type="checkbox"/> Non QA										Samples Shipped Via: <input checked="" type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Hand <input type="checkbox"/> Other		Internal Container Temp.: ____ Deg. C Custody Sealed? Y N Custody Seal Intact? Y N		
1) Relinquished By <i>[Signature]</i>			Date/Time 3/1/06 1350			2) Received By <i>[Signature]</i>			Date/Time 3-2-06 0920			Bill of Lading # 8544 5163 3686		
3) Relinquished By			Date/Time			4) Received By			Date/Time					
5) Relinquished By			Date/Time			6) Received By			Date/Time					

17

Connecticut Yankee Atomic Power Company

362 Injun Hollow Road, East Hampton, CT 06424
860-267-2556

Chain of Custody Form

No. 2006-00112

Project Name: Haddam Neck Decommissioning			Media Code	Sample Type Code	Container Size- & Type Code	Analyses Requested					Lab Use Only			
Contact Name & Phone: Jack McCarthy 860-267-2556 x 3024						CHGAM	CHALL	FSSHTD	FSSTRU	FSSOTHR	H-3 Fe-55 Sr-90 Ni-63	Comments: Box 1 8544 5163 3686		
Analytical Lab (Name, City, State): General Engineering Laboratories 2040 Savage Road Charleston, SC 29407 ATT: Cheryl Jones (843-556-8171)														
Priority: <input type="checkbox"/> 30 D. <input type="checkbox"/> 14 D. <input checked="" type="checkbox"/> 7 D. Other:														
Sample Designation	Date	Time								Comment, Preservation	Lab Sample ID			
3100-0000-203-C1C-01	2/7/06	1050	CT	CR	BP		X							
3100-0000-203-C1C-02	2/7/06	1050	CT	CR	BP		X							
3100-0000-203-C1C-03	2/7/06	1102	CT	CR	BP	X					X			
3100-0000-203-C1C-04	2/7/06	1102	CT	CR	BP	X					X			
3100-0000-203-C4C-01	2/7/06	1402	CT	CR	BP	X					X			
3100-0000-203-C6C-01	2/7/06	1451	CT	CR	BP	X					X			
NOTES: PO #: 002332 MSR #:06-0328 <input checked="" type="checkbox"/> LTP QA <input type="checkbox"/> Radwaste QA <input type="checkbox"/> Non QA									Samples Shipped Via: <input checked="" type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Hand <input type="checkbox"/> Other		Internal Container Temp.: ____ Deg. C Custody Sealed? Y N Custody Seal Intact? Y N			
1) Relinquished By <i>John J. Foster</i>			Date/Time 3/1/06 1350		2) Received By <i>Mike Kulow</i>			Date/Time 3-2-06 0900		Bill of Lading # 8544 5163 3686				
3) Relinquished By			Date/Time		4) Received By			Date/Time						
5) Relinquished By			Date/Time		6) Received By			Date/Time						

81



SAMPLE RECEIPT & REVIEW FORM

PM use only

Client: <u>CONN YANKEE</u>	SDG/ARCOC/Work Order: <u>157164, 157193</u>
Date Received: <u>3-2-06</u>	PM(A) Review (ensure non-conforming items are resolved prior to signing):
Received By: <u>MK</u>	<u>Clyde Jones</u>

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?				Circle Applicable: seals broken damaged container leaking container other (describe)
2 Samples requiring cold preservation within (4 +/- 2 C)? Record preservation method.				Circle Coolant # ice bags blue ice dry ice none other describe)
3 Chain of custody documents included with shipment?				
4 Sample containers intact and sealed?				Circle Applicable: seals broken damaged container leaking container other (describe)
5 Samples requiring chemical preservation at proper pH?				Sample ID's, containers affected and observed pH:
6 VOA vials free of headspace (defined as < 6mm bubble)?				Sample ID's and containers affected:
7 Are Encore containers present? (If yes, immediately deliver to VOA laboratory)				
8 Samples received within holding time?				Id's and tests affected:
9 Sample ID's on COC match ID's on bottles?				Sample ID's and containers affected:
10 Date & time on COC match date & time on bottles?				Sample ID's affected:
11 Number of containers received match number indicated on COC?				Sample ID's affected:
12 COC form is properly signed in relinquished/received sections?				

14 Air Bill ,Tracking #'s, & Additional Comments
RAD II Samples: 3002-0000-194-Liner; CIC-01,02,-03,-04,-05; RB, P
3002-0000-195-Liner; CIC-01,-02,-03
3002-0000-196-Liner; CIC-01,-02; -RB

Suspected Hazard Information	Non-Regulated	Regulated	High Level	RSO RAD Receipt # _____ *If > x2 area background is observed on samples identified as "non-regulated/non-radioactive", contact the Radiation Safety group for further investigation.
A Radiological Classification?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Maximum Counts Observed*: <u>CPM 6,000</u>
B PCB Regulated?	<input checked="" type="checkbox"/>			Comments:
C Shipped as DOT Hazardous Material? If yes, contact Waste Manager or ESH Manager.	<input checked="" type="checkbox"/>			Hazard Class Shipped: UN#:

PM (or PMA) review of Hazard classification: 19 Initials CAJ Date: 3/2/06

Figure 1. Sample Check-in List

Date/Time Received: 3-2-06 0920

SDG#: MSR#06-0328

Work Order Number: 157164, 157193

Shipping Container ID: 8544-5163-3701 Chain of Custody #: 2006-00089, 90, 99, 100, 101, 102

1. Custody Seals on shipping container intact? Yes No NA ✓
2. Custody Seals dated and signed? Yes No NA ✓
3. Chain-of-Custody record present? Yes No
4. Cooler temperature 19° NO ICE
5. Vermiculite/packing materials is: Wet Dry NA ✓
6. Number of samples in shipping container: 37
7. Sample holding times exceeded? Yes No

8. Samples have:	
<input type="checkbox"/> tape	<input type="checkbox"/> hazard labels
<input type="checkbox"/> custody seals	<input checked="" type="checkbox"/> appropriate sample labels
9. Samples are:	
<input checked="" type="checkbox"/> in good condition	<input type="checkbox"/> leaking
<input type="checkbox"/> broken	<input type="checkbox"/> have air bubbles

10. Were any anomalies identified in sample receipt? Yes No

11. Description of anomalies (include sample numbers): _____

Sample Custodian/Laboratory: Mike Kimlin Date: 3-2-06

Telephoned to: _____ On _____ By _____

Figure 1. Sample Check-in List

Date/Time Received: 3-2-06 0920

SDG#: MSR#06-0328

Work Order Number: 157164, 157193

Shipping Container ID: 8544 5163 3697 Chain of Custody # 2006-00094, 103, 104, 105, 91+93

1. Custody Seals on shipping container intact? Yes No NA ✓
2. Custody Seals dated and signed? Yes No NA ✓
3. Chain-of-Custody record present? Yes No
4. Cooler temperature 20° NO ICE
5. Vermiculite/packing materials is: Wet Dry NA ✓
6. Number of samples in shipping container: 40
7. Sample holding times exceeded? Yes No

8. Samples have:	
<input type="checkbox"/> tape	<input type="checkbox"/> hazard labels
<input type="checkbox"/> custody seals	<input checked="" type="checkbox"/> appropriate sample labels
9. Samples are:	
<input checked="" type="checkbox"/> in good condition	<input type="checkbox"/> leaking
<input type="checkbox"/> broken	<input type="checkbox"/> have air bubbles

10. Were any anomalies identified in sample receipt? Yes No

11. Description of anomalies (include sample numbers): _____

Sample Custodian/Laboratory: [Signature] Date: 3-2-06

Telephoned to: _____ On _____ By _____

Figure 1. Sample Check-in List

Date/Time Received: 3-2-06 0920

SDG#: MSR# 06-0328

Work Order Number: 157164, 157193

Shipping Container ID 8544 5163 3686 Chain of Custody # 2006-00109, 110, 111 + 112

- 1. Custody Seals on shipping container intact? Yes [] No [] NAV
- 2. Custody Seals dated and signed? Yes [] No [] NAV
- 3. Chain-of-Custody record present? Yes [] No [] NAV
- 4. Cooler temperature 20°C NO ICE
- 5. Vermiculite/packing materials is: Wet [] Dry [] NAV
- 6. Number of samples in shipping container: 25
- 7. Sample holding times exceeded? Yes [] No [] NAV

8. Samples have:	
<input type="checkbox"/> tape	<input type="checkbox"/> hazard labels
<input type="checkbox"/> custody seals	<input checked="" type="checkbox"/> appropriate sample labels
9. Samples are:	
<input checked="" type="checkbox"/> in good condition	<input type="checkbox"/> leaking
<input type="checkbox"/> broken	<input type="checkbox"/> have air bubbles

10. Were any anomalies identified in sample receipt? Yes [] No [] NAV

11. Description of anomalies (include sample numbers): _____

Sample Custodian/Laboratory: M. K. [Signature] Date: 3-2-06

Telephoned to: _____ On _____ By _____

RADIOLOGICAL ANALYSIS

**Radiochemistry Case Narrative
Connecticut Yankee Atomic Power Co. (YANK)
Work Order 157164**

Method/Analysis Information

Product:	Alphaspec Am241, Cm, Solid-TRU2,ALL2 (CT)
Analytical Method:	DOE EML HASL-300, Am-05-RC Modified
Prep Method:	Ash Soil Prep
Dry Soil Prep GL-RAD-A-021 Method:	Dry Soil Prep
Analytical Batch Number:	508564
Prep Batch Number:	508388
Dry Soil Prep GL-RAD-A-021 Batch Number:	508387

Sample ID	Client ID
157164001	3100-0000-190-C1C-01
157164002	3100-0000-190-C1C-02
157164008	3100-0000-191-C1C-01
157164009	3100-0000-191-C1C-02
157164014	3100-0000-192-C1C-01
157164015	3100-0000-192-C1C-02
157164021	3100-0000-193-C1C-01
157164022	3100-0000-193-C1C-02
157164027	3100-0000-194-C1C-01
157164028	3100-0000-194-C1C-02
157164033	3100-0000-195-C1C-01
157164034	3100-0000-195-C1C-02
157164039	3100-0000-196-C1C-01
157164040	3100-0000-196-C1C-02
1201043939	Method Blank (MB)
1201043940	157164001(3100-0000-190-C1C-01) Sample Duplicate (DUP)
1201043941	157164001(3100-0000-190-C1C-01) Matrix Spike (MS)
1201043942	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-011 REV# 14.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157164001 (3100-0000-190-C1C-01).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Manual Integration

No manual integrations were performed on data in this batch.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product:	Alphaspec Am241, Cm, Solid-TRU2,ALL2 (CT)
Analytical Method:	DOE EML HASL-300, Am-05-RC Modified
Prep Method:	Ash Soil Prep
Dry Soil Prep GL-RAD-A-021 Method:	Dry Soil Prep
Analytical Batch Number:	508575
Prep Batch Number:	508401
Dry Soil Prep GL-RAD-A-021 Batch Number:	508398

Sample ID	Client ID
157164045	3100-0000-197-C1C-01
157164046	3100-0000-197-C1C-02
157164051	3100-0000-200-C1C-01
157164052	3100-0000-200-C1C-02
157164058	3100-0000-201-C1C-01
157164059	3100-0000-201-C1C-02
157164064	3100-0000-202-C1C-01
157164065	3100-0000-202-C1C-02
157164070	3100-0000-203-C1C-01
157164071	3100-0000-203-C1C-02
1201043974	Method Blank (MB)
1201043975	157164045(3100-0000-197-C1C-01) Sample Duplicate (DUP)
1201043976	157164045(3100-0000-197-C1C-01) Matrix Spike (MS)
1201043977	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-011 REV# 14.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157164045 (3100-0000-197-C1C-01).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

Samples 157164045 (3100-0000-197-C1C-01) and 157164046 (3100-0000-197-C1C-02) were recounted due to high MDAs.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Manual Integration

No manual integrations were performed on data in this batch.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product: Alphaspec Am241, Cm, Solid-TRU2,ALL2 (CT)

Analytical Method: DOE EML HASL-300, Am-05-RC Modified

Prep Method: Ash Soil Prep

Dry Soil Prep GL-RAD-A-021 Method: Dry Soil Prep

Analytical Batch Number: 509106

Prep Batch Number: 508695

Dry Soil Prep GL-RAD-A-021 Batch Number: 508665

Sample ID	Client ID
157164005	3100-0000-190-RB
157164018	3100-0000-192-RB
157164055	3100-0000-200-RB
1201045221	Method Blank (MB)
1201045222	157164005(3100-0000-190-RB) Sample Duplicate (DUP)
1201045223	157164005(3100-0000-190-RB) Matrix Spike (MS)
1201045224	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-011 REV# 14.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157164005 (3100-0000-190-RB).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

Samples 1201045221 (MB), 157164005 (3100-0000-190-RB) and 157164055 (3100-0000-200-RB) were recounted due to high MDAs.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Manual Integration

No manual integrations were performed on data in this batch.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product:	Alphaspec Pu, Solid-TRU2,ALL2 (CT)
Analytical Method:	DOE EML HASL-300, Pu-11-RC Modified
Prep Method:	Ash Soil Prep
Dry Soil Prep GL-RAD-A-021 Method:	Dry Soil Prep
Analytical Batch Number:	508566
Prep Batch Number:	508388
Dry Soil Prep GL-RAD-A-021 Batch Number:	508387

Sample ID	Client ID
157164001	3100-0000-190-C1C-01
157164002	3100-0000-190-C1C-02
157164008	3100-0000-191-C1C-01
157164009	3100-0000-191-C1C-02
157164014	3100-0000-192-C1C-01
157164015	3100-0000-192-C1C-02
157164021	3100-0000-193-C1C-01
157164022	3100-0000-193-C1C-02
157164027	3100-0000-194-C1C-01
157164028	3100-0000-194-C1C-02
157164033	3100-0000-195-C1C-01
157164034	3100-0000-195-C1C-02
157164039	3100-0000-196-C1C-01
157164040	3100-0000-196-C1C-02
1201043952	Method Blank (MB)
1201043953	157164001(3100-0000-190-C1C-01) Sample Duplicate (DUP)
1201043954	157164001(3100-0000-190-C1C-01) Matrix Spike (MS)
1201043955	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this

narrative has been analyzed in accordance with GL-RAD-A-011 REV# 14.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157164001 (3100-0000-190-C1C-01).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

Samples 157164001 (3100-0000-190-C1C-01) and 157164014 (3100-0000-192-C1C-01) were recounted due to high MDAs.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Manual Integration

No manual integrations were performed on data in this batch.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product: Liquid Scint Pu241, Solid-TRU2,ALL2 (CT)
Analytical Method: DOE EML HASL-300, Pu-11-RC Modified
Prep Method: Ash Soil Prep
Dry Soil Prep GL-RAD-A-021 Method: Dry Soil Prep
Analytical Batch Number: 508569
Prep Batch Number: 508388
Dry Soil Prep GL-RAD-A-021 Batch Number: 508387

Sample ID	Client ID
157164001	3100-0000-190-C1C-01
157164002	3100-0000-190-C1C-02
157164008	3100-0000-191-C1C-01
157164009	3100-0000-191-C1C-02
157164014	3100-0000-192-C1C-01
157164015	3100-0000-192-C1C-02
157164021	3100-0000-193-C1C-01
157164022	3100-0000-193-C1C-02
157164027	3100-0000-194-C1C-01
157164028	3100-0000-194-C1C-02
157164033	3100-0000-195-C1C-01
157164034	3100-0000-195-C1C-02
157164039	3100-0000-196-C1C-01
157164040	3100-0000-196-C1C-02
1201043956	Method Blank (MB)
1201043957	157164001(3100-0000-190-C1C-01) Sample Duplicate (DUP)
1201043958	157164001(3100-0000-190-C1C-01) Matrix Spike (MS)
1201043959	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-035 REV# 8.

Calibration Information:**Calibration Information**

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:**Blank Information**

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157164001 (3100-0000-190-C1C-01).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:**Holding Time**

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Miscellaneous Information:**NCR Documentation**

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Manual Integration

No manual integrations were performed on data in this batch.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product:	Alphaspec Pu, Solid-TRU2,ALL2 (CT)
Analytical Method:	DOE EML HASL-300, Pu-11-RC Modified
Prep Method:	Ash Soil Prep
Dry Soil Prep GL-RAD-A-021 Method:	Dry Soil Prep
Analytical Batch Number:	508578
Prep Batch Number:	508401
Dry Soil Prep GL-RAD-A-021 Batch Number:	508398

Sample ID	Client ID
157164045	3100-0000-197-C1C-01
157164046	3100-0000-197-C1C-02
157164051	3100-0000-200-C1C-01
157164052	3100-0000-200-C1C-02
157164058	3100-0000-201-C1C-01
157164059	3100-0000-201-C1C-02
157164064	3100-0000-202-C1C-01
157164065	3100-0000-202-C1C-02
157164070	3100-0000-203-C1C-01
157164071	3100-0000-203-C1C-02
1201043978	Method Blank (MB)
1201043979	157164045(3100-0000-197-C1C-01) Sample Duplicate (DUP)
1201043980	157164045(3100-0000-197-C1C-01) Matrix Spike (MS)
1201043981	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General

Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-011 REV# 14.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157164045 (3100-0000-197-C1C-01).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Manual Integration

No manual integrations were performed on data in this batch.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product: Liquid Scint Pu241, Solid-TRU2,ALL2 (CT)
Analytical Method: DOE EML HASL-300, Pu-11-RC Modified
Prep Method: Ash Soil Prep
Dry Soil Prep GL-RAD-A-021 Method: Dry Soil Prep
Analytical Batch Number: 508580
Prep Batch Number: 508401
Dry Soil Prep GL-RAD-A-021 Batch Number: 508398

Sample ID	Client ID
157164045	3100-0000-197-C1C-01
157164046	3100-0000-197-C1C-02
157164051	3100-0000-200-C1C-01
157164052	3100-0000-200-C1C-02
157164058	3100-0000-201-C1C-01
157164059	3100-0000-201-C1C-02
157164064	3100-0000-202-C1C-01
157164065	3100-0000-202-C1C-02
157164070	3100-0000-203-C1C-01
157164071	3100-0000-203-C1C-02
1201043982	Method Blank (MB)
1201043983	157164045(3100-0000-197-C1C-01) Sample Duplicate (DUP)
1201043984	157164045(3100-0000-197-C1C-01) Matrix Spike (MS)
1201043985	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-035 REV# 8.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157164045 (3100-0000-197-C1C-01).

QC Information

Refer to Non-Conformance Report.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

Sample 1201043984 (3100-0000-197-C1C-01) was recounted due to low/high recovery.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. The following NCR was generated for this SDG: NCR 301572 was generated due to Failed Recovery for MS/PS. 1. Matrix spike 1201043984 did not meet the recovery requirement. The samples did not have any activity and met the required detection limit. All other quality control samples met their requirements. The project manager was contacted, and permission was received to report the data. 1. Reporting results.

Manual Integration

No manual integrations were performed on data in this batch.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product:	Alphaspec Pu, Solid-TRU2,ALL2 (CT)
Analytical Method:	DOE EML HASL-300, Pu-11-RC Modified
Prep Method:	Ash Soil Prep
Dry Soil Prep GL-RAD-A-021 Method:	Dry Soil Prep
Analytical Batch Number:	509107
Prep Batch Number:	508695
Dry Soil Prep GL-RAD-A-021 Batch Number:	508665

Sample ID	Client ID
157164005	3100-0000-190-RB
157164018	3100-0000-192-RB
157164055	3100-0000-200-RB
1201045225	Method Blank (MB)
1201045226	157164005(3100-0000-190-RB) Sample Duplicate (DUP)
1201045227	157164005(3100-0000-190-RB) Matrix Spike (MS)
1201045228	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-011 REV# 14.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157164005 (3100-0000-190-RB).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Manual Integration

No manual integrations were performed on data in this batch.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product: Liquid Scint Pu241, Solid-TRU2,ALL2 (CT)
 Analytical Method: DOE EML HASL-300, Pu-11-RC Modified
 Prep Method: Ash Soil Prep
 Dry Soil Prep GL-RAD-A-021 Method: Dry Soil Prep
 Analytical Batch Number: 509108
 Prep Batch Number: 508695
 Dry Soil Prep GL-RAD-A-021 Batch Number: 508665

Sample ID	Client ID
157164005	3100-0000-190-RB
157164018	3100-0000-192-RB
157164055	3100-0000-200-RB
1201045229	Method Blank (MB)
1201045230	157164005(3100-0000-190-RB) Sample Duplicate (DUP)
1201045231	157164005(3100-0000-190-RB) Matrix Spike (MS)
1201045232	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-035 REV# 8.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157164005 (3100-0000-190-RB).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:**Holding Time**

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Miscellaneous Information:**NCR Documentation**

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Manual Integration

No manual integrations were performed on data in this batch.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product:	Gammasec, Gamma, GAM2,ALL2 (CT ingrowth waived)
Analytical Method:	EML HASL 300, 4.5.2.3
Prep Method:	Dry Soil Prep
Analytical Batch Number:	509629
Prep Batch Number:	508665

Sample ID	Client ID
157164005	3100-0000-190-RB
157164018	3100-0000-192-RB
157164055	3100-0000-200-RB
1201046352	Method Blank (MB)
1201046353	157164005(3100-0000-190-RB) Sample Duplicate (DUP)
1201046354	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-013 REV# 10.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157164005 (3100-0000-190-RB).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Qualifier	Reason	Analyte	Sample
UI	Data rejected due to low abundance.	Actinium-228	157164018

Method/Analysis Information

Product:	Gammasepec, Gamma, GAM2,ALL2 (CT ingrowth waived)
Analytical Method:	EML HASL 300, 4.5.2.3
Prep Method:	Dry Soil Prep
Analytical Batch Number:	509660
Prep Batch Number:	508387

Sample ID	Client ID
157164001	3100-0000-190-C1C-01
157164002	3100-0000-190-C1C-02
157164003	3100-0000-190-C1C-03
157164004	3100-0000-190-C1C-04
157164006	3100-0000-190-C2C-01
157164007	3100-0000-190-C4C-01
157164008	3100-0000-191-C1C-01
157164009	3100-0000-191-C1C-02
157164010	3100-0000-191-C1C-03
157164011	3100-0000-191-C1C-04
157164012	3100-0000-191-C3C-01
157164013	3100-0000-191-C5C-01
157164014	3100-0000-192-C1C-01
157164015	3100-0000-192-C1C-02
157164016	3100-0000-192-C1C-03
157164017	3100-0000-192-C1C-04
157164019	3100-0000-192-C3C-01
157164020	3100-0000-192-C5C-01
1201046384	Method Blank (MB)
1201046385	157164001(3100-0000-190-C1C-01) Sample Duplicate (DUP)
1201046386	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-013 REV# 10.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:**Blank Information**

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157164001 (3100-0000-190-C1C-01).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:**Holding Time**

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Miscellaneous Information:**NCR Documentation**

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Additional Comments

The relative percent differences (1201046385 (3100-0000-190-C1C-01) and 157164001 (3100-0000-190-C1C-01)) for Bi-214, Pb-226 and Ra-226 did not meet the duplication criteria. However, when a relative error ratio is calculated, precision is shown at 1.44 for Bi-214 and Ra-226 and 1.55 for Pb-212.

Qualifier information

Qualifier	Reason	Analyte	Sample
UI	Data rejected due to high peak-width.	Bismuth-212	157164019
		Cobalt-60	157164012
UI	Data rejected due to low abundance.	Americium-241	157164008
		Cesium-134	157164009
			157164012
			157164020
		Thallium-208	157164017
			157164020

Method/Analysis Information

Product: Gammaspec, Gamma, GAM2,ALL2 (CT ingrowth waived)
Analytical Method: EML HASL 300, 4.5.2.3
Prep Method: Dry Soil Prep
Analytical Batch Number: 509662
Prep Batch Number: 508391

Sample ID	Client ID
157164021	3100-0000-193-C1C-01
157164022	3100-0000-193-C1C-02
157164023	3100-0000-193-C1C-03
157164024	3100-0000-193-C1C-04
157164025	3100-0000-193-C4C-01
157164026	3100-0000-193-C5C-01
157164027	3100-0000-194-C1C-01
157164028	3100-0000-194-C1C-02
157164029	3100-0000-194-C1C-03
157164030	3100-0000-194-C1C-04
157164031	3100-0000-194-C3C-01
157164032	3100-0000-194-C4C-01
157164033	3100-0000-195-C1C-01
157164034	3100-0000-195-C1C-02
157164035	3100-0000-195-C1C-03
157164036	3100-0000-195-C1C-04
157164037	3100-0000-195-C3C-01
157164038	3100-0000-195-C4C-01
157164039	3100-0000-196-C1C-01
157164040	3100-0000-196-C1C-02
1201046388	Method Blank (MB)
1201046389	157164021(3100-0000-193-C1C-01) Sample Duplicate (DUP)
1201046390	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-013 REV# 10.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:**Blank Information**

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157164021 (3100-0000-193-C1C-01).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:**Holding Time**

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Miscellaneous Information:**NCR Documentation**

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Additional Comments

The relative percent difference (1201046389 (3100-0000-193-C1C-01) and 157164021 (3100-0000-193-C1C-01)) for TI-208 did not meet the duplication criteria. However, when a relative error ratio is calculated, precision is shown at 1.04985.

Qualifier information

Qualifier	Reason	Analyte	Sample
UI	Data rejected due to high peak-width.	Bismuth-212	157164023 157164031
UI	Data rejected due to interference.	Europium-155	157164029
UI	Data rejected due to low abundance.	Cesium-134	157164021 157164024 157164028 157164031 157164033
UI	Data rejected due to no valid peak.	Potassium-40	1201046388

Method/Analysis Information

Product: Gammaspec, Gamma, GAM2,ALL2 (CT ingrowth waived)
Analytical Method: EML HASL 300, 4.5.2.3
Prep Method: Dry Soil Prep
Analytical Batch Number: 509663
Prep Batch Number: 508398

Sample ID	Client ID
157164041	3100-0000-196-C1C-03
157164042	3100-0000-196-C1C-04
157164043	3100-0000-196-C3C-01
157164044	3100-0000-196-C5C-01
157164045	3100-0000-197-C1C-01
157164046	3100-0000-197-C1C-02
157164047	3100-0000-197-C1C-03
157164048	3100-0000-197-C1C-04
157164049	3100-0000-197-C3C-01
157164050	3100-0000-197-C4C-01
157164051	3100-0000-200-C1C-01
157164052	3100-0000-200-C1C-02
157164053	3100-0000-200-C1C-03
157164054	3100-0000-200-C1C-04
157164056	3100-0000-200-C3C-01
157164057	3100-0000-200-C5C-01
157164058	3100-0000-201-C1C-01
157164059	3100-0000-201-C1C-02
157164060	3100-0000-201-C1C-03
1201046391	Method Blank (MB)
1201046392	157164041(3100-0000-196-C1C-03) Sample Duplicate (DUP)
1201046393	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-013 REV# 10.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157164041 (3100-0000-196-C1C-03).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

Sample 157164051 (3100-0000-200-C1C-01) was recounted due to a detector malfunction. Samples 157164041 (3100-0000-196-C1C-03) and 157164042 (3100-0000-196-C1C-04) were recounted due to a peak shift in the detector.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Qualifier	Reason	Analyte	Sample
UI	Data rejected due to high counting uncertainty.	Cesium-137	157164054
UI	Data rejected due to high peak-width.		157164053
UI	Data rejected due to interference.	Europium-155	157164049
UI	Data rejected due to low abundance.	Actinium-228	157164047
		Cesium-134	157164043
			157164044
			157164060
		Cobalt-60	157164044
			157164045

Method/Analysis Information

Product: Gammaspec, Gamma, GAM2,ALL2 (CT ingrowth waived)
Analytical Method: EML HASL 300, 4.5.2.3
Prep Method: Dry Soil Prep
Analytical Batch Number: 509664
Prep Batch Number: 508403

Sample ID	Client ID
157164061	3100-0000-201-C1C-04
157164062	3100-0000-201-C4C-01
157164063	3100-0000-201-C6C-01
157164064	3100-0000-202-C1C-01
157164065	3100-0000-202-C1C-02
157164066	3100-0000-202-C1C-03
157164067	3100-0000-202-C1C-04
157164068	3100-0000-202-C6C-01
157164069	3100-0000-202-C9C-01
157164070	3100-0000-203-C1C-01
157164071	3100-0000-203-C1C-02
157164072	3100-0000-203-C1C-03
157164073	3100-0000-203-C1C-04
157164074	3100-0000-203-C4C-01
157164075	3100-0000-203-C6C-01
1201046394	Method Blank (MB)
1201046395	157164061(3100-0000-201-C1C-04) Sample Duplicate (DUP)
1201046396	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-013 REV# 10.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157164061 (3100-0000-201-C1C-04).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

Sample 157164061 (3100-0000-201-C1C-04) was recounted due to high relative percent difference/relative error ratio.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Additional Comments

The results for samples 1201046395 (3100-0000-201-C1C-04) and 157164061 (3100-0000-201-C1C-04) did not meet the relative percent difference requirements for TI-208, however, when a relative error ratio is calculated, precision is shown at 1.77.

Qualifier information

Qualifier	Reason	Analyte	Sample
UI	Data rejected due to high Full-Width Half-Maximum.	Bismuth-212	157164065
UI	Data rejected due to interference.	Manganese-54	157164072
UI	Data rejected due to low abundance.	Actinium-228	157164064
		Cesium-134	157164070
			157164072
		Lead-212	157164063
UI	Data rejected due to no valid peak.	Cesium-137	1201046395

Method/Analysis Information

Product:	GFPC, Sr90, solid Quick TAT
Analytical Method:	EPA 905.0 Modified
Prep Method:	Ash Soil Prep
Dry Soil Prep GL-RAD-A-021 Method:	Dry Soil Prep
Analytical Batch Number:	508559
Prep Batch Number:	508388
Dry Soil Prep GL-RAD-A-021 Batch Number:	508387

Sample ID	Client ID
157164001	3100-0000-190-C1C-01
157164002	3100-0000-190-C1C-02
157164003	3100-0000-190-C1C-03
157164004	3100-0000-190-C1C-04
157164006	3100-0000-190-C2C-01
157164007	3100-0000-190-C4C-01
157164008	3100-0000-191-C1C-01
157164009	3100-0000-191-C1C-02
157164010	3100-0000-191-C1C-03
157164011	3100-0000-191-C1C-04
157164012	3100-0000-191-C3C-01
157164013	3100-0000-191-C5C-01
157164014	3100-0000-192-C1C-01
157164015	3100-0000-192-C1C-02
157164016	3100-0000-192-C1C-03
157164017	3100-0000-192-C1C-04
157164019	3100-0000-192-C3C-01
157164020	3100-0000-192-C5C-01
1201043922	Method Blank (MB)
1201043923	157164003(3100-0000-190-C1C-03) Sample Duplicate (DUP)
1201043924	157164003(3100-0000-190-C1C-03) Matrix Spike (MS)
1201043925	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-004 REV# 9.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157164003 (3100-0000-190-C1C-03).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Chemical Recoveries

All chemical recoveries meet the required acceptance limits for this sample set.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product:	GFPC, Sr90, solid Quick TAT
Analytical Method:	EPA 905.0 Modified
Prep Method:	Ash Soil Prep
Dry Soil Prep GL-RAD-A-021 Method:	Dry Soil Prep
Analytical Batch Number:	508561
Prep Batch Number:	508401
Dry Soil Prep GL-RAD-A-021 Batch Number:	508398

Sample ID	Client ID
157164041	3100-0000-196-C1C-03
157164042	3100-0000-196-C1C-04
157164043	3100-0000-196-C3C-01
157164044	3100-0000-196-C5C-01
157164045	3100-0000-197-C1C-01
157164046	3100-0000-197-C1C-02
157164047	3100-0000-197-C1C-03
157164048	3100-0000-197-C1C-04
157164049	3100-0000-197-C3C-01
157164050	3100-0000-197-C4C-01
157164051	3100-0000-200-C1C-01
157164052	3100-0000-200-C1C-02
157164053	3100-0000-200-C1C-03
157164054	3100-0000-200-C1C-04
157164056	3100-0000-200-C3C-01
157164057	3100-0000-200-C5C-01
157164058	3100-0000-201-C1C-01
157164059	3100-0000-201-C1C-02
157164060	3100-0000-201-C1C-03
1201043930	Method Blank (MB)
1201043931	157164043(3100-0000-196-C3C-01) Sample Duplicate (DUP)
1201043932	157164043(3100-0000-196-C3C-01) Matrix Spike (MS)
1201043933	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-004 REV# 9.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:**Blank Information**

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157164043 (3100-0000-196-C3C-01).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:**Holding Time**

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

Samples 157164043 (3100-0000-196-C3C-01), 157164044 (3100-0000-196-C5C-01) and 157164045 (3100-0000-197-C1C-01) were recounted due to a suspected false positive. Samples 1201043932 (3100-0000-196-C3C-01) and 1201043933 (LCS) were recounted due to low/high recovery.

Chemical Recoveries

All chemical recoveries meet the required acceptance limits for this sample set.

Miscellaneous Information:**NCR Documentation**

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product:	GFPC, Sr90, solid Quick TAT
Analytical Method:	EPA 905.0 Modified
Prep Method:	Ash Soil Prep
Dry Soil Prep GL-RAD-A-021 Method:	Dry Soil Prep
Analytical Batch Number:	508562
Prep Batch Number:	508405
Dry Soil Prep GL-RAD-A-021 Batch Number:	508403

Sample ID	Client ID
157164061	3100-0000-201-C1C-04
157164062	3100-0000-201-C4C-01
157164063	3100-0000-201-C6C-01
157164064	3100-0000-202-C1C-01
157164065	3100-0000-202-C1C-02
157164066	3100-0000-202-C1C-03
157164067	3100-0000-202-C1C-04
157164068	3100-0000-202-C6C-01
157164069	3100-0000-202-C9C-01
157164070	3100-0000-203-C1C-01
157164071	3100-0000-203-C1C-02
157164072	3100-0000-203-C1C-03
157164073	3100-0000-203-C1C-04
157164074	3100-0000-203-C4C-01
157164075	3100-0000-203-C6C-01
1201043934	Method Blank (MB)
1201043935	157164063(3100-0000-201-C6C-01) Sample Duplicate (DUP)
1201043936	157164063(3100-0000-201-C6C-01) Matrix Spike (MS)
1201043937	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-004 REV# 9.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157164063 (3100-0000-201-C6C-01).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

Samples 157164062 (3100-0000-201-C4C-01) and 157164070 (3100-0000-203-C1C-01) were recounted due to a suspected false positive.

Chemical Recoveries

All chemical recoveries meet the required acceptance limits for this sample set.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. The following NCR was generated for this SDG: NCR 299193 was generated due to Container scanning event for custody missed. 1. The analyst did not scan the samples 157164 061,062,063,064,065,066,067,068,069,070,071,072,073,074,075 into the batch prior to analysis, however the samples did remain in their custody at all times. The error has been corrected and the analyst has been instructed on the proper scanning procedures. 1. Reporting results.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product:	GFPC, Sr90, solid Quick TAT
Analytical Method:	EPA 905.0 Modified
Prep Method:	Ash Soil Prep
Dry Soil Prep GL-RAD-A-021 Method:	Dry Soil Prep
Analytical Batch Number:	508565
Prep Batch Number:	508695
Dry Soil Prep GL-RAD-A-021 Batch Number:	508665

Sample ID	Client ID
157164005	3100-0000-190-RB
157164018	3100-0000-192-RB
157164055	3100-0000-200-RB
1201043943	Method Blank (MB)
1201043944	157164018(3100-0000-192-RB) Sample Duplicate (DUP)
1201043945	157164018(3100-0000-192-RB) Matrix Spike (MS)
1201043946	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-004 REV# 9.

Calibration Information:**Calibration Information**

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:**Blank Information**

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157164018 (3100-0000-192-RB).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:**Holding Time**

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Chemical Recoveries

All chemical recoveries meet the required acceptance limits for this sample set.

Miscellaneous Information:**NCR Documentation**

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product:	GFPC, Sr90, solid Quick TAT
Analytical Method:	EPA 905.0 Modified
Prep Method:	Ash Soil Prep
Dry Soil Prep GL-RAD-A-021 Method:	Dry Soil Prep
Analytical Batch Number:	510651
Prep Batch Number:	508396
Dry Soil Prep GL-RAD-A-021 Batch Number:	508391

Sample ID	Client ID
157164021	3100-0000-193-C1C-01
157164022	3100-0000-193-C1C-02
157164023	3100-0000-193-C1C-03
157164024	3100-0000-193-C1C-04
157164025	3100-0000-193-C4C-01
157164026	3100-0000-193-C5C-01
157164027	3100-0000-194-C1C-01
157164028	3100-0000-194-C1C-02
157164029	3100-0000-194-C1C-03
157164030	3100-0000-194-C1C-04
157164031	3100-0000-194-C3C-01
157164032	3100-0000-194-C4C-01
157164033	3100-0000-195-C1C-01
157164034	3100-0000-195-C1C-02
157164035	3100-0000-195-C1C-03
157164036	3100-0000-195-C1C-04
157164037	3100-0000-195-C3C-01
157164038	3100-0000-195-C4C-01
157164039	3100-0000-196-C1C-01
157164040	3100-0000-196-C1C-02
1201048642	Method Blank (MB)
1201048643	157164038(3100-0000-195-C4C-01) Sample Duplicate (DUP)
1201048644	157164038(3100-0000-195-C4C-01) Matrix Spike (MS)
1201048645	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-004 REV# 9.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157164038 (3100-0000-195-C4C-01).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

Sample 157164022 (3100-0000-193-C1C-02) was recounted due to being originally counted on a detector that did not meet daily background and efficiency checks. Samples were reprepared due to low/high recovery.

Chemical Recoveries

All chemical recoveries meet the required acceptance limits for this sample set.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product: Liquid Scint Tc99, Solid-HTD2,ALL2 (CT)
Analytical Method: DOE EML HASL-300, Tc-02-RC Modified
Analytical Batch Number: 508570

Sample ID	Client ID
157164001	3100-0000-190-C1C-01
157164002	3100-0000-190-C1C-02
157164008	3100-0000-191-C1C-01
157164009	3100-0000-191-C1C-02
157164014	3100-0000-192-C1C-01
157164015	3100-0000-192-C1C-02
157164021	3100-0000-193-C1C-01
157164022	3100-0000-193-C1C-02
157164027	3100-0000-194-C1C-01
157164028	3100-0000-194-C1C-02
157164033	3100-0000-195-C1C-01
1201043960	Method Blank (MB)
1201043961	157164008(3100-0000-191-C1C-01) Sample Duplicate (DUP)
1201043962	157164008(3100-0000-191-C1C-01) Matrix Spike (MS)
1201043963	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-005 REV# 12.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157164008 (3100-0000-191-C1C-01).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product:	Liquid Scint Tc99, Solid-HTD2,ALL2 (CT)
Analytical Method:	DOE EML HASL-300, Tc-02-RC Modified
Analytical Batch Number:	508572

Sample ID	Client ID
157164034	3100-0000-195-C1C-02
157164039	3100-0000-196-C1C-01
157164040	3100-0000-196-C1C-02
157164045	3100-0000-197-C1C-01
157164046	3100-0000-197-C1C-02
157164051	3100-0000-200-C1C-01
157164052	3100-0000-200-C1C-02
157164058	3100-0000-201-C1C-01
157164059	3100-0000-201-C1C-02
157164064	3100-0000-202-C1C-01
157164065	3100-0000-202-C1C-02
157164070	3100-0000-203-C1C-01
157164071	3100-0000-203-C1C-02
1201043964	Method Blank (MB)
1201043965	157164046(3100-0000-197-C1C-02) Sample Duplicate (DUP)
1201043966	157164046(3100-0000-197-C1C-02) Matrix Spike (MS)
1201043967	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-005 REV# 12.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157164046 (3100-0000-197-C1C-02).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product:	Liquid Scint Tc99, Solid-HTD2,ALL2 (CT)
Analytical Method:	DOE EML HASL-300, Tc-02-RC Modified
Analytical Batch Number:	508676

Sample ID	Client ID
157164005	3100-0000-190-RB
157164018	3100-0000-192-RB
157164055	3100-0000-200-RB
1201044237	Method Blank (MB)
1201044238	157164018(3100-0000-192-RB) Sample Duplicate (DUP)
1201044239	157164018(3100-0000-192-RB) Matrix Spike (MS)
1201044240	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-005 REV# 12.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157164018 (3100-0000-192-RB).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product:	Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)
Analytical Method:	DOE RESL Fe-1, Modified
Prep Method:	Ash Soil Prep
Dry Soil Prep GL-RAD-A-021 Method:	Dry Soil Prep
Analytical Batch Number:	508720
Prep Batch Number:	508695
Dry Soil Prep GL-RAD-A-021 Batch Number:	508665

Sample ID	Client ID
157164005	3100-0000-190-RB
157164018	3100-0000-192-RB
157164055	3100-0000-200-RB
1201044355	Method Blank (MB)
1201044356	157164005(3100-0000-190-RB) Sample Duplicate (DUP)
1201044357	157164005(3100-0000-190-RB) Matrix Spike (MS)
1201044358	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this

narrative has been analyzed in accordance with GL-RAD-A-040 REV# 3.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157164005 (3100-0000-190-RB).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

Samples were reprepared due to high MDAs.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product:	Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)
Analytical Method:	DOE RESL Fe-1, Modified
Prep Method:	Ash Soil Prep
Dry Soil Prep GL-RAD-A-021 Method:	Dry Soil Prep
Analytical Batch Number:	508722
Prep Batch Number:	508401
Dry Soil Prep GL-RAD-A-021 Batch Number:	508398

Sample ID	Client ID
157164041	3100-0000-196-C1C-03
157164042	3100-0000-196-C1C-04
157164043	3100-0000-196-C3C-01
157164044	3100-0000-196-C5C-01
157164045	3100-0000-197-C1C-01
157164046	3100-0000-197-C1C-02
157164047	3100-0000-197-C1C-03
157164048	3100-0000-197-C1C-04
157164049	3100-0000-197-C3C-01
157164050	3100-0000-197-C4C-01
157164051	3100-0000-200-C1C-01
157164052	3100-0000-200-C1C-02
157164053	3100-0000-200-C1C-03
157164054	3100-0000-200-C1C-04
157164056	3100-0000-200-C3C-01
157164057	3100-0000-200-C5C-01
157164058	3100-0000-201-C1C-01
157164059	3100-0000-201-C1C-02
157164060	3100-0000-201-C1C-03
1201044363	Method Blank (MB)
1201044364	157164057(3100-0000-200-C5C-01) Sample Duplicate (DUP)
1201044365	157164057(3100-0000-200-C5C-01) Matrix Spike (MS)
1201044366	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-040 REV# 3.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:**Blank Information**

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157164057 (3100-0000-200-C5C-01).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:**Holding Time**

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

Samples 1201044363 (MB), 1201044364 (3100-0000-200-C5C-01), 157164041 (3100-0000-196-C1C-03), 157164042 (3100-0000-196-C1C-04), 157164043 (3100-0000-196-C3C-01), 157164044 (3100-0000-196-C5C-01), 157164046 (3100-0000-197-C1C-02), 157164048 (3100-0000-197-C1C-04), 157164049 (3100-0000-197-C3C-01), 157164050 (3100-0000-197-C4C-01), 157164051 (3100-0000-200-C1C-01), 157164052 (3100-0000-200-C1C-02), 157164053 (3100-0000-200-C1C-03), 157164054 (3100-0000-200-C1C-04), 157164056 (3100-0000-200-C3C-01), 157164058 (3100-0000-201-C1C-01), 157164059 (3100-0000-201-C1C-02) and 157164060 (3100-0000-201-C1C-03) were recounted due to high MDAs. Sample 1201044365 (3100-0000-200-C5C-01) was recounted due to low/high recovery.

Miscellaneous Information:**NCR Documentation**

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. The following NCR was generated for this SDG: NCR 302855 was generated due to RDL less than MDA. 1. Samples 157164 047,057 did not meet the client's detection limit. Samples cannot be recounted due to the quench number being out of the calibration range. Client was contacted and granted permission to report data. 1. Reporting results.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product:	Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)
Analytical Method:	DOE RESL Fe-1, Modified
Prep Method:	Ash Soil Prep
Dry Soil Prep GL-RAD-A-021 Method:	Dry Soil Prep
Analytical Batch Number:	511502
Prep Batch Number:	508396
Dry Soil Prep GL-RAD-A-021 Batch Number:	508391

Sample ID	Client ID
157164021	3100-0000-193-C1C-01
157164022	3100-0000-193-C1C-02
157164023	3100-0000-193-C1C-03
157164024	3100-0000-193-C1C-04
157164025	3100-0000-193-C4C-01
157164026	3100-0000-193-C5C-01
157164027	3100-0000-194-C1C-01
157164028	3100-0000-194-C1C-02
157164029	3100-0000-194-C1C-03
157164030	3100-0000-194-C1C-04
157164031	3100-0000-194-C3C-01
157164032	3100-0000-194-C4C-01
157164033	3100-0000-195-C1C-01
157164034	3100-0000-195-C1C-02
157164035	3100-0000-195-C1C-03
157164036	3100-0000-195-C1C-04
157164037	3100-0000-195-C3C-01
157164038	3100-0000-195-C4C-01
157164039	3100-0000-196-C1C-01
157164040	3100-0000-196-C1C-02
1201050584	Method Blank (MB)
1201050585	157164026(3100-0000-193-C5C-01) Sample Duplicate (DUP)
1201050586	157164026(3100-0000-193-C5C-01) Matrix Spike (MS)
1201050587	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-040 REV# 3.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157164026 (3100-0000-193-C5C-01).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

Samples 157164022 (3100-0000-193-C1C-02), 157164023 (3100-0000-193-C1C-03), 157164024 (3100-0000-193-C1C-04), 157164025 (3100-0000-193-C4C-01), 157164026 (3100-0000-193-C5C-01), 157164027 (3100-0000-194-C1C-01), 157164029 (3100-0000-194-C1C-03), 157164030 (3100-0000-194-C1C-04), 157164031 (3100-0000-194-C3C-01) and 157164038 (3100-0000-195-C4C-01) were recounted due to high MDAs. Samples were reprepared due to the quench number being outside the calibration range.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product:	Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)
Analytical Method:	DOE RESL Fe-1, Modified
Prep Method:	Ash Soil Prep
Dry Soil Prep GL-RAD-A-021 Method:	Dry Soil Prep
Analytical Batch Number:	511622
Prep Batch Number:	508388
Dry Soil Prep GL-RAD-A-021 Batch Number:	508387

Sample ID	Client ID
157164001	3100-0000-190-C1C-01
157164002	3100-0000-190-C1C-02
157164003	3100-0000-190-C1C-03
157164004	3100-0000-190-C1C-04
157164006	3100-0000-190-C2C-01
157164007	3100-0000-190-C4C-01
157164008	3100-0000-191-C1C-01
157164009	3100-0000-191-C1C-02
157164010	3100-0000-191-C1C-03
157164011	3100-0000-191-C1C-04
157164012	3100-0000-191-C3C-01
157164013	3100-0000-191-C5C-01
157164014	3100-0000-192-C1C-01
157164015	3100-0000-192-C1C-02
157164016	3100-0000-192-C1C-03
157164017	3100-0000-192-C1C-04
157164019	3100-0000-192-C3C-01
157164020	3100-0000-192-C5C-01
1201050876	Method Blank (MB)
1201050877	157164003(3100-0000-190-C1C-03) Sample Duplicate (DUP)
1201050878	157164003(3100-0000-190-C1C-03) Matrix Spike (MS)
1201050879	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-040 REV# 3.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157164003 (3100-0000-190-C1C-03).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

Samples 1201050876 (MB), 1201050877 (3100-0000-190-C1C-03), 157164001 (3100-0000-190-C1C-01), 157164002 (3100-0000-190-C1C-02), 157164003 (3100-0000-190-C1C-03), 157164004 (3100-0000-190-C1C-04), 157164006 (3100-0000-190-C2C-01), 157164007 (3100-0000-190-C4C-01), 157164008 (3100-0000-191-C1C-01), 157164009 (3100-0000-191-C1C-02), 157164010 (3100-0000-191-C1C-03), 157164011 (3100-0000-191-C1C-04), 157164012 (3100-0000-191-C3C-01), 157164013 (3100-0000-191-C5C-01), 157164014 (3100-0000-192-C1C-01), 157164015 (3100-0000-192-C1C-02), 157164016 (3100-0000-192-C1C-03), 157164017 (3100-0000-192-C1C-04), 157164019 (3100-0000-192-C3C-01) and 157164020 (3100-0000-192-C5C-01) were recounted due to high MDAs. Samples were reprep'd due to the quench number being outside the calibration range.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product:	Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)
Analytical Method:	DOE RESL Fe-1, Modified
Prep Method:	Ash Soil Prep
Dry Soil Prep GL-RAD-A-021 Method:	Dry Soil Prep
Analytical Batch Number:	512718
Prep Batch Number:	508405
Dry Soil Prep GL-RAD-A-021 Batch Number:	508403

Sample ID	Client ID
157164061	3100-0000-201-C1C-04
157164062	3100-0000-201-C4C-01
157164063	3100-0000-201-C6C-01
157164064	3100-0000-202-C1C-01
157164065	3100-0000-202-C1C-02
157164066	3100-0000-202-C1C-03
157164067	3100-0000-202-C1C-04
157164068	3100-0000-202-C6C-01
157164069	3100-0000-202-C9C-01
157164070	3100-0000-203-C1C-01
157164071	3100-0000-203-C1C-02
157164072	3100-0000-203-C1C-03
157164073	3100-0000-203-C1C-04
157164074	3100-0000-203-C4C-01
157164075	3100-0000-203-C6C-01
1201053398	Method Blank (MB)
1201053399	157164065(3100-0000-202-C1C-02) Sample Duplicate (DUP)
1201053400	157164065(3100-0000-202-C1C-02) Matrix Spike (MS)
1201053401	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-040 REV# 3.

Calibration Information:**Calibration Information**

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:**Blank Information**

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157164065 (3100-0000-202-C1C-02).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:**Holding Time**

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

Samples were reprepared due to low/high recovery.

Miscellaneous Information:**NCR Documentation**

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. The following NCR was generated for this SDG:

NCR 301081 was generated due to RDL less than MDA and Container scanning event for custody missed. 1. The analyst did not scan the samples 157164 061, 062, 063, 064, 065, 066, 067, 068, 069, 070, 071, 072, 073, 074, 075 into the batch prior to analysis, however the samples did remain in their custody at all times. The error has been corrected and the analyst has been instructed on the proper scanning procedures. 2. The duplicate, 1201053399, did not meet the detection limit due to a higher quench number. Sample was counted for 120 minutes. Project manager was contacted. 1. Reporting results. 2. Reporting results.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product:	Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)
Analytical Method:	DOE RESL Ni-1, Modified
Prep Method:	Ash Soil Prep
Dry Soil Prep GL-RAD-A-021 Method:	Dry Soil Prep
Analytical Batch Number:	508533
Prep Batch Number:	508388
Dry Soil Prep GL-RAD-A-021 Batch Number:	508387

Sample ID	Client ID
157164001	3100-0000-190-C1C-01
157164002	3100-0000-190-C1C-02
157164003	3100-0000-190-C1C-03
157164004	3100-0000-190-C1C-04
157164006	3100-0000-190-C2C-01
157164007	3100-0000-190-C4C-01
157164008	3100-0000-191-C1C-01
157164009	3100-0000-191-C1C-02
157164010	3100-0000-191-C1C-03
157164011	3100-0000-191-C1C-04
157164012	3100-0000-191-C3C-01
157164013	3100-0000-191-C5C-01
157164014	3100-0000-192-C1C-01
157164015	3100-0000-192-C1C-02
157164016	3100-0000-192-C1C-03
157164017	3100-0000-192-C1C-04
157164019	3100-0000-192-C3C-01
157164020	3100-0000-192-C5C-01
1201043866	Method Blank (MB)
1201043867	157164012(3100-0000-191-C3C-01) Sample Duplicate (DUP)
1201043868	157164012(3100-0000-191-C3C-01) Matrix Spike (MS)
1201043869	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-022 REV# 7.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157164012 (3100-0000-191-C3C-01).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product: Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)
 Analytical Method: DOE RESL Ni-1, Modified
 Prep Method: Ash Soil Prep
 Dry Soil Prep GL-RAD-A-021 Method: Dry Soil Prep
 Analytical Batch Number: 508726
 Prep Batch Number: 508695
 Dry Soil Prep GL-RAD-A-021 Batch Number: 508665

Sample ID	Client ID
157164005	3100-0000-190-RB
157164018	3100-0000-192-RB
157164055	3100-0000-200-RB
1201044375	Method Blank (MB)
1201044376	157164055(3100-0000-200-RB) Sample Duplicate (DUP)
1201044377	157164055(3100-0000-200-RB) Matrix Spike (MS)
1201044378	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-022 REV# 7.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157164055 (3100-0000-200-RB).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:**Holding Time**

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

Sample 1201044378 (LCS) was recounted due to low/high recovery.

Miscellaneous Information:**NCR Documentation**

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product:	Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)
Analytical Method:	DOE RESL Ni-1, Modified
Prep Method:	Ash Soil Prep
Dry Soil Prep GL-RAD-A-021 Method:	Dry Soil Prep
Analytical Batch Number:	508728
Prep Batch Number:	508396
Dry Soil Prep GL-RAD-A-021 Batch Number:	508391

Sample ID	Client ID
157164021	3100-0000-193-C1C-01
157164022	3100-0000-193-C1C-02
157164023	3100-0000-193-C1C-03
157164024	3100-0000-193-C1C-04
157164025	3100-0000-193-C4C-01
157164026	3100-0000-193-C5C-01
157164027	3100-0000-194-C1C-01
157164028	3100-0000-194-C1C-02
157164029	3100-0000-194-C1C-03
157164030	3100-0000-194-C1C-04
157164031	3100-0000-194-C3C-01
157164032	3100-0000-194-C4C-01
157164033	3100-0000-195-C1C-01
157164034	3100-0000-195-C1C-02
157164035	3100-0000-195-C1C-03
157164036	3100-0000-195-C1C-04
157164037	3100-0000-195-C3C-01
157164038	3100-0000-195-C4C-01
157164039	3100-0000-196-C1C-01
157164040	3100-0000-196-C1C-02
1201044381	Method Blank (MB)
1201044382	157164036(3100-0000-195-C1C-04) Sample Duplicate (DUP)
1201044383	157164036(3100-0000-195-C1C-04) Matrix Spike (MS)
1201044384	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-022 REV# 7.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157164036 (3100-0000-195-C1C-04).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product:	Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)
Analytical Method:	DOE RESL Ni-1, Modified
Prep Method:	Ash Soil Prep
Dry Soil Prep GL-RAD-A-021 Method:	Dry Soil Prep
Analytical Batch Number:	508729
Prep Batch Number:	508401
Dry Soil Prep GL-RAD-A-021 Batch Number:	508398

Sample ID	Client ID
157164041	3100-0000-196-C1C-03
157164042	3100-0000-196-C1C-04
157164043	3100-0000-196-C3C-01
157164044	3100-0000-196-C5C-01
157164045	3100-0000-197-C1C-01
157164046	3100-0000-197-C1C-02
157164047	3100-0000-197-C1C-03
157164048	3100-0000-197-C1C-04
157164049	3100-0000-197-C3C-01
157164050	3100-0000-197-C4C-01
157164051	3100-0000-200-C1C-01
157164052	3100-0000-200-C1C-02
157164053	3100-0000-200-C1C-03
157164054	3100-0000-200-C1C-04
157164056	3100-0000-200-C3C-01
157164057	3100-0000-200-C5C-01
157164058	3100-0000-201-C1C-01
157164059	3100-0000-201-C1C-02
157164060	3100-0000-201-C1C-03
1201044385	Method Blank (MB)
1201044386	157164057(3100-0000-200-C5C-01) Sample Duplicate (DUP)
1201044387	157164057(3100-0000-200-C5C-01) Matrix Spike (MS)
1201044388	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-022 REV# 7.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:**Blank Information**

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157164057 (3100-0000-200-C5C-01).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:**Holding Time**

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

Sample 157164059 (3100-0000-201-C1C-02) was recounted due to lumex interference.

Miscellaneous Information:**NCR Documentation**

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product:	Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)
Analytical Method:	DOE RESL Ni-1, Modified
Prep Method:	Ash Soil Prep
Dry Soil Prep GL-RAD-A-021 Method:	Dry Soil Prep
Analytical Batch Number:	508731
Prep Batch Number:	508405
Dry Soil Prep GL-RAD-A-021 Batch Number:	508403

Sample ID	Client ID
157164061	3100-0000-201-C1C-04
157164062	3100-0000-201-C4C-01
157164063	3100-0000-201-C6C-01
157164064	3100-0000-202-C1C-01
157164065	3100-0000-202-C1C-02
157164066	3100-0000-202-C1C-03
157164067	3100-0000-202-C1C-04
157164068	3100-0000-202-C6C-01
157164069	3100-0000-202-C9C-01
157164070	3100-0000-203-C1C-01
157164071	3100-0000-203-C1C-02
157164072	3100-0000-203-C1C-03
157164073	3100-0000-203-C1C-04
157164074	3100-0000-203-C4C-01
157164075	3100-0000-203-C6C-01
1201044389	Method Blank (MB)
1201044390	157164065(3100-0000-202-C1C-02) Sample Duplicate (DUP)
1201044391	157164065(3100-0000-202-C1C-02) Matrix Spike (MS)
1201044392	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-022 REV# 7.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157164065 (3100-0000-202-C1C-02).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

Sample 157164062 (3100-0000-201-C4C-01) was recounted due to high lumex. Sample 1201044392 (LCS) was recounted due to low/high recovery. Sample 157164062 (3100-0000-201-C4C-01) was recounted due to the quench number being outside the calibration range.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. The following NCR was generated for this SDG: NCR 301766 was generated due to Other. 1. Sample 157164062 had a result that was more negative than three times the one sigma total propagated uncertainty due to high lumex. 1. Reporting results.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product: LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)

Analytical Method: EPA 906.0 Modified

Analytical Batch Number: 508624

Sample ID	Client ID
157164001	3100-0000-190-C1C-01
157164002	3100-0000-190-C1C-02
157164003	3100-0000-190-C1C-03
157164004	3100-0000-190-C1C-04
157164006	3100-0000-190-C2C-01
157164007	3100-0000-190-C4C-01
157164008	3100-0000-191-C1C-01
157164009	3100-0000-191-C1C-02
157164010	3100-0000-191-C1C-03
157164011	3100-0000-191-C1C-04
157164012	3100-0000-191-C3C-01
157164013	3100-0000-191-C5C-01
157164014	3100-0000-192-C1C-01
157164015	3100-0000-192-C1C-02
157164016	3100-0000-192-C1C-03
157164017	3100-0000-192-C1C-04
157164019	3100-0000-192-C3C-01
157164020	3100-0000-192-C5C-01
1201044096	Method Blank (MB)
1201044097	157164010(3100-0000-191-C1C-03) Sample Duplicate (DUP)
1201044098	157164010(3100-0000-191-C1C-03) Matrix Spike (MS)
1201044099	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-002 REV# 10.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157164010 (3100-0000-191-C1C-03).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

Samples 1201044096 (MB), 1201044097 (3100-0000-191-C1C-03), 157164001 (3100-0000-190-C1C-01), 157164002 (3100-0000-190-C1C-02), 157164003 (3100-0000-190-C1C-03), 157164004 (3100-0000-190-C1C-04), 157164006 (3100-0000-190-C2C-01), 157164007 (3100-0000-190-C4C-01), 157164008 (3100-0000-191-C1C-01), 157164009 (3100-0000-191-C1C-02), 157164010 (3100-0000-191-C1C-03), 157164011 (3100-0000-191-C1C-04), 157164012 (3100-0000-191-C3C-01), 157164013 (3100-0000-191-C5C-01), 157164014 (3100-0000-192-C1C-01), 157164015 (3100-0000-192-C1C-02), 157164016 (3100-0000-192-C1C-03), 157164017 (3100-0000-192-C1C-04), 157164019 (3100-0000-192-C3C-01) and 157164020 (3100-0000-192-C5C-01) were recounted due to high MDAs. Sample 1201044098 (3100-0000-191-C1C-03) was recounted due to high relative percent difference/relative error ratio. Sample 1201044098 (3100-0000-191-C1C-03) was recounted due to low/high recovery.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product: LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)
Analytical Method: EPA 906.0 Modified
Analytical Batch Number: 508625

Sample ID	Client ID
157164021	3100-0000-193-C1C-01
157164022	3100-0000-193-C1C-02
157164023	3100-0000-193-C1C-03
157164024	3100-0000-193-C1C-04
157164025	3100-0000-193-C4C-01
157164026	3100-0000-193-C5C-01
157164027	3100-0000-194-C1C-01
157164028	3100-0000-194-C1C-02
157164029	3100-0000-194-C1C-03
157164030	3100-0000-194-C1C-04
157164031	3100-0000-194-C3C-01
157164032	3100-0000-194-C4C-01
157164033	3100-0000-195-C1C-01
157164034	3100-0000-195-C1C-02
157164035	3100-0000-195-C1C-03
157164036	3100-0000-195-C1C-04
157164037	3100-0000-195-C3C-01
157164038	3100-0000-195-C4C-01
157164039	3100-0000-196-C1C-01
157164040	3100-0000-196-C1C-02
1201044100	Method Blank (MB)
1201044101	157164029(3100-0000-194-C1C-03) Sample Duplicate (DUP)
1201044102	157164029(3100-0000-194-C1C-03) Matrix Spike (MS)
1201044103	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-002 REV# 10.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157164029 (3100-0000-194-C1C-03).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

Samples 1201044101 (3100-0000-194-C1C-03), 157164022 (3100-0000-193-C1C-02), 157164023 (3100-0000-193-C1C-03), 157164024 (3100-0000-193-C1C-04), 157164025 (3100-0000-193-C4C-01), 157164029 (3100-0000-194-C1C-03), 157164030 (3100-0000-194-C1C-04), 157164031 (3100-0000-194-C3C-01), 157164032 (3100-0000-194-C4C-01), 157164033 (3100-0000-195-C1C-01), 157164034 (3100-0000-195-C1C-02), 157164035 (3100-0000-195-C1C-03) and 157164036 (3100-0000-195-C1C-04) were recounted due to high MDAs.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product: LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)

Analytical Method: EPA 906.0 Modified

Analytical Batch Number: 508626

Sample ID	Client ID
157164041	3100-0000-196-C1C-03
157164042	3100-0000-196-C1C-04
157164043	3100-0000-196-C3C-01
157164044	3100-0000-196-C5C-01
157164045	3100-0000-197-C1C-01
157164046	3100-0000-197-C1C-02
157164047	3100-0000-197-C1C-03
157164048	3100-0000-197-C1C-04
157164049	3100-0000-197-C3C-01
157164050	3100-0000-197-C4C-01
157164051	3100-0000-200-C1C-01
157164052	3100-0000-200-C1C-02
157164053	3100-0000-200-C1C-03
157164054	3100-0000-200-C1C-04
157164056	3100-0000-200-C3C-01
157164057	3100-0000-200-C5C-01
157164058	3100-0000-201-C1C-01
157164059	3100-0000-201-C1C-02
157164060	3100-0000-201-C1C-03
1201044104	Method Blank (MB)
1201044105	157164051(3100-0000-200-C1C-01) Sample Duplicate (DUP)
1201044106	157164051(3100-0000-200-C1C-01) Matrix Spike (MS)
1201044107	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-002 REV# 10.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:**Blank Information**

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157164051 (3100-0000-200-C1C-01).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:**Holding Time**

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Miscellaneous Information:**NCR Documentation**

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product: LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)
Analytical Method: EPA 906.0 Modified
Analytical Batch Number: 508627

Sample ID	Client ID
157164061	3100-0000-201-C1C-04
157164062	3100-0000-201-C4C-01
157164063	3100-0000-201-C6C-01
157164064	3100-0000-202-C1C-01
157164065	3100-0000-202-C1C-02
157164066	3100-0000-202-C1C-03
157164067	3100-0000-202-C1C-04
157164068	3100-0000-202-C6C-01
157164069	3100-0000-202-C9C-01
157164070	3100-0000-203-C1C-01
157164071	3100-0000-203-C1C-02
157164072	3100-0000-203-C1C-03
157164073	3100-0000-203-C1C-04
157164074	3100-0000-203-C4C-01
157164075	3100-0000-203-C6C-01
1201044108	Method Blank (MB)
1201044109	157164067(3100-0000-202-C1C-04) Sample Duplicate (DUP)
1201044110	157164067(3100-0000-202-C1C-04) Matrix Spike (MS)
1201044111	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-002 REV# 10.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157164067 (3100-0000-202-C1C-04).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

Samples 1201044109 (3100-0000-202-C1C-04), 157164061 (3100-0000-201-C1C-04), 157164062 (3100-0000-201-C4C-01), 157164063 (3100-0000-201-C6C-01), 157164066 (3100-0000-202-C1C-03), 157164067 (3100-0000-202-C1C-04), 157164068 (3100-0000-202-C6C-01), 157164069 (3100-0000-202-C9C-01), 157164070 (3100-0000-203-C1C-01), 157164071 (3100-0000-203-C1C-02), 157164072 (3100-0000-203-C1C-03), 157164073 (3100-0000-203-C1C-04), 157164074 (3100-0000-203-C4C-01) and 157164075 (3100-0000-203-C6C-01) were recounted due to high MDAs.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product: LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)
Analytical Method: EPA 906.0 Modified
Analytical Batch Number: 510672

Sample ID	Client ID
157164005	3100-0000-190-RB
157164018	3100-0000-192-RB
157164055	3100-0000-200-RB
1201048715	Method Blank (MB)
1201048716	157164005(3100-0000-190-RB) Sample Duplicate (DUP)
1201048717	157164005(3100-0000-190-RB) Matrix Spike (MS)
1201048718	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-002 REV# 10.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157164005 (3100-0000-190-RB).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

Samples were reprepared due to low/high recovery.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product:	Liquid Scint C14, Solid-HTD2,ALL2 (CT)
Analytical Method:	EPA EERF C-01 Modified
Analytical Batch Number:	508642

Sample ID	Client ID
157164001	3100-0000-190-C1C-01
157164002	3100-0000-190-C1C-02
157164008	3100-0000-191-C1C-01
157164009	3100-0000-191-C1C-02
157164014	3100-0000-192-C1C-01
157164015	3100-0000-192-C1C-02
157164021	3100-0000-193-C1C-01
157164022	3100-0000-193-C1C-02
157164027	3100-0000-194-C1C-01
157164028	3100-0000-194-C1C-02
157164033	3100-0000-195-C1C-01
157164034	3100-0000-195-C1C-02
157164039	3100-0000-196-C1C-01
157164040	3100-0000-196-C1C-02
1201044161	Method Blank (MB)
1201044162	157164028(3100-0000-194-C1C-02) Sample Duplicate (DUP)
1201044163	157164028(3100-0000-194-C1C-02) Matrix Spike (MS)
1201044164	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-003 REV# 8.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157164028 (3100-0000-194-C1C-02).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product:	Liquid Scint C14, Solid-HTD2,ALL2 (CT)
Analytical Method:	EPA EERF C-01 Modified
Analytical Batch Number:	508644

Sample ID	Client ID
157164005	3100-0000-190-RB
157164018	3100-0000-192-RB
157164055	3100-0000-200-RB
1201044221	Method Blank (MB)
1201044222	157164055(3100-0000-200-RB) Sample Duplicate (DUP)
1201044223	157164055(3100-0000-200-RB) Matrix Spike (MS)
1201044224	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-003 REV# 8.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157164055 (3100-0000-200-RB).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product: Liquid Scint C14, Solid-HTD2,ALL2 (CT)
Analytical Method: EPA EERF C-01 Modified
Analytical Batch Number: 508737

Sample ID	Client ID
157164045	3100-0000-197-C1C-01
157164046	3100-0000-197-C1C-02
157164051	3100-0000-200-C1C-01
157164052	3100-0000-200-C1C-02
157164058	3100-0000-201-C1C-01
157164059	3100-0000-201-C1C-02
157164064	3100-0000-202-C1C-01
157164065	3100-0000-202-C1C-02
157164070	3100-0000-203-C1C-01
157164071	3100-0000-203-C1C-02
1201044404	Method Blank (MB)
1201044405	157164045(3100-0000-197-C1C-01) Sample Duplicate (DUP)
1201044406	157164045(3100-0000-197-C1C-01) Matrix Spike (MS)
1201044407	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-003 REV# 8.

Calibration Information:**Calibration Information**

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:**Blank Information**

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157164045 (3100-0000-197-C1C-01).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:**Holding Time**

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Miscellaneous Information:**NCR Documentation**

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

COMPANY - WIDE NONCONFORMANCE REPORT			
Mo.Day Yr. 22-MAR-06	Division: Radiochemistry	Quality Criteria: Specifications	Type: Process
Instrument Type: LSC	Test / Method: DOE EML HASL-300, Pu-11-RC Modified	Matrix Type: Solid	Client Code: YANK001
Batch ID: 508580	Sample Numbers: 1201043984		
Potentially affected work order(s)(SDG): 157164(MSR#06-0328)			
Application Issues: Failed Recovery for MS/PS			
Specification and Requirements Nonconformance Description:		NRG Disposition:	
<p>1. Matrix spike 1201043984 did not meet the recovery requirement. The samples did not have any activity and met the required detection limit. All other quality control samples met their requirements. The project manager was contacted, and permission was received to report the data.</p>		<p>1. Reporting results.</p>	

Originator's Name:
 John Parker 22-MAR-06

Data Validator/Group Leader:
 Heather Anderson 22-MAR-06

Quality Review:

Director:

COMPANY - WIDE NONCONFORMANCE REPORT			
Mo.Day Yr. 14-MAR-06	Division: Radiochemistry	Quality Criteria: Specifications	Type: Process
Instrument Type: GFPC	Test / Method: EPA 905.0 Modified	Matrix Type: Solid	Client Code: YANK
Batch ID: 508562	Sample Numbers: See Below		
Potentially affected work order(s)(SDG): 157164(MSR#06-0328)			
Application Issues: Container scanning event for custody missed			
Specification and Requirements Nonconformance Description:		NRG Disposition:	
1. The analyst did not scan the samples 157164 061,062,063,064,065,066,067,068,069,070,071,072,073,074,075 into the batch prior to analysis, however the samples did remain in their custody at all times. The error has been corrected and the analyst has been instructed on the proper scanning procedures.		1. Reporting results.	

Originator's Name:
 Melanie Aycock 14-MAR-06

Data Validator/Group Leader:
 Heather Anderson 22-MAR-06

Quality Review:

Director:

COMPANY - WIDE NONCONFORMANCE REPORT

Mo.Day Yr. 27-MAR-06	Division: Radiochemistry	Quality Criteria: Specifications	Type: Process
Instrument Type: LSC	Test / Method: DOE RESL Fe-1, Modified	Matrix Type: Solid	Client Code: YANK
Batch ID: 508722	Sample Numbers: See Below		
Potentially affected work order(s)(SDG): 157164(MSR#06-0328)			
Application Issues: RDL less than MDA			
Specification and Requirements Nonconformance Description:		NRG Disposition:	
1. Samples 157164 047,057 did not meet the client's detection limit. Samples cannot be recounted due to the quench number being out of the calibration range. Client was contacted and granted permission to report data.		1. Reporting results.	

Originator's Name:
 Melanie Aycock 27-MAR-06

Data Validator/Group Leader:
 Heather Anderson 27-MAR-06

Quality Review:

Director:

COMPANY - WIDE NONCONFORMANCE REPORT

Mo. Day Yr. 22-MAR-06	Division: Radiochemistry	Quality Criteria: Specifications	Type: Process
Instrument Type: LSC	Test / Method: DOE RESL Ni-1, Modified	Matrix Type: Solid	Client Code: YANK
Batch ID: 508731	Sample Numbers: See Below		
Potentially affected work order(s)(SDG): 157164(MSR#06-0328)			
Application Issues: Other			
Specification and Requirements Nonconformance Description:		NRG Disposition:	
1. Sample 157164062 had a result that was more negative than three times the one sigma total propagated uncertainty due to high lumex.		1. Reporting results.	

Originator's Name:
 John Parker 22-MAR-06

Data Validator/Group Leader:
 Melanie Aycock 24-MAR-06

Quality Review:

Director:

SAMPLE DATA SUMMARY

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report for

YANK001 Connecticut Yankee Atomic Power Co.

Client SDG: MSR#06-0328 GEL Work Order: 157164


The Qualifiers in this report are defined as follows:

- * Indicates that a quality control analyte recovery is outside of specified acceptance criteria.
- < Result is less than amount reported.
- > Result is greater than amount reported.
- B Target analyte was detected in the sample as well as the associated blank.
- BD Results below the MDC or low tracer recovery.
- D Sample has been diluted and reanalyzed after initially exceeding inst. calibration range
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value.
- P The response between the confirmation and the primary columns is >40% Different.
- R Sample results are rejected.
- U Target analyte was analyzed for but not detected above the MDL or LOD.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- Y QC Samples were not spiked with this compound.
- Z Paint Filter qualifier: Particulates passed through the filter. No free liquids were observed.
- d The 2:1 depletion requirement was not met for this sample
- h Sample preparation or preservation holding time exceeded.
- ND The analyte concentration is not detected above the reporting limit.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

** Indicates the analyte is a surrogate compound.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Cheryl Jones.



Reviewed by _____

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID:	3100-0000-190-C1C-01	Project:	YANK01204
Sample ID:	157164001	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	14-FEB-06		
Receive Date:	02-MAR-06		
Collector:	Client		
Moisture:	5.83%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec Am241, Cm, Solid-TRU2,ALL2 (CT)</i>													
Americium-241	U	0.00718	+/-0.0186	0.0124	+/-0.0187	0.0456	pCi/g		LCW1	03/10/06	0905	508564	1
Curium-242	U	0.00648	+/-0.0172	0.00971	+/-0.0172	0.0425	pCi/g						
Curium-243/244	U	0.00493	+/-0.0331	0.0328	+/-0.0331	0.0865	pCi/g						
<i>Alphaspec Pu, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-238	U	-0.00176	+/-0.0196	0.0224	+/-0.0196	0.0686	pCi/g		LCW1	03/13/06	1027	508566	2
Plutonium-239/240	U	0.0134	+/-0.025	0.0142	+/-0.0251	0.0521	pCi/g						
<i>Liquid Scint Pu241, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-241	U	0.829	+/-1.52	1.44	+/-1.52	2.95	pCi/g		LCW1	03/15/06	2248	508569	3
Rad Gamma Spec Analysis													
<i>Gammascpec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.513	+/-0.151	0.0572	+/-0.148	0.128	pCi/g		MJH1	03/14/06	1504	509660	4
Americium-241	U	-0.0174	+/-0.103	0.0764	+/-0.101	0.160	pCi/g						
Bismuth-212		0.310	+/-0.281	0.137	+/-0.275	0.302	pCi/g						
Bismuth-214		0.529	+/-0.103	0.0361	+/-0.101	0.078	pCi/g						
Cesium-134	U	0.0381	+/-0.0365	0.0256	+/-0.0358	0.0553	pCi/g						
Cesium-137	U	0.00904	+/-0.0249	0.0215	+/-0.0244	0.0465	pCi/g						
Cobalt-60		0.107	+/-0.0469	0.0158	+/-0.0459	0.0372	pCi/g						
Europium-152	U	0.077	+/-0.0854	0.0576	+/-0.0837	0.122	pCi/g						
Europium-154	U	0.0268	+/-0.0888	0.0682	+/-0.0871	0.151	pCi/g						
Europium-155	U	-0.00409	+/-0.0601	0.0528	+/-0.0589	0.110	pCi/g						
Lead-212		0.462	+/-0.070	0.0317	+/-0.0686	0.0664	pCi/g						
Lead-214		0.517	+/-0.106	0.0387	+/-0.104	0.0821	pCi/g						
Manganese-54	U	0.0221	+/-0.0264	0.0236	+/-0.0259	0.0509	pCi/g						
Niobium-94	U	-0.0168	+/-0.0231	0.0179	+/-0.0226	0.0388	pCi/g						
Potassium-40		7.79	+/-1.05	0.210	+/-1.03	0.476	pCi/g						
Radium-226		0.529	+/-0.103	0.0361	+/-0.101	0.078	pCi/g						
Silver-108m	U	-0.00155	+/-0.021	0.0168	+/-0.0206	0.0361	pCi/g						
Thallium-208		0.138	+/-0.0528	0.0184	+/-0.0517	0.0399	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	0.0279	+/-0.0236	0.0214	+/-0.0236	0.0471	pCi/g		BXFI	03/07/06	2046	508559	5
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium		3.12	+/-1.33	1.11	+/-1.33	2.27	pCi/g		CHSI	03/11/06	0101	508624	6

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-190-C1C-01
Sample ID: 157164001
Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time Batch	Mtd
Plutonium-242		Alphaspec Pu, Solid-TRU2,ALL2			61		(15%-125%)					
Carrier/Tracer Recovery		Liquid Scint Pu241, Solid-TRU2, /			88		(25%-125%)					
Carrier/Tracer Recovery		GFPC, Sr90, solid Quick TAT			59		(25%-125%)					
Carrier/Tracer Recovery		Liquid Scint Fe55, Solid-HTD2,AI			70		(15%-125%)					
Carrier/Tracer Recovery		Liquid Scint Ni63, Solid-HTD2,AI			86		(25%-125%)					
Carrier/Tracer Recovery		Liquid Scint Tc99, Solid-HTD2,A			80		(15%-125%)					

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-190-C1C-02
Sample ID: 157164002
Matrix: CT
Collect Date: 14-FEB-06
Receive Date: 02-MAR-06
Collector: Client
Moisture: 4.3%

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec Am241, Cm, Solid-TRU2,ALL2 (CT)</i>													
Americium-241	U	0.00521	+/-0.0148	0.0102	+/-0.0148	0.0376	pCi/g		LCW1	03/10/06	0905	508564	1
Curium-242	U	-0.00337	+/-0.0145	0.0113	+/-0.0146	0.0417	pCi/g						
Curium-243/244	U	0.018	+/-0.0292	0.0217	+/-0.0293	0.0606	pCi/g						
<i>Alphaspec Pu, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-238	U	0.00919	+/-0.0285	0.0256	+/-0.0285	0.0694	pCi/g		LCW1	03/10/06	1127	508566	2
Plutonium-239/240	U	0.00892	+/-0.0244	0.0204	+/-0.0244	0.059	pCi/g						
<i>Liquid Scint Pu241, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-241	U	0.803	+/-1.80	1.71	+/-1.80	3.51	pCi/g		LCW1	03/15/06	2335	508569	3
Rad Gamma Spec Analysis													
<i>Gammasespec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.373	+/-0.205	0.0945	+/-0.201	0.209	pCi/g		MJH1	03/14/06	1505	509660	4
Americium-241	U	0.117	+/-0.205	0.129	+/-0.201	0.269	pCi/g						
Bismuth-212	U	0.315	+/-0.321	0.162	+/-0.315	0.365	pCi/g						
Bismuth-214		0.735	+/-0.142	0.0517	+/-0.139	0.112	pCi/g						
Cesium-134	U	0.0337	+/-0.0519	0.0316	+/-0.0509	0.0691	pCi/g						
Cesium-137	U	0.0424	+/-0.0679	0.0234	+/-0.0665	0.0519	pCi/g						
Cobalt-60	U	0.0231	+/-0.0283	0.0268	+/-0.0277	0.0612	pCi/g						
Europium-152	U	-0.00116	+/-0.106	0.0761	+/-0.104	0.163	pCi/g						
Europium-154	U	0.0568	+/-0.104	0.0927	+/-0.102	0.206	pCi/g						
Europium-155	U	-0.00487	+/-0.0963	0.0783	+/-0.0944	0.164	pCi/g						
Lead-212		0.570	+/-0.0977	0.0409	+/-0.0957	0.0868	pCi/g						
Lead-214		0.940	+/-0.145	0.054	+/-0.142	0.115	pCi/g						
Manganese-54	U	0.00822	+/-0.0348	0.0293	+/-0.0341	0.0641	pCi/g						
Niobium-94	U	0.031	+/-0.0301	0.0277	+/-0.0295	0.0599	pCi/g						
Potassium-40		8.25	+/-1.11	0.188	+/-1.08	0.452	pCi/g						
Radium-226		0.735	+/-0.142	0.0517	+/-0.139	0.112	pCi/g						
Silver-108m	U	0.0257	+/-0.0301	0.0266	+/-0.0295	0.0571	pCi/g						
Thallium-208		0.110	+/-0.0614	0.0243	+/-0.0602	0.0535	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	0.00282	+/-0.0175	0.0187	+/-0.0175	0.0409	pCi/g		BXF1	03/07/06	2046	508559	5
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium	U	1.01	+/-1.31	1.14	+/-1.31	2.34	pCi/g		CHS1	03/11/06	0234	508624	6

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-190-C1C-02 Project: YANK01204
Sample ID: 157164002 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Liquid Scintillation Analysis													
<i>Liquid Scint C14, Solid-HTD2,ALL2 (CT)</i>													
Carbon-14	U	-0.23	+/-0.272	0.240	+/-0.272	0.502	pCi/g		MXP1	03/13/06	1813	508642	7
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	-2.17	+/-1.76	1.29	+/-1.76	2.62	pCi/g		JS1	03/23/06	0051	511622	8
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	-0.447	+/-1.16	0.983	+/-1.16	2.00	pCi/g		SLN1	03/13/06	0727	508533	10
<i>Liquid Scint Tc99, Solid-HTD2,ALL2 (CT)</i>													
Technetium-99	U	-0.175	+/-0.360	0.309	+/-0.360	0.640	pCi/g		SLN1	03/13/06	1002	508570	11

Solid Preparation

Laboratory Composite – CONCRETE

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	JMB1	03/03/06	1542	508388
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1655	508387
GL-RAD-A-026	Laboratory sample composite				508377

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, Am-05-RC Modified
2	DOE EML HASL-300, Pu-11-RC Modified
3	DOE EML HASL-300, Pu-11-RC Modified
4	EML HASL 300, 4.5.2.3
5	EPA 905.0 Modified
6	EPA 906.0 Modified
7	EPA EERF C-01 Modified
8	DOE RESL Fe-1, Modified
9	DOE RESL Fe-1, Modified
10	DOE RESL Ni-1, Modified
11	DOE EML HASL-300, Tc-02-RC Modified
12	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Americium-243	Alphaspec Am241, Cm, Solid-TR1	99	(15%-125%)

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-190-C1C-02
Sample ID: 157164002
Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Plutonium-242		Alphaspec Pu, Solid-TRU2,ALL2			79		(15%-125%)						
Carrier/Tracer Recovery		Liquid Scint Pu241, Solid-TRU2, /			76		(25%-125%)						
Carrier/Tracer Recovery		GFPC, Sr90, solid Quick TAT			73		(25%-125%)						
Carrier/Tracer Recovery		Liquid Scint Fe55, Solid-HTD2,A)			52		(15%-125%)						
Carrier/Tracer Recovery		Liquid Scint Ni63, Solid-HTD2,A)			87		(25%-125%)						
Carrier/Tracer Recovery		Liquid Scint Tc99, Solid-HTD2,A)			75		(15%-125%)						

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-190-C1C-03
Sample ID: 157164003
Matrix: CT
Collect Date: 14-FEB-06
Receive Date: 02-MAR-06
Collector: Client
Moisture: 5.48%

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>Gammascpec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.374	+/-0.158	0.063	+/-0.155	0.137	pCi/g		MJH1	03/14/06	1505	509660	1
Americium-241	U	0.0075	+/-0.0839	0.0663	+/-0.0822	0.138	pCi/g						
Bismuth-212	U	0.102	+/-0.334	0.142	+/-0.328	0.305	pCi/g						
Bismuth-214		0.549	+/-0.133	0.0375	+/-0.131	0.0795	pCi/g						
Cesium-134	U	0.0244	+/-0.0236	0.0216	+/-0.0231	0.0463	pCi/g						
Cesium-137	U	0.00692	+/-0.0226	0.019	+/-0.0221	0.0407	pCi/g						
Cobalt-60	U	0.0169	+/-0.0254	0.0226	+/-0.0249	0.049	pCi/g						
Europium-152	U	0.0239	+/-0.0594	0.047	+/-0.0582	0.0995	pCi/g						
Europium-154	U	-0.0182	+/-0.0715	0.0581	+/-0.0701	0.127	pCi/g						
Europium-155	U	0.0084	+/-0.0659	0.0559	+/-0.0646	0.117	pCi/g						
Lead-212		0.396	+/-0.068	0.0273	+/-0.0666	0.0573	pCi/g						
Lead-214		0.581	+/-0.113	0.0307	+/-0.110	0.0654	pCi/g						
Manganese-54	U	-0.0107	+/-0.0237	0.0191	+/-0.0232	0.041	pCi/g						
Niobium-94	U	0.00975	+/-0.0196	0.0167	+/-0.0192	0.0357	pCi/g						
Potassium-40		8.48	+/-1.00	0.183	+/-0.983	0.405	pCi/g						
Radium-226		0.549	+/-0.133	0.0375	+/-0.131	0.0795	pCi/g						
Silver-108m	U	0.00249	+/-0.0203	0.0153	+/-0.0199	0.0327	pCi/g						
Thallium-208		0.114	+/-0.0408	0.0175	+/-0.040	0.0375	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	0.018	+/-0.0184	0.017	+/-0.0184	0.0378	pCi/g		BXF1	03/07/06	2047	508559	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium	U	1.05	+/-1.26	1.10	+/-1.26	2.26	pCi/g		CHS1	03/11/06	0407	508624	3
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	0.112	+/-1.71	1.27	+/-1.71	2.59	pCi/g		JS1	03/20/06	0126	511622	4
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	-0.334	+/-1.29	1.09	+/-1.29	2.21	pCi/g		SLN1	03/13/06	0900	508533	6
Solid Preparation													
<i>Laboratory Composite – CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID:	3100-0000-190-C1C-04	Project:	YANK01204
Sample ID:	157164004	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	14-FEB-06		
Receive Date:	02-MAR-06		
Collector:	Client		
Moisture:	5.56%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>Gammascpec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.532	+/-0.146	0.059	+/-0.143	0.129	pCi/g		MJH1	03/14/06	1505	509660	1
Americium-241	U	-0.0773	+/-0.141	0.103	+/-0.138	0.216	pCi/g						
Bismuth-212	U	0.228	+/-0.316	0.138	+/-0.310	0.298	pCi/g						
Bismuth-214		0.666	+/-0.114	0.0374	+/-0.112	0.0796	pCi/g						
Cesium-134	U	-1.290E-05	+/-0.0238	0.0202	+/-0.0233	0.0438	pCi/g						
Cesium-137	U	0.0257	+/-0.0226	0.0192	+/-0.0222	0.0411	pCi/g						
Cobalt-60		0.0475	+/-0.0346	0.019	+/-0.0339	0.0422	pCi/g						
Europium-152	U	0.0182	+/-0.0633	0.050	+/-0.0621	0.106	pCi/g						
Europium-154	U	-0.0812	+/-0.0772	0.0542	+/-0.0757	0.120	pCi/g						
Europium-155	U	-0.00422	+/-0.0666	0.0589	+/-0.0652	0.124	pCi/g						
Lead-212		0.523	+/-0.0696	0.030	+/-0.0682	0.063	pCi/g						
Lead-214		0.695	+/-0.106	0.0334	+/-0.104	0.0711	pCi/g						
Manganese-54	U	-0.00374	+/-0.0224	0.0187	+/-0.022	0.0404	pCi/g						
Niobium-94	U	0.00768	+/-0.0154	0.0173	+/-0.0151	0.037	pCi/g						
Potassium-40		9.27	+/-0.817	0.171	+/-0.800	0.383	pCi/g						
Radium-226		0.666	+/-0.114	0.0374	+/-0.112	0.0796	pCi/g						
Silver-108m	U	-0.0151	+/-0.0198	0.0158	+/-0.0194	0.0339	pCi/g						
Thallium-208		0.137	+/-0.0463	0.023	+/-0.0453	0.0487	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	0.0162	+/-0.0164	0.0156	+/-0.0164	0.034	pCi/g		BXF1	03/07/06	2047	508559	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium	U	1.05	+/-1.52	1.25	+/-1.52	2.56	pCi/g		CHS1	03/10/06	2054	508624	3
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	-1.55	+/-1.68	1.24	+/-1.68	2.53	pCi/g		JS1	03/20/06	0919	511622	4
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	-0.261	+/-1.09	0.923	+/-1.09	1.88	pCi/g		SLN1	03/13/06	1032	508533	6
Solid Preparation													
<i>Laboratory Composite - CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-190-C1C-04 Project: YANK01204
Sample ID: 157164004 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	JMB1	03/03/06	1542	508388
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1656	508387
GL-RAD-A-026	Laboratory sample composite				508377

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	DOE RESL Fe-1, Modified
5	DOE RESL Fe-1, Modified
6	DOE RESL Ni-1, Modified
7	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	99	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,AI	55	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,AI	95	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : 362 Injun Hollow Rd
 East Hampton, Connecticut 06424
 Contact: Mr. Jack McCarthy
 Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID:	3100-0000-190-RB	Project:	YANK01204
Sample ID:	157164005	Client ID:	YANK001
Matrix:	ME	Vol. Recv.:	
Collect Date:	14-FEB-06		
Receive Date:	02-MAR-06		
Collector:	Client		
Moisture:	0%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec Am241, Cm, Solid-TRU2,ALL2 (CT)</i>													
Americium-241	U	-0.00459	+/-0.018	0.00	+/-0.0181	0.0249	pCi/g	DDR1	03/12/06	0811	509106		1
Curium-242	U	0.00	+/-0.0202	0.00	+/-0.0202	0.0279	pCi/g						
Curium-243/244	U	-0.00221	+/-0.0186	0.0105	+/-0.0186	0.046	pCi/g						
<i>Alphaspec Pu, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-238	U	0.000615	+/-0.0236	0.0248	+/-0.0236	0.0703	pCi/g	DDR1	03/10/06	2313	509107		2
Plutonium-239/240	U	0.00399	+/-0.0159	0.0124	+/-0.0159	0.0456	pCi/g						
<i>Liquid Scint Pu241, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-241	U	0.404	+/-1.31	1.09	+/-1.31	2.23	pCi/g	DDR1	03/17/06	0805	509108		3
Rad Gamma Spec Analysis													
<i>Gammasespec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228	U	0.0319	+/-0.0536	0.0575	+/-0.0525	0.129	pCi/g	MJH1	03/14/06	1357	509629		4
Americium-241	U	-0.00594	+/-0.020	0.0261	+/-0.0196	0.0556	pCi/g						
Bismuth-212	U	-0.0959	+/-0.115	0.102	+/-0.113	0.234	pCi/g						
Bismuth-214	U	0.014	+/-0.0306	0.0342	+/-0.030	0.0749	pCi/g						
Cesium-134	U	0.0147	+/-0.0102	0.0153	+/-0.010	0.035	pCi/g						
Cesium-137	U	-0.00609	+/-0.0152	0.015	+/-0.0149	0.0337	pCi/g						
Cobalt-60	U	-0.0141	+/-0.0195	0.0122	+/-0.0191	0.0293	pCi/g						
Europium-152	U	0.00146	+/-0.0342	0.0384	+/-0.0335	0.0843	pCi/g						
Europium-154	U	0.00405	+/-0.0393	0.0381	+/-0.0385	0.0898	pCi/g						
Europium-155	U	0.00677	+/-0.032	0.0406	+/-0.0313	0.087	pCi/g						
Lead-212	U	0.00843	+/-0.0213	0.0261	+/-0.0209	0.0558	pCi/g						
Lead-214	U	0.0234	+/-0.0303	0.0362	+/-0.0297	0.0779	pCi/g						
Manganese-54	U	-0.0115	+/-0.0155	0.0135	+/-0.0152	0.031	pCi/g						
Niobium-94	U	0.00675	+/-0.0137	0.0151	+/-0.0134	0.0334	pCi/g						
Potassium-40	U	0.0671	+/-0.130	0.134	+/-0.128	0.317	pCi/g						
Radium-226	U	0.014	+/-0.0306	0.0342	+/-0.030	0.0749	pCi/g						
Silver-108m	U	-0.00318	+/-0.0132	0.0137	+/-0.0129	0.0302	pCi/g						
Thallium-208	U	0.000429	+/-0.0159	0.0171	+/-0.0155	0.0377	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	0.00716	+/-0.0255	0.0275	+/-0.0255	0.0596	pCi/g	BXFI	03/08/06	2028	508565		5
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium	U	0.127	+/-0.699	0.582	+/-0.699	1.20	pCi/g	MXPI	03/13/06	0700	510672		6

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.geel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-190-RB
Sample ID: 157164005

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Liquid Scintillation Analysis													
<i>Liquid Scint C14, Solid-HTD2,ALL2 (CT)</i>													
Carbon-14	U	-0.397	+/-0.312	0.271	+/-0.312	0.555	pCi/g		MXP1	03/08/06	1503	508644	8
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	1.03	+/-1.71	1.16	+/-1.71	2.35	pCi/g		SLN1	03/18/06	0707	508720	9
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	0.378	+/-1.94	1.62	+/-1.94	3.32	pCi/g		SLN1	03/10/06	1636	508726	10
<i>Liquid Scint Tc99, Solid-HTD2,ALL2 (CT)</i>													
Technetium-99	U	0.0615	+/-0.200	0.166	+/-0.200	0.343	pCi/g		SLN1	03/13/06	1952	508676	11

Solid Preparation

Laboratory Composite – leach

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
GL-RAD-A-026	Laboratory sample composite				508377

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, Am-05-RC Modified
2	DOE EML HASL-300, Pu-11-RC Modified
3	DOE EML HASL-300, Pu-11-RC Modified
4	EML HASL 300, 4.5.2.3
5	EPA 905.0 Modified
6	EPA 906.0 Modified
7	EPA 906.0 Modified
8	EPA EERF C-01 Modified
9	DOE RESL Fe-1, Modified
10	DOE RESL Ni-1, Modified
11	DOE EML HASL-300, Tc-02-RC Modified
12	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Americium-243	Alphaspec Am241, Cm, Solid-TR1	58	(15%-125%)
Plutonium-242	Alphaspec Pu, Solid-TRU2,ALL2	90	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Pu241, Solid-TRU2, /	97	(25%-125%)

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-190-RB
Sample ID: 157164005

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time Batch	Mtd
Carrier/Tracer Recovery		GFPC, Sr90, solid Quick TAT			107		(25%-125%)					
Carrier/Tracer Recovery		Liquid Scint Fe55, Solid-HTD2,A			91		(15%-125%)					
Carrier/Tracer Recovery		Liquid Scint Ni63, Solid-HTD2,A			77		(25%-125%)					
Carrier/Tracer Recovery		Liquid Scint Tc99, Solid-HTD2,A			102		(15%-125%)					

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID:	3100-0000-190-C2C-01	Project:	YANK01204
Sample ID:	157164006	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	14-FEB-06		
Receive Date:	02-MAR-06		
Collector:	Client		
Moisture:	5.62%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>Gammasec, Gamma, GAM2, ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.450	+/-0.167	0.0611	+/-0.164	0.134	pCi/g		MJH1	03/14/06	1609	509660	1
Americium-241	U	-0.0813	+/-0.129	0.0744	+/-0.127	0.155	pCi/g						
Bismuth-212		0.471	+/-0.315	0.146	+/-0.309	0.316	pCi/g						
Bismuth-214		0.428	+/-0.0992	0.0328	+/-0.0972	0.0706	pCi/g						
Cesium-134	U	0.0137	+/-0.0283	0.0242	+/-0.0278	0.052	pCi/g						
Cesium-137	U	0.00395	+/-0.0221	0.0187	+/-0.0217	0.0404	pCi/g						
Cobalt-60	U	-0.0196	+/-0.0255	0.0184	+/-0.025	0.0416	pCi/g						
Europium-152	U	0.00702	+/-0.0637	0.0469	+/-0.0625	0.0993	pCi/g						
Europium-154	U	0.00336	+/-0.0728	0.0601	+/-0.0714	0.133	pCi/g						
Europium-155	U	0.0822	+/-0.0604	0.0536	+/-0.0592	0.111	pCi/g						
Lead-212		0.355	+/-0.0694	0.0276	+/-0.068	0.0579	pCi/g						
Lead-214		0.461	+/-0.115	0.0339	+/-0.112	0.0719	pCi/g						
Manganese-54	U	0.0262	+/-0.0244	0.022	+/-0.0239	0.0472	pCi/g						
Niobium-94	U	0.00667	+/-0.0225	0.0191	+/-0.022	0.0408	pCi/g						
Potassium-40		8.12	+/-1.05	0.177	+/-1.02	0.402	pCi/g						
Radium-226		0.428	+/-0.0992	0.0328	+/-0.0972	0.0706	pCi/g						
Silver-108m	U	-0.00417	+/-0.0203	0.0163	+/-0.0199	0.0347	pCi/g						
Thallium-208		0.151	+/-0.0442	0.0193	+/-0.0434	0.0413	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	-0.0142	+/-0.0157	0.0201	+/-0.0157	0.0446	pCi/g		BXF1	03/07/06	2047	508559	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2, ALL2 (CT)</i>													
Tritium	U	0.531	+/-1.46	1.21	+/-1.46	2.48	pCi/g		CHS1	03/10/06	2258	508624	3
<i>Liquid Scint Fe55, Solid-HTD2, ALL2 (CT)</i>													
Iron-55	U	-0.623	+/-1.83	1.35	+/-1.83	2.75	pCi/g		JS1	03/20/06	0409	511622	4
<i>Liquid Scint Ni63, Solid-HTD2, ALL2 (CT)</i>													
Nickel-63	U	0.146	+/-1.09	0.913	+/-1.09	1.86	pCi/g		SLN1	03/13/06	1205	508533	6
Solid Preparation													
<i>Laboratory Composite – CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID:	3100-0000-190-C4C-01	Project:	YANK01204
Sample ID:	157164007	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	14-FEB-06		
Receive Date:	02-MAR-06		
Collector:	Client		
Moisture:	5.74%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>Gammascpec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.546	+/-0.138	0.119	+/-0.135	0.250	pCi/g		MJH1	03/14/06	1609	509660	1
Americium-241	U	-0.0338	+/-0.149	0.0978	+/-0.146	0.204	pCi/g						
Bismuth-212		0.307	+/-0.249	0.125	+/-0.244	0.272	pCi/g						
Bismuth-214		0.489	+/-0.089	0.0281	+/-0.0872	0.0607	pCi/g						
Cesium-134	U	0.0297	+/-0.0225	0.021	+/-0.022	0.0451	pCi/g						
Cesium-137	U	0.0293	+/-0.0239	0.0176	+/-0.0234	0.0379	pCi/g						
Cobalt-60	U	0.0123	+/-0.0208	0.0186	+/-0.0204	0.0414	pCi/g						
Europium-152	U	-0.0655	+/-0.0521	0.0381	+/-0.051	0.0813	pCi/g						
Europium-154	U	0.0299	+/-0.0626	0.055	+/-0.0613	0.122	pCi/g						
Europium-155	U	0.0687	+/-0.0579	0.0546	+/-0.0567	0.113	pCi/g						
Lead-212		0.413	+/-0.0534	0.0243	+/-0.0523	0.0509	pCi/g						
Lead-214		0.580	+/-0.0916	0.0323	+/-0.0898	0.0682	pCi/g						
Manganese-54	U	-0.00975	+/-0.0197	0.0151	+/-0.0193	0.0331	pCi/g						
Niobium-94	U	0.0138	+/-0.0172	0.0154	+/-0.0169	0.0332	pCi/g						
Potassium-40		8.57	+/-0.812	0.152	+/-0.795	0.347	pCi/g						
Radium-226		0.489	+/-0.089	0.0281	+/-0.0872	0.0607	pCi/g						
Silver-108m	U	0.0112	+/-0.016	0.0146	+/-0.0157	0.0312	pCi/g						
Thallium-208		0.133	+/-0.0357	0.0114	+/-0.0349	0.0253	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	0.0158	+/-0.0211	0.0206	+/-0.0211	0.0453	pCi/g		BXFI	03/07/06	2047	508559	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium	U	0.842	+/-1.41	1.17	+/-1.41	2.39	pCi/g		CHS1	03/16/06	2023	508624	3
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	0.676	+/-1.78	1.30	+/-1.78	2.64	pCi/g		JS1	03/23/06	0254	511622	4
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	0.773	+/-1.17	0.968	+/-1.17	1.97	pCi/g		SLN1	03/13/06	1338	508533	6
Solid Preparation													
<i>Laboratory Composite – CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-190-C4C-01 Project: YANK01204
Sample ID: 157164007 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	JMB1	03/03/06	1542	508388
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1656	508387
GL-RAD-A-026	Laboratory sample composite				508377

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	DOE RESL Fe-1, Modified
5	DOE RESL Fe-1, Modified
6	DOE RESL Ni-1, Modified
7	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	66	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,AI	41	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,AI	88	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-191-C1C-01
Sample ID: 157164008
Matrix: CT
Collect Date: 17-FEB-06
Receive Date: 02-MAR-06
Collector: Client
Moisture: 4.51%

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec Am241, Cm, Solid-TRU2,ALL2 (CT)</i>													
Americium-241	U	-0.000341	+/-0.0114	0.0125	+/-0.0114	0.0382	pCi/g		LCW1	03/10/06	0905	508564	1
Curium-242	U	-0.00129	+/-0.0108	0.00612	+/-0.0108	0.0268	pCi/g						
Curium-243/244	U	0.00216	+/-0.0237	0.0244	+/-0.0238	0.062	pCi/g						
<i>Alphaspec Pu, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-238	U	-0.00116	+/-0.0129	0.0147	+/-0.0129	0.0451	pCi/g		LCW1	03/10/06	1127	508566	2
Plutonium-239/240	U	0.00486	+/-0.0213	0.0198	+/-0.0213	0.0552	pCi/g						
<i>Liquid Scint Pu241, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-241	U	0.710	+/-2.62	2.18	+/-2.62	4.44	pCi/g		LCW1	03/15/06	2116	508569	3
Rad Gamma Spec Analysis													
<i>Gammasespec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.571	+/-0.132	0.0653	+/-0.129	0.142	pCi/g		MJH1	03/14/06	1610	509660	4
Americium-241	UUI	0.00	+/-0.129	0.0852	+/-0.127	0.176	pCi/g						
Bismuth-212		0.495	+/-0.385	0.137	+/-0.377	0.296	pCi/g						
Bismuth-214		0.458	+/-0.0818	0.0331	+/-0.0802	0.0711	pCi/g						
Cesium-134	U	0.00151	+/-0.0311	0.0225	+/-0.0304	0.0483	pCi/g						
Cesium-137	U	-0.0181	+/-0.0213	0.0164	+/-0.0209	0.0356	pCi/g						
Cobalt-60	U	0.0157	+/-0.0302	0.0176	+/-0.0296	0.0398	pCi/g						
Europium-152	U	0.0152	+/-0.058	0.0485	+/-0.0568	0.103	pCi/g						
Europium-154	U	0.0761	+/-0.118	0.0638	+/-0.116	0.140	pCi/g						
Europium-155	U	0.00454	+/-0.0661	0.0571	+/-0.0647	0.118	pCi/g						
Lead-212		0.562	+/-0.065	0.0294	+/-0.0637	0.0614	pCi/g						
Lead-214		0.583	+/-0.0964	0.0357	+/-0.0945	0.0754	pCi/g						
Manganese-54	U	-0.0207	+/-0.0251	0.0191	+/-0.0246	0.0413	pCi/g						
Niobium-94	U	0.0151	+/-0.0212	0.0175	+/-0.0207	0.0375	pCi/g						
Potassium-40		7.61	+/-0.752	0.146	+/-0.737	0.337	pCi/g						
Radium-226		0.458	+/-0.0818	0.0331	+/-0.0802	0.0711	pCi/g						
Silver-108m	U	-0.00874	+/-0.021	0.0164	+/-0.0206	0.035	pCi/g						
Thallium-208		0.208	+/-0.0448	0.0166	+/-0.0439	0.0359	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	-0.0112	+/-0.0173	0.0208	+/-0.0173	0.0456	pCi/g		BXF1	03/07/06	2047	508559	5
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium		4.88	+/-1.51	1.15	+/-1.51	2.36	pCi/g		CHS1	03/16/06	2156	508624	6

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-191-C1C-01 Project: YANK01204
Sample ID: 157164008 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Liquid Scintillation Analysis													
<i>Liquid Scint C14, Solid-HTD2,ALL2 (CT)</i>													
Carbon-14	U	-0.289	+/-0.254	0.227	+/-0.254	0.476	pCi/g		MXP1	03/13/06	1901	508642	7
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	-0.111	+/-2.03	1.46	+/-2.03	2.97	pCi/g		JS1	03/20/06	1022	511622	8
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	0.962	+/-1.19	0.979	+/-1.19	1.99	pCi/g		SLN1	03/13/06	1510	508533	10
<i>Liquid Scint Tc99, Solid-HTD2,ALL2 (CT)</i>													
Technetium-99	U	0.0509	+/-0.377	0.314	+/-0.377	0.651	pCi/g		SLN1	03/13/06	1017	508570	11

Solid Preparation

Laboratory Composite – CONCRETE

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	JMB1	03/03/06	1543	508388
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1656	508387
GL-RAD-A-026	Laboratory sample composite				508377

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, Am-05-RC Modified
2	DOE EML HASL-300, Pu-11-RC Modified
3	DOE EML HASL-300, Pu-11-RC Modified
4	EML HASL 300, 4.5.2.3
5	EPA 905.0 Modified
6	EPA 906.0 Modified
7	EPA EERF C-01 Modified
8	DOE RESL Fe-1, Modified
9	DOE RESL Fe-1, Modified
10	DOE RESL Ni-1, Modified
11	DOE EML HASL-300, Tc-02-RC Modified
12	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Americium-243	Alphaspec Am241, Cm, Solid-TR1	105	(15%-125%)

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-191-C1C-02
Sample ID: 157164009
Matrix: CT
Collect Date: 17-FEB-06
Receive Date: 02-MAR-06
Collector: Client
Moisture: 4.91%

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec Am241, Cm, Solid-TRU2,ALL2 (CT)</i>													
Americium-241	U	-0.00218	+/-0.0167	0.0195	+/-0.0167	0.0564	pCi/g		LCW1	03/10/06	0905	508564	1
Curium-242	U	-0.00311	+/-0.0161	0.0197	+/-0.0161	0.0586	pCi/g						
Curium-243/244	U	-0.00233	+/-0.0247	0.0275	+/-0.0247	0.0726	pCi/g						
<i>Alphaspec Pu, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-238	U	0.016	+/-0.0232	0.0146	+/-0.0232	0.0446	pCi/g		LCW1	03/10/06	1127	508566	2
Plutonium-239/240	U	0.00343	+/-0.0212	0.0206	+/-0.0212	0.0566	pCi/g						
<i>Liquid Scint Pu241, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-241	U	-0.0144	+/-1.80	1.75	+/-1.80	3.58	pCi/g		LCW1	03/16/06	0022	508569	3
Rad Gamma Spec Analysis													
<i>Gammasespec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.415	+/-0.159	0.0647	+/-0.156	0.141	pCi/g		MJH1	03/14/06	1610	509660	4
Americium-241	U	-0.00531	+/-0.0236	0.0198	+/-0.0231	0.0412	pCi/g						
Bismuth-212	U	0.239	+/-0.295	0.151	+/-0.289	0.324	pCi/g						
Bismuth-214		0.437	+/-0.0988	0.0325	+/-0.0969	0.0699	pCi/g						
Cesium-134	UUI	0.00	+/-0.045	0.0227	+/-0.0441	0.0487	pCi/g						
Cesium-137	U	-0.00298	+/-0.021	0.0171	+/-0.0206	0.037	pCi/g						
Cobalt-60	U	0.0304	+/-0.0255	0.0238	+/-0.025	0.0522	pCi/g						
Europium-152	U	0.0162	+/-0.0525	0.044	+/-0.0515	0.0931	pCi/g						
Europium-154	U	0.0281	+/-0.062	0.0538	+/-0.0607	0.120	pCi/g						
Europium-155	U	0.00814	+/-0.0402	0.0332	+/-0.0394	0.0693	pCi/g						
Lead-212		0.455	+/-0.0702	0.0243	+/-0.0688	0.0509	pCi/g						
Lead-214		0.624	+/-0.105	0.0312	+/-0.103	0.0661	pCi/g						
Manganese-54	U	0.024	+/-0.0243	0.0215	+/-0.0238	0.0461	pCi/g						
Niobium-94	U	-0.0049	+/-0.0195	0.0156	+/-0.0191	0.0338	pCi/g						
Potassium-40		8.92	+/-1.03	0.159	+/-1.01	0.364	pCi/g						
Radium-226		0.437	+/-0.0988	0.0325	+/-0.0969	0.0699	pCi/g						
Silver-108m	U	-0.0132	+/-0.0177	0.0143	+/-0.0173	0.0306	pCi/g						
Thallium-208		0.143	+/-0.0371	0.0164	+/-0.0364	0.0354	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	-0.00143	+/-0.024	0.0265	+/-0.024	0.0578	pCi/g		BXF1	03/07/06	2047	508559	5
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium		3.54	+/-1.41	1.10	+/-1.41	2.25	pCi/g		CHS1	03/16/06	2329	508624	6

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-191-C1C-02
Sample ID: 157164009

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Liquid Scintillation Analysis													
<i>Liquid Scint C14, Solid-HTD2,ALL2 (CT)</i>													
Carbon-14	U	-0.218	+/-0.259	0.228	+/-0.259	0.477	pCi/g		MXP1	03/13/06	1948	508642	7
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	-0.505	+/-1.51	1.07	+/-1.51	2.19	pCi/g		JS1	03/20/06	1124	511622	8
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63		12.0	+/-1.48	1.04	+/-1.52	2.13	pCi/g		SLN1	03/13/06	1643	508533	10
<i>Liquid Scint Tc99, Solid-HTD2,ALL2 (CT)</i>													
Technetium-99	U	-0.0438	+/-0.320	0.271	+/-0.320	0.561	pCi/g		SLN1	03/13/06	1033	508570	11

Solid Preparation

Laboratory Composite – CONCRETE

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	JMB1	03/03/06	1543	508388
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1656	508387
GL-RAD-A-026	Laboratory sample composite				508377

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, Am-05-RC Modified
2	DOE EML HASL-300, Pu-11-RC Modified
3	DOE EML HASL-300, Pu-11-RC Modified
4	EML HASL 300, 4.5.2.3
5	EPA 905.0 Modified
6	EPA 906.0 Modified
7	EPA EERF C-01 Modified
8	DOE RESL Fe-1, Modified
9	DOE RESL Fe-1, Modified
10	DOE RESL Ni-1, Modified
11	DOE EML HASL-300, Tc-02-RC Modified
12	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Americium-243	Alphaspec Am241, Cm, Solid-TR1	83	(15%-125%)

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-191-C1C-02
Sample ID: 157164009
Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Plutonium-242		Alphaspec Pu, Solid-TRU2,ALL2			90		(15%-125%)						
Carrier/Tracer Recovery		Liquid Scint Pu241, Solid-TRU2, /			73		(25%-125%)						
Carrier/Tracer Recovery		GFPC, Sr90, solid Quick TAT			57		(25%-125%)						
Carrier/Tracer Recovery		Liquid Scint Fe55, Solid-HTD2,A/			71		(15%-125%)						
Carrier/Tracer Recovery		Liquid Scint Ni63, Solid-HTD2,A/			83		(25%-125%)						
Carrier/Tracer Recovery		Liquid Scint Tc99, Solid-HTD2,A/			86		(15%-125%)						

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-191-C1C-03
Sample ID: 157164010
Matrix: CT
Collect Date: 17-FEB-06
Receive Date: 02-MAR-06
Collector: Client
Moisture: 6.95%

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>GammaSpec, Gamma, GAM2, ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.536	+/-0.206	0.087	+/-0.202	0.189	pCi/g		MJH1	03/14/06	1635	509660	1
Americium-241	U	0.0412	+/-0.0398	0.0332	+/-0.039	0.0687	pCi/g						
Bismuth-212		0.563	+/-0.452	0.185	+/-0.443	0.399	pCi/g						
Bismuth-214		0.495	+/-0.112	0.0408	+/-0.109	0.088	pCi/g						
Cesium-134	U	0.0246	+/-0.0378	0.0325	+/-0.0371	0.0695	pCi/g						
Cesium-137	U	-0.0167	+/-0.0317	0.0248	+/-0.0311	0.0533	pCi/g						
Cobalt-60		0.130	+/-0.0656	0.0283	+/-0.0643	0.0626	pCi/g						
Europium-152	U	0.0283	+/-0.0658	0.0583	+/-0.0645	0.123	pCi/g						
Europium-154	U	-0.0537	+/-0.0899	0.0679	+/-0.0881	0.152	pCi/g						
Europium-155	U	0.0505	+/-0.0565	0.0506	+/-0.0554	0.105	pCi/g						
Lead-212		0.547	+/-0.087	0.0283	+/-0.0853	0.0596	pCi/g						
Lead-214		0.573	+/-0.127	0.0383	+/-0.125	0.0813	pCi/g						
Manganese-54	U	0.00632	+/-0.0296	0.0245	+/-0.029	0.0531	pCi/g						
Niobium-94	U	0.0266	+/-0.0274	0.0223	+/-0.0268	0.0479	pCi/g						
Potassium-40		9.45	+/-1.19	0.217	+/-1.17	0.493	pCi/g						
Radium-226		0.495	+/-0.112	0.0408	+/-0.109	0.088	pCi/g						
Silver-108m	U	-0.0135	+/-0.0243	0.0198	+/-0.0238	0.0422	pCi/g						
Thallium-208		0.189	+/-0.0593	0.0207	+/-0.0581	0.0449	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	-0.0229	+/-0.0217	0.0277	+/-0.0217	0.0607	pCi/g		BXF1	03/07/06	2047	508559	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2, ALL2 (CT)</i>													
Tritium	U	2.38	+/-1.46	1.17	+/-1.46	2.39	pCi/g		CHS1	03/17/06	0102	508624	3
<i>Liquid Scint Fe55, Solid-HTD2, ALL2 (CT)</i>													
Iron-55		3.81	+/-2.14	1.48	+/-2.15	3.01	pCi/g		JS1	03/20/06	1226	511622	4
<i>Liquid Scint Ni63, Solid-HTD2, ALL2 (CT)</i>													
Nickel-63		12.1	+/-1.46	1.02	+/-1.49	2.08	pCi/g		SLN1	03/13/06	1815	508533	6
Solid Preparation													
<i>Laboratory Composite – CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-191-C1C-03
Sample ID: 157164010
Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	JMB1	03/03/06	1543	508388
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1656	508387
GL-RAD-A-026	Laboratory sample composite				508377

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	DOE RESL Fe-1, Modified
5	DOE RESL Fe-1, Modified
6	DOE RESL Ni-1, Modified
7	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	51	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,Al	67	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,Al	86	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : 362 Injun Hollow Rd
 : East Hampton, Connecticut 06424
 Contact: Mr. Jack McCarthy
 Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID:	3100-0000-191-C1C-04	Project:	YANK01204
Sample ID:	157164011	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	17-FEB-06		
Receive Date:	02-MAR-06		
Collector:	Client		
Moisture:	5.09%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>Gammascpec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.430	+/-0.134	0.0727	+/-0.132	0.157	pCi/g		MJH1	03/14/06	1725	509660	1
Americium-241	U	-0.0301	+/-0.104	0.0655	+/-0.101	0.137	pCi/g						
Bismuth-212		0.570	+/-0.198	0.0841	+/-0.194	0.190	pCi/g						
Bismuth-214		0.490	+/-0.0839	0.0268	+/-0.0823	0.0584	pCi/g						
Cesium-134	U	0.0281	+/-0.0529	0.0181	+/-0.0518	0.0396	pCi/g						
Cesium-137	U	0.013	+/-0.0213	0.0189	+/-0.0209	0.0406	pCi/g						
Cobalt-60		0.101	+/-0.0463	0.0119	+/-0.0453	0.0282	pCi/g						
Europium-152	U	0.0361	+/-0.066	0.0466	+/-0.0646	0.0984	pCi/g						
Europium-154	U	-0.0162	+/-0.0615	0.0424	+/-0.0603	0.0968	pCi/g						
Europium-155	U	0.0366	+/-0.0499	0.0456	+/-0.0489	0.0951	pCi/g						
Lead-212		0.458	+/-0.054	0.0235	+/-0.0529	0.0494	pCi/g						
Lead-214		0.465	+/-0.0889	0.0298	+/-0.0872	0.0634	pCi/g						
Manganese-54	U	0.0022	+/-0.0242	0.0178	+/-0.0238	0.0386	pCi/g						
Niobium-94	U	0.0155	+/-0.017	0.0156	+/-0.0167	0.0336	pCi/g						
Potassium-40		8.64	+/-0.869	0.184	+/-0.852	0.412	pCi/g						
Radium-226		0.490	+/-0.0839	0.0268	+/-0.0823	0.0584	pCi/g						
Silver-108m	U	0.00631	+/-0.0153	0.0137	+/-0.015	0.0295	pCi/g						
Thallium-208		0.165	+/-0.0413	0.0151	+/-0.0405	0.0329	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	-0.01	+/-0.019	0.0224	+/-0.019	0.0488	pCi/g		BXF1	03/07/06	2048	508559	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium		2.84	+/-1.50	1.19	+/-1.50	2.44	pCi/g		CHS1	03/17/06	0235	508624	3
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	0.477	+/-1.63	1.20	+/-1.63	2.43	pCi/g		JS1	03/20/06	2250	511622	4
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63		5.50	+/-1.27	0.967	+/-1.27	1.97	pCi/g		SLN1	03/13/06	1948	508533	6
Solid Preparation													
<i>Laboratory Composite – CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424 :
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-191-C1C-04 Project: YANK01204
Sample ID: 157164011 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	JMB1	03/03/06	1543	508388
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1656	508387
GL-RAD-A-026	Laboratory sample composite				508377

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	DOE RESL Fe-1, Modified
5	DOE RESL Fe-1, Modified
6	DOE RESL Ni-1, Modified
7	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	65	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,AI	42	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,AI	88	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-191-C3C-01
Sample ID: 157164012
Matrix: CT
Collect Date: 17-FEB-06
Receive Date: 02-MAR-06
Collector: Client
Moisture: 4.35%

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>Gammascpec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.660	+/-0.189	0.0737	+/-0.185	0.161	pCi/g		MJH1	03/14/06	1725	509660	1
Americium-241	U	0.0574	+/-0.127	0.098	+/-0.124	0.204	pCi/g						
Bismuth-212		0.439	+/-0.315	0.173	+/-0.308	0.373	pCi/g						
Bismuth-214		0.544	+/-0.111	0.0425	+/-0.109	0.0908	pCi/g						
Cesium-134	UUI	0.00	+/-0.0707	0.0243	+/-0.0693	0.0524	pCi/g						
Cesium-137	U	0.0234	+/-0.0286	0.0255	+/-0.028	0.0543	pCi/g						
Cobalt-60	UUI	0.00	+/-0.051	0.0209	+/-0.050	0.0467	pCi/g						
Europium-152	U	0.0159	+/-0.0857	0.0631	+/-0.084	0.133	pCi/g						
Europium-154	U	-0.0563	+/-0.0778	0.0587	+/-0.0763	0.131	pCi/g						
Europium-155	U	-0.00978	+/-0.0874	0.0631	+/-0.0857	0.131	pCi/g						
Lead-212		0.623	+/-0.0828	0.033	+/-0.0811	0.0691	pCi/g						
Lead-214		0.560	+/-0.111	0.0414	+/-0.109	0.0877	pCi/g						
Manganese-54	U	-0.00326	+/-0.0277	0.0225	+/-0.0272	0.0486	pCi/g						
Niobium-94	U	0.0202	+/-0.0239	0.0214	+/-0.0234	0.0457	pCi/g						
Potassium-40		10.1	+/-1.04	0.157	+/-1.02	0.363	pCi/g						
Radium-226		0.544	+/-0.111	0.0425	+/-0.109	0.0908	pCi/g						
Silver-108m	U	-0.014	+/-0.024	0.0185	+/-0.0235	0.0396	pCi/g						
Thallium-208		0.135	+/-0.0478	0.0213	+/-0.0469	0.0457	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	0.0179	+/-0.0231	0.0223	+/-0.0231	0.0492	pCi/g		BXF1	03/07/06	2048	508559	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium	U	1.66	+/-1.36	1.10	+/-1.36	2.25	pCi/g		CHS1	03/17/06	0447	508624	3
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	-0.877	+/-1.72	1.25	+/-1.72	2.55	pCi/g		JS1	03/20/06	1328	511622	4
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	0.725	+/-1.27	1.05	+/-1.27	2.15	pCi/g		SLN1	03/13/06	2121	508533	6
Solid Preparation													
<i>Laboratory Composite – CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-191-C3C-01 Project: YANK01204
Sample ID: 157164012 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	JMB1	03/03/06	1543	508388
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1656	508387
GL-RAD-A-026	Laboratory sample composite				508377

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	DOE RESL Fe-1, Modified
5	DOE RESL Fe-1, Modified
6	DOE RESL Ni-1, Modified
7	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	55	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,A	56	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,A	82	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
- BD Results below the MDC or low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value.
- U Target analyte was analyzed for but not detected above the MDL or LOD.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
- d The 2:1 depletion requirement was not met for this sample
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID:	3100-0000-191-C5C-01	Project:	YANK01204
Sample ID:	157164013	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	17-FEB-06		
Receive Date:	02-MAR-06		
Collector:	Client		
Moisture:	5.14%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>Gammascpec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.583	+/-0.156	0.0593	+/-0.152	0.127	pCi/g		MJH1	03/14/06	1725	509660	1
Americium-241	U	0.0389	+/-0.125	0.0948	+/-0.123	0.197	pCi/g						
Bismuth-212		0.376	+/-0.334	0.115	+/-0.327	0.248	pCi/g						
Bismuth-214		0.754	+/-0.0982	0.0328	+/-0.0962	0.0694	pCi/g						
Cesium-134	U	0.0176	+/-0.0226	0.0201	+/-0.0221	0.0427	pCi/g						
Cesium-137		0.0391	+/-0.0184	0.0158	+/-0.0181	0.0338	pCi/g						
Cobalt-60	U	0.0189	+/-0.0268	0.0205	+/-0.0263	0.0443	pCi/g						
Europium-152	U	-0.019	+/-0.0548	0.046	+/-0.0537	0.0965	pCi/g						
Europium-154	U	-0.0341	+/-0.068	0.0518	+/-0.0667	0.112	pCi/g						
Europium-155	U	0.0138	+/-0.065	0.0567	+/-0.0637	0.118	pCi/g						
Lead-212		0.612	+/-0.0634	0.0276	+/-0.0622	0.0574	pCi/g						
Lead-214		0.740	+/-0.0958	0.0325	+/-0.0939	0.0683	pCi/g						
Manganese-54	U	0.00569	+/-0.0246	0.0148	+/-0.0241	0.0318	pCi/g						
Niobium-94	U	0.00906	+/-0.0203	0.0169	+/-0.0199	0.0356	pCi/g						
Potassium-40		10.1	+/-0.778	0.157	+/-0.763	0.345	pCi/g						
Radium-226		0.754	+/-0.0982	0.0328	+/-0.0962	0.0694	pCi/g						
Silver-108m	U	-0.00369	+/-0.0171	0.0141	+/-0.0168	0.030	pCi/g						
Thallium-208		0.194	+/-0.0375	0.0164	+/-0.0368	0.0347	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	0.00471	+/-0.0143	0.015	+/-0.0144	0.0327	pCi/g		BXF1	03/07/06	2048	508559	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium	U	1.03	+/-1.32	1.08	+/-1.32	2.22	pCi/g		CHS1	03/17/06	0620	508624	3
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	-0.617	+/-1.87	1.34	+/-1.87	2.72	pCi/g		JS1	03/23/06	0741	511622	4
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	-0.693	+/-1.16	0.990	+/-1.16	2.02	pCi/g		SLN1	03/13/06	2253	508533	6
Solid Preparation													
<i>Laboratory Composite – CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-191-C5C-01 Project: YANK01204
Sample ID: 157164013 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	JMB1	03/03/06	1543	508388
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1656	508387
GL-RAD-A-026	Laboratory sample composite				508377

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	DOE RESL Fe-1, Modified
5	DOE RESL Fe-1, Modified
6	DOE RESL Ni-1, Modified
7	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	103	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,AI	65	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,AI	89	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
- BD Results below the MDC or low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value.
- U Target analyte was analyzed for but not detected above the MDL or LOD.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
- d The 2:1 depletion requirement was not met for this sample
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-192-C1C-01
Sample ID: 157164014
Matrix: CT
Collect Date: 16-FEB-06
Receive Date: 02-MAR-06
Collector: Client
Moisture: 5.78%

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec Am241, Cm, Solid-TRU2,ALL2 (CT)</i>													
Americium-241	U	-0.00949	+/-0.0236	0.0312	+/-0.0236	0.0847	pCi/g		LCW1	03/10/06	0905	508564	1
Curium-242	U	0.0069	+/-0.0183	0.0103	+/-0.0183	0.0453	pCi/g						
Curium-243/244	U	0.0483	+/-0.0473	0.0283	+/-0.0478	0.0789	pCi/g						
<i>Alphaspec Pu, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-238	U	-0.00272	+/-0.0228	0.0129	+/-0.0229	0.0565	pCi/g		LCW1	03/13/06	1027	508566	2
Plutonium-239/240	U	-0.0109	+/-0.0246	0.0258	+/-0.0246	0.0822	pCi/g						
<i>Liquid Scint Pu241, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-241	U	-1.36	+/-2.06	2.04	+/-2.07	4.19	pCi/g		LCW1	03/16/06	0109	508569	3
Rad Gamma Spec Analysis													
<i>Gammapec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.442	+/-0.151	0.0476	+/-0.148	0.103	pCi/g		MJH1	03/14/06	1725	509660	4
Americium-241	U	-0.00833	+/-0.0608	0.0521	+/-0.0596	0.108	pCi/g						
Bismuth-212	U	0.196	+/-0.206	0.112	+/-0.202	0.238	pCi/g						
Bismuth-214		0.351	+/-0.0923	0.030	+/-0.0905	0.0633	pCi/g						
Cesium-134	U	0.00247	+/-0.0226	0.0178	+/-0.0221	0.0378	pCi/g						
Cesium-137	U	0.00225	+/-0.0184	0.0152	+/-0.018	0.0322	pCi/g						
Cobalt-60	U	0.00641	+/-0.0182	0.0156	+/-0.0178	0.0341	pCi/g						
Europium-152	U	0.00562	+/-0.0569	0.041	+/-0.0557	0.0859	pCi/g						
Europium-154	U	0.00454	+/-0.0574	0.0481	+/-0.0563	0.104	pCi/g						
Europium-155	U	0.0087	+/-0.0537	0.0451	+/-0.0526	0.0934	pCi/g						
Lead-212		0.415	+/-0.0597	0.022	+/-0.0585	0.046	pCi/g						
Lead-214		0.414	+/-0.0816	0.0283	+/-0.080	0.0594	pCi/g						
Manganese-54	U	-0.00273	+/-0.0188	0.0155	+/-0.0184	0.033	pCi/g						
Niobium-94	U	-0.0185	+/-0.0212	0.0133	+/-0.0207	0.0284	pCi/g						
Potassium-40		7.20	+/-0.816	0.122	+/-0.800	0.271	pCi/g						
Radium-226		0.351	+/-0.0923	0.030	+/-0.0905	0.0633	pCi/g						
Silver-108m	U	0.00585	+/-0.0149	0.013	+/-0.0146	0.0274	pCi/g						
Thallium-208		0.135	+/-0.033	0.0153	+/-0.0324	0.0324	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	-0.00127	+/-0.0186	0.0206	+/-0.0186	0.045	pCi/g		BXF1	03/07/06	2048	508559	5
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist. Solid-HTD2,ALL2 (CT)</i>													
Tritium	U	-0.368	+/-1.36	1.15	+/-1.36	2.35	pCi/g		CHS1	03/17/06	0906	508624	6

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-192-C1C-01 Project: YANK01204
Sample ID: 157164014 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Liquid Scintillation Analysis													
<i>Liquid Scint C14, Solid-HTD2,ALL2 (CT)</i>													
Carbon-14	U	-0.159	+/-0.259	0.225	+/-0.259	0.471	pCi/g		MXP1	03/13/06	2036	508642	7
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	-1.06	+/-1.69	1.31	+/-1.69	2.68	pCi/g		JS1	03/20/06	1533	511622	8
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	0.510	+/-1.04	0.865	+/-1.04	1.76	pCi/g		SLN1	03/14/06	0026	508533	10
<i>Liquid Scint Tc99, Solid-HTD2,ALL2 (CT)</i>													
Technetium-99	U	-0.188	+/-0.317	0.273	+/-0.317	0.566	pCi/g		SLN1	03/13/06	1049	508570	11

Solid Preparation

Laboratory Composite – CONCRETE

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	JMB1	03/03/06	1543	508388
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1656	508387
GL-RAD-A-026	Laboratory sample composite				508377

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, Am-05-RC Modified
2	DOE EML HASL-300, Pu-11-RC Modified
3	DOE EML HASL-300, Pu-11-RC Modified
4	EML HASL 300, 4.5.2.3
5	EPA 905.0 Modified
6	EPA 906.0 Modified
7	EPA EERF C-01 Modified
8	DOE RESL Fe-1, Modified
9	DOE RESL Fe-1, Modified
10	DOE RESL Ni-1, Modified
11	DOE EML HASL-300, Tc-02-RC Modified
12	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Americium-243	Alphaspec Am241, Cm, Solid-TR1	80	(15%-125%)

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-192-C1C-01
Sample ID: 157164014

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Plutonium-242		Alphaspec Pu, Solid-TRU2,ALL2			45		(15%-125%)						
Carrier/Tracer Recovery		Liquid Scint Pu241, Solid-TRU2, /			62		(25%-125%)						
Carrier/Tracer Recovery		GFPC, Sr90, solid Quick TAT			70		(25%-125%)						
Carrier/Tracer Recovery		Liquid Scint Fe55, Solid-HTD2,AI			32		(15%-125%)						
Carrier/Tracer Recovery		Liquid Scint Ni63, Solid-HTD2,AI			98		(25%-125%)						
Carrier/Tracer Recovery		Liquid Scint Tc99, Solid-HTD2,AI			86		(15%-125%)						

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-192-C1C-02
Sample ID: 157164015
Matrix: CT
Collect Date: 16-FEB-06
Receive Date: 02-MAR-06
Collector: Client
Moisture: 4.61%

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec Am241, Cm, Solid-TRU2,ALL2 (CT)</i>													
Americium-241	U	0.0087	+/-0.0272	0.0246	+/-0.0273	0.0661	pCi/g		LCW1	03/10/06	0905	508564	1
Curium-242	U	0.0156	+/-0.0239	0.0135	+/-0.024	0.0456	pCi/g						
Curium-243/244	U	-0.0195	+/-0.0106	0.0257	+/-0.0109	0.0682	pCi/g						
<i>Alphaspec Pu, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-238	U	-0.00515	+/-0.0133	0.0181	+/-0.0133	0.0513	pCi/g		LCW1	03/10/06	1127	508566	2
Plutonium-239/240	U	-0.00515	+/-0.0133	0.018	+/-0.0133	0.0512	pCi/g						
<i>Liquid Scint Pu241, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-241	U	-0.286	+/-1.70	1.66	+/-1.70	3.40	pCi/g		LCW1	03/16/06	0156	508569	3
Rad Gamma Spec Analysis													
<i>Gammastec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.360	+/-0.223	0.0635	+/-0.219	0.139	pCi/g		MJH1	03/14/06	1933	509660	4
Americium-241	U	0.0729	+/-0.0941	0.0757	+/-0.0922	0.158	pCi/g						
Bismuth-212	U	0.126	+/-0.316	0.152	+/-0.310	0.328	pCi/g						
Bismuth-214		0.563	+/-0.107	0.0374	+/-0.105	0.0798	pCi/g						
Cesium-134	U	0.0293	+/-0.0278	0.0249	+/-0.0272	0.0534	pCi/g						
Cesium-137	U	-0.00198	+/-0.0248	0.0205	+/-0.0243	0.0439	pCi/g						
Cobalt-60	U	0.0291	+/-0.045	0.0247	+/-0.0441	0.0542	pCi/g						
Europium-152	U	0.0026	+/-0.0612	0.0508	+/-0.0599	0.107	pCi/g						
Europium-154	U	-0.00649	+/-0.0717	0.0581	+/-0.0703	0.129	pCi/g						
Europium-155	U	0.0327	+/-0.0647	0.0552	+/-0.0634	0.115	pCi/g						
Lead-212		0.349	+/-0.0708	0.029	+/-0.0694	0.0607	pCi/g						
Lead-214		0.747	+/-0.125	0.0376	+/-0.123	0.0793	pCi/g						
Manganese-54	U	-0.0065	+/-0.0249	0.0197	+/-0.0244	0.0427	pCi/g						
Niobium-94	U	0.00914	+/-0.0223	0.0191	+/-0.0218	0.0408	pCi/g						
Potassium-40		6.31	+/-0.895	0.205	+/-0.877	0.458	pCi/g						
Radium-226		0.563	+/-0.107	0.0374	+/-0.105	0.0798	pCi/g						
Silver-108m	U	0.00409	+/-0.0205	0.017	+/-0.0201	0.0362	pCi/g						
Thallium-208		0.163	+/-0.0415	0.0181	+/-0.0406	0.0389	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	0.00774	+/-0.0151	0.0151	+/-0.0151	0.0335	pCi/g		BXF1	03/07/06	2048	508559	5
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium	U	1.12	+/-1.42	1.16	+/-1.42	2.38	pCi/g		CHS1	03/17/06	1039	508624	6

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-192-C1C-02 Project: YANK01204
Sample ID: 157164015 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Liquid Scintillation Analysis													
<i>Liquid Scint C14, Solid-HTD2,ALL2 (CT)</i>													
Carbon-14	U	-0.0426	+/-0.291	0.247	+/-0.291	0.517	pCi/g		MXP1	03/13/06	2123	508642	7
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	-0.631	+/-1.93	1.46	+/-1.93	2.98	pCi/g		JS1	03/20/06	1635	511622	8
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	0.515	+/-1.17	0.975	+/-1.17	1.99	pCi/g		SLN1	03/14/06	0159	508533	10
<i>Liquid Scint Tc99, Solid-HTD2,ALL2 (CT)</i>													
Technetium-99	U	-0.0424	+/-0.310	0.262	+/-0.310	0.543	pCi/g		SLN1	03/13/06	1105	508570	11

Solid Preparation

Laboratory Composite – CONCRETE

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	JMB1	03/03/06	1543	508388
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1656	508387
GL-RAD-A-026	Laboratory sample composite				508377

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, Am-05-RC Modified
2	DOE EML HASL-300, Pu-11-RC Modified
3	DOE EML HASL-300, Pu-11-RC Modified
4	EML HASL 300, 4.5.2.3
5	EPA 905.0 Modified
6	EPA 906.0 Modified
7	EPA EERF C-01 Modified
8	DOE RESL Fe-1, Modified
9	DOE RESL Fe-1, Modified
10	DOE RESL Ni-1, Modified
11	DOE EML HASL-300, Tc-02-RC Modified
12	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Americium-243	Alphaspec Am241, Cm, Solid-TR1	96	(15%-125%)

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-192-C1C-02
Sample ID: 157164015

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Plutonium-242		Alphaspec Pu, Solid-TRU2,ALL2			103		(15%-125%)						
Carrier/Tracer Recovery		Liquid Scint Pu241, Solid-TRU2,4			77		(25%-125%)						
Carrier/Tracer Recovery		GFPC, Sr90, solid Quick TAT			77		(25%-125%)						
Carrier/Tracer Recovery		Liquid Scint Fe55, Solid-HTD2,A			39		(15%-125%)						
Carrier/Tracer Recovery		Liquid Scint Ni63, Solid-HTD2,A			88		(25%-125%)						
Carrier/Tracer Recovery		Liquid Scint Tc99, Solid-HTD2,A			86		(15%-125%)						

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID:	3100-0000-192-C1C-03	Project:	YANK01204
Sample ID:	157164016	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	16-FEB-06		
Receive Date:	02-MAR-06		
Collector:	Client		
Moisture:	5.24%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>GammaSpec, Gamma, GAM2, ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.387	+/-0.136	0.0591	+/-0.134	0.130	pCi/g		MJH1	03/14/06	1933	509660	1
Americium-241	U	-0.0267	+/-0.124	0.0926	+/-0.122	0.194	pCi/g						
Bismuth-212		0.345	+/-0.245	0.112	+/-0.241	0.246	pCi/g						
Bismuth-214		0.312	+/-0.0771	0.0328	+/-0.0756	0.0703	pCi/g						
Cesium-134	U	0.00488	+/-0.0228	0.0169	+/-0.0224	0.0371	pCi/g						
Cesium-137	U	-0.000451	+/-0.0205	0.017	+/-0.0201	0.0367	pCi/g						
Cobalt-60	U	0.0257	+/-0.021	0.0174	+/-0.0206	0.0393	pCi/g						
Europium-152	U	0.00872	+/-0.0517	0.0427	+/-0.0506	0.0907	pCi/g						
Europium-154	U	0.0691	+/-0.0743	0.0501	+/-0.0728	0.112	pCi/g						
Europium-155	U	0.0378	+/-0.0545	0.0499	+/-0.0534	0.104	pCi/g						
Lead-212		0.364	+/-0.0544	0.023	+/-0.0534	0.0485	pCi/g						
Lead-214		0.310	+/-0.073	0.0323	+/-0.0715	0.0686	pCi/g						
Manganese-54	U	-0.0079	+/-0.021	0.0162	+/-0.0205	0.0355	pCi/g						
Niobium-94	U	0.0017	+/-0.0194	0.0161	+/-0.019	0.0348	pCi/g						
Potassium-40		7.50	+/-0.797	0.162	+/-0.781	0.369	pCi/g						
Radium-226		0.312	+/-0.0771	0.0328	+/-0.0756	0.0703	pCi/g						
Silver-108m	U	0.00183	+/-0.0164	0.0142	+/-0.016	0.0305	pCi/g						
Thallium-208		0.107	+/-0.0347	0.0149	+/-0.034	0.0325	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	-0.00219	+/-0.0154	0.0172	+/-0.0154	0.0375	pCi/g		BXF1	03/07/06	2048	508559	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2, ALL2 (CT)</i>													
Tritium		3.61	+/-1.48	1.16	+/-1.48	2.38	pCi/g		CHS1	03/17/06	1212	508624	3
<i>Liquid Scint Fe55, Solid-HTD2, ALL2 (CT)</i>													
Iron-55	U	-0.265	+/-1.80	1.28	+/-1.80	2.59	pCi/g		JS1	03/20/06	1737	511622	4
<i>Liquid Scint Ni63, Solid-HTD2, ALL2 (CT)</i>													
Nickel-63	U	0.795	+/-1.19	0.980	+/-1.19	2.00	pCi/g		SLN1	03/14/06	0331	508533	6
Solid Preparation													
<i>Laboratory Composite – CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-192-C1C-03 Project: YANK01204
Sample ID: 157164016 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	JMB1	03/04/06	1416	508388
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1656	508387
GL-RAD-A-026	Laboratory sample composite				508377

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	DOE RESL Fe-1, Modified
5	DOE RESL Fe-1, Modified
6	DOE RESL Ni-1, Modified
7	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	84	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,AI	75	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,AI	86	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-192-C1C-04
Sample ID: 157164017
Matrix: CT
Collect Date: 16-FEB-06
Receive Date: 02-MAR-06
Collector: Client
Moisture: 5.35%

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>Gammascpec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.279	+/-0.132	0.0557	+/-0.129	0.124	pCi/g		MJH1	03/14/06	1934	509660	1
Americium-241	U	0.000541	+/-0.0932	0.0723	+/-0.0913	0.151	pCi/g						
Bismuth-212	U	0.160	+/-0.312	0.139	+/-0.306	0.302	pCi/g						
Bismuth-214		0.330	+/-0.0878	0.0341	+/-0.0861	0.0734	pCi/g						
Cesium-134	U	0.0385	+/-0.0237	0.023	+/-0.0232	0.0497	pCi/g						
Cesium-137	U	0.0062	+/-0.0244	0.0188	+/-0.0239	0.0406	pCi/g						
Cobalt-60	U	-0.0094	+/-0.0213	0.0165	+/-0.0209	0.0379	pCi/g						
Europium-152	U	0.00735	+/-0.059	0.0496	+/-0.0578	0.105	pCi/g						
Europium-154	U	-0.00844	+/-0.0637	0.0525	+/-0.0624	0.118	pCi/g						
Europium-155	U	0.0023	+/-0.053	0.0479	+/-0.0519	0.100	pCi/g						
Lead-212		0.389	+/-0.0616	0.0275	+/-0.0604	0.0578	pCi/g						
Lead-214		0.332	+/-0.0876	0.0364	+/-0.0859	0.077	pCi/g						
Manganese-54	U	0.0102	+/-0.0212	0.0185	+/-0.0208	0.0404	pCi/g						
Niobium-94	U	-0.000195	+/-0.0194	0.0163	+/-0.019	0.0353	pCi/g						
Potassium-40		7.50	+/-0.842	0.131	+/-0.825	0.310	pCi/g						
Radium-226		0.330	+/-0.0878	0.0341	+/-0.0861	0.0734	pCi/g						
Silver-108m	U	0.00348	+/-0.0201	0.0167	+/-0.0197	0.0356	pCi/g						
Thallium-208	UUU	0.00	+/-0.0495	0.0322	+/-0.0485	0.0671	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	-0.00467	+/-0.0138	0.0159	+/-0.0138	0.0347	pCi/g		BXF1	03/07/06	2048	508559	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium		4.49	+/-1.41	1.08	+/-1.41	2.21	pCi/g		CHS1	03/17/06	1345	508624	3
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	0.581	+/-1.98	1.43	+/-1.98	2.91	pCi/g		JS1	03/20/06	1839	511622	4
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	-0.281	+/-1.18	0.994	+/-1.18	2.02	pCi/g		SLN1	03/14/06	0504	508533	6
Solid Preparation													
<i>Laboratory Composite – CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-192-C1C-04 Project: YANK01204
Sample ID: 157164017 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	JMB1	03/03/06	1543	508388
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1656	508387
GL-RAD-A-026	Laboratory sample composite				508377

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	DOE RESL Fe-1, Modified
5	DOE RESL Fe-1, Modified
6	DOE RESL Ni-1, Modified
7	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	93	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,A)	55	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,A)	87	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
- BD Results below the MDC or low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value.
- U Target analyte was analyzed for but not detected above the MDL or LOD.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
- d The 2:1 depletion requirement was not met for this sample
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 -- (843) 556-8171 -- www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-192-RB
Sample ID: 157164018
Matrix: ME
Collect Date: 16-FEB-06
Receive Date: 02-MAR-06
Collector: Client
Moisture: 0%

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec Am241, Cm, Solid-TRU2,ALL2 (CT)</i>													
Americium-241	U	0.00299	+/-0.0182	0.0173	+/-0.0182	0.0502	pCi/g		DDR1	03/10/06	1319	509106	1
Curium-242	U	-0.0091	+/-0.00728	0.0176	+/-0.00736	0.0524	pCi/g						
Curium-243/244	U	-0.00782	+/-0.0189	0.0245	+/-0.0189	0.0646	pCi/g						
<i>Alphaspec Pu, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-238	U	-0.0126	+/-0.0261	0.0347	+/-0.0261	0.0907	pCi/g		DDR1	03/10/06	2313	509107	2
Plutonium-239/240	U	-0.0283	+/-0.0143	0.0347	+/-0.0146	0.0907	pCi/g						
<i>Liquid Scint Pu241, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-241	U	0.514	+/-1.42	1.18	+/-1.42	2.41	pCi/g		DDR1	03/17/06	0853	509108	3
Rad Gamma Spec Analysis													
<i>Gammasespec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228	UUI	0.00	+/-0.0556	0.0493	+/-0.0545	0.113	pCi/g		MJH1	03/14/06	1501	509629	4
Americium-241	U	-0.0281	+/-0.0446	0.0459	+/-0.0437	0.102	pCi/g						
Bismuth-212	U	-0.0152	+/-0.072	0.0676	+/-0.0705	0.164	pCi/g						
Bismuth-214	U	0.00417	+/-0.0222	0.0235	+/-0.0218	0.0534	pCi/g						
Cesium-134	U	0.00849	+/-0.0109	0.0125	+/-0.0107	0.0293	pCi/g						
Cesium-137	U	0.0106	+/-0.0111	0.0132	+/-0.0109	0.030	pCi/g						
Cobalt-60	U	0.000399	+/-0.010	0.0093	+/-0.00984	0.0238	pCi/g						
Europium-152	U	0.0127	+/-0.0277	0.0319	+/-0.0272	0.0715	pCi/g						
Europium-154	U	0.0328	+/-0.0312	0.0367	+/-0.0306	0.0875	pCi/g						
Europium-155	U	-0.00514	+/-0.0313	0.0367	+/-0.0307	0.080	pCi/g						
Lead-212	U	-7.010E-05	+/-0.0175	0.0199	+/-0.0171	0.0436	pCi/g						
Lead-214	U	-0.0047	+/-0.0204	0.0211	+/-0.020	0.0477	pCi/g						
Manganese-54	U	0.00422	+/-0.0105	0.0111	+/-0.0103	0.026	pCi/g						
Niobium-94	U	-0.00588	+/-0.0115	0.0105	+/-0.0113	0.0242	pCi/g						
Potassium-40	U	0.00803	+/-0.116	0.106	+/-0.113	0.263	pCi/g						
Radium-226	U	0.00417	+/-0.0222	0.0235	+/-0.0218	0.0534	pCi/g						
Silver-108m	U	0.00898	+/-0.00932	0.0113	+/-0.00913	0.0254	pCi/g						
Thallium-208	U	-0.00304	+/-0.0121	0.012	+/-0.0118	0.0274	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	0.00425	+/-0.0257	0.0282	+/-0.0257	0.0611	pCi/g		BXF1	03/08/06	2028	508565	5
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-192-RB
Sample ID: 157164018

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium	U	0.0769	+/-0.768	0.642	+/-0.768	1.33	pCi/g		MXPI	03/13/06	0747	510672	6
<i>Liquid Scint C14, Solid-HTD2,ALL2 (CT)</i>													
Carbon-14	U	-0.307	+/-0.354	0.304	+/-0.354	0.622	pCi/g		MXPI	03/08/06	1535	508644	8
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	0.886	+/-1.72	1.17	+/-1.73	2.37	pCi/g		SLN1	03/18/06	0911	508720	9
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	2.44	+/-1.65	1.33	+/-1.65	2.72	pCi/g		SLN1	03/10/06	1723	508726	10
<i>Liquid Scint Tc99, Solid-HTD2,ALL2 (CT)</i>													
Technetium-99	U	0.0319	+/-0.219	0.183	+/-0.219	0.378	pCi/g		SLN1	03/13/06	2008	508676	11

Solid Preparation

Laboratory Composite – leach

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
GL-RAD-A-026	Laboratory sample composite				508377

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, Am-05-RC Modified
2	DOE EML HASL-300, Pu-11-RC Modified
3	DOE EML HASL-300, Pu-11-RC Modified
4	EML HASL 300, 4.5.2.3
5	EPA 905.0 Modified
6	EPA 906.0 Modified
7	EPA 906.0 Modified
8	EPA EERF C-01 Modified
9	DOE RESL Fe-1, Modified
10	DOE RESL Ni-1, Modified
11	DOE EML HASL-300, Tc-02-RC Modified
12	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Americium-243	Alphaspec Am241, Cm, Solid-TR1	101	(15%-125%)

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-192-RB
Sample ID: 157164018

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Plutonium-242		Alphaspec Pu, Solid-TRU2,ALL2			77		(15%-125%)						
Carrier/Tracer Recovery		Liquid Scint Pu241, Solid-TRU2, /			97		(25%-125%)						
Carrier/Tracer Recovery		GFPC, Sr90, solid Quick TAT			103		(25%-125%)						
Carrier/Tracer Recovery		Liquid Scint Fe55, Solid-HTD2,AI			92		(15%-125%)						
Carrier/Tracer Recovery		Liquid Scint Ni63, Solid-HTD2,AI			81		(25%-125%)						
Carrier/Tracer Recovery		Liquid Scint Tc99, Solid-HTD2,AI			100		(15%-125%)						

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID:	3100-0000-192-C3C-01	Project:	YANK01204
Sample ID:	157164019	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	16-FEB-06		
Receive Date:	02-MAR-06		
Collector:	Client		
Moisture:	4.19%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>Gammasec, Gamma, GAM2, ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.396	+/-0.129	0.0618	+/-0.127	0.136	pCi/g		MJH1	03/14/06	1934	509660	1
Americium-241	U	0.0528	+/-0.0889	0.0701	+/-0.0871	0.146	pCi/g						
Bismuth-212	UUI	0.00	+/-0.365	0.127	+/-0.358	0.278	pCi/g						
Bismuth-214		0.605	+/-0.0983	0.0301	+/-0.0963	0.0652	pCi/g						
Cesium-134	U	0.0186	+/-0.0228	0.019	+/-0.0223	0.0414	pCi/g						
Cesium-137	U	-0.00893	+/-0.0204	0.016	+/-0.020	0.035	pCi/g						
Cobalt-60	U	-0.000713	+/-0.0236	0.0192	+/-0.0231	0.043	pCi/g						
Europium-152	U	0.00925	+/-0.0555	0.0457	+/-0.0544	0.0969	pCi/g						
Europium-154	U	-0.0555	+/-0.0723	0.0532	+/-0.0709	0.119	pCi/g						
Europium-155	U	0.0565	+/-0.0428	0.0473	+/-0.0419	0.0986	pCi/g						
Lead-212		0.313	+/-0.0539	0.0254	+/-0.0528	0.0534	pCi/g						
Lead-214		0.723	+/-0.104	0.0317	+/-0.102	0.0675	pCi/g						
Manganese-54	U	-0.00577	+/-0.0203	0.0158	+/-0.0199	0.0348	pCi/g						
Niobium-94	U	0.00735	+/-0.0182	0.0156	+/-0.0178	0.0338	pCi/g						
Potassium-40		6.76	+/-0.864	0.169	+/-0.847	0.383	pCi/g						
Radium-226		0.605	+/-0.0983	0.0301	+/-0.0963	0.0652	pCi/g						
Silver-108m	U	-0.00425	+/-0.0179	0.015	+/-0.0175	0.0322	pCi/g						
Thallium-208		0.0879	+/-0.0418	0.0184	+/-0.041	0.0395	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	0.00539	+/-0.0196	0.0205	+/-0.0196	0.0453	pCi/g		BXF1	03/07/06	2049	508559	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2, ALL2 (CT)</i>													
Tritium		2.58	+/-1.43	1.14	+/-1.44	2.34	pCi/g		CHS1	03/17/06	1518	508624	3
<i>Liquid Scint Fe55, Solid-HTD2, ALL2 (CT)</i>													
Iron-55	U	-0.821	+/-1.58	1.15	+/-1.58	2.33	pCi/g		JS1	03/23/06	0914	511622	4
<i>Liquid Scint Ni63, Solid-HTD2, ALL2 (CT)</i>													
Nickel-63	U	-0.258	+/-1.31	1.11	+/-1.31	2.25	pCi/g		SLN1	03/14/06	0635	508533	6

Solid Preparation

Laboratory Composite – CONCRETE

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-192-C3C-01
Sample ID: 157164019
Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	JMB1	03/04/06	1416	508388
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1656	508387
GL-RAD-A-026	Laboratory sample composite				508377

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	DOE RESL Fe-1, Modified
5	DOE RESL Fe-1, Modified
6	DOE RESL Ni-1, Modified
7	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	69	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,AI	56	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,AI	79	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID:	3100-0000-192-C5C-01	Project: YANK01204
Sample ID:	157164020	Client ID: YANK001
Matrix:	CT	Vol. Recv.:
Collect Date:	16-FEB-06	
Receive Date:	02-MAR-06	
Collector:	Client	
Moisture:	4.37%	

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>Gammascpec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.425	+/-0.142	0.0738	+/-0.139	0.159	pCi/g		MJH1	03/14/06	1935	509660	1
Americium-241	U	-0.17	+/-0.0864	0.0708	+/-0.0847	0.147	pCi/g						
Bismuth-212	U	0.146	+/-0.325	0.129	+/-0.319	0.279	pCi/g						
Bismuth-214		0.426	+/-0.0807	0.033	+/-0.079	0.0707	pCi/g						
Cesium-134	UUI	0.00	+/-0.0503	0.0241	+/-0.0493	0.0513	pCi/g						
Cesium-137	U	-0.000908	+/-0.0213	0.0179	+/-0.0209	0.0385	pCi/g						
Cobalt-60	U	-0.0152	+/-0.0247	0.0181	+/-0.0242	0.0405	pCi/g						
Europium-152	U	0.0324	+/-0.0564	0.0486	+/-0.0553	0.102	pCi/g						
Europium-154	U	0.0444	+/-0.0697	0.0609	+/-0.0683	0.133	pCi/g						
Europium-155	U	0.0753	+/-0.0589	0.0542	+/-0.0577	0.112	pCi/g						
Lead-212		0.446	+/-0.0621	0.0267	+/-0.0609	0.0558	pCi/g						
Lead-214		0.444	+/-0.0936	0.0304	+/-0.0918	0.0646	pCi/g						
Manganese-54	U	-0.00543	+/-0.0224	0.0182	+/-0.0219	0.0393	pCi/g						
Niobium-94	U	0.0152	+/-0.0216	0.0171	+/-0.0212	0.0367	pCi/g						
Potassium-40		7.13	+/-0.785	0.166	+/-0.769	0.375	pCi/g						
Radium-226		0.426	+/-0.0807	0.033	+/-0.079	0.0707	pCi/g						
Silver-108m	U	0.00665	+/-0.0198	0.0166	+/-0.0194	0.0352	pCi/g						
Thallium-208	UUI	0.00	+/-0.0406	0.030	+/-0.0398	0.0624	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	-0.00586	+/-0.0129	0.0151	+/-0.0129	0.0334	pCi/g		BXF1	03/07/06	2049	508559	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium		3.06	+/-1.47	1.16	+/-1.47	2.37	pCi/g		CHS1	03/17/06	1651	508624	3
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	-0.998	+/-1.80	1.28	+/-1.80	2.61	pCi/g		JS1	03/20/06	2044	511622	4
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	0.380	+/-1.24	1.03	+/-1.24	2.10	pCi/g		SLN1	03/14/06	0908	508533	6
Solid Preparation													
<i>Laboratory Composite – CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East-Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-192-C5C-01 Project: YANK01204
Sample ID: 157164020 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	JMB1	03/04/06	1416	508388
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1656	508387
GL-RAD-A-026	Laboratory sample composite				508377

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	DOE RESL Fe-1, Modified
5	DOE RESL Fe-1, Modified
6	DOE RESL Ni-1, Modified
7	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	89	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,Al	77	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,Al	86	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID:	3100-0000-193-C1C-01	Project:	YANK01204
Sample ID:	157164021	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	16-FEB-06		
Receive Date:	02-MAR-06		
Collector:	Client		
Moisture:	5.25%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec Am241, Cm, Solid-TRU2,ALL2 (CT)</i>													
Americium-241	U	0.018	+/-0.0226	0.00	+/-0.0227	0.020	pCi/g		LCW1	03/10/06	0905	508564	1
Curium-242	U	0.00812	+/-0.0159	0.00	+/-0.016	0.022	pCi/g						
Curium-243/244	U	0.00	+/-0.0145	0.00	+/-0.0145	0.020	pCi/g						
<i>Alphaspec Pu, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-238	U	0.00463	+/-0.0172	0.0148	+/-0.0172	0.0452	pCi/g		LCW1	03/10/06	1127	508566	2
Plutonium-239/240	U	-0.00556	+/-0.0126	0.0132	+/-0.0126	0.0421	pCi/g						
<i>Liquid Scint Pu241, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-241	U	-0.337	+/-1.40	1.37	+/-1.40	2.80	pCi/g		LCW1	03/16/06	0243	508569	3
Rad Gamma Spec Analysis													
<i>Gammasespec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.488	+/-0.197	0.0787	+/-0.193	0.172	pCi/g		MJH1	03/14/06	1937	509662	4
Americium-241	U	-0.0136	+/-0.0327	0.029	+/-0.0321	0.060	pCi/g						
Bismuth-212	U	0.126	+/-0.438	0.196	+/-0.429	0.419	pCi/g						
Bismuth-214		0.555	+/-0.125	0.038	+/-0.122	0.0819	pCi/g						
Cesium-134	UUI	0.00	+/-0.0485	0.030	+/-0.0476	0.0641	pCi/g						
Cesium-137	U	0.00605	+/-0.0278	0.0235	+/-0.0272	0.0505	pCi/g						
Cobalt-60	U	0.0081	+/-0.0241	0.0188	+/-0.0237	0.0431	pCi/g						
Europium-152	U	0.0797	+/-0.0738	0.0512	+/-0.0723	0.109	pCi/g						
Europium-154	U	0.0004	+/-0.0771	0.0639	+/-0.0755	0.143	pCi/g						
Europium-155	U	-0.00689	+/-0.0528	0.0459	+/-0.0518	0.0956	pCi/g						
Lead-212		0.440	+/-0.0869	0.0343	+/-0.0852	0.0714	pCi/g						
Lead-214		0.583	+/-0.122	0.0391	+/-0.119	0.0826	pCi/g						
Manganese-54	U	-0.00505	+/-0.026	0.0206	+/-0.0255	0.0451	pCi/g						
Niobium-94	U	0.0148	+/-0.0219	0.0194	+/-0.0215	0.0418	pCi/g						
Potassium-40		7.02	+/-1.07	0.187	+/-1.05	0.429	pCi/g						
Radium-226		0.555	+/-0.125	0.038	+/-0.122	0.0819	pCi/g						
Silver-108m	U	0.0161	+/-0.0201	0.0183	+/-0.0197	0.0391	pCi/g						
Thallium-208		0.130	+/-0.0545	0.0225	+/-0.0534	0.0481	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	-0.0182	+/-0.0141	0.0211	+/-0.0141	0.0473	pCi/g		BXF1	03/14/06	1052	510651	5
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium		4.67	+/-2.08	1.57	+/-2.09	3.27	pCi/g		CHS1	03/07/06	0117	508625	7

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-193-C1C-01 Project: YANK01204
Sample ID: 157164021 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Liquid Scintillation Analysis													
<i>Liquid Scint C14, Solid-HTD2,ALL2 (CT)</i>													
Carbon-14	U	-0.0979	+/-0.291	0.249	+/-0.292	0.522	pCi/g		MXP1	03/13/06	2211	508642	8
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	-1.77	+/-1.88	1.38	+/-1.88	2.81	pCi/g		JS1	03/17/06	2232	511502	9
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	-0.308	+/-1.63	1.37	+/-1.63	2.81	pCi/g		SLN1	03/15/06	1234	508728	11
<i>Liquid Scint Tc99, Solid-HTD2,ALL2 (CT)</i>													
Technetium-99	U	0.0596	+/-0.353	0.294	+/-0.353	0.610	pCi/g		SLN1	03/13/06	1121	508570	12

Solid Preparation

Laboratory Composite – CONCRETE

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	LXM1	03/04/06	1442	508396
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1658	508391
GL-RAD-A-026	Laboratory sample composite				508385

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, Am-05-RC Modified
2	DOE EML HASL-300, Pu-11-RC Modified
3	DOE EML HASL-300, Pu-11-RC Modified
4	EML HASL 300, 4.5.2.3
5	EPA 905.0 Modified
6	EPA 905.0 Modified
7	EPA 906.0 Modified
8	EPA EERF C-01 Modified
9	DOE RESL Fe-1, Modified
10	DOE RESL Fe-1, Modified
11	DOE RESL Ni-1, Modified
12	DOE EML HASL-300, Tc-02-RC Modified
13	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
---------------------------	------	-----------	-------------------

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-193-C1C-02
Sample ID: 157164022
Matrix: CT
Collect Date: 16-FEB-06
Receive Date: 02-MAR-06
Collector: Client
Moisture: 4.79%

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec Am241, Cm, Solid-TRU2,ALL2 (CT)</i>													
Americium-241	U	-0.00428	+/-0.0178	0.00	+/-0.0178	0.0246	pCi/g		LCW1	03/10/06	0905	508564	1
Curium-242	U	0.00	+/-0.0195	0.00	+/-0.0195	0.027	pCi/g						
Curium-243/244	U	0.00	+/-0.0178	0.00	+/-0.0178	0.0246	pCi/g						
<i>Alphaspec Pu, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-238	U	0.0369	+/-0.0353	0.0219	+/-0.0354	0.0595	pCi/g		LCW1	03/10/06	1127	508566	2
Plutonium-239/240	U	0.000463	+/-0.0178	0.0187	+/-0.0178	0.053	pCi/g						
<i>Liquid Scint Pu241, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-241	U	-0.0403	+/-1.68	1.63	+/-1.68	3.35	pCi/g		LCW1	03/16/06	0330	508569	3
Rad Gamma Spec Analysis													
<i>Gammasec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.449	+/-0.109	0.0384	+/-0.107	0.0833	pCi/g		MJH1	03/14/06	2104	509662	4
Americium-241	U	-0.007	+/-0.0568	0.0465	+/-0.0556	0.0962	pCi/g						
Bismuth-212		0.388	+/-0.214	0.084	+/-0.210	0.181	pCi/g						
Bismuth-214		0.476	+/-0.0715	0.0206	+/-0.0701	0.044	pCi/g						
Cesium-134	U	0.0235	+/-0.0286	0.0137	+/-0.028	0.0293	pCi/g						
Cesium-137	U	-0.00599	+/-0.0135	0.011	+/-0.0133	0.0236	pCi/g						
Cobalt-60	U	-0.00344	+/-0.0156	0.0128	+/-0.0153	0.0281	pCi/g						
Europium-152	U	0.00815	+/-0.0398	0.0333	+/-0.039	0.0695	pCi/g						
Europium-154	U	0.0301	+/-0.0762	0.042	+/-0.0747	0.0909	pCi/g						
Europium-155	U	0.0441	+/-0.0419	0.032	+/-0.041	0.0662	pCi/g						
Lead-212		0.449	+/-0.0418	0.0183	+/-0.0409	0.038	pCi/g						
Lead-214		0.483	+/-0.058	0.0236	+/-0.0569	0.0493	pCi/g						
Manganese-54	U	0.00313	+/-0.0149	0.0126	+/-0.0146	0.027	pCi/g						
Niobium-94	U	-0.00052	+/-0.0128	0.0107	+/-0.0125	0.0229	pCi/g						
Potassium-40		7.36	+/-0.603	0.120	+/-0.591	0.265	pCi/g						
Radium-226		0.476	+/-0.0715	0.0206	+/-0.0701	0.044	pCi/g						
Silver-108m	U	-0.00219	+/-0.0122	0.0105	+/-0.0119	0.0222	pCi/g						
Thallium-208		0.141	+/-0.0342	0.0107	+/-0.0335	0.0228	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	0.0271	+/-0.0296	0.0266	+/-0.0296	0.0626	pCi/g		BXF1	03/15/06	1428	510651	5
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium	U	2.73	+/-1.59	1.33	+/-1.59	2.75	pCi/g		CHS1	03/12/06	1118	508625	7

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-193-C1C-02 Project: YANK01204
Sample ID: 157164022 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Liquid Scintillation Analysis													
<i>Liquid Scint C14, Solid-HTD2,ALL2 (CT)</i>													
Carbon-14	U	-0.294	+/-0.225	0.204	+/-0.225	0.426	pCi/g		MXPI	03/13/06	2258	508642	8
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	2.03	+/-1.82	1.38	+/-1.83	2.81	pCi/g		JS1	03/22/06	0124	511502	9
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	-1.04	+/-1.84	1.56	+/-1.84	3.20	pCi/g		SLN1	03/15/06	1336	508728	11
<i>Liquid Scint Tc99, Solid-HTD2,ALL2 (CT)</i>													
Technetium-99	U	-0.139	+/-0.367	0.313	+/-0.367	0.649	pCi/g		SLN1	03/13/06	1137	508570	12

Solid Preparation

Laboratory Composite – CONCRETE

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	LXM1	03/04/06	1442	508396
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1658	508391
GL-RAD-A-026	Laboratory sample composite				508385

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, Am-05-RC Modified
2	DOE EML HASL-300, Pu-11-RC Modified
3	DOE EML HASL-300, Pu-11-RC Modified
4	EML HASL 300, 4.5.2.3
5	EPA 905.0 Modified
6	EPA 905.0 Modified
7	EPA 906.0 Modified
8	EPA EERF C-01 Modified
9	DOE RESL Fe-1, Modified
10	DOE RESL Fe-1, Modified
11	DOE RESL Ni-1, Modified
12	DOE EML HASL-300, Tc-02-RC Modified
13	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
---------------------------	------	-----------	-------------------

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-193-C1C-02
Sample ID: 157164022

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time Batch	Mtd
Surrogate/Tracer recovery	Test				Recovery%		Acceptable Limits					
Americium-243		Alphaspec Am241, Cm, Solid-TR1			59		(15%-125%)					
Plutonium-242		Alphaspec Pu, Solid-TRU2,ALL2			90		(15%-125%)					
Carrier/Tracer Recovery		Liquid Scint Pu241, Solid-TRU2, /			77		(25%-125%)					
Carrier/Tracer Recovery		GFPC, Sr90, solid Quick TAT			58		(25%-125%)					
Carrier/Tracer Recovery		Liquid Scint Fe55, Solid-HTD2,A)			20		(15%-125%)					
Carrier/Tracer Recovery		Liquid Scint Ni63, Solid-HTD2,A)			72		(25%-125%)					
Carrier/Tracer Recovery		Liquid Scint Tc99, Solid-HTD2,A)			76		(15%-125%)					

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID:	3100-0000-193-C1C-03	Project:	YANK01204
Sample ID:	157164023	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	16-FEB-06		
Receive Date:	02-MAR-06		
Collector:	Client		
Moisture:	4.24%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>GammaSpec, Gamma, GAM2, ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.437	+/-0.135	0.0494	+/-0.132	0.106	pCi/g		MJH1	03/14/06	2104	509662	1
Americium-241	U	0.0884	+/-0.0938	0.0757	+/-0.0919	0.156	pCi/g						
Bismuth-212	UUI	0.00	+/-0.270	0.102	+/-0.264	0.219	pCi/g						
Bismuth-214		0.721	+/-0.0857	0.030	+/-0.084	0.063	pCi/g						
Cesium-134	U	0.00901	+/-0.0217	0.0186	+/-0.0213	0.0393	pCi/g						
Cesium-137	U	0.0211	+/-0.0202	0.0163	+/-0.0198	0.0344	pCi/g						
Cobalt-60	U	0.00489	+/-0.0174	0.015	+/-0.0171	0.0325	pCi/g						
Europium-152	U	-0.0107	+/-0.0538	0.0449	+/-0.0528	0.0933	pCi/g						
Europium-154	U	-0.00896	+/-0.0534	0.044	+/-0.0524	0.095	pCi/g						
Europium-155	U	0.0604	+/-0.0552	0.0484	+/-0.0541	0.0995	pCi/g						
Lead-212		0.699	+/-0.0604	0.0246	+/-0.0592	0.0509	pCi/g						
Lead-214		0.830	+/-0.0846	0.030	+/-0.0829	0.0626	pCi/g						
Manganese-54	U	-0.0105	+/-0.0192	0.0153	+/-0.0188	0.0325	pCi/g						
Niobium-94	U	0.0123	+/-0.0165	0.0146	+/-0.0162	0.0308	pCi/g						
Potassium-40		8.31	+/-0.733	0.145	+/-0.719	0.315	pCi/g						
Radium-226		0.721	+/-0.0857	0.030	+/-0.084	0.063	pCi/g						
Silver-108m	U	0.00573	+/-0.0176	0.0149	+/-0.0173	0.0311	pCi/g						
Thallium-208		0.193	+/-0.0338	0.0151	+/-0.0332	0.0319	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	0.0224	+/-0.0199	0.0182	+/-0.0199	0.041	pCi/g		BXF1	03/14/06	1052	510651	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2, ALL2 (CT)</i>													
Tritium	U	1.39	+/-1.48	1.28	+/-1.48	2.64	pCi/g		CHS1	03/12/06	1205	508625	4
<i>Liquid Scint Fe55, Solid-HTD2, ALL2 (CT)</i>													
Iron-55	U	-0.954	+/-1.87	1.43	+/-1.87	2.92	pCi/g		JS1	03/22/06	0914	511502	5
<i>Liquid Scint Ni63, Solid-HTD2, ALL2 (CT)</i>													
Nickel-63	U	-0.956	+/-2.01	1.71	+/-2.01	3.49	pCi/g		SLN1	03/15/06	1439	508728	7
Solid Preparation													
<i>Laboratory Composite – CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-193-C1C-03 Project: YANK01204
Sample ID: 157164023 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	LXM1	03/04/06	1442	508396
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1658	508391
GL-RAD-A-026	Laboratory sample composite				508385

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 905.0 Modified
4	EPA 906.0 Modified
5	DOE RESL Fe-1, Modified
6	DOE RESL Fe-1, Modified
7	DOE RESL Ni-1, Modified
8	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	70	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,Al	32	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,Al	64	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
- BD Results below the MDC or low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value.
- U Target analyte was analyzed for but not detected above the MDL or LOD.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- d The 2:1 depletion requirement was not met for this sample
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-193-C1C-04
Sample ID: 157164024
Matrix: CT
Collect Date: 16-FEB-06
Receive Date: 02-MAR-06
Collector: Client
Moisture: 6.6%

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>Gammasec, Gamma, GAM2, ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.532	+/-0.119	0.0382	+/-0.117	0.0811	pCi/g		MJH1	03/14/06	2105	509662	1
Americium-241	U	7.830E-05	+/-0.0901	0.0683	+/-0.0883	0.141	pCi/g						
Bismuth-212		0.288	+/-0.198	0.0865	+/-0.194	0.182	pCi/g						
Bismuth-214		0.643	+/-0.0747	0.0224	+/-0.0732	0.0467	pCi/g						
Cesium-134	UUI	0.00	+/-0.0199	0.0146	+/-0.0195	0.0305	pCi/g						
Cesium-137	U	-0.0115	+/-0.0146	0.0113	+/-0.0143	0.0238	pCi/g						
Cobalt-60	U	0.0111	+/-0.0158	0.0127	+/-0.0155	0.027	pCi/g						
Europium-152	U	-0.000605	+/-0.0377	0.0326	+/-0.0369	0.0676	pCi/g						
Europium-154	U	-0.0518	+/-0.0515	0.0311	+/-0.0505	0.0669	pCi/g						
Europium-155	U	0.0348	+/-0.045	0.0406	+/-0.0441	0.0835	pCi/g						
Lead-212		0.584	+/-0.0448	0.0198	+/-0.0439	0.0409	pCi/g						
Lead-214		0.666	+/-0.0633	0.0208	+/-0.062	0.0433	pCi/g						
Manganese-54	U	0.00285	+/-0.0142	0.0122	+/-0.014	0.0256	pCi/g						
Niobium-94	U	0.00546	+/-0.0155	0.0113	+/-0.0152	0.0236	pCi/g						
Potassium-40		9.14	+/-0.529	0.101	+/-0.519	0.220	pCi/g						
Radium-226		0.643	+/-0.0747	0.0224	+/-0.0732	0.0467	pCi/g						
Silver-108m	U	-0.00562	+/-0.0126	0.0105	+/-0.0124	0.0218	pCi/g						
Thallium-208		0.176	+/-0.0328	0.011	+/-0.0321	0.0231	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	0.000262	+/-0.0166	0.0191	+/-0.0166	0.0429	pCi/g		BXF1	03/14/06	1052	510651	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2, ALL2 (CT)</i>													
Tritium	U	-0.824	+/-1.41	1.30	+/-1.41	2.68	pCi/g		CHS1	03/12/06	1252	508625	4
<i>Liquid Scint Fe55, Solid-HTD2, ALL2 (CT)</i>													
Iron-55	U	1.08	+/-2.03	1.45	+/-2.03	2.95	pCi/g		JS1	03/22/06	1047	511502	5
<i>Liquid Scint Ni63, Solid-HTD2, ALL2 (CT)</i>													
Nickel-63	U	-0.534	+/-1.77	1.50	+/-1.77	3.07	pCi/g		SLN1	03/15/06	1542	508728	7
Solid Preparation													
<i>Laboratory Composite – CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-193-C1C-04 Project: YANK01204
Sample ID: 157164024 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	LXM1	03/04/06	1442	508396
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1658	508391
GL-RAD-A-026	Laboratory sample composite				508385

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 905.0 Modified
4	EPA 906.0 Modified
5	DOE RESL Fe-1, Modified
6	DOE RESL Fe-1, Modified
7	DOE RESL Ni-1, Modified
8	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	64	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,A)	53	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,A)	74	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-193-C4C-01
Sample ID: 157164025
Matrix: CT
Collect Date: 16-FEB-06
Receive Date: 02-MAR-06
Collector: Client
Moisture: 4.5%

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>GammaSpec, Gamma, GAM2, ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.484	+/-0.114	0.0385	+/-0.112	0.0812	pCi/g		MJH1	03/14/06	2106	509662	1
Americium-241	U	0.0022	+/-0.0451	0.0397	+/-0.0442	0.0817	pCi/g						
Bismuth-212		0.216	+/-0.195	0.0816	+/-0.191	0.171	pCi/g						
Bismuth-214		0.571	+/-0.0776	0.021	+/-0.076	0.0439	pCi/g						
Cesium-134	U	0.00651	+/-0.0231	0.014	+/-0.0227	0.0292	pCi/g						
Cesium-137	U	-0.0064	+/-0.0141	0.0113	+/-0.0138	0.0236	pCi/g						
Cobalt-60	U	0.00389	+/-0.0142	0.0121	+/-0.014	0.0257	pCi/g						
Europium-152	U	0.00659	+/-0.0354	0.0295	+/-0.0347	0.0612	pCi/g						
Europium-154	U	-0.0136	+/-0.0385	0.0313	+/-0.0378	0.0668	pCi/g						
Europium-155	U	0.0352	+/-0.0395	0.0344	+/-0.0387	0.0706	pCi/g						
Lead-212		0.394	+/-0.050	0.0173	+/-0.049	0.0357	pCi/g						
Lead-214		0.714	+/-0.0879	0.0206	+/-0.0861	0.0426	pCi/g						
Manganese-54	U	0.0034	+/-0.0142	0.0121	+/-0.0139	0.0253	pCi/g						
Niobium-94	U	0.00439	+/-0.0126	0.0105	+/-0.0123	0.0219	pCi/g						
Potassium-40		8.53	+/-0.720	0.108	+/-0.706	0.230	pCi/g						
Radium-226		0.571	+/-0.0776	0.021	+/-0.076	0.0439	pCi/g						
Silver-108m	U	0.00835	+/-0.0121	0.0103	+/-0.0119	0.0214	pCi/g						
Thallium-208		0.130	+/-0.0292	0.0124	+/-0.0286	0.0258	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	-0.00113	+/-0.0244	0.0283	+/-0.0244	0.0628	pCi/g		BXF1	03/14/06	1052	510651	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2, ALL2 (CT)</i>													
Tritium	U	0.261	+/-1.43	1.28	+/-1.43	2.64	pCi/g		CHS1	03/12/06	1339	508625	4
<i>Liquid Scint Fe55, Solid-HTD2, ALL2 (CT)</i>													
Iron-55	U	0.052	+/-1.81	1.35	+/-1.81	2.75	pCi/g		JS1	03/22/06	1220	511502	5
<i>Liquid Scint Ni63, Solid-HTD2, ALL2 (CT)</i>													
Nickel-63	U	-1.56	+/-2.18	1.87	+/-2.18	3.82	pCi/g		SLN1	03/15/06	1645	508728	7

Solid Preparation

Laboratory Composite – CONCRETE

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-193-C4C-01 Project: YANK01204
Sample ID: 157164025 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	LXM1	03/04/06	1442	508396
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1658	508391
GL-RAD-A-026	Laboratory sample composite				508385

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 905.0 Modified
4	EPA 906.0 Modified
5	DOE RESL Fe-1, Modified
6	DOE RESL Fe-1, Modified
7	DOE RESL Ni-1, Modified
8	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	53	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,Al	38	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,Al	62	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-193-C5C-01
Sample ID: 157164026
Matrix: CT
Collect Date: 16-FEB-06
Receive Date: 02-MAR-06
Collector: Client
Moisture: 5.09%

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>Gammasec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.495	+/-0.189	0.062	+/-0.185	0.133	pCi/g		MJH1	03/14/06	2106	509662	1
Americium-241	U	0.00933	+/-0.149	0.0787	+/-0.146	0.161	pCi/g						
Bismuth-212	U	0.211	+/-0.276	0.147	+/-0.270	0.310	pCi/g						
Bismuth-214		0.866	+/-0.122	0.0324	+/-0.120	0.0682	pCi/g						
Cesium-134	U	0.0429	+/-0.0398	0.0223	+/-0.039	0.0471	pCi/g						
Cesium-137	U	-0.00884	+/-0.0215	0.0169	+/-0.0211	0.0358	pCi/g						
Cobalt-60	U	-0.0118	+/-0.0214	0.0162	+/-0.0209	0.0359	pCi/g						
Europium-152	U	-0.022	+/-0.0634	0.0447	+/-0.0621	0.0931	pCi/g						
Europium-154	U	0.006	+/-0.0688	0.0568	+/-0.0674	0.123	pCi/g						
Europium-155	U	-0.00219	+/-0.0602	0.049	+/-0.059	0.101	pCi/g						
Lead-212		0.569	+/-0.0838	0.0269	+/-0.0821	0.0555	pCi/g						
Lead-214		0.919	+/-0.131	0.0333	+/-0.128	0.0693	pCi/g						
Manganese-54	U	0.00477	+/-0.0226	0.0184	+/-0.0222	0.0391	pCi/g						
Niobium-94	U	0.00315	+/-0.0205	0.0167	+/-0.0201	0.0352	pCi/g						
Potassium-40		8.30	+/-0.976	0.162	+/-0.957	0.359	pCi/g						
Radium-226		0.866	+/-0.122	0.0324	+/-0.120	0.0682	pCi/g						
Silver-108m	U	-0.00521	+/-0.0185	0.015	+/-0.0181	0.0314	pCi/g						
Thallium-208		0.188	+/-0.052	0.0164	+/-0.0509	0.0346	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	0.0149	+/-0.0171	0.0161	+/-0.0171	0.0368	pCi/g		BXF1	03/14/06	1052	510651	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium	U	0.868	+/-1.76	1.44	+/-1.76	2.99	pCi/g		CHS1	03/07/06	0355	508625	4
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	-1.08	+/-1.75	1.32	+/-1.75	2.69	pCi/g		JS1	03/22/06	0507	511502	5
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	-2.08	+/-1.68	1.46	+/-1.68	2.99	pCi/g		SLN1	03/15/06	1747	508728	7
Solid Preparation													
<i>Laboratory Composite – CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556–8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100–0000–193–C5C–01
Sample ID: 157164026
Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL–RAD–A–021B	LXM1	03/04/06	1442	508396
Dry Soil Prep	Dry Soil Prep GL–RAD–A–021	AXP2	03/02/06	1658	508391
GL–RAD–A–026	Laboratory sample composite				508385

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 905.0 Modified
4	EPA 906.0 Modified
5	DOE RESL Fe–1, Modified
6	DOE RESL Fe–1, Modified
7	DOE RESL Ni–1, Modified
8	GL–RAD–A–026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	73	(25%–125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid–HTD2,AI	34	(15%–125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid–HTD2,AI	77	(25%–125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
- BD Results below the MDC or low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value.
- U Target analyte was analyzed for but not detected above the MDL or LOD.
- UI Uncertain identification for gamma spectroscopy.
- X Lab–specific qualifier–please see case narrative, data summary package or contact your project manager for details.
- d The 2:1 depletion requirement was not met for this sample
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

 : East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-194-C1C-01
Sample ID: 157164027
Matrix: CT
Collect Date: 16-FEB-06
Receive Date: 02-MAR-06
Collector: Client
Moisture: 6.38%

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec Am241, Cm, Solid-TRU2,ALL2 (CT)</i>													
Americium-241	U	0.00263	+/-0.00841	0.00	+/-0.00842	0.019	pCi/g		LCW1	03/10/06	0905	508564	1
Curium-242	U	0.00	+/-0.0151	0.00	+/-0.0151	0.0209	pCi/g						
Curium-243/244	U	0.0123	+/-0.0197	0.00799	+/-0.0198	0.035	pCi/g						
<i>Alphaspec Pu, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-238	U	0.00325	+/-0.0201	0.0195	+/-0.0201	0.0537	pCi/g		LCW1	03/10/06	1127	508566	2
Plutonium-239/240	U	-0.00217	+/-0.017	0.0195	+/-0.017	0.0537	pCi/g						
<i>Liquid Scint Pu241, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-241	U	-1.15	+/-1.49	1.48	+/-1.50	3.04	pCi/g		LCW1	03/16/06	0417	508569	3
Rad Gamma Spec Analysis													
<i>Gammastec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.448	+/-0.136	0.0576	+/-0.134	0.122	pCi/g		MJH1	03/14/06	2258	509662	4
Americium-241	U	0.0329	+/-0.0654	0.0559	+/-0.0641	0.115	pCi/g						
Bismuth-212	U	0.188	+/-0.192	0.106	+/-0.189	0.226	pCi/g						
Bismuth-214		0.393	+/-0.0742	0.0269	+/-0.0727	0.0565	pCi/g						
Cesium-134	U	0.0173	+/-0.0215	0.0168	+/-0.0211	0.0356	pCi/g						
Cesium-137	U	0.00719	+/-0.0173	0.0153	+/-0.017	0.0322	pCi/g						
Cobalt-60		0.503	+/-0.0634	0.013	+/-0.0621	0.0285	pCi/g						
Europium-152	U	-0.0332	+/-0.0405	0.0336	+/-0.0397	0.0702	pCi/g						
Europium-154	U	0.000828	+/-0.0498	0.0417	+/-0.0488	0.0903	pCi/g						
Europium-155	U	-0.00578	+/-0.0443	0.0395	+/-0.0435	0.0813	pCi/g						
Lead-212		0.353	+/-0.0547	0.0216	+/-0.0536	0.0447	pCi/g						
Lead-214		0.453	+/-0.0785	0.026	+/-0.0769	0.0543	pCi/g						
Manganese-54	U	0.018	+/-0.0203	0.018	+/-0.0199	0.0377	pCi/g						
Niobium-94	U	0.0119	+/-0.0153	0.0134	+/-0.015	0.0282	pCi/g						
Potassium-40		7.86	+/-0.887	0.105	+/-0.869	0.236	pCi/g						
Radium-226		0.393	+/-0.0742	0.0269	+/-0.0727	0.0565	pCi/g						
Silver-108m	U	-0.00705	+/-0.0144	0.0119	+/-0.0142	0.0249	pCi/g						
Thallium-208		0.121	+/-0.0328	0.0134	+/-0.0321	0.0282	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	0.000573	+/-0.0191	0.0219	+/-0.0191	0.0491	pCi/g		BXF1	03/14/06	1052	510651	5
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium		5.52	+/-2.12	1.57	+/-2.12	3.27	pCi/g		CHS1	03/07/06	0427	508625	7

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-194-C1C-01
Sample ID: 157164027

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Liquid Scintillation Analysis													
<i>Liquid Scint C14, Solid-HTD2,ALL2 (CT)</i>													
Carbon-14	U	-0.154	+/-0.298	0.258	+/-0.298	0.540	pCi/g		MXPI	03/13/06	2346	508642	8
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	-1.05	+/-1.72	1.29	+/-1.72	2.62	pCi/g		JS1	03/22/06	1530	511502	9
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	-0.598	+/-1.88	1.59	+/-1.88	3.25	pCi/g		SLN1	03/15/06	1850	508728	11
<i>Liquid Scint Tc99, Solid-HTD2,ALL2 (CT)</i>													
Technetium-99	U	-0.107	+/-0.346	0.294	+/-0.346	0.610	pCi/g		SLN1	03/13/06	1153	508570	12

Solid Preparation

Laboratory Composite – CONCRETE

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	LXM1	03/04/06	1442	508396
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1658	508391
GL-RAD-A-026	Laboratory sample composite				508385

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, Am-05-RC Modified
2	DOE EML HASL-300, Pu-11-RC Modified
3	DOE EML HASL-300, Pu-11-RC Modified
4	EML HASL 300, 4.5.2.3
5	EPA 905.0 Modified
6	EPA 905.0 Modified
7	EPA 906.0 Modified
8	EPA EERF C-01 Modified
9	DOE RESL Fe-1, Modified
10	DOE RESL Fe-1, Modified
11	DOE RESL Ni-1, Modified
12	DOE EML HASL-300, Tc-02-RC Modified
13	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
---------------------------	------	-----------	-------------------

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID:	3100-0000-194-C1C-02	Project:	YANK01204
Sample ID:	157164028	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	16-FEB-06		
Receive Date:	02-MAR-06		
Collector:	Client		
Moisture:	6.99%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec Am241, Cm, Solid-TRU2,ALL2 (CT)</i>													
Americium-241	U	-0.00631	+/-0.0143	0.00807	+/-0.0143	0.0353	pCi/g		LCW1	03/10/06	0905	508564	1
Curium-242	U	-0.00561	+/-0.00635	0.0154	+/-0.0064	0.0518	pCi/g						
Curium-243/244	U	-0.00341	+/-0.00472	0.0114	+/-0.00474	0.0421	pCi/g						
<i>Alphaspec Pu, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-238	U	-0.00637	+/-0.0164	0.0223	+/-0.0164	0.0634	pCi/g		LCW1	03/10/06	1127	508566	2
Plutonium-239/240	U	0.0036	+/-0.0143	0.0112	+/-0.0143	0.0411	pCi/g						
<i>Liquid Scint Pu241, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-241	U	-0.36	+/-2.37	2.31	+/-2.37	4.73	pCi/g		LCW1	03/16/06	0504	508569	3
Rad Gamma Spec Analysis													
<i>Gammastec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.423	+/-0.0908	0.0401	+/-0.089	0.0872	pCi/g		MJH1	03/14/06	2258	509662	4
Americium-241	U	0.0264	+/-0.103	0.073	+/-0.101	0.152	pCi/g						
Bismuth-212		0.371	+/-0.219	0.093	+/-0.215	0.200	pCi/g						
Bismuth-214		0.414	+/-0.0677	0.0238	+/-0.0664	0.0505	pCi/g						
Cesium-134	UUI	0.00	+/-0.0304	0.0171	+/-0.0298	0.0362	pCi/g						
Cesium-137	U	0.00463	+/-0.014	0.0122	+/-0.0138	0.0262	pCi/g						
Cobalt-60	U	0.0084	+/-0.0162	0.0129	+/-0.0159	0.0285	pCi/g						
Europium-152	U	-0.0197	+/-0.0348	0.0279	+/-0.0341	0.0591	pCi/g						
Europium-154	U	-0.0361	+/-0.046	0.0345	+/-0.045	0.0764	pCi/g						
Europium-155	U	0.0237	+/-0.0403	0.0382	+/-0.0395	0.0791	pCi/g						
Lead-212		0.399	+/-0.0421	0.0191	+/-0.0413	0.0399	pCi/g						
Lead-214		0.482	+/-0.0583	0.0239	+/-0.0571	0.0502	pCi/g						
Manganese-54	U	0.00807	+/-0.0136	0.0112	+/-0.0134	0.0243	pCi/g						
Niobium-94	U	-0.00775	+/-0.0136	0.0108	+/-0.0133	0.0232	pCi/g						
Potassium-40		7.44	+/-0.627	0.120	+/-0.614	0.269	pCi/g						
Radium-226		0.414	+/-0.0677	0.0238	+/-0.0664	0.0505	pCi/g						
Silver-108m	U	-0.00198	+/-0.0118	0.0103	+/-0.0116	0.0219	pCi/g						
Thallium-208		0.124	+/-0.0258	0.0123	+/-0.0253	0.0261	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	0.0186	+/-0.0183	0.0171	+/-0.0183	0.0385	pCi/g		BXF1	03/14/06	1052	510651	5
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium		4.26	+/-1.99	1.51	+/-1.99	3.13	pCi/g		CHS1	03/07/06	0459	508625	7

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-194-C1C-02 Project: YANK01204
Sample ID: 157164028 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Liquid Scintillation Analysis													
<i>Liquid Scint C14, Solid-HTD2,ALL2 (CT)</i>													
Carbon-14	U	-0.151	+/-0.246	0.214	+/-0.246	0.448	pCi/g		MXPI	03/14/06	0033	508642	8
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	-0.697	+/-1.93	1.40	+/-1.93	2.85	pCi/g		JS1	03/18/06	0627	511502	9
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	0.243	+/-1.91	1.59	+/-1.91	3.26	pCi/g		SLN1	03/15/06	1952	508728	11
<i>Liquid Scint Tc99, Solid-HTD2,ALL2 (CT)</i>													
Technetium-99	U	-0.0225	+/-0.330	0.278	+/-0.330	0.576	pCi/g		SLN1	03/13/06	1209	508570	12

Solid Preparation

Laboratory Composite – CONCRETE

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	LXM1	03/04/06	1442	508396
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1658	508391
GL-RAD-A-026	Laboratory sample composite				508385

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, Am-05-RC Modified
2	DOE EML HASL-300, Pu-11-RC Modified
3	DOE EML HASL-300, Pu-11-RC Modified
4	EML HASL 300, 4.5.2.3
5	EPA 905.0 Modified
6	EPA 905.0 Modified
7	EPA 906.0 Modified
8	EPA EERF C-01 Modified
9	DOE RESL Fe-1, Modified
10	DOE RESL Fe-1, Modified
11	DOE RESL Ni-1, Modified
12	DOE EML HASL-300, Tc-02-RC Modified
13	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
---------------------------	------	-----------	-------------------

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-194-C1C-02 Project: YANK01204
Sample ID: 157164028 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Surrogate/Tracer recovery	Test				Recovery%		Acceptable Limits						
Americium-243		Alphaspec Am241, Cm, Solid-TR1			83		(15%-125%)						
Plutonium-242		Alphaspec Pu, Solid-TRU2,ALL2			100		(15%-125%)						
Carrier/Tracer Recovery		Liquid Scint Pu241, Solid-TRU2, /			57		(25%-125%)						
Carrier/Tracer Recovery		GFPC, Sr90, solid Quick TAT			64		(25%-125%)						
Carrier/Tracer Recovery		Liquid Scint Fe55, Solid-HTD2,AI			48		(15%-125%)						
Carrier/Tracer Recovery		Liquid Scint Ni63, Solid-HTD2,AI			69		(25%-125%)						
Carrier/Tracer Recovery		Liquid Scint Tc99, Solid-HTD2,A			86		(15%-125%)						

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID:	3100-0000-194-C1C-03	Project:	YANK01204
Sample ID:	157164029	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	16-FEB-06		
Receive Date:	02-MAR-06		
Collector:	Client		
Moisture:	6.67%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>Gammascpec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.434	+/-0.113	0.0396	+/-0.110	0.0871	pCi/g		MJH1	03/14/06	2259	509662	1
Americium-241	U	0.0165	+/-0.0667	0.0593	+/-0.0654	0.123	pCi/g						
Bismuth-212		0.293	+/-0.189	0.109	+/-0.185	0.233	pCi/g						
Bismuth-214		0.467	+/-0.0733	0.024	+/-0.0718	0.0512	pCi/g						
Cesium-134	U	0.031	+/-0.0294	0.0174	+/-0.0288	0.0371	pCi/g						
Cesium-137	U	0.00374	+/-0.0165	0.0145	+/-0.0162	0.0309	pCi/g						
Cobalt-60	U	0.0222	+/-0.018	0.0173	+/-0.0176	0.0376	pCi/g						
Europium-152		0.0199	+/-0.0427	0.0375	+/-0.0418	0.0787	pCi/g						
Europium-154	U	0.0334	+/-0.0454	0.042	+/-0.0445	0.0922	pCi/g						
Europium-155	UUI	0.00	+/-0.0622	0.038	+/-0.0609	0.0787	pCi/g						
Lead-212		0.436	+/-0.046	0.0217	+/-0.0451	0.0451	pCi/g						
Lead-214		0.419	+/-0.0819	0.029	+/-0.0803	0.0607	pCi/g						
Manganese-54	U	0.00318	+/-0.0166	0.0142	+/-0.0163	0.0305	pCi/g						
Niobium-94	U	0.00728	+/-0.014	0.0125	+/-0.0137	0.0267	pCi/g						
Potassium-40		7.16	+/-0.669	0.131	+/-0.655	0.292	pCi/g						
Radium-226		0.467	+/-0.0733	0.024	+/-0.0718	0.0512	pCi/g						
Silver-108m	U	0.0181	+/-0.0193	0.0128	+/-0.0189	0.027	pCi/g						
Thallium-208		0.110	+/-0.036	0.0147	+/-0.0353	0.0312	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	-0.00196	+/-0.0185	0.0218	+/-0.0185	0.0494	pCi/g		BXF1	03/14/06	1052	510651	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium	U	0.938	+/-1.49	1.30	+/-1.49	2.68	pCi/g		CHS1	03/12/06	1426	508625	4
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	-0.44	+/-1.91	1.49	+/-1.91	3.04	pCi/g		JS1	03/22/06	0711	511502	5
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	-1.67	+/-1.73	1.49	+/-1.73	3.05	pCi/g		SLN1	03/15/06	2055	508728	7
Solid Preparation													
<i>Laboratory Composite – CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-194-C1C-03 Project: YANK01204
Sample ID: 157164029 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	LXM1	03/04/06	1442	508396
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1658	508391
GL-RAD-A-026	Laboratory sample composite				508385

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 905.0 Modified
4	EPA 906.0 Modified
5	DOE RESL Fe-1, Modified
6	DOE RESL Fe-1, Modified
7	DOE RESL Ni-1, Modified
8	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	60	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,Al	23	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,Al	72	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
- BD Results below the MDC or low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value.
- U Target analyte was analyzed for but not detected above the MDL or LOD.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
- d The 2:1 depletion requirement was not met for this sample
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID:	3100-0000-194-C1C-04	Project:	YANK01204
Sample ID:	157164030	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	16-FEB-06		
Receive Date:	02-MAR-06		
Collector:	Client		
Moisture:	7.07%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>Gammascpec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.392	+/-0.130	0.0464	+/-0.128	0.101	pCi/g		MJH1	03/14/06	2300	509662	1
Americium-241	U	0.012	+/-0.0619	0.0532	+/-0.0606	0.110	pCi/g						
Bismuth-212		0.423	+/-0.212	0.100	+/-0.207	0.215	pCi/g						
Bismuth-214		0.364	+/-0.064	0.0247	+/-0.0627	0.0525	pCi/g						
Cesium-134	U	0.014	+/-0.019	0.0167	+/-0.0186	0.0355	pCi/g						
Cesium-137	U	0.00993	+/-0.0152	0.0135	+/-0.0149	0.0289	pCi/g						
Cobalt-60	U	0.0052	+/-0.0185	0.0157	+/-0.0181	0.0344	pCi/g						
Europium-152	U	0.0137	+/-0.0412	0.0349	+/-0.0404	0.0735	pCi/g						
Europium-154	U	-0.048	+/-0.054	0.040	+/-0.0529	0.0881	pCi/g						
Europium-155	U	0.0189	+/-0.0381	0.0353	+/-0.0373	0.0733	pCi/g						
Lead-212		0.413	+/-0.0436	0.0195	+/-0.0427	0.0407	pCi/g						
Lead-214		0.453	+/-0.0578	0.0246	+/-0.0567	0.0519	pCi/g						
Manganese-54	U	0.00398	+/-0.0165	0.0138	+/-0.0161	0.0297	pCi/g						
Niobium-94	U	-0.0116	+/-0.0143	0.011	+/-0.014	0.0237	pCi/g						
Potassium-40		7.11	+/-0.656	0.123	+/-0.643	0.277	pCi/g						
Radium-226		0.364	+/-0.064	0.0247	+/-0.0627	0.0525	pCi/g						
Silver-108m	U	0.00587	+/-0.0128	0.0115	+/-0.0125	0.0244	pCi/g						
Thallium-208		0.125	+/-0.0358	0.0139	+/-0.035	0.0296	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	0.0419	+/-0.0327	0.0294	+/-0.0327	0.0657	pCi/g		BXFI	03/14/06	1052	510651	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium	U	1.28	+/-1.49	1.21	+/-1.49	2.50	pCi/g		CHS1	03/16/06	0930	508625	4
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55		3.99	+/-1.75	1.20	+/-1.76	2.43	pCi/g		JS1	03/22/06	1703	511502	5
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	-0.201	+/-1.95	1.64	+/-1.95	3.36	pCi/g		SLNI	03/15/06	2157	508728	7
Solid Preparation													
<i>Laboratory Composite – CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-194-C1C-04 Project: YANK01204
Sample ID: 157164030 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	LXM1	03/04/06	1442	508396
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1658	508391
GL-RAD-A-026	Laboratory sample composite				508385

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 905.0 Modified
4	EPA 906.0 Modified
5	DOE RESL Fe-1, Modified
6	DOE RESL Fe-1, Modified
7	DOE RESL Ni-1, Modified
8	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	51	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,A)	71	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,A)	68	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID:	3100-0000-194-C3C-01	Project:	YANK01204
Sample ID:	157164031	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	16-FEB-06		
Receive Date:	02-MAR-06		
Collector:	Client		
Moisture:	6.36%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>Gammasec, Gamma, GAM2, ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.510	+/-0.114	0.0433	+/-0.112	0.0929	pCi/g		MJH1	03/14/06	2300	509662	1
Americium-241	U	0.0515	+/-0.0685	0.0592	+/-0.0672	0.122	pCi/g						
Bismuth-212	UUI	0.00	+/-0.218	0.0899	+/-0.214	0.192	pCi/g						
Bismuth-214		0.397	+/-0.0608	0.0249	+/-0.0596	0.0526	pCi/g						
Cesium-134	UUI	0.00	+/-0.0215	0.0161	+/-0.021	0.034	pCi/g						
Cesium-137	U	-0.00164	+/-0.0153	0.0132	+/-0.015	0.0279	pCi/g						
Cobalt-60	U	0.00884	+/-0.0167	0.0145	+/-0.0164	0.0315	pCi/g						
Europium-152	U	-0.0111	+/-0.042	0.0355	+/-0.0412	0.0741	pCi/g						
Europium-154	U	-0.0265	+/-0.0424	0.0319	+/-0.0415	0.0705	pCi/g						
Europium-155	U	0.026	+/-0.0527	0.0404	+/-0.0516	0.0831	pCi/g						
Lead-212		0.441	+/-0.0432	0.021	+/-0.0423	0.0434	pCi/g						
Lead-214		0.479	+/-0.0539	0.0233	+/-0.0528	0.0489	pCi/g						
Manganese-54	U	-0.00513	+/-0.0159	0.0132	+/-0.0156	0.0281	pCi/g						
Niobium-94	U	0.0121	+/-0.0139	0.0127	+/-0.0136	0.0268	pCi/g						
Potassium-40		7.08	+/-0.574	0.115	+/-0.563	0.254	pCi/g						
Radium-226		0.397	+/-0.0608	0.0249	+/-0.0596	0.0526	pCi/g						
Silver-108m	U	-0.000406	+/-0.013	0.011	+/-0.0127	0.0231	pCi/g						
Thallium-208		0.141	+/-0.0304	0.0124	+/-0.0298	0.0262	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	0.00836	+/-0.0208	0.0221	+/-0.0208	0.0496	pCi/g		BXFI	03/14/06	1052	510651	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2, ALL2 (CT)</i>													
Tritium	U	-0.184	+/-1.45	1.31	+/-1.45	2.71	pCi/g		CHS1	03/12/06	1600	508625	4
<i>Liquid Scint Fe55, Solid-HTD2, ALL2 (CT)</i>													
Iron-55	U	1.69	+/-1.81	1.26	+/-1.81	2.56	pCi/g		JS1	03/22/06	1836	511502	5
<i>Liquid Scint Ni63, Solid-HTD2, ALL2 (CT)</i>													
Nickel-63	U	-0.726	+/-1.96	1.66	+/-1.96	3.39	pCi/g		SLN1	03/15/06	2300	508728	7
Solid Preparation													
<i>Laboratory Composite – CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-194-C3C-01 Project: YANK01204
Sample ID: 157164031 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	LXM1	03/04/06	1442	508396
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1658	508391
GL-RAD-A-026	Laboratory sample composite				508385

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 905.0 Modified
4	EPA 906.0 Modified
5	DOE RESL Fe-1, Modified
6	DOE RESL Fe-1, Modified
7	DOE RESL Ni-1, Modified
8	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	60	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,AI	72	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,AI	69	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
- BD Results below the MDC or low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value.
- U Target analyte was analyzed for but not detected above the MDL or LOD.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
- d The 2:1 depletion requirement was not met for this sample
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID:	3100-0000-194-C4C-01	Project:	YANK01204
Sample ID:	157164032	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	16-FEB-06		
Receive Date:	02-MAR-06		
Collector:	Client		
Moisture:	5.93%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>Gammascpec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.308	+/-0.142	0.0688	+/-0.139	0.146	pCi/g		MJH1	03/14/06	2301	509662	1
Americium-241	U	0.00622	+/-0.0299	0.028	+/-0.0293	0.0573	pCi/g						
Bismuth-212	U	0.321	+/-0.189	0.177	+/-0.185	0.369	pCi/g						
Bismuth-214		0.470	+/-0.0973	0.0369	+/-0.0954	0.0772	pCi/g						
Cesium-134	U	-0.0137	+/-0.0265	0.0218	+/-0.026	0.0458	pCi/g						
Cesium-137	U	0.00832	+/-0.0225	0.0199	+/-0.022	0.0417	pCi/g						
Cobalt-60	U	0.00723	+/-0.0225	0.0195	+/-0.0221	0.0419	pCi/g						
Europium-152	U	0.0497	+/-0.0539	0.049	+/-0.0528	0.102	pCi/g						
Europium-154	U	-0.00945	+/-0.0668	0.0557	+/-0.0655	0.119	pCi/g						
Europium-155	U	0.0283	+/-0.049	0.0447	+/-0.048	0.0918	pCi/g						
Lead-212		0.452	+/-0.0493	0.026	+/-0.0483	0.0537	pCi/g						
Lead-214		0.562	+/-0.0908	0.0323	+/-0.0889	0.0674	pCi/g						
Manganese-54	U	-0.0185	+/-0.0266	0.0181	+/-0.0261	0.0383	pCi/g						
Niobium-94	U	0.00271	+/-0.0212	0.0184	+/-0.0208	0.0385	pCi/g						
Potassium-40		7.32	+/-0.669	0.152	+/-0.656	0.334	pCi/g						
Radium-226		0.470	+/-0.0973	0.0369	+/-0.0954	0.0772	pCi/g						
Silver-108m	U	0.000156	+/-0.0198	0.0169	+/-0.0195	0.0353	pCi/g						
Thallium-208		0.185	+/-0.0395	0.0198	+/-0.0387	0.0414	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	0.0213	+/-0.0189	0.0172	+/-0.0189	0.0388	pCi/g		BXF1	03/14/06	1052	510651	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium	U	0.461	+/-1.42	1.26	+/-1.42	2.60	pCi/g		CHS1	03/12/06	1647	508625	4
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	-1.99	+/-1.78	1.30	+/-1.79	2.65	pCi/g		JS1	03/18/06	1037	511502	5
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	-0.0749	+/-1.75	1.47	+/-1.75	3.01	pCi/g		SLN1	03/16/06	0051	508728	7
Solid Preparation													
<i>Laboratory Composite – CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-194-C4C-01 Project: YANK01204
Sample ID: 157164032 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	LXM1	03/04/06	1442	508396
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1658	508391
GL-RAD-A-026	Laboratory sample composite				508385

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 905.0 Modified
4	EPA 906.0 Modified
5	DOE RESL Fe-1, Modified
6	DOE RESL Fe-1, Modified
7	DOE RESL Ni-1, Modified
8	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	70	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,AI	55	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,AI	79	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
- BD Results below the MDC or low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value.
- U Target analyte was analyzed for but not detected above the MDL or LOD.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
- d The 2:1 depletion requirement was not met for this sample
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID:	3100-0000-195-C1C-01	Project:	YANK01204
Sample ID:	157164033	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	15-FEB-06		
Receive Date:	02-MAR-06		
Collector:	Client		
Moisture:	7.19%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec Am241, Cm, Solid-TRU2,ALL2 (CT)</i>													
Americium-241	U	-0.00467	+/-0.0122	0.00	+/-0.0122	0.0169	pCi/g		LCW1	03/10/06	0905	508564	1
Curium-242	U	0.00688	+/-0.0135	0.00	+/-0.0135	0.0186	pCi/g						
Curium-243/244	U	-0.0015	+/-0.00294	0.00711	+/-0.00294	0.0311	pCi/g						
<i>Alphaspec Pu, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-238	U	-0.00534	+/-0.00604	0.0146	+/-0.00607	0.0493	pCi/g		LCW1	03/10/06	1127	508566	2
Plutonium-239/240	U	-0.0142	+/-0.0176	0.0239	+/-0.0176	0.0678	pCi/g						
<i>Liquid Scint Pu241, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-241	U	0.394	+/-1.92	1.84	+/-1.92	3.78	pCi/g		LCW1	03/16/06	0551	508569	3
Rad Gamma Spec Analysis													
<i>Gammasespec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.359	+/-0.102	0.041	+/-0.100	0.0891	pCi/g		MJH1	03/14/06	2301	509662	4
Americium-241	U	-0.0036	+/-0.0163	0.0145	+/-0.016	0.0299	pCi/g						
Bismuth-212		0.280	+/-0.186	0.0974	+/-0.182	0.208	pCi/g						
Bismuth-214		0.358	+/-0.0728	0.0226	+/-0.0713	0.0482	pCi/g						
Cesium-134	UUI	0.00	+/-0.0278	0.0157	+/-0.0272	0.0335	pCi/g						
Cesium-137	U	-0.0029	+/-0.0149	0.0124	+/-0.0146	0.0265	pCi/g						
Cobalt-60	U	-0.00273	+/-0.0146	0.0117	+/-0.0143	0.026	pCi/g						
Europium-152	U	-0.0051	+/-0.0355	0.0296	+/-0.0348	0.0624	pCi/g						
Europium-154	U	0.0198	+/-0.0485	0.0419	+/-0.0476	0.091	pCi/g						
Europium-155	U	0.0249	+/-0.0347	0.0221	+/-0.034	0.0461	pCi/g						
Lead-212		0.348	+/-0.0522	0.0164	+/-0.0511	0.0343	pCi/g						
Lead-214		0.363	+/-0.0672	0.0214	+/-0.0658	0.0451	pCi/g						
Manganese-54	U	-0.00851	+/-0.015	0.0116	+/-0.0147	0.025	pCi/g						
Niobium-94	U	0.0112	+/-0.0136	0.0122	+/-0.0134	0.0258	pCi/g						
Potassium-40		7.06	+/-0.735	0.127	+/-0.721	0.280	pCi/g						
Radium-226		0.358	+/-0.0728	0.0226	+/-0.0713	0.0482	pCi/g						
Silver-108m	U	0.00561	+/-0.0114	0.0104	+/-0.0112	0.0221	pCi/g						
Thallium-208		0.125	+/-0.0333	0.0104	+/-0.0326	0.0223	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	0.00153	+/-0.0169	0.0192	+/-0.0169	0.0428	pCi/g		BXF1	03/14/06	1052	510651	5
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist. Solid-HTD2,ALL2 (CT)</i>													
Tritium	U	1.34	+/-1.53	1.32	+/-1.53	2.73	pCi/g		CHS1	03/12/06	1734	508625	7

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-195-C1C-01 Project: YANK01204
Sample ID: 157164033 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Liquid Scintillation Analysis													
<i>Liquid Scint C14, Solid-HTD2,ALL2 (CT)</i>													
Carbon-14	U	-0.245	+/-0.281	0.248	+/-0.281	0.519	pCi/g		MXP1	03/14/06	0121	508642	8
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	0.0585	+/-1.29	0.904	+/-1.29	1.84	pCi/g		JS1	03/18/06	1139	511502	9
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	-0.16	+/-1.87	1.57	+/-1.87	3.22	pCi/g		SLN1	03/16/06	0153	508728	11
<i>Liquid Scint Tc99, Solid-HTD2,ALL2 (CT)</i>													
Technetium-99	U	0.0768	+/-0.326	0.271	+/-0.326	0.562	pCi/g		SLN1	03/13/06	1225	508570	12

Solid Preparation

Laboratory Composite – CONCRETE

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	LXM1	03/04/06	1442	508396
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1658	508391
GL-RAD-A-026	Laboratory sample composite				508385

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, Am-05-RC Modified
2	DOE EML HASL-300, Pu-11-RC Modified
3	DOE EML HASL-300, Pu-11-RC Modified
4	EML HASL 300, 4.5.2.3
5	EPA 905.0 Modified
6	EPA 905.0 Modified
7	EPA 906.0 Modified
8	EPA EERF C-01 Modified
9	DOE RESL Fe-1, Modified
10	DOE RESL Fe-1, Modified
11	DOE RESL Ni-1, Modified
12	DOE EML HASL-300, Tc-02-RC Modified
13	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
---------------------------	------	-----------	-------------------

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-195-C1C-01 Project: YANK01204
Sample ID: 157164033 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time Batch	Mtd
Surrogate/Tracer recovery	Test				Recovery%		Acceptable Limits					
Americium-243		Alphaspec Am241, Cm, Solid-TR1			92		(15%-125%)					
Plutonium-242		Alphaspec Pu, Solid-TRU2,ALL2			77		(15%-125%)					
Carrier/Tracer Recovery		Liquid Scint Pu241, Solid-TRU2, /			71		(25%-125%)					
Carrier/Tracer Recovery		GFPC, Sr90, solid Quick TAT			69		(25%-125%)					
Carrier/Tracer Recovery		Liquid Scint Fe55, Solid-HTD2,AI			63		(15%-125%)					
Carrier/Tracer Recovery		Liquid Scint Ni63, Solid-HTD2,AI			73		(25%-125%)					
Carrier/Tracer Recovery		Liquid Scint Tc99, Solid-HTD2,AI			84		(15%-125%)					

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID:	3100-0000-195-C1C-02	Project:	YANK01204
Sample ID:	157164034	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	15-FEB-06		
Receive Date:	02-MAR-06		
Collector:	Client		
Moisture:	5.95%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec Am241, Cm, Solid-TRU2,ALL2 (CT)</i>													
Americium-241	U	-0.00446	+/-0.0263	0.00	+/-0.0264	0.0363	pCi/g		LCW1	03/10/06	0905	508564	1
Curium-242	U	0.00	+/-0.029	0.00	+/-0.029	0.0401	pCi/g						
Curium-243/244	U	-0.00322	+/-0.00631	0.0153	+/-0.00634	0.0669	pCi/g						
<i>Alphaspec Pu, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-238	U	-0.00135	+/-0.0113	0.00639	+/-0.0113	0.028	pCi/g		LCW1	03/10/06	1127	508566	2
Plutonium-239/240	U	-0.00269	+/-0.0116	0.00904	+/-0.0116	0.0333	pCi/g						
<i>Liquid Scint Pu241, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-241	U	1.41	+/-1.85	1.51	+/-1.85	3.10	pCi/g		LCW1	03/17/06	2003	508569	3
Rad Gamma Spec Analysis													
<i>Gammaspect, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.436	+/-0.127	0.0527	+/-0.124	0.114	pCi/g		MJH1	03/14/06	2302	509662	4
Americium-241	U	0.00484	+/-0.0249	0.0214	+/-0.0244	0.0442	pCi/g						
Bismuth-212		0.454	+/-0.282	0.118	+/-0.277	0.253	pCi/g						
Bismuth-214		0.324	+/-0.0709	0.0321	+/-0.0694	0.0678	pCi/g						
Cesium-134	U	0.0211	+/-0.0242	0.0191	+/-0.0237	0.0408	pCi/g						
Cesium-137	U	0.00394	+/-0.0194	0.0167	+/-0.019	0.0355	pCi/g						
Cobalt-60	U	0.00612	+/-0.021	0.0181	+/-0.0206	0.0395	pCi/g						
Europium-152	U	0.0128	+/-0.0411	0.0376	+/-0.0403	0.079	pCi/g						
Europium-154	U	-0.00411	+/-0.0537	0.0447	+/-0.0527	0.0983	pCi/g						
Europium-155	U	0.0384	+/-0.0473	0.0336	+/-0.0464	0.0695	pCi/g						
Lead-212		0.333	+/-0.052	0.0194	+/-0.0509	0.0404	pCi/g						
Lead-214		0.393	+/-0.0666	0.0245	+/-0.0652	0.0517	pCi/g						
Manganese-54	U	0.0131	+/-0.019	0.0168	+/-0.0186	0.0359	pCi/g						
Niobium-94	U	0.0114	+/-0.0169	0.015	+/-0.0165	0.0319	pCi/g						
Potassium-40		5.90	+/-0.729	0.113	+/-0.714	0.258	pCi/g						
Radium-226		0.324	+/-0.0709	0.0321	+/-0.0694	0.0678	pCi/g						
Silver-108m	U	-0.00742	+/-0.0143	0.0122	+/-0.0141	0.0259	pCi/g						
Thallium-208		0.104	+/-0.0451	0.0162	+/-0.0442	0.0343	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	0.00353	+/-0.0192	0.0213	+/-0.0192	0.0479	pCi/g		BXF1	03/14/06	1052	510651	5
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium	U	0.993	+/-1.51	1.32	+/-1.51	2.72	pCi/g		CHS1	03/12/06	1821	508625	7

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-195-C1C-02 Project: YANK01204
Sample ID: 157164034 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Liquid Scintillation Analysis													
<i>Liquid Scint C14, Solid-HTD2,ALL2 (CT)</i>													
Carbon-14	U	-0.242	+/-0.269	0.237	+/-0.269	0.496	pCi/g		MXP1	03/14/06	0208	508642	8
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	1.36	+/-1.93	1.37	+/-1.94	2.79	pCi/g		JS1	03/18/06	1241	511502	9
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	-1.11	+/-2.06	1.75	+/-2.06	3.59	pCi/g		SLN1	03/16/06	0256	508728	11
<i>Liquid Scint Tc99, Solid-HTD2,ALL2 (CT)</i>													
Technetium-99	U	0.122	+/-0.310	0.258	+/-0.311	0.527	pCi/g		SLN1	03/13/06	2127	508572	12

Solid Preparation

Laboratory Composite – CONCRETE

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	LXM1	03/04/06	1442	508396
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1658	508391
GL-RAD-A-026	Laboratory sample composite				508385

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, Am-05-RC Modified
2	DOE EML HASL-300, Pu-11-RC Modified
3	DOE EML HASL-300, Pu-11-RC Modified
4	EML HASL 300, 4.5.2.3
5	EPA 905.0 Modified
6	EPA 905.0 Modified
7	EPA 906.0 Modified
8	EPA EERF C-01 Modified
9	DOE RESL Fe-1, Modified
10	DOE RESL Fe-1, Modified
11	DOE RESL Ni-1, Modified
12	DOE EML HASL-300, Tc-02-RC Modified
13	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
---------------------------	------	-----------	-------------------

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : 362 Injun Hollow Rd

 : East Hampton, Connecticut 06424
 Contact: Mr. Jack McCarthy
 Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-195-C1C-02
 Sample ID: 157164034

Project: YANK01204
 Client ID: YANK001
 Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time Batch	Mtd
Surrogate/Tracer recovery	Test				Recovery%	Acceptable Limits						
Americium-243	Alphaspec Am241, Cm, Solid-TR1				44	(15%-125%)						
Plutonium-242	Alphaspec Pu, Solid-TRU2,ALL2				94	(15%-125%)						
Carrier/Tracer Recovery	Liquid Scint Pu241, Solid-TRU2, /				84	(25%-125%)						
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT				66	(25%-125%)						
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,A1				50	(15%-125%)						
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,A1				62	(25%-125%)						
Carrier/Tracer Recovery	Liquid Scint Tc99, Solid-HTD2,A1				77	(15%-125%)						

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID:	3100-0000-195-C1C-03	Project:	YANK01204
Sample ID:	157164035	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	15-FEB-06		
Receive Date:	02-MAR-06		
Collector:	Client		
Moisture:	5.48%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>Gammascpec, Gamma, GAM2, ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.407	+/-0.136	0.0463	+/-0.133	0.0989	pCi/g		MJH1	03/15/06	0557	509662	1
Americium-241	U	0.0747	+/-0.114	0.0707	+/-0.112	0.145	pCi/g						
Bismuth-212		0.297	+/-0.234	0.109	+/-0.230	0.231	pCi/g						
Bismuth-214		1.08	+/-0.124	0.0242	+/-0.121	0.051	pCi/g						
Cesium-134	U	0.0208	+/-0.0184	0.0167	+/-0.0181	0.0352	pCi/g						
Cesium-137	U	0.0128	+/-0.0173	0.0154	+/-0.017	0.0324	pCi/g						
Cobalt-60	U	0.0119	+/-0.019	0.0169	+/-0.0186	0.0362	pCi/g						
Europium-152	U	-0.0236	+/-0.0529	0.0399	+/-0.0519	0.0827	pCi/g						
Europium-154	U	-0.0096	+/-0.0552	0.0457	+/-0.0541	0.0982	pCi/g						
Europium-155	U	0.00825	+/-0.0481	0.0438	+/-0.0471	0.0897	pCi/g						
Lead-212		0.356	+/-0.0617	0.0224	+/-0.0604	0.0461	pCi/g						
Lead-214		1.26	+/-0.148	0.0279	+/-0.145	0.058	pCi/g						
Manganese-54	U	0.00474	+/-0.0172	0.0146	+/-0.0169	0.031	pCi/g						
Niobium-94	U	0.00797	+/-0.0159	0.0139	+/-0.0156	0.0291	pCi/g						
Potassium-40		7.11	+/-0.825	0.165	+/-0.809	0.356	pCi/g						
Radium-226		1.08	+/-0.124	0.0242	+/-0.121	0.051	pCi/g						
Silver-108m	U	0.00792	+/-0.0148	0.0134	+/-0.0145	0.0278	pCi/g						
Thallium-208		0.117	+/-0.0354	0.0128	+/-0.0347	0.027	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	0.00258	+/-0.0245	0.0277	+/-0.0245	0.0616	pCi/g		BXF1	03/14/06	1053	510651	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2, ALL2 (CT)</i>													
Tritium	U	0.413	+/-1.73	1.44	+/-1.73	2.97	pCi/g		CHS1	03/12/06	1016	508625	4
<i>Liquid Scint Fe55, Solid-HTD2, ALL2 (CT)</i>													
Iron-55	U	-1.32	+/-1.94	1.41	+/-1.94	2.89	pCi/g		JS1	03/18/06	1343	511502	5
<i>Liquid Scint Ni63, Solid-HTD2, ALL2 (CT)</i>													
Nickel-63	U	-1.41	+/-1.79	1.54	+/-1.79	3.15	pCi/g		SLN1	03/16/06	0359	508728	7
Solid Preparation													
<i>Laboratory Composite – CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-195-C1C-03 Project: YANK01204
Sample ID: 157164035 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	LXM1	03/04/06	1442	508396
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1658	508391
GL-RAD-A-026	Laboratory sample composite				508385

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 905.0 Modified
4	EPA 906.0 Modified
5	DOE RESL Fe-1, Modified
6	DOE RESL Fe-1, Modified
7	DOE RESL Ni-1, Modified
8	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	55	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,A)	47	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,A)	72	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID:	3100-0000-195-C1C-04	Project:	YANK01204
Sample ID:	157164036	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	15-FEB-06		
Receive Date:	02-MAR-06		
Collector:	Client		
Moisture:	5.72%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>GammaSpec, Gamma, GAM2, ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.312	+/-0.117	0.0457	+/-0.115	0.0979	pCi/g		MJH1	03/15/06	0558	509662	1
Americium-241	U	-0.0338	+/-0.0624	0.0504	+/-0.0611	0.104	pCi/g						
Bismuth-212	U	0.170	+/-0.131	0.120	+/-0.128	0.253	pCi/g						
Bismuth-214		0.410	+/-0.0808	0.0225	+/-0.0791	0.0479	pCi/g						
Cesium-134	U	0.0198	+/-0.0188	0.017	+/-0.0184	0.0359	pCi/g						
Cesium-137	U	0.00637	+/-0.0158	0.0139	+/-0.0154	0.0294	pCi/g						
Cobalt-60	U	0.0278	+/-0.0266	0.014	+/-0.0261	0.0305	pCi/g						
Europium-152	U	-0.00297	+/-0.0369	0.0318	+/-0.0361	0.0668	pCi/g						
Europium-154	U	-0.0144	+/-0.0444	0.0357	+/-0.0435	0.0783	pCi/g						
Europium-155	U	0.0417	+/-0.0422	0.039	+/-0.0413	0.0803	pCi/g						
Lead-212		0.323	+/-0.0524	0.0187	+/-0.0513	0.0389	pCi/g						
Lead-214		0.500	+/-0.0811	0.0229	+/-0.0795	0.0481	pCi/g						
Manganese-54	U	-0.00451	+/-0.0158	0.0129	+/-0.0155	0.0276	pCi/g						
Niobium-94	U	0.00658	+/-0.0136	0.012	+/-0.0133	0.0255	pCi/g						
Potassium-40		6.90	+/-0.728	0.126	+/-0.714	0.278	pCi/g						
Radium-226		0.410	+/-0.0808	0.0225	+/-0.0791	0.0479	pCi/g						
Silver-108m	U	-0.0073	+/-0.0139	0.0114	+/-0.0136	0.024	pCi/g						
Thallium-208		0.123	+/-0.0337	0.0123	+/-0.033	0.0261	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	0.0106	+/-0.0184	0.0188	+/-0.0184	0.0424	pCi/g		BXF1	03/14/06	1221	510651	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2, ALL2 (CT)</i>													
Tritium	U	0.499	+/-1.46	1.29	+/-1.46	2.66	pCi/g		CHS1	03/12/06	1908	508625	4
<i>Liquid Scint Fe55, Solid-HTD2, ALL2 (CT)</i>													
Iron-55		3.26	+/-2.14	1.46	+/-2.14	2.97	pCi/g		JS1	03/18/06	1445	511502	5
<i>Liquid Scint Ni63, Solid-HTD2, ALL2 (CT)</i>													
Nickel-63	U	-0.792	+/-1.95	1.66	+/-1.95	3.39	pCi/g		SLN1	03/16/06	0502	508728	7

Solid Preparation

Laboratory Composite – CONCRETE

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-195-C3C-01
Sample ID: 157164037
Matrix: CT
Collect Date: 15-FEB-06
Receive Date: 02-MAR-06
Collector: Client
Moisture: 4.88%

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>Gammascpec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.362	+/-0.100	0.0437	+/-0.0982	0.0941	pCi/g		MJH1	03/15/06	0704	509662	1
Americium-241	U	-0.0707	+/-0.0913	0.0738	+/-0.0895	0.152	pCi/g						
Bismuth-212		0.264	+/-0.172	0.0815	+/-0.168	0.176	pCi/g						
Bismuth-214		0.285	+/-0.0619	0.0244	+/-0.0606	0.0515	pCi/g						
Cesium-134	U	0.0197	+/-0.0149	0.0138	+/-0.0146	0.0295	pCi/g						
Cesium-137	U	0.00114	+/-0.0138	0.0117	+/-0.0135	0.025	pCi/g						
Cobalt-60	U	0.0215	+/-0.0163	0.0135	+/-0.016	0.0296	pCi/g						
Europium-152	U	-0.0261	+/-0.0334	0.0284	+/-0.0327	0.0598	pCi/g						
Europium-154	U	-0.00592	+/-0.0445	0.0366	+/-0.0436	0.0802	pCi/g						
Europium-155	U	0.0117	+/-0.0367	0.0337	+/-0.036	0.070	pCi/g						
Lead-212		0.372	+/-0.0498	0.0173	+/-0.0488	0.0361	pCi/g						
Lead-214		0.305	+/-0.0567	0.0197	+/-0.0556	0.0417	pCi/g						
Manganese-54	U	-0.00941	+/-0.0148	0.0114	+/-0.0145	0.0247	pCi/g						
Niobium-94	U	0.00858	+/-0.0131	0.0116	+/-0.0128	0.0246	pCi/g						
Potassium-40		6.97	+/-0.760	0.0841	+/-0.745	0.194	pCi/g						
Radium-226		0.285	+/-0.0619	0.0244	+/-0.0606	0.0515	pCi/g						
Silver-108m	U	-0.00559	+/-0.0119	0.0101	+/-0.0116	0.0213	pCi/g						
Thallium-208		0.0999	+/-0.0319	0.0112	+/-0.0313	0.024	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	-0.00348	+/-0.0164	0.0197	+/-0.0164	0.0443	pCi/g		BXF1	03/14/06	1221	510651	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium	U	-0.151	+/-1.53	1.29	+/-1.53	2.68	pCi/g		CHS1	03/07/06	0944	508625	4
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	-1.12	+/-1.52	1.09	+/-1.52	2.22	pCi/g		JS1	03/18/06	1548	511502	5
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	0.290	+/-2.01	1.68	+/-2.01	3.43	pCi/g		SLN1	03/16/06	0604	508728	7
Solid Preparation													
<i>Laboratory Composite – CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-195-C3C-01 Project: YANK01204
Sample ID: 157164037 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	LXM1	03/04/06	1442	508396
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1658	508391
GL-RAD-A-026	Laboratory sample composite				508385

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 905.0 Modified
4	EPA 906.0 Modified
5	DOE RESL Fe-1, Modified
6	DOE RESL Fe-1, Modified
7	DOE RESL Ni-1, Modified
8	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	65	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,A)	58	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,A)	67	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

: East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-195-C4C-01
Sample ID: 157164038
Matrix: CT
Collect Date: 16-FEB-06
Receive Date: 02-MAR-06
Collector: Client
Moisture: 5.8%

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>Gammascpec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.315	+/-0.107	0.047	+/-0.104	0.101	pCi/g		MJH1	03/15/06	1005	509662	1
Americium-241	U	-0.00826	+/-0.0766	0.0505	+/-0.0751	0.104	pCi/g						
Bismuth-212		0.250	+/-0.201	0.0916	+/-0.197	0.196	pCi/g						
Bismuth-214		0.387	+/-0.0775	0.0217	+/-0.0759	0.046	pCi/g						
Cesium-134	U	0.0279	+/-0.0273	0.0156	+/-0.0267	0.0331	pCi/g						
Cesium-137	U	0.00923	+/-0.0156	0.0139	+/-0.0153	0.0295	pCi/g						
Cobalt-60	U	0.020	+/-0.0155	0.0141	+/-0.0151	0.0306	pCi/g						
Europium-152	U	0.0176	+/-0.0381	0.034	+/-0.0373	0.071	pCi/g						
Europium-154	U	-0.0224	+/-0.0475	0.0377	+/-0.0466	0.0822	pCi/g						
Europium-155	U	-0.00516	+/-0.0398	0.0355	+/-0.039	0.0733	pCi/g						
Lead-212		0.289	+/-0.059	0.026	+/-0.0578	0.0534	pCi/g						
Lead-214		0.391	+/-0.0702	0.0224	+/-0.0688	0.047	pCi/g						
Manganese-54	U	-0.00877	+/-0.016	0.0128	+/-0.0157	0.0273	pCi/g						
Niobium-94	U	0.000158	+/-0.0136	0.0116	+/-0.0133	0.0247	pCi/g						
Potassium-40		7.22	+/-0.736	0.104	+/-0.721	0.234	pCi/g						
Radium-226		0.387	+/-0.0775	0.0217	+/-0.0759	0.046	pCi/g						
Silver-108m	U	0.00461	+/-0.0126	0.011	+/-0.0123	0.0231	pCi/g						
Thallium-208		0.122	+/-0.0389	0.0117	+/-0.0381	0.0249	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	-0.00272	+/-0.0177	0.021	+/-0.0177	0.0464	pCi/g		BXF1	03/14/06	1221	510651	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium	U	0.343	+/-1.70	1.41	+/-1.70	2.94	pCi/g		CHS1	03/07/06	1015	508625	4
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	1.55	+/-1.78	1.24	+/-1.78	2.51	pCi/g		JS1	03/22/06	2009	511502	5
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	-0.465	+/-2.00	1.69	+/-2.00	3.46	pCi/g		SLN1	03/16/06	0707	508728	7

Solid Preparation

Laboratory Composite – CONCRETE

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-195-C4C-01
Sample ID: 157164038
Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	LXM1	03/04/06	1442	508396
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1658	508391
GL-RAD-A-026	Laboratory sample composite				508385

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 905.0 Modified
4	EPA 906.0 Modified
5	DOE RESL Fe-1, Modified
6	DOE RESL Fe-1, Modified
7	DOE RESL Ni-1, Modified
8	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	71	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,A	75	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,A	67	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID:	3100-0000-196-C1C-01	Project:	YANK01204
Sample ID:	157164039	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	15-FEB-06		
Receive Date:	02-MAR-06		
Collector:	Client		
Moisture:	6.13%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec Am241, Cm, Solid-TRU2,ALL2 (CT)</i>													
Americium-241	U	0.0116	+/-0.0153	0.00	+/-0.0154	0.0143	pCi/g		LCW1	03/10/06	0905	508564	1
Curium-242	U	0.00	+/-0.0115	0.00	+/-0.0115	0.0158	pCi/g						
Curium-243/244	U	-0.00127	+/-0.00249	0.00604	+/-0.0025	0.0265	pCi/g						
<i>Alphaspec Pu, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-238	U	-0.00161	+/-0.0135	0.00765	+/-0.0135	0.0335	pCi/g		LCW1	03/10/06	1127	508566	2
Plutonium-239/240	U	0.0051	+/-0.0135	0.00765	+/-0.0135	0.0335	pCi/g						
<i>Liquid Scint Pu241, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-241	U	1.86	+/-1.97	1.61	+/-1.98	3.30	pCi/g		LCW1	03/17/06	2050	508569	3
Rad Gamma Spec Analysis													
<i>Gammasespec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.318	+/-0.123	0.0458	+/-0.120	0.0985	pCi/g		MJH1	03/15/06	1005	509662	4
Americium-241	U	0.0665	+/-0.0942	0.0581	+/-0.0923	0.120	pCi/g						
Bismuth-212		0.338	+/-0.242	0.104	+/-0.237	0.221	pCi/g						
Bismuth-214		0.281	+/-0.0742	0.0248	+/-0.0727	0.0525	pCi/g						
Cesium-134	U	0.010	+/-0.0181	0.0157	+/-0.0177	0.0334	pCi/g						
Cesium-137	U	0.014	+/-0.0169	0.0151	+/-0.0166	0.0318	pCi/g						
Cobalt-60	U	0.0153	+/-0.0222	0.0175	+/-0.0217	0.0377	pCi/g						
Europium-152	U	0.0146	+/-0.0405	0.0363	+/-0.0397	0.0757	pCi/g						
Europium-154	U	0.0161	+/-0.0503	0.0435	+/-0.0493	0.0945	pCi/g						
Europium-155	U	0.0299	+/-0.0544	0.0373	+/-0.0533	0.0769	pCi/g						
Lead-212		0.355	+/-0.0532	0.0185	+/-0.0522	0.0385	pCi/g						
Lead-214		0.366	+/-0.0648	0.0244	+/-0.0635	0.051	pCi/g						
Manganese-54	U	-0.003	+/-0.0168	0.0136	+/-0.0164	0.0291	pCi/g						
Niobium-94	U	0.00205	+/-0.0131	0.0111	+/-0.0128	0.0237	pCi/g						
Potassium-40		7.23	+/-0.851	0.112	+/-0.834	0.252	pCi/g						
Radium-226		0.281	+/-0.0742	0.0248	+/-0.0727	0.0525	pCi/g						
Silver-108m	U	0.00172	+/-0.0125	0.011	+/-0.0123	0.0231	pCi/g						
Thallium-208		0.150	+/-0.0296	0.012	+/-0.029	0.0256	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	-0.00208	+/-0.0128	0.0153	+/-0.0128	0.0349	pCi/g		BXFI	03/14/06	1221	510651	5
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium		27.8	+/-2.66	1.37	+/-2.70	2.86	pCi/g		CHSI	03/07/06	1047	508625	7

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-196-C1C-01 Project: YANK01204
Sample ID: 157164039 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Liquid Scintillation Analysis													
<i>Liquid Scint C14, Solid-HTD2,ALL2 (CT)</i>													
Carbon-14	U	-0.156	+/-0.266	0.230	+/-0.266	0.482	pCi/g		MXP1	03/14/06	0256	508642	8
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	-1.6	+/-2.08	1.47	+/-2.08	2.99	pCi/g		JS1	03/18/06	1752	511502	9
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	-1.21	+/-1.57	1.35	+/-1.57	2.75	pCi/g		SLN1	03/16/06	0810	508728	11
<i>Liquid Scint Tc99, Solid-HTD2,ALL2 (CT)</i>													
Technetium-99	U	-0.137	+/-0.298	0.253	+/-0.298	0.519	pCi/g		SLN1	03/13/06	2159	508572	12

Solid Preparation

Laboratory Composite – CONCRETE

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	LXM1	03/04/06	1442	508396
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1658	508391
GL-RAD-A-026	Laboratory sample composite				508385

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, Am-05-RC Modified
2	DOE EML HASL-300, Pu-11-RC Modified
3	DOE EML HASL-300, Pu-11-RC Modified
4	EML HASL 300, 4.5.2.3
5	EPA 905.0 Modified
6	EPA 905.0 Modified
7	EPA 906.0 Modified
8	EPA EERF C-01 Modified
9	DOE RESL Fe-1, Modified
10	DOE RESL Fe-1, Modified
11	DOE RESL Ni-1, Modified
12	DOE EML HASL-300, Tc-02-RC Modified
13	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
---------------------------	------	-----------	-------------------

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-196-C1C-01 Project: YANK01204
Sample ID: 157164039 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time Batch	Mtd
Surrogate/Tracer recovery	Test				Recovery%		Acceptable Limits					
Americium-243		Alphaspec Am243, Cm, Solid-TR1			95		(15%-125%)					
Plutonium-242		Alphaspec Pu, Solid-TRU2,ALL2			82		(15%-125%)					
Carrier/Tracer Recovery		Liquid Scint Pu241, Solid-TRU2,4			80		(25%-125%)					
Carrier/Tracer Recovery		GFPC, Sr90, solid Quick TAT			77		(25%-125%)					
Carrier/Tracer Recovery		Liquid Scint Fe55, Solid-HTD2,AI			79		(15%-125%)					
Carrier/Tracer Recovery		Liquid Scint Ni63, Solid-HTD2,AI			86		(25%-125%)					
Carrier/Tracer Recovery		Liquid Scint Tc99, Solid-HTD2,A			78		(15%-125%)					

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID:	3100-0000-196-C1C-02	Project:	YANK01204
Sample ID:	157164040	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	15-FEB-06		
Receive Date:	02-MAR-06		
Collector:	Client		
Moisture:	5.52%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec Am241, Cm, Solid-TRU2,ALL2 (CT)</i>													
Americium-241	U	0.00803	+/-0.014	0.00	+/-0.014	0.0171	pCi/g		LCW1	03/10/06	0905	508564	1
Curium-242	U	0.0123	+/-0.0196	0.00796	+/-0.0197	0.0348	pCi/g						
Curium-243/244	U	0.016	+/-0.0219	0.0102	+/-0.022	0.0376	pCi/g						
<i>Alphaspec Pu, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-238	U	-0.00175	+/-0.0147	0.00831	+/-0.0147	0.0364	pCi/g		LCW1	03/10/06	1127	508566	2
Plutonium-239/240	U	0.00554	+/-0.0147	0.00831	+/-0.0147	0.0364	pCi/g						
<i>Liquid Scint Pu241, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-241	U	1.69	+/-1.95	1.60	+/-1.96	3.27	pCi/g		LCW1	03/17/06	2137	508569	3
Rad Gamma Spec Analysis													
<i>Gammastec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.339	+/-0.144	0.0558	+/-0.141	0.120	pCi/g		MJH1	03/15/06	1531	509662	4
Americium-241	U	-0.125	+/-0.0865	0.0641	+/-0.0848	0.133	pCi/g						
Bismuth-212	U	0.233	+/-0.143	0.135	+/-0.140	0.287	pCi/g						
Bismuth-214		0.405	+/-0.0826	0.0266	+/-0.081	0.0568	pCi/g						
Cesium-134	U	0.0169	+/-0.0251	0.0187	+/-0.0246	0.0398	pCi/g						
Cesium-137	U	0.00672	+/-0.0152	0.0134	+/-0.0149	0.0289	pCi/g						
Cobalt-60	U	0.0216	+/-0.0246	0.0173	+/-0.0242	0.038	pCi/g						
Europium-152	U	0.00156	+/-0.0426	0.0381	+/-0.0417	0.080	pCi/g						
Europium-154	U	-0.00301	+/-0.060	0.0502	+/-0.0588	0.110	pCi/g						
Europium-155	U	0.0371	+/-0.0457	0.0428	+/-0.0448	0.0885	pCi/g						
Lead-212		0.337	+/-0.0606	0.0211	+/-0.0594	0.044	pCi/g						
Lead-214		0.348	+/-0.0845	0.0268	+/-0.0828	0.0563	pCi/g						
Manganese-54	U	0.014	+/-0.019	0.0168	+/-0.0186	0.036	pCi/g						
Niobium-94	U	0.000711	+/-0.0147	0.0125	+/-0.0144	0.0268	pCi/g						
Potassium-40		7.43	+/-0.834	0.118	+/-0.818	0.269	pCi/g						
Radium-226		0.405	+/-0.0826	0.0266	+/-0.081	0.0568	pCi/g						
Silver-108m	U	-0.0069	+/-0.0145	0.0123	+/-0.0142	0.0261	pCi/g						
Thallium-208		0.106	+/-0.034	0.0135	+/-0.0333	0.0288	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	-0.0135	+/-0.0122	0.0176	+/-0.0122	0.0395	pCi/g		BXF1	03/14/06	1221	510651	5
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium		31.5	+/-2.91	1.48	+/-2.96	3.07	pCi/g		CHS1	03/07/06	1119	508625	7

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-196-C1C-02 Project: YANK01204
Sample ID: 157164040 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Liquid Scintillation Analysis													
<i>Liquid Scint C14, Solid-HTD2,ALL2 (CT)</i>													
Carbon-14	U	-0.228	+/-0.296	0.259	+/-0.296	0.543	pCi/g		MXP1	03/14/06	0343	508642	8
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	-0.902	+/-1.87	1.35	+/-1.87	2.75	pCi/g		JS1	03/18/06	1854	511502	9
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	-0.625	+/-2.27	1.92	+/-2.27	3.92	pCi/g		SLN1	03/16/06	0913	508728	11
<i>Liquid Scint Tc99, Solid-HTD2,ALL2 (CT)</i>													
Technetium-99	U	-0.027	+/-0.316	0.266	+/-0.316	0.544	pCi/g		SLN1	03/13/06	2230	508572	12

Solid Preparation

Laboratory Composite – CONCRETE

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	LXM1	03/04/06	1442	508396
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1658	508391
GL-RAD-A-026	Laboratory sample composite				508385

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, Am-05-RC Modified
2	DOE EML HASL-300, Pu-11-RC Modified
3	DOE EML HASL-300, Pu-11-RC Modified
4	EML HASL 300, 4.5.2.3
5	EPA 905.0 Modified
6	EPA 905.0 Modified
7	EPA 906.0 Modified
8	EPA EERF C-01 Modified
9	DOE RESL Fe-1, Modified
10	DOE RESL Fe-1, Modified
11	DOE RESL Ni-1, Modified
12	DOE EML HASL-300, Tc-02-RC Modified
13	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
---------------------------	------	-----------	-------------------

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 -- (843) 556-8171 -- www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-196-C1C-02
Sample ID: 157164040

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Surrogate/Tracer recovery	Test				Recovery%		Acceptable Limits						
Americium-243		Alphaspec Am241, Cm, Solid-TR1			88		(15%-125%)						
Plutonium-242		Alphaspec Pu, Solid-TRU2,ALL2			80		(15%-125%)						
Carrier/Tracer Recovery		Liquid Scint Pu241, Solid-TRU2, /			81		(25%-125%)						
Carrier/Tracer Recovery		GFPC, Sr90, solid Quick TAT			66		(25%-125%)						
Carrier/Tracer Recovery		Liquid Scint Fe55, Solid-HTD2,AI			53		(15%-125%)						
Carrier/Tracer Recovery		Liquid Scint Ni63, Solid-HTD2,AI			59		(25%-125%)						
Carrier/Tracer Recovery		Liquid Scint Tc99, Solid-HTD2,A			75		(15%-125%)						

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID:	3100-0000-196-C1C-03	Project:	YANK01204
Sample ID:	157164041	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	15-FEB-06		
Receive Date:	02-MAR-06		
Collector:	Client		
Moisture:	4.94%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>GammaSpec, Gamma, GAM2, ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.450	+/-0.148	0.0505	+/-0.145	0.111	pCi/g		MJH1	03/15/06	1736	509663	1
Americium-241	U	-0.0164	+/-0.079	0.0653	+/-0.0774	0.135	pCi/g						
Bismuth-212	U	0.138	+/-0.156	0.140	+/-0.153	0.299	pCi/g						
Bismuth-214		0.360	+/-0.0748	0.030	+/-0.0733	0.0641	pCi/g						
Cesium-134	U	0.035	+/-0.0225	0.0212	+/-0.0221	0.0453	pCi/g						
Cesium-137	U	0.000288	+/-0.0188	0.0159	+/-0.0185	0.0342	pCi/g						
Cobalt-60	U	0.00921	+/-0.0213	0.0187	+/-0.0209	0.0412	pCi/g						
Europium-152	U	0.00875	+/-0.0479	0.0402	+/-0.0469	0.0849	pCi/g						
Europium-154	U	-0.0487	+/-0.0684	0.0434	+/-0.067	0.097	pCi/g						
Europium-155	U	0.0109	+/-0.0469	0.0424	+/-0.0459	0.088	pCi/g						
Lead-212		0.396	+/-0.0549	0.0261	+/-0.0538	0.0543	pCi/g						
Lead-214		0.363	+/-0.0816	0.0304	+/-0.0799	0.064	pCi/g						
Manganese-54	U	-0.00244	+/-0.0198	0.0162	+/-0.0195	0.035	pCi/g						
Niobium-94	U	0.0046	+/-0.0175	0.015	+/-0.0171	0.0321	pCi/g						
Potassium-40		6.88	+/-0.717	0.176	+/-0.702	0.389	pCi/g						
Radium-226		0.360	+/-0.0748	0.030	+/-0.0733	0.0641	pCi/g						
Silver-108m	U	-0.000846	+/-0.018	0.0145	+/-0.0176	0.0308	pCi/g						
Thallium-208		0.115	+/-0.0363	0.0143	+/-0.0356	0.0309	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	0.0124	+/-0.0221	0.0221	+/-0.0221	0.0499	pCi/g		BXF1	03/08/06	2225	508561	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2, ALL2 (CT)</i>													
Tritium		22.3	+/-2.28	1.30	+/-2.32	2.70	pCi/g		CHS1	03/12/06	1106	508626	3
<i>Liquid Scint Fe55, Solid-HTD2, ALL2 (CT)</i>													
Iron-55	U	-1.36	+/-1.65	1.15	+/-1.65	2.32	pCi/g		SLN1	03/19/06	0122	508722	4
<i>Liquid Scint Ni63, Solid-HTD2, ALL2 (CT)</i>													
Nickel-63	U	-0.895	+/-1.37	1.17	+/-1.37	2.37	pCi/g		SLN1	03/11/06	1148	508729	5
Solid Preparation													
<i>Laboratory Composite – CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-196-C1C-03 Project: YANK01204
Sample ID: 157164041 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	AXP2	03/06/06	1624	508401
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1701	508398
GL-RAD-A-026	Laboratory sample composite				508386

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	DOE RESL Fe-1, Modified
5	DOE RESL Ni-1, Modified
6	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	77	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,Al	73	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,Al	72	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID:	3100-0000-196-C1C-04	Project:	YANK01204
Sample ID:	157164042	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	15-FEB-06		
Receive Date:	02-MAR-06		
Collector:	Client		
Moisture:	5.34%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>Gammascpec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.496	+/-0.125	0.0482	+/-0.122	0.104	pCi/g		MJH1	03/15/06	1530	509663	1
Americium-241	U	-0.0672	+/-0.113	0.0827	+/-0.111	0.172	pCi/g						
Bismuth-212		0.379	+/-0.200	0.0954	+/-0.196	0.206	pCi/g						
Bismuth-214		0.510	+/-0.081	0.0281	+/-0.0793	0.0596	pCi/g						
Cesium-134	U	0.0347	+/-0.0386	0.0185	+/-0.0379	0.0393	pCi/g						
Cesium-137	U	0.00394	+/-0.0183	0.0153	+/-0.018	0.0324	pCi/g						
Cobalt-60	U	0.0108	+/-0.0225	0.0194	+/-0.022	0.0416	pCi/g						
Europium-152	U	0.00453	+/-0.0435	0.0379	+/-0.0426	0.080	pCi/g						
Europium-154	U	-0.0267	+/-0.0536	0.0407	+/-0.0526	0.0893	pCi/g						
Europium-155	U	0.0424	+/-0.0533	0.0487	+/-0.0522	0.101	pCi/g						
Lead-212		0.400	+/-0.0513	0.0231	+/-0.0503	0.0482	pCi/g						
Lead-214		0.580	+/-0.0722	0.0261	+/-0.0708	0.0551	pCi/g						
Manganese-54	U	0.00596	+/-0.0184	0.0159	+/-0.018	0.0339	pCi/g						
Niobium-94	U	0.00852	+/-0.0174	0.0146	+/-0.017	0.031	pCi/g						
Potassium-40		8.70	+/-0.721	0.122	+/-0.707	0.272	pCi/g						
Radium-226		0.510	+/-0.081	0.0281	+/-0.0793	0.0596	pCi/g						
Silver-108m	U	0.0121	+/-0.0155	0.0139	+/-0.0152	0.0293	pCi/g						
Thallium-208		0.115	+/-0.0369	0.0157	+/-0.0361	0.0332	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	0.00978	+/-0.0195	0.0197	+/-0.0195	0.0445	pCi/g		BXFI	03/08/06	2225	508561	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium		20.6	+/-2.34	1.39	+/-2.37	2.87	pCi/g		CHSI	03/12/06	1153	508626	3
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	-2.67	+/-1.99	1.40	+/-1.99	2.83	pCi/g		SLNI	03/19/06	0327	508722	4
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	0.0548	+/-1.36	1.14	+/-1.36	2.32	pCi/g		SLNI	03/11/06	1320	508729	5
Solid Preparation													
<i>Laboratory Composite – CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-196-C1C-04 Project: YANK01204
Sample ID: 157164042 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	AXP2	03/06/06	1624	508401
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1701	508398
GL-RAD-A-026	Laboratory sample composite				508386

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	DOE RESL Fe-1, Modified
5	DOE RESL Ni-1, Modified
6	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	87	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,Al	70	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,Al	75	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-196-C3C-01
Sample ID: 157164043
Matrix: CT
Collect Date: 16-FEB-06
Receive Date: 02-MAR-06
Collector: Client
Moisture: 5.2%

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>Gammascpec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.319	+/-0.0824	0.0287	+/-0.0807	0.0602	pCi/g		MJH1	03/09/06	2305	509663	1
Americium-241	U	0.0181	+/-0.0325	0.0304	+/-0.0318	0.0623	pCi/g						
Bismuth-212		0.265	+/-0.130	0.067	+/-0.127	0.140	pCi/g						
Bismuth-214		0.282	+/-0.060	0.017	+/-0.0588	0.0352	pCi/g						
Cesium-134	UUI	0.00	+/-0.0153	0.00953	+/-0.015	0.0199	pCi/g						
Cesium-137	U	0.000322	+/-0.012	0.00869	+/-0.0117	0.0181	pCi/g						
Cobalt-60	U	0.0126	+/-0.0129	0.0083	+/-0.0127	0.0176	pCi/g						
Europium-152	U	0.00561	+/-0.0263	0.0226	+/-0.0258	0.0466	pCi/g						
Europium-154	U	-0.0183	+/-0.0286	0.023	+/-0.028	0.0488	pCi/g						
Europium-155	U	0.012	+/-0.0297	0.0252	+/-0.0291	0.0516	pCi/g						
Lead-212		0.351	+/-0.0398	0.0135	+/-0.039	0.0278	pCi/g						
Lead-214		0.376	+/-0.0581	0.0149	+/-0.0569	0.0309	pCi/g						
Manganese-54	U	-0.00489	+/-0.010	0.00835	+/-0.00983	0.0175	pCi/g						
Niobium-94	U	0.00555	+/-0.00974	0.00833	+/-0.00954	0.0173	pCi/g						
Potassium-40		7.08	+/-0.576	0.0707	+/-0.564	0.152	pCi/g						
Radium-226		0.282	+/-0.060	0.017	+/-0.0588	0.0352	pCi/g						
Silver-108m	U	-0.00787	+/-0.00863	0.00727	+/-0.00846	0.0151	pCi/g						
Thallium-208		0.107	+/-0.0226	0.00835	+/-0.0222	0.0174	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	-0.00239	+/-0.0148	0.0171	+/-0.0148	0.0379	pCi/g		BXF1	03/10/06	1052	508561	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium		17.3	+/-2.30	1.43	+/-2.32	2.97	pCi/g		CHS1	03/12/06	1240	508626	3
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	-3.27	+/-1.82	1.28	+/-1.83	2.59	pCi/g		SLN1	03/19/06	0532	508722	4
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	-0.646	+/-1.48	1.25	+/-1.48	2.55	pCi/g		SLN1	03/11/06	1452	508729	5

Solid Preparation

Laboratory Composite – CONCRETE

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-196-C3C-01 Project: YANK01204
Sample ID: 157164043 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	AXP2	03/06/06	1624	508401
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1701	508398
GL-RAD-A-026	Laboratory sample composite				508386

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	DOE RESL Fe-1, Modified
5	DOE RESL Ni-1, Modified
6	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	82	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,Al	74	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,Al	69	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID:	3100-0000-196-C5C-01	Project:	YANK01204
Sample ID:	157164044	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	16-FEB-06		
Receive Date:	02-MAR-06		
Collector:	Client		
Moisture:	5.12%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>Gammascpec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.353	+/-0.0954	0.0341	+/-0.0935	0.0724	pCi/g		MJH1	03/09/06	2326	509663	1
Americium-241	U	0.00449	+/-0.0767	0.0598	+/-0.0751	0.123	pCi/g						
Bismuth-212		0.192	+/-0.177	0.0768	+/-0.174	0.162	pCi/g						
Bismuth-214		0.388	+/-0.0579	0.0191	+/-0.0568	0.040	pCi/g						
Cesium-134	UUI	0.00	+/-0.0166	0.0129	+/-0.0163	0.027	pCi/g						
Cesium-137	U	-0.00483	+/-0.0124	0.00993	+/-0.0121	0.0209	pCi/g						
Cobalt-60	UUI	0.00	+/-0.0216	0.0136	+/-0.0211	0.0288	pCi/g						
Europium-152	U	0.014	+/-0.0321	0.0287	+/-0.0314	0.0596	pCi/g						
Europium-154	U	-0.025	+/-0.0478	0.0313	+/-0.0469	0.0669	pCi/g						
Europium-155	U	0.0222	+/-0.0389	0.0357	+/-0.0381	0.0734	pCi/g						
Lead-212		0.353	+/-0.0386	0.0176	+/-0.0378	0.0364	pCi/g						
Lead-214		0.421	+/-0.0585	0.0185	+/-0.0574	0.0386	pCi/g						
Manganese-54	U	0.00214	+/-0.0127	0.0109	+/-0.0124	0.0229	pCi/g						
Niobium-94	U	-0.015	+/-0.0116	0.00864	+/-0.0113	0.0182	pCi/g						
Potassium-40		7.61	+/-0.537	0.0856	+/-0.527	0.187	pCi/g						
Radium-226		0.388	+/-0.0579	0.0191	+/-0.0568	0.040	pCi/g						
Silver-108m	U	0.00235	+/-0.0113	0.00867	+/-0.0111	0.0182	pCi/g						
Thallium-208		0.119	+/-0.0265	0.00988	+/-0.026	0.0208	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	-0.00123	+/-0.0124	0.0142	+/-0.0124	0.0322	pCi/g		BXF1	03/10/06	1052	508561	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium		6.32	+/-1.80	1.31	+/-1.80	2.71	pCi/g		CHS1	03/12/06	1327	508626	3
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	-2.76	+/-1.73	1.21	+/-1.73	2.45	pCi/g		SLN1	03/19/06	0820	508722	4
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	-0.689	+/-1.30	1.10	+/-1.30	2.25	pCi/g		SLN1	03/11/06	1624	508729	5
Solid Preparation													
<i>Laboratory Composite – CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-196-C5C-01 Project: YANK01204
Sample ID: 157164044 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	AXP2	03/06/06	1624	508401
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1701	508398
GL-RAD-A-026	Laboratory sample composite				508386

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	DOE RESL Fe-1, Modified
5	DOE RESL Ni-1, Modified
6	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	80	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,Al	73	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,Al	78	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
- BD Results below the MDC or low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value.
- U Target analyte was analyzed for but not detected above the MDL or LOD.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
- d The 2:1 depletion requirement was not met for this sample
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID:	3100-0000-197-C1C-01	Project:	YANK01204
Sample ID:	157164045	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	15-FEB-06		
Receive Date:	02-MAR-06		
Collector:	Client		
Moisture:	6.58%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec Am241, Cm, Solid-TRU2,ALL2 (CT)</i>													
Americium-241	U	0.0164	+/-0.0255	0.00	+/-0.0256	0.028	pCi/g		BJB1	03/13/06	1027	508575	1
Curium-242	U	0.00	+/-0.0227	0.00	+/-0.0227	0.0313	pCi/g						
Curium-243/244	U	0.00787	+/-0.0209	0.0118	+/-0.0209	0.0517	pCi/g						
<i>Alphaspec Pu, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-238	U	0.00	+/-0.0124	0.00	+/-0.0124	0.0171	pCi/g		BJB1	03/11/06	0934	508578	2
Plutonium-239/240	U	-0.00151	+/-0.0127	0.00718	+/-0.0127	0.0314	pCi/g						
<i>Liquid Scint Pu241, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-241	U	0.541	+/-1.54	1.28	+/-1.54	2.62	pCi/g		BJB1	03/16/06	0925	508580	3
Rad Gamma Spec Analysis													
<i>Gammascpec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.386	+/-0.182	0.0657	+/-0.179	0.145	pCi/g		MJH1	03/10/06	2120	509663	4
Americium-241	U	-0.012	+/-0.149	0.0979	+/-0.146	0.206	pCi/g						
Bismuth-212	U	0.047	+/-0.305	0.149	+/-0.299	0.325	pCi/g						
Bismuth-214		0.428	+/-0.112	0.0332	+/-0.110	0.0721	pCi/g						
Cesium-134	U	0.0228	+/-0.0243	0.0223	+/-0.0239	0.0487	pCi/g						
Cesium-137	U	0.0132	+/-0.0235	0.0189	+/-0.0231	0.0411	pCi/g						
Cobalt-60	UUI	0.00	+/-0.0281	0.0254	+/-0.0275	0.0561	pCi/g						
Europium-152	U	-0.0409	+/-0.0556	0.0465	+/-0.0545	0.0995	pCi/g						
Europium-154	U	-0.00187	+/-0.0628	0.0521	+/-0.0615	0.119	pCi/g						
Europium-155	U	0.0372	+/-0.0601	0.0558	+/-0.0589	0.117	pCi/g						
Lead-212		0.305	+/-0.0622	0.0322	+/-0.061	0.0674	pCi/g						
Lead-214		0.532	+/-0.0978	0.0337	+/-0.0958	0.072	pCi/g						
Manganese-54	U	0.00363	+/-0.0215	0.0181	+/-0.0211	0.0399	pCi/g						
Niobium-94	U	-0.00046	+/-0.0185	0.0154	+/-0.0181	0.0338	pCi/g						
Potassium-40		6.40	+/-0.978	0.218	+/-0.958	0.489	pCi/g						
Radium-226		0.428	+/-0.112	0.0332	+/-0.110	0.0721	pCi/g						
Silver-108m	U	-0.000916	+/-0.0172	0.0149	+/-0.0168	0.0323	pCi/g						
Thallium-208		0.128	+/-0.0381	0.016	+/-0.0374	0.0351	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	7.950E-05	+/-0.0141	0.0158	+/-0.0141	0.0354	pCi/g		BXF1	03/10/06	1052	508561	5
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium		3.65	+/-1.76	1.36	+/-1.76	2.81	pCi/g		CHS1	03/12/06	1413	508626	6

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

Location : East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-197-C1C-01 Project: YANK01204
Sample ID: 157164045 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Liquid Scintillation Analysis													
<i>Liquid Scint C14, Solid-HTD2,ALL2 (CT)</i>													
Carbon-14	U	0.0988	+/-0.295	0.246	+/-0.295	0.501	pCi/g		MXPI	03/08/06	1537	508737	7
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	-1.05	+/-1.49	1.03	+/-1.49	2.08	pCi/g		SLNI	03/19/06	1025	508722	8
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	-0.232	+/-1.53	1.29	+/-1.53	2.62	pCi/g		SLNI	03/11/06	1756	508729	9
<i>Liquid Scint Tc99, Solid-HTD2,ALL2 (CT)</i>													
Technetium-99	U	0.0282	+/-0.289	0.242	+/-0.289	0.495	pCi/g		SLNI	03/13/06	2302	508572	10

Solid Preparation

Laboratory Composite – CONCRETE

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	AXP2	03/06/06	1624	508401
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1701	508398
GL-RAD-A-026	Laboratory sample composite				508386

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, Am-05-RC Modified
2	DOE EML HASL-300, Pu-11-RC Modified
3	DOE EML HASL-300, Pu-11-RC Modified
4	EML HASL 300, 4.5.2.3
5	EPA 905.0 Modified
6	EPA 906.0 Modified
7	EPA EERF C-01 Modified
8	DOE RESL Fe-1, Modified
9	DOE RESL Ni-1, Modified
10	DOE EML HASL-300, Tc-02-RC Modified
11	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Americium-243	Alphaspec Am241, Cm, Solid-TR1	54	(15%-125%)
Plutonium-242	Alphaspec Pu, Solid-TRU2,ALL2	84	(15%-125%)

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-197-C1C-01
Sample ID: 157164045
Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Carrier/Tracer Recovery		Liquid Scint Pu241, Solid-TRU2, /			79		(25%-125%)						
Carrier/Tracer Recovery		GFPC, Sr90, solid Quick TAT			82		(25%-125%)						
Carrier/Tracer Recovery		Liquid Scint Fe55, Solid-HTD2,A)			76		(15%-125%)						
Carrier/Tracer Recovery		Liquid Scint Ni63, Solid-HTD2,A)			67		(25%-125%)						
Carrier/Tracer Recovery		Liquid Scint Tc99, Solid-HTD2,A			77		(15%-125%)						

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID:	3100-0000-197-C1C-02	Project:	YANK01204
Sample ID:	157164046	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	15-FEB-06		
Receive Date:	02-MAR-06		
Collector:	Client		
Moisture:	5.82%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec Am241, Cm, Solid-TRU2,ALL2 (CT)</i>													
Americium-241	U	-0.00922	+/-0.021	0.0164	+/-0.021	0.0602	pCi/g		BJB1	03/13/06	1027	508575	1
Curium-242	U	0.0227	+/-0.0315	0.00	+/-0.0317	0.0308	pCi/g						
Curium-243/244	U	0.0204	+/-0.0282	0.00	+/-0.0284	0.0276	pCi/g						
<i>Alphaspec Pu, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-238	U	0.00	+/-0.0131	0.00	+/-0.0131	0.018	pCi/g		BJB1	03/11/06	0934	508578	2
Plutonium-239/240	U	0.00	+/-0.013	0.00	+/-0.013	0.018	pCi/g						
<i>Liquid Scint Pu241, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-241	U	1.18	+/-1.78	1.47	+/-1.78	3.00	pCi/g		BJB1	03/16/06	1027	508580	3
Rad Gamma Spec Analysis													
<i>Gammasespec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.390	+/-0.112	0.0511	+/-0.110	0.109	pCi/g		MJH1	03/11/06	1511	509663	4
Americium-241	U	0.0523	+/-0.0612	0.058	+/-0.0599	0.119	pCi/g						
Bismuth-212		0.338	+/-0.146	0.110	+/-0.143	0.233	pCi/g						
Bismuth-214		0.542	+/-0.0806	0.0253	+/-0.079	0.0533	pCi/g						
Cesium-134	U	0.0357	+/-0.033	0.0181	+/-0.0324	0.0381	pCi/g						
Cesium-137		0.0307	+/-0.0216	0.0115	+/-0.0212	0.0246	pCi/g						
Cobalt-60		0.179	+/-0.0339	0.012	+/-0.0332	0.0267	pCi/g						
Europium-152	U	-0.00146	+/-0.041	0.0354	+/-0.0402	0.0739	pCi/g						
Europium-154	U	-0.0138	+/-0.0519	0.0421	+/-0.0509	0.0913	pCi/g						
Europium-155	U	0.00292	+/-0.0426	0.0379	+/-0.0417	0.0783	pCi/g						
Lead-212		0.453	+/-0.0609	0.0205	+/-0.0597	0.0425	pCi/g						
Lead-214		0.549	+/-0.0808	0.0244	+/-0.0792	0.051	pCi/g						
Manganese-54	U	0.0142	+/-0.0249	0.0139	+/-0.0244	0.0295	pCi/g						
Niobium-94	U	-0.00921	+/-0.0154	0.0125	+/-0.015	0.0265	pCi/g						
Potassium-40		7.86	+/-0.809	0.129	+/-0.793	0.283	pCi/g						
Radium-226		0.542	+/-0.0806	0.0253	+/-0.079	0.0533	pCi/g						
Silver-108m	U	-0.00075	+/-0.014	0.0118	+/-0.0137	0.0248	pCi/g						
Thallium-208		0.140	+/-0.0382	0.0136	+/-0.0375	0.0288	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	-0.00136	+/-0.0148	0.0169	+/-0.0148	0.0379	pCi/g		BXF1	03/08/06	2225	508561	5
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium		3.01	+/-1.83	1.44	+/-1.83	2.97	pCi/g		CHSI	03/12/06	1500	508626	6

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 -- (843) 556-8171 -- www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-197-C1C-02
Sample ID: 157164046
Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Carrier/Tracer Recovery		Liquid Scint Pu241, Solid-TRU2,4			67		(25%-125%)						
Carrier/Tracer Recovery		GFPC, Sr90, solid Quick TAT			105		(25%-125%)						
Carrier/Tracer Recovery		Liquid Scint Fe55, Solid-HTD2,AI			72		(15%-125%)						
Carrier/Tracer Recovery		Liquid Scint Ni63, Solid-HTD2,AI			75		(25%-125%)						
Carrier/Tracer Recovery		Liquid Scint Tc99, Solid-HTD2,AI			79		(15%-125%)						

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier--please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-197-C1C-03
Sample ID: 157164047
Matrix: CT
Collect Date: 15-FEB-06
Receive Date: 02-MAR-06
Collector: Client
Moisture: 5.05%

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>Gammascpec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228	UUI	0.00	+/-0.138	0.0799	+/-0.135	0.164	pCi/g		MJH1	03/10/06	2328	509663	1
Americium-241	U	-0.0162	+/-0.0238	0.0211	+/-0.0233	0.0428	pCi/g						
Bismuth-212		0.373	+/-0.208	0.112	+/-0.203	0.232	pCi/g						
Bismuth-214		0.686	+/-0.0834	0.0282	+/-0.0817	0.0581	pCi/g						
Cesium-134	U	0.00327	+/-0.0233	0.0171	+/-0.0228	0.0354	pCi/g						
Cesium-137	U	0.0151	+/-0.0396	0.0155	+/-0.0388	0.032	pCi/g						
Cobalt-60	U	0.0147	+/-0.0181	0.0158	+/-0.0177	0.0332	pCi/g						
Europium-152	U	-0.0319	+/-0.0434	0.0362	+/-0.0425	0.0745	pCi/g						
Europium-154	U	-0.0325	+/-0.0561	0.0455	+/-0.055	0.0953	pCi/g						
Europium-155	U	0.0268	+/-0.0396	0.0349	+/-0.0388	0.0711	pCi/g						
Lead-212		0.413	+/-0.042	0.0204	+/-0.0411	0.0417	pCi/g						
Lead-214		0.769	+/-0.0811	0.0264	+/-0.0795	0.0543	pCi/g						
Manganese-54	U	-0.00472	+/-0.0221	0.0157	+/-0.0216	0.0326	pCi/g						
Niobium-94	U	0.00159	+/-0.0165	0.0141	+/-0.0162	0.0291	pCi/g						
Potassium-40		7.35	+/-0.632	0.134	+/-0.619	0.283	pCi/g						
Radium-226		0.686	+/-0.0834	0.0282	+/-0.0817	0.0581	pCi/g						
Silver-108m	U	-0.00871	+/-0.0152	0.0125	+/-0.0149	0.0257	pCi/g						
Thallium-208		0.0987	+/-0.0371	0.0153	+/-0.0364	0.0316	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	-0.00569	+/-0.0129	0.0158	+/-0.0129	0.0356	pCi/g		BXFI	03/09/06	1036	508561	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium		3.32	+/-1.80	1.40	+/-1.80	2.90	pCi/g		CHS1	03/12/06	1547	508626	3
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	-4.14	+/-3.04	2.18	+/-3.04	4.42	pCi/g		SLN1	03/15/06	1428	508722	4
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	-0.362	+/-1.37	1.16	+/-1.37	2.36	pCi/g		SLN1	03/11/06	2101	508729	6

Solid Preparation

Laboratory Composite – CONCRETE

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-197-C1C-03
Sample ID: 157164047
Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	AXP2	03/06/06	1624	508401
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1701	508398
GL-RAD-A-026	Laboratory sample composite				508386

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	DOE RESL Fe-1, Modified
5	DOE RESL Fe-1, Modified
6	DOE RESL Ni-1, Modified
7	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	92	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,A)	74	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,A)	69	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-197-C1C-04
Sample ID: 157164048
Matrix: CT
Collect Date: 15-FEB-06
Receive Date: 02-MAR-06
Collector: Client
Moisture: 5.39%

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>Gammascpec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.603	+/-0.0891	0.0287	+/-0.0874	0.0596	pCi/g		MJH1	03/10/06	2328	509663	1
Americium-241	U	-0.0291	+/-0.0629	0.0536	+/-0.0617	0.109	pCi/g						
Bismuth-212		0.448	+/-0.157	0.0615	+/-0.154	0.128	pCi/g						
Bismuth-214		1.19	+/-0.0583	0.0159	+/-0.0572	0.0329	pCi/g						
Cesium-134	U	0.0122	+/-0.0184	0.0103	+/-0.0181	0.0212	pCi/g						
Cesium-137	U	0.0146	+/-0.0131	0.00937	+/-0.0128	0.0193	pCi/g						
Cobalt-60		0.0791	+/-0.0237	0.00783	+/-0.0232	0.0165	pCi/g						
Europium-152	U	0.0186	+/-0.0263	0.0239	+/-0.0258	0.049	pCi/g						
Europium-154	U	-0.00165	+/-0.0366	0.0256	+/-0.0358	0.0536	pCi/g						
Europium-155	U	0.0115	+/-0.0445	0.0289	+/-0.0436	0.059	pCi/g						
Lead-212		0.623	+/-0.0351	0.0147	+/-0.0344	0.030	pCi/g						
Lead-214		1.42	+/-0.061	0.0156	+/-0.0598	0.0322	pCi/g						
Manganese-54	U	-0.00897	+/-0.0103	0.00854	+/-0.0101	0.0177	pCi/g						
Niobium-94	U	0.00193	+/-0.00816	0.00766	+/-0.008	0.0158	pCi/g						
Potassium-40		7.77	+/-0.374	0.0705	+/-0.366	0.150	pCi/g						
Radium-226		1.19	+/-0.0583	0.0159	+/-0.0572	0.0329	pCi/g						
Silver-108m	U	0.00618	+/-0.00886	0.00788	+/-0.00868	0.0162	pCi/g						
Thallium-208		0.201	+/-0.0249	0.00826	+/-0.0244	0.0171	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	-0.00585	+/-0.0147	0.0177	+/-0.0147	0.0396	pCi/g		BXFI	03/09/06	1036	508561	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium	U	2.06	+/-1.67	1.34	+/-1.67	2.77	pCi/g		CHSI	03/12/06	1634	508626	3
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	-0.946	+/-1.86	1.29	+/-1.86	2.60	pCi/g		SLNI	03/19/06	1637	508722	4
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	-0.857	+/-1.45	1.23	+/-1.45	2.51	pCi/g		SLNI	03/11/06	2233	508729	5

Solid Preparation

Laboratory Composite – CONCRETE

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

 : East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-197-C1C-04 Project: YANK01204
Sample ID: 157164048 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	AXP2	03/06/06	1624	508401
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1701	508398
GL-RAD-A-026	Laboratory sample composite				508386

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	DOE RESL Fe-1, Modified
5	DOE RESL Ni-1, Modified
6	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	89	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,AI	75	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,AI	70	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID:	3100-0000-197-C3C-01	Project:	YANK01204
Sample ID:	157164049	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	15-FEB-06		
Receive Date:	02-MAR-06		
Collector:	Client		
Moisture:	4.95%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>Gammascpec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.290	+/-0.0731	0.0265	+/-0.0716	0.0551	pCi/g		MJH1	03/10/06	2329	509663	1
Americium-241	U	-0.00634	+/-0.0326	0.0292	+/-0.0319	0.0596	pCi/g						
Bismuth-212		0.251	+/-0.134	0.0565	+/-0.132	0.117	pCi/g						
Bismuth-214		0.642	+/-0.0777	0.015	+/-0.0762	0.0309	pCi/g						
Cesium-134	U	0.0126	+/-0.0106	0.00941	+/-0.0104	0.0195	pCi/g						
Cesium-137	U	0.00601	+/-0.0103	0.00767	+/-0.0101	0.0159	pCi/g						
Cobalt-60	U	0.00221	+/-0.0096	0.00814	+/-0.00941	0.0171	pCi/g						
Europium-152	U	-0.0171	+/-0.0261	0.0214	+/-0.0256	0.044	pCi/g						
Europium-154	U	-0.0191	+/-0.0304	0.0247	+/-0.0298	0.0516	pCi/g						
Europium-155	UUI	0.00	+/-0.036	0.0223	+/-0.0353	0.0455	pCi/g						
Lead-212		0.324	+/-0.0367	0.0124	+/-0.0359	0.0254	pCi/g						
Lead-214		0.753	+/-0.0786	0.0152	+/-0.077	0.0312	pCi/g						
Manganese-54	U	-0.00852	+/-0.00983	0.00801	+/-0.00964	0.0166	pCi/g						
Niobium-94	U	0.0122	+/-0.0148	0.00778	+/-0.0145	0.0161	pCi/g						
Potassium-40		7.40	+/-0.586	0.0736	+/-0.575	0.155	pCi/g						
Radium-226		0.642	+/-0.0777	0.015	+/-0.0762	0.0309	pCi/g						
Silver-108m	U	0.000401	+/-0.008	0.00695	+/-0.00784	0.0143	pCi/g						
Thallium-208		0.0821	+/-0.0209	0.00792	+/-0.0204	0.0164	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	-0.00841	+/-0.0152	0.0192	+/-0.0152	0.0435	pCi/g		BXF1	03/09/06	1036	508561	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium	U	1.55	+/-1.70	1.37	+/-1.70	2.84	pCi/g		CHS1	03/12/06	1721	508626	3
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	-1.71	+/-1.83	1.27	+/-1.83	2.57	pCi/g		SLN1	03/19/06	1841	508722	4
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	0.0656	+/-1.63	1.37	+/-1.63	2.78	pCi/g		SLN1	03/12/06	0005	508729	5
Solid Preparation													
<i>Laboratory Composite – CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-197-C3C-01
Sample ID: 157164049
Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	AXP2	03/06/06	1624	508401
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1701	508398
GL-RAD-A-026	Laboratory sample composite				508386

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	DOE RESL Fe-1, Modified
5	DOE RESL Ni-1, Modified
6	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	70	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,Al	76	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,Al	63	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID:	3100-0000-197-C4C-01	Project:	YANK01204
Sample ID:	157164050	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	15-FEB-06		
Receive Date:	02-MAR-06		
Collector:	Client		
Moisture:	5.39%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>Gammascpec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228	U	0.124	+/-0.123	0.111	+/-0.120	0.237	pCi/g		MJH1	03/11/06	1533	509663	1
Americium-241	U	-0.034	+/-0.0421	0.0359	+/-0.0412	0.074	pCi/g						
Bismuth-212	U	-0.04	+/-0.268	0.189	+/-0.262	0.409	pCi/g						
Bismuth-214		0.193	+/-0.120	0.0843	+/-0.117	0.175	pCi/g						
Cesium-134	U	0.00823	+/-0.0304	0.0262	+/-0.0298	0.057	pCi/g						
Cesium-137	U	0.014	+/-0.0281	0.0249	+/-0.0275	0.0536	pCi/g						
Cobalt-60	U	0.0292	+/-0.0279	0.026	+/-0.0273	0.0579	pCi/g						
Europium-152	U	-0.0941	+/-0.0969	0.0662	+/-0.095	0.139	pCi/g						
Europium-154	U	0.0543	+/-0.0784	0.0709	+/-0.0768	0.158	pCi/g						
Europium-155	U	-0.072	+/-0.0731	0.0604	+/-0.0716	0.125	pCi/g						
Lead-212		0.471	+/-0.135	0.0372	+/-0.132	0.0775	pCi/g						
Lead-214		0.525	+/-0.132	0.0449	+/-0.129	0.0947	pCi/g						
Manganese-54	U	-0.000269	+/-0.0275	0.023	+/-0.027	0.0503	pCi/g						
Niobium-94	U	0.013	+/-0.0284	0.0219	+/-0.0278	0.0473	pCi/g						
Potassium-40		3.10	+/-0.859	0.185	+/-0.842	0.429	pCi/g						
Radium-226		0.193	+/-0.120	0.0441	+/-0.117	0.0947	pCi/g						
Silver-108m	U	0.00688	+/-0.0248	0.0218	+/-0.0243	0.0464	pCi/g						
Thallium-208		0.189	+/-0.0665	0.0386	+/-0.0652	0.0808	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	0.000429	+/-0.0156	0.0174	+/-0.0156	0.0386	pCi/g		BXFI	03/09/06	1036	508561	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium	U	1.07	+/-1.64	1.34	+/-1.64	2.77	pCi/g		CHSI	03/12/06	1808	508626	3
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	-1.66	+/-1.64	1.14	+/-1.64	2.31	pCi/g		SLNI	03/19/06	2045	508722	4
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	-1.8	+/-1.42	1.22	+/-1.42	2.49	pCi/g		SLNI	03/12/06	0137	508729	5
Solid Preparation													
<i>Laboratory Composite – CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-197-C4C-01 Project: YANK01204
Sample ID: 157164050 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	AXP2	03/06/06	1624	508401
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1701	508398
GL-RAD-A-026	Laboratory sample composite				508386

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	DOE RESL Fe-1, Modified
5	DOE RESL Ni-1, Modified
6	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	96	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,A)	76	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,A)	64	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.geel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID:	3100-0000-200-C1C-01	Project:	YANK01204
Sample ID:	157164051	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	11-FEB-06		
Receive Date:	02-MAR-06		
Collector:	Client		
Moisture:	7.88%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec Am241, Cm, Solid-TRU2,ALL2 (CT)</i>													
Americium-241	U	-0.00126	+/-0.00714	0.0095	+/-0.00714	0.035	pCi/g		BJB1	03/10/06	1127	508575	1
Curium-242	U	0.00663	+/-0.013	0.00	+/-0.013	0.018	pCi/g						
Curium-243/244	U	0.00	+/-0.0116	0.00	+/-0.0116	0.016	pCi/g						
<i>Alphaspec Pu, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-238	U	0.00	+/-0.0121	0.00	+/-0.0121	0.0167	pCi/g		BJB1	03/11/06	0934	508578	2
Plutonium-239/240	U	-0.0187	+/-0.0216	0.0322	+/-0.0217	0.081	pCi/g						
<i>Liquid Scint Pu241, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-241	U	-0.391	+/-1.68	1.42	+/-1.68	2.90	pCi/g		BJB1	03/16/06	1130	508580	3
Rad Gamma Spec Analysis													
<i>Gammasespec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.367	+/-0.255	0.0922	+/-0.250	0.201	pCi/g		MJH1	03/16/06	1041	509663	4
Americium-241	U	-0.00617	+/-0.0346	0.0316	+/-0.034	0.0657	pCi/g						
Bismuth-212	U	0.416	+/-0.390	0.207	+/-0.382	0.448	pCi/g						
Bismuth-214		0.627	+/-0.137	0.0439	+/-0.134	0.0948	pCi/g						
Cesium-134	U	0.0243	+/-0.0335	0.0298	+/-0.0328	0.0646	pCi/g						
Cesium-137	U	0.00283	+/-0.0311	0.0263	+/-0.0305	0.0567	pCi/g						
Cobalt-60	U	0.0428	+/-0.039	0.0313	+/-0.0382	0.0692	pCi/g						
Europium-152	U	0.0184	+/-0.0767	0.0611	+/-0.0752	0.130	pCi/g						
Europium-154	U	0.0206	+/-0.0811	0.0702	+/-0.0795	0.158	pCi/g						
Europium-155	U	0.0253	+/-0.061	0.0554	+/-0.0598	0.115	pCi/g						
Lead-212		0.464	+/-0.073	0.0304	+/-0.0715	0.0642	pCi/g						
Lead-214		0.742	+/-0.138	0.0394	+/-0.136	0.084	pCi/g						
Manganese-54	U	0.033	+/-0.0313	0.0287	+/-0.0307	0.062	pCi/g						
Niobium-94	U	-0.0129	+/-0.0271	0.0214	+/-0.0265	0.0464	pCi/g						
Potassium-40		7.10	+/-1.01	0.223	+/-0.994	0.512	pCi/g						
Radium-226		0.627	+/-0.137	0.0439	+/-0.134	0.0948	pCi/g						
Silver-108m	U	-0.00505	+/-0.0223	0.019	+/-0.0219	0.0409	pCi/g						
Thallium-208		0.163	+/-0.056	0.025	+/-0.0548	0.0538	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	-0.00191	+/-0.0133	0.0154	+/-0.0133	0.0344	pCi/g		BXF1	03/09/06	1036	508561	5
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium	U	2.00	+/-1.72	1.37	+/-1.72	2.84	pCi/g		CHS1	03/12/06	1855	508626	6

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-200-C1C-01 Project: YANK01204
Sample ID: 157164051 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Liquid Scintillation Analysis													
<i>Liquid Scint C14, Solid-HTD2,ALL2 (CT)</i>													
Carbon-14	U	0.0249	+/-0.310	0.259	+/-0.310	0.529	pCi/g		MXPI	03/08/06	1743	508737	7
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	-1.08	+/-1.92	1.33	+/-1.92	2.70	pCi/g		SLNI	03/19/06	2250	508722	8
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	-0.635	+/-1.49	1.26	+/-1.49	2.56	pCi/g		SLNI	03/12/06	0309	508729	9
<i>Liquid Scint Tc99, Solid-HTD2,ALL2 (CT)</i>													
Technetium-99	U	0.0395	+/-0.282	0.236	+/-0.282	0.483	pCi/g		SLNI	03/14/06	0006	508572	10

Solid Preparation

Laboratory Composite – CONCRETE

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	AXP2	03/06/06	1624	508401
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1701	508398
GL-RAD-A-026	Laboratory sample composite				508386

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, Am-05-RC Modified
2	DOE EML HASL-300, Pu-11-RC Modified
3	DOE EML HASL-300, Pu-11-RC Modified
4	EML HASL 300, 4.5.2.3
5	EPA 905.0 Modified
6	EPA 906.0 Modified
7	EPA EERF C-01 Modified
8	DOE RESL Fe-1, Modified
9	DOE RESL Ni-1, Modified
10	DOE EML HASL-300, Tc-02-RC Modified
11	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Americium-243	Alphaspec Am241, Cm, Solid-TR1	87	(15%-125%)
Plutonium-242	Alphaspec Pu, Solid-TRU2.ALL2	82	(15%-125%)

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-200-C1C-01
Sample ID: 157164051
Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Carrier/Tracer Recovery		Liquid Scint Pu241, Solid-TRU2,4			72		(25%-125%)						
Carrier/Tracer Recovery		GFPC, Sr90, solid Quick TAT			99		(25%-125%)						
Carrier/Tracer Recovery		Liquid Scint Fe55, Solid-HTD2,A			71		(15%-125%)						
Carrier/Tracer Recovery		Liquid Scint Ni63, Solid-HTD2,A			69		(25%-125%)						
Carrier/Tracer Recovery		Liquid Scint Tc99, Solid-HTD2,A			84		(15%-125%)						

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.geel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID:	3100-0000-200-C1C-02	Project:	YANK01204
Sample ID:	157164052	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	11-FEB-06		
Receive Date:	02-MAR-06		
Collector:	Client		
Moisture:	6.9%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec Am241, Cm, Solid-TRU2,ALL2 (CT)</i>													
Americium-241	U	0.000888	+/-0.0234	0.0244	+/-0.0234	0.0649	pCi/g		BJB1	03/10/06	1148	508575	1
Curium-242	U	0.00855	+/-0.0193	0.0132	+/-0.0193	0.0445	pCi/g						
Curium-243/244	U	0.0203	+/-0.0327	0.0263	+/-0.0328	0.0687	pCi/g						
<i>Alphaspec Pu, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-238	U	0.00515	+/-0.0137	0.00772	+/-0.0137	0.0338	pCi/g		BJB1	03/11/06	0934	508578	2
Plutonium-239/240	U	0.00866	+/-0.0196	0.0134	+/-0.0196	0.045	pCi/g						
<i>Liquid Scint Pu241, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-241	U	0.906	+/-1.66	1.38	+/-1.67	2.81	pCi/g		BJB1	03/16/06	1232	508580	3
Rad Gamma Spec Analysis													
<i>Gammaspect, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.464	+/-0.151	0.0587	+/-0.148	0.132	pCi/g		MJH1	03/11/06	1914	509663	4
Americium-241	U	-0.0169	+/-0.0926	0.0831	+/-0.0908	0.174	pCi/g						
Bismuth-212		0.289	+/-0.248	0.128	+/-0.243	0.285	pCi/g						
Bismuth-214		0.477	+/-0.107	0.0412	+/-0.105	0.0884	pCi/g						
Cesium-134	U	0.0035	+/-0.0263	0.0223	+/-0.0257	0.0488	pCi/g						
Cesium-137	U	0.014	+/-0.0255	0.0228	+/-0.025	0.0491	pCi/g						
Cobalt-60	U	0.00315	+/-0.0259	0.0219	+/-0.0254	0.0494	pCi/g						
Europium-152	U	-0.0468	+/-0.0626	0.0502	+/-0.0614	0.107	pCi/g						
Europium-154	U	-0.032	+/-0.0787	0.0613	+/-0.0771	0.138	pCi/g						
Europium-155	U	0.0361	+/-0.0655	0.0589	+/-0.0642	0.123	pCi/g						
Lead-212		0.433	+/-0.0742	0.0298	+/-0.0727	0.0627	pCi/g						
Lead-214		0.559	+/-0.111	0.0378	+/-0.109	0.0805	pCi/g						
Manganese-54	U	-0.0199	+/-0.0226	0.0164	+/-0.0221	0.0367	pCi/g						
Niobium-94	U	0.0083	+/-0.0238	0.0208	+/-0.0233	0.0447	pCi/g						
Potassium-40		8.38	+/-1.04	0.093	+/-1.02	0.243	pCi/g						
Radium-226		0.477	+/-0.107	0.0412	+/-0.105	0.0884	pCi/g						
Silver-108m	U	-0.0102	+/-0.0203	0.0161	+/-0.0199	0.0348	pCi/g						
Thallium-208		0.114	+/-0.0494	0.020	+/-0.0484	0.0434	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	0.0084	+/-0.0196	0.0202	+/-0.0196	0.0453	pCi/g		BXF1	03/09/06	1036	508561	5
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium	U	0.898	+/-1.61	1.32	+/-1.61	2.74	pCi/g		CHS1	03/12/06	1942	508626	6

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-200-C1C-02 Project: YANK01204
Sample ID: 157164052 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Liquid Scintillation Analysis													
<i>Liquid Scint C14, Solid-HTD2,ALL2 (CT)</i>													
Carbon-14	U	0.0725	+/-0.276	0.230	+/-0.276	0.470	pCi/g		MXP1	03/08/06	1845	508737	7
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	1.88	+/-2.16	1.47	+/-2.16	2.97	pCi/g		SLN1	03/22/06	1016	508722	8
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	-0.514	+/-1.41	1.19	+/-1.41	2.42	pCi/g		SLN1	03/12/06	0525	508729	9
<i>Liquid Scint Tc99, Solid-HTD2,ALL2 (CT)</i>													
Technetium-99	U	-0.211	+/-0.316	0.270	+/-0.316	0.552	pCi/g		SLN1	03/14/06	0038	508572	10

Solid Preparation

Laboratory Composite – CONCRETE

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	AXP2	03/06/06	1624	508401
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1701	508398
GL-RAD-A-026	Laboratory sample composite				508386

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, Am-05-RC Modified
2	DOE EML HASL-300, Pu-11-RC Modified
3	DOE EML HASL-300, Pu-11-RC Modified
4	EML HASL 300, 4.5.2.3
5	EPA 905.0 Modified
6	EPA 906.0 Modified
7	EPA EERF C-01 Modified
8	DOE RESL Fe-1, Modified
9	DOE RESL Ni-1, Modified
10	DOE EML HASL-300, Tc-02-RC Modified
11	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Americium-243	Alphaspec Am241, Cm, Solid-TR1	99	(15%-125%)
Plutonium-242	Alphaspec Pu, Solid-TRU2,ALL2	77	(15%-125%)

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-200-C1C-02
Sample ID: 157164052
Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Carrier/Tracer Recovery		Liquid Scint Pu241, Solid-TRU2, /			74		(25%-125%)						
Carrier/Tracer Recovery		.GFPC, Sr90, solid Quick TAT			75		(25%-125%)						
Carrier/Tracer Recovery		Liquid Scint Fe55, Solid-HTD2, A/			78		(15%-125%)						
Carrier/Tracer Recovery		Liquid Scint Ni63, Solid-HTD2, A/			71		(25%-125%)						
Carrier/Tracer Recovery		Liquid Scint Tc99, Solid-HTD2, A/			72		(15%-125%)						

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.geel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID:	3100-0000-200-C1C-03	Project:	YANK01204
Sample ID:	157164053	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	11-FEB-06		
Receive Date:	02-MAR-06		
Collector:	Client		
Moisture:	7.57%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>Gammascpec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.386	+/-0.0793	0.0293	+/-0.0778	0.0619	pCi/g		MJH1	03/12/06	2338	509663	1
Americium-241	U	-0.0326	+/-0.0692	0.0539	+/-0.0679	0.111	pCi/g						
Bismuth-212		0.285	+/-0.166	0.0684	+/-0.163	0.143	pCi/g						
Bismuth-214		0.533	+/-0.060	0.0174	+/-0.0588	0.0362	pCi/g						
Cesium-134	U	0.0162	+/-0.0201	0.0114	+/-0.0197	0.0237	pCi/g						
Cesium-137	UU1	0.00	+/-0.0236	0.00877	+/-0.0231	0.0183	pCi/g						
Cobalt-60		0.0504	+/-0.0219	0.00911	+/-0.0215	0.0194	pCi/g						
Europium-152	U	-0.0136	+/-0.0284	0.0248	+/-0.0278	0.0513	pCi/g						
Europium-154	U	-0.0255	+/-0.0391	0.0255	+/-0.0383	0.0543	pCi/g						
Europium-155	U	0.0411	+/-0.0458	0.0307	+/-0.0449	0.063	pCi/g						
Lead-212		0.487	+/-0.0346	0.0147	+/-0.0339	0.0303	pCi/g						
Lead-214		0.573	+/-0.0538	0.0171	+/-0.0528	0.0355	pCi/g						
Manganese-54	U	0.00905	+/-0.0112	0.010	+/-0.011	0.021	pCi/g						
Niobium-94	U	0.00355	+/-0.00985	0.00831	+/-0.00966	0.0173	pCi/g						
Potassium-40		8.82	+/-0.456	0.0745	+/-0.447	0.161	pCi/g						
Radium-226		0.533	+/-0.060	0.0174	+/-0.0588	0.0362	pCi/g						
Silver-108m	U	-0.00859	+/-0.00898	0.00744	+/-0.0088	0.0155	pCi/g						
Thallium-208		0.129	+/-0.0249	0.00914	+/-0.0244	0.019	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	0.0123	+/-0.0389	0.0412	+/-0.0389	0.0917	pCi/g		BXF1	03/09/06	1037	508561	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium	U	1.52	+/-1.73	1.40	+/-1.73	2.90	pCi/g		CHS1	03/12/06	2028	508626	3
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	1.05	+/-1.91	1.32	+/-1.92	2.68	pCi/g		SLN1	03/25/06	2203	508722	4
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	-0.52	+/-1.90	1.60	+/-1.90	3.27	pCi/g		SLN1	03/12/06	0657	508729	5
Solid Preparation													
<i>Laboratory Composite – CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-200-C1C-03
Sample ID: 157164053

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	AXP2	03/06/06	1624	508401
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1701	508398
GL-RAD-A-026	Laboratory sample composite				508386

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	DOE RESL Fe-1, Modified
5	DOE RESL Ni-1, Modified
6	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	39	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,Al	72	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,Al	54	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
- BD Results below the MDC or low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value.
- U Target analyte was analyzed for but not detected above the MDL or LOD.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
- d The 2:1 depletion requirement was not met for this sample
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID:	3100-0000-200-C1C-04	Project:	YANK01204
Sample ID:	157164054	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	11-FEB-06		
Receive Date:	02-MAR-06		
Collector:	Client		
Moisture:	7.6%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>GammaSpec, Gamma, GAM2, ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.492	+/-0.121	0.0429	+/-0.119	0.0912	pCi/g		MJH1	03/14/06	1034	509663	1
Americium-241	U	0.0103	+/-0.0523	0.0443	+/-0.0513	0.0916	pCi/g						
Bismuth-212		0.314	+/-0.226	0.0886	+/-0.221	0.188	pCi/g						
Bismuth-214		0.460	+/-0.0772	0.026	+/-0.0756	0.0543	pCi/g						
Cesium-134	U	0.0151	+/-0.0199	0.0166	+/-0.0195	0.0348	pCi/g						
Cesium-137	UUI	0.00	+/-0.0268	0.0118	+/-0.0262	0.025	pCi/g						
Cobalt-60		0.141	+/-0.0367	0.0129	+/-0.036	0.0279	pCi/g						
Europium-152	U	0.013	+/-0.0434	0.0332	+/-0.0425	0.0693	pCi/g						
Europium-154	U	-0.0179	+/-0.0456	0.0374	+/-0.0447	0.0801	pCi/g						
Europium-155	U	-0.000537	+/-0.0434	0.0387	+/-0.0425	0.0798	pCi/g						
Lead-212		0.475	+/-0.056	0.0193	+/-0.0549	0.040	pCi/g						
Lead-214		0.549	+/-0.0757	0.0228	+/-0.0742	0.0477	pCi/g						
Manganese-54	U	0.00737	+/-0.015	0.0133	+/-0.0147	0.0281	pCi/g						
Niobium-94	U	0.00861	+/-0.0136	0.0119	+/-0.0134	0.025	pCi/g						
Potassium-40		7.30	+/-0.712	0.098	+/-0.698	0.216	pCi/g						
Radium-226		0.460	+/-0.0772	0.026	+/-0.0756	0.0543	pCi/g						
Silver-108m	U	-0.000851	+/-0.0127	0.0112	+/-0.0124	0.0234	pCi/g						
Thallium-208		0.157	+/-0.0339	0.0121	+/-0.0332	0.0255	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	-0.0137	+/-0.0116	0.0162	+/-0.0116	0.0363	pCi/g		BXF1	03/09/06	1037	508561	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2, ALL2 (CT)</i>													
Tritium	U	0.198	+/-1.61	1.35	+/-1.61	2.78	pCi/g		CHS1	03/12/06	2115	508626	3
<i>Liquid Scint Fe55, Solid-HTD2, ALL2 (CT)</i>													
Iron-55	U	1.48	+/-1.87	1.27	+/-1.87	2.57	pCi/g		SLN1	03/22/06	1356	508722	4
<i>Liquid Scint Ni63, Solid-HTD2, ALL2 (CT)</i>													
Nickel-63	U	-1.56	+/-1.31	1.13	+/-1.31	2.30	pCi/g		SLN1	03/12/06	0829	508729	5
Solid Preparation													
<i>Laboratory Composite – CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 -- (843) 556-8171 -- www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-200-C1C-04
Sample ID: 157164054
Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	AXP2	03/06/06	1624	508401
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1701	508398
GL-RAD-A-026	Laboratory sample composite				508386

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	DOE RESL Fe-1, Modified
5	DOE RESL Ni-1, Modified
6	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	100	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,AI	75	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,AI	76	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier--please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

: Report Date: March 27, 2006

Client Sample ID: 3100-0000-200-RB
Sample ID: 157164055
Matrix: ME
Collect Date: 13-FEB-06
Receive Date: 02-MAR-06
Collector: Client
Moisture: 0%

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec Am241, Cm, Solid-TRU2,ALL2 (CT)</i>													
Americium-241	U	0.0108	+/-0.0178	0.00	+/-0.0179	0.0208	pCi/g	DDR1	03/12/06	0811	509106	1	
Curium-242	U	-0.00207	+/-0.0174	0.00984	+/-0.0174	0.0431	pCi/g						
Curium-243/244	U	-0.0037	+/-0.0159	0.0124	+/-0.016	0.0457	pCi/g						
<i>Alphaspec Pu, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-238	U	0.0143	+/-0.0284	0.0221	+/-0.0284	0.0628	pCi/g	DDR1	03/10/06	2313	509107	2	
Plutonium-239/240	U	0.000548	+/-0.0211	0.0221	+/-0.0211	0.0628	pCi/g						
<i>Liquid Scint Pu241, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-241	U	-0.629	+/-1.87	1.58	+/-1.87	3.21	pCi/g	DDR1	03/17/06	0940	509108	3	
Rad Gamma Spec Analysis													
<i>Gammastec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228	U	0.0521	+/-0.0426	0.0515	+/-0.0418	0.118	pCi/g	MJH1	03/14/06	1502	509629	4	
Americium-241	U	0.0247	+/-0.0569	0.0686	+/-0.0558	0.156	pCi/g						
Bismuth-212	U	-0.0157	+/-0.0758	0.0696	+/-0.0743	0.170	pCi/g						
Bismuth-214	U	0.0395	+/-0.0312	0.0337	+/-0.0305	0.0741	pCi/g						
Cesium-134	U	0.00739	+/-0.00983	0.0114	+/-0.00963	0.0274	pCi/g						
Cesium-137	U	0.00142	+/-0.0106	0.0109	+/-0.0104	0.0256	pCi/g						
Cobalt-60	U	0.00152	+/-0.0143	0.0118	+/-0.014	0.0292	pCi/g						
Europium-152	U	-0.00559	+/-0.0264	0.0226	+/-0.0259	0.0536	pCi/g						
Europium-154	U	-0.00309	+/-0.020	0.0136	+/-0.0196	0.0425	pCi/g						
Europium-155	U	0.0203	+/-0.0317	0.0418	+/-0.0311	0.0916	pCi/g						
Lead-212	U	0.0124	+/-0.0169	0.0204	+/-0.0165	0.0449	pCi/g						
Lead-214	U	0.00141	+/-0.0219	0.0229	+/-0.0215	0.0517	pCi/g						
Manganese-54	U	0.0108	+/-0.0102	0.0122	+/-0.010	0.0287	pCi/g						
Niobium-94	U	-0.00126	+/-0.00849	0.008	+/-0.00832	0.0194	pCi/g						
Potassium-40	U	0.108	+/-0.130	0.142	+/-0.128	0.339	pCi/g						
Radium-226	U	0.0395	+/-0.0312	0.0337	+/-0.0305	0.0741	pCi/g						
Silver-108m	U	-0.000544	+/-0.00853	0.00901	+/-0.00836	0.0211	pCi/g						
Thallium-208	U	0.00332	+/-0.0105	0.0111	+/-0.0103	0.0259	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	-0.00484	+/-0.0269	0.0309	+/-0.0269	0.0666	pCi/g	BXF1	03/08/06	2028	508565	5	
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium	U	-0.0658	+/-0.797	0.671	+/-0.797	1.39	pCi/g	MXP1	03/13/06	0834	510672	6	

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-200-RB
Sample ID: 157164055

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Liquid Scintillation Analysis													
<i>Liquid Scint C14, Solid-HTD2,ALL2 (CT)</i>													
Carbon-14	U	-0.394	+/-0.361	0.312	+/-0.361	0.639	pCi/g		MXPI	03/08/06	1607	508644	8
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	1.60	+/-1.85	1.25	+/-1.85	2.54	pCi/g		SLNI	03/18/06	1114	508720	9
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	1.12	+/-1.77	1.46	+/-1.77	2.99	pCi/g		SLNI	03/10/06	1809	508726	10
<i>Liquid Scint Tc99, Solid-HTD2,ALL2 (CT)</i>													
Technetium-99	U	-0.0872	+/-0.230	0.196	+/-0.230	0.405	pCi/g		SLNI	03/13/06	2025	508676	11

Solid Preparation

Laboratory Composite – leach

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
GL-RAD-A-026	Laboratory sample composite				508386

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, Am-05-RC Modified
2	DOE EML HASL-300, Pu-11-RC Modified
3	DOE EML HASL-300, Pu-11-RC Modified
4	EML HASL 300, 4.5.2.3
5	EPA 905.0 Modified
6	EPA 906.0 Modified
7	EPA 906.0 Modified
8	EPA EERF C-01 Modified
9	DOE RESL Fe-1, Modified
10	DOE RESL Ni-1, Modified
11	DOE EML HASL-300, Tc-02-RC Modified
12	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Americium-243	Alphaspec Am241, Cm, Solid-TR1	72	(15%-125%)
Plutonium-242	Alphaspec Pu, Solid-TRU2,ALL2	86	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Pu241, Solid-TRU2, /	76	(25%-125%)

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-200-RB
Sample ID: 157164055

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Carrier/Tracer Recovery	GFPC, Sr90, solid	Quick TAT			106		(25%-125%)						
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,AI				88		(15%-125%)						
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,AI				74		(25%-125%)						
Carrier/Tracer Recovery	Liquid Scint Tc99, Solid-HTD2,AI				102		(15%-125%)						

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-200-C3C-01
Sample ID: 157164056
Matrix: CT
Collect Date: 11-FEB-06
Receive Date: 02-MAR-06
Collector: Client
Moisture: 7.53%

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>Gammascpec, Gamma, GAM2, ALL2 (CT ingrowth waived)</i>													
Actinium-228	U	0.259	+/-0.170	0.141	+/-0.166	0.295	pCi/g		MJH1	03/14/06	1159	509663	1
Americium-241	U	-0.0677	+/-0.116	0.0842	+/-0.114	0.175	pCi/g						
Bismuth-212		0.463	+/-0.394	0.161	+/-0.386	0.348	pCi/g						
Bismuth-214		0.580	+/-0.110	0.0376	+/-0.108	0.081	pCi/g						
Cesium-134	U	0.0367	+/-0.031	0.0284	+/-0.0304	0.0608	pCi/g						
Cesium-137	U	0.021	+/-0.024	0.0217	+/-0.0235	0.0469	pCi/g						
Cobalt-60	U	0.000915	+/-0.0242	0.0203	+/-0.0237	0.046	pCi/g						
Europium-152	U	-0.0755	+/-0.0674	0.0503	+/-0.066	0.107	pCi/g						
Europium-154	U	0.0487	+/-0.0881	0.0706	+/-0.0863	0.156	pCi/g						
Europium-155	U	0.0518	+/-0.0631	0.0577	+/-0.0619	0.120	pCi/g						
Lead-212		0.498	+/-0.0742	0.0369	+/-0.0727	0.0768	pCi/g						
Lead-214		0.682	+/-0.099	0.0381	+/-0.097	0.0809	pCi/g						
Manganese-54	U	0.0054	+/-0.0252	0.0212	+/-0.0247	0.0461	pCi/g						
Niobium-94	U	0.00883	+/-0.0233	0.0201	+/-0.0228	0.0431	pCi/g						
Potassium-40		8.41	+/-0.863	0.147	+/-0.846	0.349	pCi/g						
Radium-226		0.580	+/-0.110	0.0376	+/-0.108	0.081	pCi/g						
Silver-108m	U	-0.0135	+/-0.0243	0.0186	+/-0.0238	0.0396	pCi/g						
Thallium-208		0.131	+/-0.0478	0.0228	+/-0.0468	0.0488	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Sr-90	U	0.0182	+/-0.017	0.0158	+/-0.017	0.0351	pCi/g		BXF1	03/09/06	1036	508561	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2, ALL2 (CT)</i>													
Tritium	U	0.971	+/-1.74	1.43	+/-1.74	2.96	pCi/g		CHS1	03/12/06	2202	508626	3
<i>Liquid Scint Fe55, Solid-HTD2, ALL2 (CT)</i>													
Iron-55	U	1.98	+/-1.89	1.28	+/-1.89	2.59	pCi/g		SLN1	03/22/06	1530	508722	4
<i>Liquid Scint Ni63, Solid-HTD2, ALL2 (CT)</i>													
Nickel-63	U	-1.74	+/-1.32	1.14	+/-1.32	2.33	pCi/g		SLN1	03/12/06	1001	508729	5
Solid Preparation													
<i>Laboratory Composite – CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID:	3100-0000-200-C5C-01	Project:	YANK01204
Sample ID:	157164057	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	13-FEB-06		
Receive Date:	02-MAR-06		
Collector:	Client		
Moisture:	6.2%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>Gammascpec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.127	+/-0.116	0.049	+/-0.114	0.107	pCi/g		MJH1	03/14/06	1042	509663	1
Americium-241	U	0.0185	+/-0.0628	0.0529	+/-0.0616	0.110	pCi/g						
Bismuth-212	U	0.0624	+/-0.152	0.119	+/-0.149	0.255	pCi/g						
Bismuth-214		0.152	+/-0.0587	0.0267	+/-0.0575	0.057	pCi/g						
Cesium-134	U	0.0179	+/-0.0204	0.0152	+/-0.020	0.033	pCi/g						
Cesium-137	U	0.00198	+/-0.0225	0.0129	+/-0.022	0.028	pCi/g						
Cobalt-60		0.0783	+/-0.0278	0.0112	+/-0.0273	0.0259	pCi/g						
Europium-152	U	0.0308	+/-0.0587	0.0376	+/-0.0575	0.0795	pCi/g						
Europium-154	U	-0.0217	+/-0.0504	0.0385	+/-0.0494	0.0863	pCi/g						
Europium-155	U	0.0151	+/-0.0442	0.0409	+/-0.0433	0.0851	pCi/g						
Lead-212		0.209	+/-0.0439	0.0216	+/-0.043	0.0451	pCi/g						
Lead-214		0.189	+/-0.060	0.026	+/-0.0588	0.055	pCi/g						
Manganese-54	U	-0.00509	+/-0.0169	0.0139	+/-0.0166	0.0301	pCi/g						
Niobium-94	U	0.0092	+/-0.0154	0.0139	+/-0.0151	0.0298	pCi/g						
Potassium-40		3.13	+/-0.490	0.099	+/-0.480	0.232	pCi/g						
Radium-226		0.152	+/-0.0587	0.0267	+/-0.0575	0.057	pCi/g						
Silver-108m	U	-0.00224	+/-0.0147	0.0122	+/-0.0144	0.026	pCi/g						
Thallium-208		0.0692	+/-0.0351	0.0131	+/-0.0344	0.0283	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	0.0034	+/-0.0176	0.019	+/-0.0176	0.0429	pCi/g		BXF1	03/09/06	1036	508561	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium	U	1.85	+/-1.72	1.39	+/-1.72	2.87	pCi/g		CHS1	03/12/06	2249	508626	3
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	-2.67	+/-3.80	2.72	+/-3.80	5.52	pCi/g		SLN1	03/15/06	2350	508722	4
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	-1.94	+/-1.55	1.34	+/-1.55	2.72	pCi/g		SLN1	03/12/06	1133	508729	6
Solid Preparation													
<i>Laboratory Composite – CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-200-C5C-01 Project: YANK01204
Sample ID: 157164057 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	AXP2	03/06/06	1624	508401
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1701	508398
GL-RAD-A-026	Laboratory sample composite				508386

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	DOE RESL Fe-1, Modified
5	DOE RESL Fe-1, Modified
6	DOE RESL Ni-1, Modified
7	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	78	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,Al	71	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,Al	64	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
 Address : 362 Injun Hollow Rd
 East Hampton, Connecticut 06424
 Contact: Mr. Jack McCarthy
 Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-201-C1C-01
 Sample ID: 157164058
 Matrix: CT
 Collect Date: 13-FEB-06
 Receive Date: 02-MAR-06
 Collector: Client
 Moisture: 7.81%

Project: YANK01204
 Client ID: YANK001
 Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec Am241, Cm, Solid-TRU2,ALL2 (CT)</i>													
Americium-241	U	-0.00769	+/-0.0114	0.0106	+/-0.0114	0.0357	pCi/g		BJB1	03/10/06	1148	508575	1
Curium-242	U	-0.0115	+/-0.00796	0.0193	+/-0.00809	0.0548	pCi/g						
Curium-243/244	U	-0.00473	+/-0.0173	0.0212	+/-0.0173	0.057	pCi/g						
<i>Alphaspec Pu, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-238	U	0.00931	+/-0.0149	0.00603	+/-0.0149	0.0264	pCi/g		BJB1	03/11/06	0934	508578	2
Plutonium-239/240	U	-0.00254	+/-0.00352	0.00852	+/-0.00353	0.0313	pCi/g						
<i>Liquid Scint Pu241, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-241	U	0.298	+/-1.45	1.21	+/-1.45	2.48	pCi/g		BJB1	03/16/06	1334	508580	3
Rad Gamma Spec Analysis													
<i>Gammastec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.498	+/-0.148	0.0511	+/-0.145	0.113	pCi/g		MJH1	03/14/06	1156	509663	4
Americium-241	U	0.0771	+/-0.106	0.0941	+/-0.104	0.196	pCi/g						
Bismuth-212		0.320	+/-0.217	0.118	+/-0.213	0.256	pCi/g						
Bismuth-214		0.518	+/-0.0686	0.0258	+/-0.0672	0.0559	pCi/g						
Cesium-134	U	0.0365	+/-0.0453	0.0197	+/-0.0444	0.0424	pCi/g						
Cesium-137	U	-0.0271	+/-0.0246	0.0155	+/-0.0242	0.0334	pCi/g						
Cobalt-60		0.0449	+/-0.0338	0.0146	+/-0.0332	0.0333	pCi/g						
Europium-152	U	-0.0384	+/-0.051	0.0396	+/-0.050	0.0841	pCi/g						
Europium-154	U	-0.0166	+/-0.0698	0.0562	+/-0.0684	0.123	pCi/g						
Europium-155	U	0.0755	+/-0.0521	0.0504	+/-0.0511	0.105	pCi/g						
Lead-212		0.450	+/-0.062	0.0378	+/-0.0608	0.0778	pCi/g						
Lead-214		0.517	+/-0.0686	0.0289	+/-0.0672	0.0612	pCi/g						
Manganese-54	U	-0.00362	+/-0.0202	0.0162	+/-0.0198	0.0352	pCi/g						
Niobium-94	U	0.0107	+/-0.0157	0.014	+/-0.0153	0.0302	pCi/g						
Potassium-40		8.03	+/-0.752	0.144	+/-0.737	0.328	pCi/g						
Radium-226		0.518	+/-0.0686	0.0258	+/-0.0672	0.0559	pCi/g						
Silver-108m	U	-0.00086	+/-0.0164	0.0142	+/-0.0161	0.0303	pCi/g						
Thallium-208		0.160	+/-0.0462	0.0168	+/-0.0453	0.0358	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	-0.00413	+/-0.0145	0.0171	+/-0.0145	0.0379	pCi/g		BXF1	03/09/06	1037	508561	5
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium	U	1.76	+/-1.80	1.45	+/-1.80	3.00	pCi/g		CHS1	03/12/06	2336	508626	6

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-201-C1C-01 Project: YANK01204
Sample ID: 157164058 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Liquid Scintillation Analysis													
<i>Liquid Scint C14, Solid-HTD2,ALL2 (CT)</i>													
Carbon-14	U	0.144	+/-0.272	0.226	+/-0.272	0.460	pCi/g		MXPI	03/08/06	1948	508737	7
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	1.87	+/-1.51	1.02	+/-1.51	2.06	pCi/g		SLN1	03/22/06	1837	508722	8
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	-0.911	+/-1.19	1.01	+/-1.19	2.06	pCi/g		SLN1	03/12/06	1305	508729	9
<i>Liquid Scint Tc99, Solid-HTD2,ALL2 (CT)</i>													
Technetium-99	U	-0.0384	+/-0.264	0.223	+/-0.264	0.455	pCi/g		SLN1	03/14/06	0110	508572	10

Solid Preparation

Laboratory Composite – CONCRETE

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	AXP2	03/06/06	1624	508401
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1701	508398
GL-RAD-A-026	Laboratory sample composite				508386

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, Am-05-RC Modified
2	DOE EML HASL-300, Pu-11-RC Modified
3	DOE EML HASL-300, Pu-11-RC Modified
4	EML HASL 300, 4.5.2.3
5	EPA 905.0 Modified
6	EPA 906.0 Modified
7	EPA EERF C-01 Modified
8	DOE RESL Fe-1, Modified
9	DOE RESL Ni-1, Modified
10	DOE EML HASL-300, Tc-02-RC Modified
11	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Americium-243	Alphaspec Am241, Cm, Solid-TR1	87	(15%-125%)
Plutonium-242	Alphaspec Pu, Solid-TRU2.ALL2	89	(15%-125%)

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-201-C1C-01
Sample ID: 157164058
Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Carrier/Tracer Recovery		Liquid Scint Pu241, Solid-TRU2, /			83		(25%-125%)						
Carrier/Tracer Recovery		GFPC, Sr90, solid Quick TAT			100		(25%-125%)						
Carrier/Tracer Recovery		Liquid Scint Fe55, Solid-HTD2,A)			77		(15%-125%)						
Carrier/Tracer Recovery		Liquid Scint Ni63, Solid-HTD2,A)			68		(25%-125%)						
Carrier/Tracer Recovery		Liquid Scint Tc99, Solid-HTD2,A)			85		(15%-125%)						

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID:	3100-0000-201-C1C-02	Project:	YANK01204
Sample ID:	157164059	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	13-FEB-06		
Receive Date:	02-MAR-06		
Collector:	Client		
Moisture:	7.31%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec Am241, Cm, Solid-TRU2,ALL2 (CT)</i>													
Americium-241	U	-0.0057	+/-0.0136	0.0201	+/-0.0136	0.0617	pCi/g		BJB1	03/10/06	1148	508575	1
Curium-242	U	0.0134	+/-0.0251	0.0142	+/-0.0252	0.0522	pCi/g						
Curium-243/244	U	-0.00919	+/-0.0191	0.0271	+/-0.0192	0.0756	pCi/g						
<i>Alphaspec Pu, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-238	U	-0.00495	+/-0.0056	0.0136	+/-0.00563	0.0458	pCi/g		BJB1	03/11/06	0934	508578	2
Plutonium-239/240	U	-0.0132	+/-0.00914	0.0221	+/-0.00924	0.0629	pCi/g						
<i>Liquid Scint Pu241, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-241	U	0.700	+/-1.23	1.02	+/-1.23	2.08	pCi/g		BJB1	03/16/06	1436	508580	3
Rad Gamma Spec Analysis													
<i>Gammasespec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.557	+/-0.155	0.0595	+/-0.152	0.130	pCi/g		MJH1	03/14/06	1156	509663	4
Americium-241	U	-0.0157	+/-0.154	0.0941	+/-0.151	0.195	pCi/g						
Bismuth-212		0.573	+/-0.269	0.132	+/-0.263	0.286	pCi/g						
Bismuth-214		0.538	+/-0.111	0.0361	+/-0.109	0.077	pCi/g						
Cesium-134	U	0.0262	+/-0.0251	0.023	+/-0.0246	0.0492	pCi/g						
Cesium-137	U	-0.00412	+/-0.0235	0.0197	+/-0.023	0.0422	pCi/g						
Cobalt-60	U	0.0296	+/-0.0301	0.0221	+/-0.0295	0.0483	pCi/g						
Europium-152	U	-0.0159	+/-0.0604	0.0504	+/-0.0592	0.106	pCi/g						
Europium-154	U	-0.00226	+/-0.0662	0.0554	+/-0.0649	0.122	pCi/g						
Europium-155	U	0.0691	+/-0.0687	0.0614	+/-0.0673	0.127	pCi/g						
Lead-212		0.584	+/-0.0687	0.0338	+/-0.0673	0.0703	pCi/g						
Lead-214		0.540	+/-0.102	0.0363	+/-0.0994	0.0766	pCi/g						
Manganese-54	U	0.000477	+/-0.0221	0.0185	+/-0.0217	0.040	pCi/g						
Niobium-94	U	-0.000871	+/-0.0271	0.0198	+/-0.0265	0.0421	pCi/g						
Potassium-40		7.67	+/-0.741	0.156	+/-0.727	0.352	pCi/g						
Radium-226		0.538	+/-0.111	0.0361	+/-0.109	0.077	pCi/g						
Silver-108m	U	-0.00464	+/-0.0206	0.0169	+/-0.0202	0.0359	pCi/g						
Thallium-208		0.156	+/-0.0489	0.0203	+/-0.0479	0.0431	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	-0.0191	+/-0.00964	0.0155	+/-0.00965	0.0347	pCi/g		BXF1	03/09/06	1037	508561	5
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium	U	-0.136	+/-1.59	1.34	+/-1.59	2.76	pCi/g		CHS1	03/13/06	0023	508626	6

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-201-C1C-02 Project: YANK01204
Sample ID: 157164059 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Liquid Scintillation Analysis													
<i>Liquid Scint C14, Solid-HTD2,ALL2 (CT)</i>													
Carbon-14	U	0.0922	+/-0.316	0.264	+/-0.316	0.538	pCi/g		MXPI	03/08/06	2050	508737	7
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55		2.87	+/-1.97	1.33	+/-1.98	2.71	pCi/g		SLNI	03/22/06	2011	508722	8
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	-1.12	+/-2.48	2.11	+/-2.48	4.36	pCi/g		SLNI	03/16/06	1114	508729	9
<i>Liquid Scint Tc99, Solid-HTD2,ALL2 (CT)</i>													
Technetium-99	U	0.0348	+/-0.274	0.229	+/-0.274	0.468	pCi/g		SLNI	03/14/06	0141	508572	10

Solid Preparation

Laboratory Composite – CONCRETE

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	AXP2	03/06/06	1624	508401
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1701	508398
GL-RAD-A-026	Laboratory sample composite				508386

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, Am-05-RC Modified
2	DOE EML HASL-300, Pu-11-RC Modified
3	DOE EML HASL-300, Pu-11-RC Modified
4	EML HASL 300, 4.5.2.3
5	EPA 905.0 Modified
6	EPA 906.0 Modified
7	EPA EERF C-01 Modified
8	DOE RESL Fe-1, Modified
9	DOE RESL Ni-1, Modified
10	DOE EML HASL-300, Tc-02-RC Modified
11	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Americium-243	Alphaspec Am241, Cm, Solid-TR1	74	(15%-125%)
Plutonium-242	Alphaspec Pu, Solid-TRU2,ALL2	73	(15%-125%)

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-201-C1C-02
Sample ID: 157164059
Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Carrier/Tracer Recovery		Liquid Scint Pu241, Solid-TRU2, /			100		(25%-125%)						
Carrier/Tracer Recovery		GFPC, Sr90, solid Quick TAT			98		(25%-125%)						
Carrier/Tracer Recovery		Liquid Scint Fe55, Solid-HTD2,AI			72		(15%-125%)						
Carrier/Tracer Recovery		Liquid Scint Ni63, Solid-HTD2,AI			66		(25%-125%)						
Carrier/Tracer Recovery		Liquid Scint Tc99, Solid-HTD2,AI			83		(15%-125%)						

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006 :

Client Sample ID:	3100-0000-201-C1C-03	Project:	YANK01204
Sample ID:	157164060	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	13-FEB-06		
Receive Date:	02-MAR-06		
Collector:	Client		
Moisture:	8.19%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>GammaSpec, Gamma, GAM2, ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.636	+/-0.169	0.0486	+/-0.165	0.107	pCi/g		MJH1	03/14/06	1155	509663	1
Americium-241	U	0.00378	+/-0.0206	0.0186	+/-0.0202	0.0385	pCi/g						
Bismuth-212		0.410	+/-0.235	0.112	+/-0.230	0.242	pCi/g						
Bismuth-214		0.485	+/-0.0953	0.0258	+/-0.0934	0.0555	pCi/g						
Cesium-134	UUI	0.00	+/-0.0381	0.0212	+/-0.0373	0.0451	pCi/g						
Cesium-137	U	0.0137	+/-0.0201	0.0179	+/-0.0197	0.038	pCi/g						
Cobalt-60		0.0636	+/-0.0429	0.0166	+/-0.0421	0.0367	pCi/g						
Europium-152	U	0.0504	+/-0.0497	0.038	+/-0.0487	0.080	pCi/g						
Europium-154	U	0.00152	+/-0.0639	0.0529	+/-0.0627	0.116	pCi/g						
Europium-155	U	0.00646	+/-0.036	0.0311	+/-0.0353	0.0646	pCi/g						
Lead-212		0.521	+/-0.0724	0.025	+/-0.071	0.0519	pCi/g						
Lead-214		0.578	+/-0.0966	0.0247	+/-0.0947	0.0524	pCi/g						
Manganese-54	U	-0.0127	+/-0.020	0.0153	+/-0.0196	0.0331	pCi/g						
Niobium-94	U	0.00637	+/-0.0159	0.0139	+/-0.0156	0.0297	pCi/g						
Potassium-40		7.50	+/-0.816	0.119	+/-0.799	0.273	pCi/g						
Radium-226		0.485	+/-0.0953	0.0258	+/-0.0934	0.0555	pCi/g						
Silver-108m	U	0.000893	+/-0.0136	0.0121	+/-0.0133	0.0258	pCi/g						
Thallium-208		0.130	+/-0.0362	0.0147	+/-0.0355	0.0314	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	0.0204	+/-0.0153	0.013	+/-0.0153	0.0294	pCi/g		BXF1	03/09/06	1037	508561	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2, ALL2 (CT)</i>													
Tritium	U	1.47	+/-1.77	1.43	+/-1.77	2.96	pCi/g		CHS1	03/13/06	0110	508626	3
<i>Liquid Scint Fe55, Solid-HTD2, ALL2 (CT)</i>													
Iron-55	U	-0.678	+/-1.73	1.20	+/-1.73	2.43	pCi/g		SLN1	03/22/06	2144	508722	4
<i>Liquid Scint Ni63, Solid-HTD2, ALL2 (CT)</i>													
Nickel-63	U	-1.49	+/-1.48	1.27	+/-1.48	2.58	pCi/g		SLN1	03/12/06	1610	508729	5
Solid Preparation													
<i>Laboratory Composite - CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-201-C1C-03 Project: YANK01204
Sample ID: 157164060 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	AXP2	03/06/06	1624	508401
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1701	508398
GL-RAD-A-026	Laboratory sample composite				508386

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	DOE RESL Fe-1, Modified
5	DOE RESL Ni-1, Modified
6	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	103	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,AI	72	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,AI	67	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID:	3100-0000-201-C1C-04	Project:	YANK01204
Sample ID:	157164061	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	13-FEB-06		
Receive Date:	02-MAR-06		
Collector:	Client		
Moisture:	7.97%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>Gammascpec, Gamma, GAM2, ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.529	+/-0.130	0.0525	+/-0.127	0.113	pCi/g		MJH1	03/16/06	1040	509664	1
Americium-241	U	0.00988	+/-0.0627	0.0571	+/-0.0614	0.119	pCi/g						
Bismuth-212		0.556	+/-0.223	0.106	+/-0.219	0.227	pCi/g						
Bismuth-214		0.481	+/-0.0819	0.0316	+/-0.0802	0.0666	pCi/g						
Cesium-134	U	0.0242	+/-0.0315	0.0194	+/-0.0309	0.041	pCi/g						
Cesium-137	U	0.0307	+/-0.0242	0.0172	+/-0.0237	0.0363	pCi/g						
Cobalt-60	U	0.00172	+/-0.0203	0.0148	+/-0.0199	0.0324	pCi/g						
Europium-152	U	0.00127	+/-0.0472	0.0398	+/-0.0462	0.0836	pCi/g						
Europium-154	U	0.0425	+/-0.0314	0.0429	+/-0.0308	0.0936	pCi/g						
Europium-155	U	0.035	+/-0.0532	0.0475	+/-0.0521	0.0986	pCi/g						
Lead-212		0.444	+/-0.0685	0.0257	+/-0.0671	0.0534	pCi/g						
Lead-214		0.501	+/-0.0823	0.0296	+/-0.0806	0.0622	pCi/g						
Manganese-54	U	-0.00516	+/-0.0184	0.0153	+/-0.0181	0.0327	pCi/g						
Niobium-94	U	0.0179	+/-0.0177	0.0157	+/-0.0173	0.0331	pCi/g						
Potassium-40		7.91	+/-0.925	0.138	+/-0.906	0.305	pCi/g						
Radium-226		0.481	+/-0.0819	0.0316	+/-0.0802	0.0666	pCi/g						
Silver-108m	U	-0.00424	+/-0.0159	0.0136	+/-0.0156	0.0287	pCi/g						
Thallium-208		0.196	+/-0.0405	0.0148	+/-0.0397	0.0315	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	0.0171	+/-0.0249	0.0244	+/-0.0249	0.0548	pCi/g		BXF1	03/08/06	2041	508562	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2, ALL2 (CT)</i>													
Tritium	U	-0.589	+/-1.61	1.37	+/-1.61	2.82	pCi/g		CHS1	03/10/06	0247	508627	3
<i>Liquid Scint Fe55, Solid-HTD2, ALL2 (CT)</i>													
Iron-55	U	1.53	+/-1.56	1.07	+/-1.56	2.17	pCi/g		JS1	03/18/06	2340	512718	4
<i>Liquid Scint Ni63, Solid-HTD2, ALL2 (CT)</i>													
Nickel-63	U	-1.81	+/-1.84	1.57	+/-1.84	3.20	pCi/g		SLN1	03/13/06	2353	508731	6
Solid Preparation													
<i>Laboratory Composite – CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-201-C1C-04 Project: YANK01204
Sample ID: 157164061 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	AXP2	03/06/06	2053	508405
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1702	508403
GL-RAD-A-026	Laboratory sample composite				508389

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	DOE RESL Fe-1, Modified
5	DOE RESL Fe-1, Modified
6	DOE RESL Ni-1, Modified
7	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	69	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,A)	68	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,A)	48	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-201-C4C-01
Sample ID: 157164062
Matrix: CT
Collect Date: 14-FEB-06
Receive Date: 02-MAR-06
Collector: Client
Moisture: 10.2%

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>Gammascpec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.550	+/-0.174	0.064	+/-0.170	0.139	pCi/g		MJH1	03/15/06	1930	509664	1
Americium-241	U	0.00764	+/-0.132	0.107	+/-0.130	0.221	pCi/g						
Bismuth-212		0.471	+/-0.272	0.133	+/-0.266	0.287	pCi/g						
Bismuth-214		0.494	+/-0.092	0.0354	+/-0.0902	0.0752	pCi/g						
Cesium-134	U	0.0409	+/-0.0349	0.0217	+/-0.0342	0.0465	pCi/g						
Cesium-137	U	-0.0041	+/-0.0203	0.0165	+/-0.0199	0.0355	pCi/g						
Cobalt-60	U	0.0201	+/-0.0235	0.0214	+/-0.023	0.0468	pCi/g						
Europium-152	U	0.0296	+/-0.0522	0.0422	+/-0.0512	0.0893	pCi/g						
Europium-154	U	-0.0446	+/-0.0627	0.0467	+/-0.0614	0.105	pCi/g						
Europium-155	U	0.0336	+/-0.0588	0.0525	+/-0.0576	0.109	pCi/g						
Lead-212		0.587	+/-0.0752	0.025	+/-0.0737	0.0522	pCi/g						
Lead-214		0.585	+/-0.0943	0.0286	+/-0.0924	0.0607	pCi/g						
Manganese-54	U	0.0101	+/-0.0221	0.0168	+/-0.0217	0.0365	pCi/g						
Niobium-94	U	0.00527	+/-0.0181	0.0153	+/-0.0177	0.0329	pCi/g						
Potassium-40		9.81	+/-1.08	0.157	+/-1.06	0.354	pCi/g						
Radium-226		0.494	+/-0.092	0.0354	+/-0.0902	0.0752	pCi/g						
Silver-108m	U	0.00884	+/-0.0167	0.0148	+/-0.0163	0.0316	pCi/g						
Thallium-208		0.207	+/-0.0396	0.0171	+/-0.0388	0.0365	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	-0.00829	+/-0.0116	0.015	+/-0.0116	0.0337	pCi/g		BXF1	03/10/06	1843	508562	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium	U	0.0598	+/-1.66	1.39	+/-1.66	2.87	pCi/g		CHS1	03/10/06	0334	508627	3
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	-0.515	+/-1.13	0.822	+/-1.14	1.67	pCi/g		JS1	03/19/06	0143	512718	4
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	-13.5	+/-1.45	1.73	+/-1.50	3.56	pCi/g		SLN1	03/18/06	0244	508731	6
Solid Preparation													
<i>Laboratory Composite – CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power

Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424

Contact: Mr. Jack McCarthy

Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-201-C4C-01
Sample ID: 157164062

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	AXP2	03/06/06	2053	508405
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1702	508403
GL-RAD-A-026	Laboratory sample composite				508389

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	DOE RESL Fe-1, Modified
5	DOE RESL Fe-1, Modified
6	DOE RESL Ni-1, Modified
7	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	80	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,A)	46	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,A)	71	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

B Target analyte was detected in the sample as well as the associated blank.

BD Results below the MDC or low tracer recovery.

E Concentration of the target analyte exceeds the instrument calibration range.

H Analytical holding time exceeded.

J Indicates an estimated value.

U Target analyte was analyzed for but not detected above the MDL or LOD.

UI Uncertain identification for gamma spectroscopy.

X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.

d The 2:1 depletion requirement was not met for this sample

h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID:	3100-0000-201-C6C-01	Project:	YANK01204
Sample ID:	157164063	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	14-FEB-06		
Receive Date:	02-MAR-06		
Collector:	Client		
Moisture:	7.28%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>Gammascpec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.423	+/-0.158	0.065	+/-0.155	0.142	pCi/g		MJH1	03/15/06	1931	509664	1
Americium-241	U	0.0686	+/-0.108	0.0844	+/-0.106	0.174	pCi/g						
Bismuth-212	U	0.298	+/-0.201	0.183	+/-0.197	0.389	pCi/g						
Bismuth-214		0.545	+/-0.101	0.0347	+/-0.0991	0.0742	pCi/g						
Cesium-134	U	0.0105	+/-0.0245	0.0209	+/-0.0241	0.0451	pCi/g						
Cesium-137	U	-0.00268	+/-0.023	0.0187	+/-0.0226	0.0403	pCi/g						
Cobalt-60	U	-0.0103	+/-0.0268	0.0209	+/-0.0263	0.0466	pCi/g						
Europium-152	U	-0.0363	+/-0.061	0.0501	+/-0.0598	0.105	pCi/g						
Europium-154	U	-0.0405	+/-0.0824	0.0641	+/-0.0808	0.141	pCi/g						
Europium-155	U	0.033	+/-0.062	0.0537	+/-0.0608	0.111	pCi/g						
Lead-212	UUI	0.00	+/-0.087	0.0601	+/-0.0852	0.123	pCi/g						
Lead-214		0.466	+/-0.109	0.0382	+/-0.107	0.0802	pCi/g						
Manganese-54	U	0.0123	+/-0.0253	0.0215	+/-0.0248	0.0461	pCi/g						
Niobium-94	U	0.0119	+/-0.0205	0.0177	+/-0.0201	0.038	pCi/g						
Potassium-40		8.21	+/-0.974	0.163	+/-0.954	0.373	pCi/g						
Radium-226		0.545	+/-0.101	0.0347	+/-0.0991	0.0742	pCi/g						
Silver-108m	U	-0.00111	+/-0.0187	0.0156	+/-0.0183	0.0333	pCi/g						
Thallium-208		0.173	+/-0.0471	0.0178	+/-0.0462	0.0382	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	0.0265	+/-0.0233	0.0206	+/-0.0233	0.0467	pCi/g		BXF1	03/08/06	2041	508562	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium	U	-0.522	+/-1.50	1.28	+/-1.50	2.64	pCi/g		CHS1	03/10/06	0421	508627	3
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	-0.745	+/-1.74	1.22	+/-1.74	2.47	pCi/g		JS1	03/19/06	0347	512718	4
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	-1.13	+/-1.50	1.28	+/-1.50	2.59	pCi/g		SLN1	03/14/06	0457	508731	6
Solid Preparation													
<i>Laboratory Composite – CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-201-C6C-01 Project: YANK01204
Sample ID: 157164063 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	AXP2	03/06/06	2053	508405
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1702	508403
GL-RAD-A-026	Laboratory sample composite				508389

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	DOE RESL Fe-1, Modified
5	DOE RESL Fe-1, Modified
6	DOE RESL Ni-1, Modified
7	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	77	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,AI	67	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,AI	58	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
- BD Results below the MDC or low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value.
- U Target analyte was analyzed for but not detected above the MDL or LOD.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
- d The 2:1 depletion requirement was not met for this sample
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID:	3100-0000-202-C1C-01	Project:	YANK01204
Sample ID:	157164064	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	08-FEB-06		
Receive Date:	02-MAR-06		
Collector:	Client		
Moisture:	6.75%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec Am241, Cm, Solid-TRU2,ALL2 (CT)</i>													
Americium-241	U	0.0171	+/-0.0303	0.0186	+/-0.0304	0.0626	pCi/g		BJB1	03/10/06	1148	508575	1
Curium-242	U	0.003	+/-0.0227	0.0211	+/-0.0227	0.0712	pCi/g						
Curium-243/244	U	-0.0113	+/-0.00991	0.024	+/-0.010	0.0736	pCi/g						
<i>Alphaspec Pu, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-238	U	0.00	+/-0.0155	0.00	+/-0.0155	0.0214	pCi/g		BJB1	03/14/06	1155	508578	2
Plutonium-239/240	U	0.00	+/-0.0155	0.00	+/-0.0155	0.0214	pCi/g						
<i>Liquid Scint Pu241, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-241	U	1.22	+/-2.24	1.52	+/-2.24	3.09	pCi/g		BJB1	03/16/06	1949	508580	3
Rad Gamma Spec Analysis													
<i>Gammasespec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228	UUI	0.00	+/-0.218	0.145	+/-0.214	0.301	pCi/g		MJH1	03/15/06	1932	509664	4
Americium-241	U	0.0242	+/-0.0389	0.0328	+/-0.0381	0.0676	pCi/g						
Bismuth-212	U	0.377	+/-0.324	0.183	+/-0.318	0.388	pCi/g						
Bismuth-214		0.574	+/-0.129	0.0444	+/-0.126	0.0936	pCi/g						
Cesium-134	U	-0.00997	+/-0.0345	0.0285	+/-0.0338	0.0603	pCi/g						
Cesium-137	U	0.0171	+/-0.0317	0.0265	+/-0.0311	0.0557	pCi/g						
Cobalt-60		0.286	+/-0.066	0.0244	+/-0.0647	0.0531	pCi/g						
Europium-152	U	-0.016	+/-0.072	0.0615	+/-0.0706	0.128	pCi/g						
Europium-154	U	0.0966	+/-0.0876	0.0808	+/-0.0859	0.173	pCi/g						
Europium-155	U	0.0103	+/-0.0627	0.0556	+/-0.0614	0.115	pCi/g						
Lead-212		0.433	+/-0.0617	0.038	+/-0.0605	0.0785	pCi/g						
Lead-214		0.554	+/-0.094	0.0443	+/-0.0922	0.0923	pCi/g						
Manganese-54	U	0.0047	+/-0.0339	0.0288	+/-0.0333	0.0606	pCi/g						
Niobium-94	U	0.0315	+/-0.0528	0.0229	+/-0.0517	0.0482	pCi/g						
Potassium-40		7.41	+/-0.846	0.236	+/-0.830	0.515	pCi/g						
Radium-226		0.574	+/-0.129	0.0444	+/-0.126	0.0936	pCi/g						
Silver-108m	U	-0.00866	+/-0.0378	0.0193	+/-0.037	0.0407	pCi/g						
Thallium-208		0.182	+/-0.0615	0.0237	+/-0.0603	0.0499	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	0.00793	+/-0.0228	0.0241	+/-0.0228	0.0535	pCi/g		BXF1	03/08/06	2041	508562	5
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium		4.72	+/-2.23	1.69	+/-2.23	3.52	pCi/g		CHS1	03/08/06	0053	508627	6

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-202-C1C-01 Project: YANK01204
Sample ID: 157164064 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Liquid Scintillation Analysis													
<i>Liquid Scint C14, Solid-HTD2,ALL2 (CT)</i>													
Carbon-14	U	0.238	+/-0.314	0.259	+/-0.314	0.529	pCi/g		MXPI	03/08/06	2153	508737	7
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	0.998	+/-1.52	1.04	+/-1.52	2.10	pCi/g		JS1	03/19/06	0831	512718	8
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	-1.29	+/-1.26	1.08	+/-1.26	2.19	pCi/g		SLN1	03/14/06	0701	508731	10
<i>Liquid Scint Tc99, Solid-HTD2,ALL2 (CT)</i>													
Technetium-99	U	-0.0674	+/-0.292	0.246	+/-0.292	0.504	pCi/g		SLN1	03/14/06	0213	508572	11

Solid Preparation

Laboratory Composite – CONCRETE

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	AXP2	03/06/06	2053	508405
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1702	508403
GL-RAD-A-026	Laboratory sample composite				508389

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, Am-05-RC Modified
2	DOE EML HASL-300, Pu-11-RC Modified
3	DOE EML HASL-300, Pu-11-RC Modified
4	EML HASL 300, 4.5.2.3
5	EPA 905.0 Modified
6	EPA 906.0 Modified
7	EPA EERF C-01 Modified
8	DOE RESL Fe-1, Modified
9	DOE RESL Fe-1, Modified
10	DOE RESL Ni-1, Modified
11	DOE EML HASL-300, Tc-02-RC Modified
12	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Americium-243	Alphaspec Am241, Cm, Solid-TR1	73	(15%-125%)

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424

Contact: Mr. Jack McCarthy

Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-202-C1C-01
Sample ID: 157164064

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time Batch	Mtd
Plutonium-242		Alphaspec Pu, Solid-TRU2,ALL2			66		(15%-125%)					
Carrier/Tracer Recovery		Liquid Scint Pu241, Solid-TRU2, /			47		(25%-125%)					
Carrier/Tracer Recovery		GFPC, Sr90, solid Quick TAT			77		(25%-125%)					
Carrier/Tracer Recovery		Liquid Scint Fe55, Solid-HTD2,A)			77		(15%-125%)					
Carrier/Tracer Recovery		Liquid Scint Ni63, Solid-HTD2,A)			71		(25%-125%)					
Carrier/Tracer Recovery		Liquid Scint Tc99, Solid-HTD2,A)			79		(15%-125%)					

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-202-C1C-02
Sample ID: 157164065
Matrix: CT
Collect Date: 08-FEB-06
Receive Date: 02-MAR-06
Collector: Client
Moisture: 5.34%

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec Am241, Cm, Solid-TRU2,ALL2 (CT)</i>													
Americium-241	U	0.00266	+/-0.020	0.0195	+/-0.020	0.0555	pCi/g		BJB1	03/10/06	1148	508575	1
Curium-242	U	-0.00331	+/-0.00459	0.0111	+/-0.00461	0.0409	pCi/g						
Curium-243/244	U	-0.0129	+/-0.0158	0.025	+/-0.0158	0.0664	pCi/g						
<i>Alphaspec Pu, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-238	U	-0.00115	+/-0.00226	0.00547	+/-0.00226	0.024	pCi/g		BJB1	03/11/06	0934	508578	2
Plutonium-239/240	U	0.0169	+/-0.0191	0.00774	+/-0.0191	0.0285	pCi/g						
<i>Liquid Scint Pu241, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-241	U	0.707	+/-1.92	1.60	+/-1.93	3.27	pCi/g		BJB1	03/16/06	1538	508580	3
Rad Gamma Spec Analysis													
<i>Gammasec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.414	+/-0.211	0.0738	+/-0.207	0.161	pCi/g		MJH1	03/15/06	1932	509664	4
Americium-241	U	0.0389	+/-0.031	0.0274	+/-0.0303	0.0567	pCi/g						
Bismuth-212	UUI	0.00	+/-0.390	0.160	+/-0.382	0.346	pCi/g						
Bismuth-214		0.401	+/-0.121	0.0375	+/-0.118	0.0804	pCi/g						
Cesium-134	U	0.0228	+/-0.0312	0.0248	+/-0.0305	0.0534	pCi/g						
Cesium-137	U	0.00349	+/-0.025	0.0212	+/-0.0245	0.0456	pCi/g						
Cobalt-60	U	0.00337	+/-0.0259	0.0219	+/-0.0254	0.0487	pCi/g						
Europium-152	U	-0.0147	+/-0.0555	0.0483	+/-0.0544	0.102	pCi/g						
Europium-154	U	-0.0199	+/-0.0707	0.0565	+/-0.0693	0.126	pCi/g						
Europium-155	U	0.0334	+/-0.0491	0.0452	+/-0.0481	0.0939	pCi/g						
Lead-212		0.447	+/-0.0661	0.0276	+/-0.0648	0.0578	pCi/g						
Lead-214		0.403	+/-0.104	0.0376	+/-0.102	0.0791	pCi/g						
Manganese-54	U	0.0109	+/-0.0269	0.023	+/-0.0264	0.0496	pCi/g						
Niobium-94	U	0.0172	+/-0.0227	0.0202	+/-0.0222	0.0431	pCi/g						
Potassium-40		6.75	+/-0.929	0.180	+/-0.910	0.409	pCi/g						
Radium-226		0.401	+/-0.121	0.0375	+/-0.118	0.0804	pCi/g						
Silver-108m	U	0.00394	+/-0.0191	0.0169	+/-0.0187	0.0359	pCi/g						
Thallium-208		0.181	+/-0.0498	0.0206	+/-0.0488	0.0441	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	0.000574	+/-0.0178	0.0198	+/-0.0178	0.045	pCi/g		BXF1	03/08/06	2041	508562	5
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium		4.33	+/-2.21	1.69	+/-2.21	3.52	pCi/g		CHS1	03/08/06	0125	508627	6

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-202-C1C-02 Project: YANK01204
Sample ID: 157164065 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Liquid Scintillation Analysis													
<i>Liquid Scint C14, Solid-HTD2,ALL2 (CT)</i>													
Carbon-14	U	0.148	+/-0.273	0.226	+/-0.273	0.461	pCi/g		MXP1	03/08/06	2255	508737	7
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	0.0165	+/-1.43	0.992	+/-1.43	2.01	pCi/g		JS1	03/19/06	1035	512718	8
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	-1.26	+/-0.999	0.858	+/-1.00	1.74	pCi/g		SLN1	03/14/06	0905	508731	10
<i>Liquid Scint Tc99, Solid-HTD2,ALL2 (CT)</i>													
Technetium-99	U	-0.0208	+/-0.288	0.242	+/-0.288	0.495	pCi/g		SLN1	03/14/06	0245	508572	11

Solid Preparation

Laboratory Composite – CONCRETE

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	AXP2	03/06/06	2053	508405
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1702	508403
GL-RAD-A-026	Laboratory sample composite				508389

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, Am-05-RC Modified
2	DOE EML HASL-300, Pu-11-RC Modified
3	DOE EML HASL-300, Pu-11-RC Modified
4	EML HASL 300, 4.5.2.3
5	EPA 905.0 Modified
6	EPA 906.0 Modified
7	EPA EERF C-01 Modified
8	DOE RESL Fe-1, Modified
9	DOE RESL Fe-1, Modified
10	DOE RESL Ni-1, Modified
11	DOE EML HASL-300, Tc-02-RC Modified
12	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Americium-243	Alphaspec Am241, Cm, Solid-TRI	97	(15%-125%)

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-202-C1C-02
Sample ID: 157164065
Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time Batch	Mtd
Plutonium-242		Alphaspec Pu, Solid-TRU2,ALL2			96		(15%-125%)					
Carrier/Tracer Recovery		Liquid Scint Pu241, Solid-TRU2, /			62		(25%-125%)					
Carrier/Tracer Recovery		GFPC, Sr90, solid Quick TAT			75		(25%-125%)					
Carrier/Tracer Recovery		Liquid Scint Fe55, Solid-HTD2,A)			67		(15%-125%)					
Carrier/Tracer Recovery		Liquid Scint Ni63, Solid-HTD2,A)			70		(25%-125%)					
Carrier/Tracer Recovery		Liquid Scint Tc99, Solid-HTD2,A)			82		(15%-125%)					

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-202-C1C-03
Sample ID: 157164066
Matrix: CT
Collect Date: 08-FEB-06
Receive Date: 02-MAR-06
Collector: Client
Moisture: 6.89%

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>GammaSpec, Gamma, GAM2, ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.579	+/-0.137	0.0482	+/-0.134	0.103	pCi/g		MJH1	03/15/06	1937	509664	1
Americium-241	U	0.000926	+/-0.101	0.0814	+/-0.0991	0.168	pCi/g						
Bismuth-212	U	0.209	+/-0.167	0.113	+/-0.163	0.238	pCi/g						
Bismuth-214		0.516	+/-0.0602	0.025	+/-0.059	0.0526	pCi/g						
Cesium-134	U	0.0101	+/-0.0222	0.0174	+/-0.0217	0.0366	pCi/g						
Cesium-137	U	0.0254	+/-0.0237	0.0147	+/-0.0232	0.0309	pCi/g						
Cobalt-60		0.885	+/-0.0626	0.0119	+/-0.0614	0.0261	pCi/g						
Europium-152	U	-0.0186	+/-0.0423	0.0371	+/-0.0415	0.0775	pCi/g						
Europium-154	U	0.00155	+/-0.0487	0.040	+/-0.0477	0.0862	pCi/g						
Europium-155	U	0.0529	+/-0.0475	0.0459	+/-0.0465	0.095	pCi/g						
Lead-212		0.507	+/-0.0486	0.0218	+/-0.0476	0.0453	pCi/g						
Lead-214		0.595	+/-0.0684	0.0254	+/-0.067	0.0533	pCi/g						
Manganese-54	U	0.00102	+/-0.0198	0.0149	+/-0.0194	0.0315	pCi/g						
Niobium-94	U	0.0128	+/-0.0149	0.012	+/-0.0146	0.0253	pCi/g						
Potassium-40		9.62	+/-0.629	0.0965	+/-0.616	0.216	pCi/g						
Radium-226		0.516	+/-0.0602	0.025	+/-0.059	0.0526	pCi/g						
Silver-108m	U	0.00386	+/-0.0133	0.0118	+/-0.013	0.0249	pCi/g						
Thallium-208		0.147	+/-0.0389	0.0128	+/-0.0381	0.0271	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	0.00995	+/-0.0216	0.0222	+/-0.0216	0.0496	pCi/g		BXF1	03/08/06	2041	508562	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2, ALL2 (CT)</i>													
Tritium	U	2.09	+/-1.63	1.30	+/-1.63	2.69	pCi/g		CHS1	03/10/06	0508	508627	3
<i>Liquid Scint Fe55, Solid-HTD2, ALL2 (CT)</i>													
Iron-55	U	0.101	+/-1.56	1.09	+/-1.56	2.21	pCi/g		JS1	03/19/06	1238	512718	4
<i>Liquid Scint Ni63, Solid-HTD2, ALL2 (CT)</i>													
Nickel-63	U	0.0565	+/-1.23	1.03	+/-1.23	2.10	pCi/g		SLN1	03/14/06	1109	508731	6
Solid Preparation													
<i>Laboratory Composite – CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-202-C1C-03
Sample ID: 157164066
Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	AXP2	03/06/06	2053	508405
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1702	508403
GL-RAD-A-026	Laboratory sample composite				508389

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	DOE RESL Fe-1, Modified
5	DOE RESL Fe-1, Modified
6	DOE RESL Ni-1, Modified
7	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	79	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,A)	62	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,A)	72	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-202-C1C-04
Sample ID: 157164067
Matrix: CT
Collect Date: 08-FEB-06
Receive Date: 02-MAR-06
Collector: Client
Moisture: 6.62%

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>GammaSpec, Gamma, GAM2, ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.351	+/-0.101	0.0475	+/-0.099	0.101	pCi/g		MJH1	03/15/06	1938	509664	1
Americium-241	U	0.00709	+/-0.0505	0.0466	+/-0.0495	0.0964	pCi/g						
Bismuth-212	U	0.0326	+/-0.182	0.0954	+/-0.179	0.202	pCi/g						
Bismuth-214		0.482	+/-0.0818	0.0247	+/-0.0802	0.0518	pCi/g						
Cesium-134	U	0.0317	+/-0.0297	0.0166	+/-0.0291	0.0349	pCi/g						
Cesium-137	U	0.0189	+/-0.0183	0.0121	+/-0.0179	0.0257	pCi/g						
Cobalt-60		0.102	+/-0.0399	0.0144	+/-0.0391	0.0309	pCi/g						
Europium-152	U	-0.0304	+/-0.0441	0.0308	+/-0.0432	0.0646	pCi/g						
Europium-154	U	-0.0239	+/-0.050	0.0405	+/-0.049	0.0868	pCi/g						
Europium-155	U	0.00699	+/-0.0445	0.0394	+/-0.0436	0.0813	pCi/g						
Lead-212		0.406	+/-0.0498	0.0223	+/-0.0488	0.046	pCi/g						
Lead-214		0.468	+/-0.0773	0.0245	+/-0.0757	0.0511	pCi/g						
Manganese-54	U	-0.00894	+/-0.0147	0.012	+/-0.0144	0.0256	pCi/g						
Niobium-94	U	-0.00123	+/-0.0137	0.0113	+/-0.0134	0.0238	pCi/g						
Potassium-40		8.45	+/-0.805	0.107	+/-0.789	0.234	pCi/g						
Radium-226		0.482	+/-0.0818	0.0247	+/-0.0802	0.0518	pCi/g						
Silver-108m	U	-0.00335	+/-0.0123	0.0106	+/-0.0121	0.0223	pCi/g						
Thallium-208		0.112	+/-0.028	0.0139	+/-0.0274	0.0291	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	-0.0171	+/-0.0182	0.0241	+/-0.0182	0.0537	pCi/g		BXF1	03/08/06	2041	508562	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2, ALL2 (CT)</i>													
Tritium	U	1.11	+/-1.62	1.33	+/-1.62	2.74	pCi/g		CHS1	03/10/06	0555	508627	3
<i>Liquid Scint Fe55, Solid-HTD2, ALL2 (CT)</i>													
Iron-55	U	0.210	+/-1.73	1.20	+/-1.73	2.42	pCi/g		JS1	03/19/06	1442	512718	4
<i>Liquid Scint Ni63, Solid-HTD2, ALL2 (CT)</i>													
Nickel-63	U	-0.312	+/-1.18	0.992	+/-1.18	2.02	pCi/g		SLN1	03/14/06	1312	508731	6
Solid Preparation													
<i>Laboratory Composite – CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-202-C1C-04 Project: YANK01204
Sample ID: 157164067 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	AXP2	03/06/06	2053	508405
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1702	508403
GL-RAD-A-026	Laboratory sample composite				508389

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	DOE RESL Fe-1, Modified
5	DOE RESL Fe-1, Modified
6	DOE RESL Ni-1, Modified
7	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	78	(25%–125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,Al	72	(15%–125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,Al	72	(25%–125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID:	3100-0000-202-C6C-01	Project:	YANK01204
Sample ID:	157164068	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	08-FEB-06		
Receive Date:	02-MAR-06		
Collector:	Client		
Moisture:	5.75%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>GammaSpec, Gamma, GAM2, ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.357	+/-0.106	0.0428	+/-0.104	0.0918	pCi/g		MJH1	03/15/06	2011	509664	1
Americium-241	U	-0.0625	+/-0.0593	0.0547	+/-0.0581	0.112	pCi/g						
Bismuth-212		0.318	+/-0.160	0.0886	+/-0.157	0.189	pCi/g						
Bismuth-214		0.383	+/-0.0545	0.0224	+/-0.0534	0.0474	pCi/g						
Cesium-134	U	0.0189	+/-0.0175	0.0157	+/-0.0171	0.0333	pCi/g						
Cesium-137	U	0.0243	+/-0.0265	0.0129	+/-0.026	0.0274	pCi/g						
Cobalt-60		0.0837	+/-0.030	0.00998	+/-0.0294	0.0224	pCi/g						
Europium-152	U	0.0106	+/-0.0395	0.0346	+/-0.0387	0.0721	pCi/g						
Europium-154	U	-0.0151	+/-0.0542	0.0366	+/-0.0531	0.0798	pCi/g						
Europium-155	U	-0.0135	+/-0.0427	0.0392	+/-0.0419	0.0806	pCi/g						
Lead-212		0.371	+/-0.0408	0.021	+/-0.0399	0.0434	pCi/g						
Lead-214		0.445	+/-0.0642	0.0232	+/-0.0629	0.0485	pCi/g						
Manganese-54	U	0.00689	+/-0.0123	0.0124	+/-0.012	0.0265	pCi/g						
Niobium-94	U	0.0203	+/-0.0128	0.0118	+/-0.0125	0.0249	pCi/g						
Potassium-40		7.32	+/-0.533	0.111	+/-0.522	0.246	pCi/g						
Radium-226		0.383	+/-0.0545	0.0224	+/-0.0534	0.0474	pCi/g						
Silver-108m	U	-0.00145	+/-0.0141	0.0119	+/-0.0138	0.0248	pCi/g						
Thallium-208		0.111	+/-0.0282	0.012	+/-0.0277	0.0254	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	-0.0189	+/-0.0181	0.0246	+/-0.0181	0.055	pCi/g		BXF1	03/08/06	2041	508562	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2, ALL2 (CT)</i>													
Tritium	U	-0.484	+/-1.56	1.32	+/-1.56	2.73	pCi/g		CHS1	03/10/06	0642	508627	3
<i>Liquid Scint Fe55, Solid-HTD2, ALL2 (CT)</i>													
Iron-55	U	1.30	+/-1.45	0.992	+/-1.45	2.01	pCi/g		JS1	03/19/06	1646	512718	4
<i>Liquid Scint Ni63, Solid-HTD2, ALL2 (CT)</i>													
Nickel-63	U	-1.05	+/-1.31	1.12	+/-1.31	2.27	pCi/g		SLN1	03/14/06	1516	508731	6
Solid Preparation													
<i>Laboratory Composite – CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-202-C6C-01 Project: YANK01204
Sample ID: 157164068 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	AXP2	03/06/06	2053	508405
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1702	508403
GL-RAD-A-026	Laboratory sample composite				508389

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	DOE RESL Fe-1, Modified
5	DOE RESL Fe-1, Modified
6	DOE RESL Ni-1, Modified
7	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	72	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,A)	76	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,A)	64	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-202-C9C-01
Sample ID: 157164069
Matrix: CT
Collect Date: 09-FEB-06
Receive Date: 02-MAR-06
Collector: Client
Moisture: 7.64%

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>GammaSpec, Gamma, GAM2, ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.373	+/-0.126	0.0465	+/-0.124	0.102	pCi/g		MJH1	03/15/06	2013	509664	1
Americium-241	U	-0.0217	+/-0.104	0.0774	+/-0.102	0.162	pCi/g						
Bismuth-212		0.320	+/-0.190	0.107	+/-0.186	0.230	pCi/g						
Bismuth-214		0.435	+/-0.0845	0.0276	+/-0.0828	0.0588	pCi/g						
Cesium-134	U	0.0169	+/-0.0191	0.0169	+/-0.0187	0.0364	pCi/g						
Cesium-137	U	0.00175	+/-0.018	0.015	+/-0.0176	0.0321	pCi/g						
Cobalt-60	U	0.00782	+/-0.0213	0.0182	+/-0.0209	0.0399	pCi/g						
Europium-152	U	-0.0331	+/-0.0478	0.0369	+/-0.0468	0.0778	pCi/g						
Europium-154	U	0.0815	+/-0.0493	0.0535	+/-0.0483	0.116	pCi/g						
Europium-155	U	0.0164	+/-0.0494	0.0444	+/-0.0484	0.092	pCi/g						
Lead-212		0.407	+/-0.0558	0.0318	+/-0.0547	0.0655	pCi/g						
Lead-214		0.511	+/-0.0704	0.0267	+/-0.069	0.0564	pCi/g						
Manganese-54	U	-0.00824	+/-0.0194	0.015	+/-0.019	0.0324	pCi/g						
Niobium-94	U	0.00707	+/-0.0164	0.014	+/-0.0161	0.0299	pCi/g						
Potassium-40		7.58	+/-0.749	0.151	+/-0.734	0.337	pCi/g						
Radium-226		0.435	+/-0.0845	0.0276	+/-0.0828	0.0588	pCi/g						
Silver-108m	U	0.00404	+/-0.0147	0.0129	+/-0.0144	0.0273	pCi/g						
Thallium-208		0.132	+/-0.0343	0.0169	+/-0.0336	0.0359	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	-0.00376	+/-0.0191	0.0222	+/-0.0191	0.0493	pCi/g		BXF1	03/08/06	2041	508562	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2, ALL2 (CT)</i>													
Tritium	U	1.51	+/-1.63	1.32	+/-1.63	2.73	pCi/g		CHS1	03/10/06	0729	508627	3
<i>Liquid Scint Fe55, Solid-HTD2, ALL2 (CT)</i>													
Iron-55	U	-0.913	+/-1.33	0.921	+/-1.33	1.86	pCi/g		JS1	03/19/06	1849	512718	4
<i>Liquid Scint Ni63, Solid-HTD2, ALL2 (CT)</i>													
Nickel-63	U	-0.768	+/-1.12	0.951	+/-1.12	1.93	pCi/g		SLN1	03/14/06	1720	508731	6
Solid Preparation													
<i>Laboratory Composite – CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID:	3100-0000-203-C1C-01	Project:	YANK01204
Sample ID:	157164070	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	07-FEB-06		
Receive Date:	02-MAR-06		
Collector:	Client		
Moisture:	6.23%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec Am241, Cm, Solid-TRU2,ALL2 (CT)</i>													
Americium-241	U	0.00234	+/-0.0076	0.00	+/-0.00761	0.0174	pCi/g		BJB1	03/10/06	1319	508575	1
Curium-242	U	0.00735	+/-0.0144	0.00	+/-0.0144	0.0199	pCi/g						
Curium-243/244	U	0.00	+/-0.0126	0.00	+/-0.0126	0.0175	pCi/g						
<i>Alphaspec Pu, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-238	U	0.00406	+/-0.0108	0.00609	+/-0.0108	0.0266	pCi/g		BJB1	03/11/06	0934	508578	2
Plutonium-239/240	U	-0.00128	+/-0.00251	0.00608	+/-0.00251	0.0266	pCi/g						
<i>Liquid Scint Pu241, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-241	U	0.896	+/-1.44	1.19	+/-1.44	2.42	pCi/g		BJB1	03/16/06	1641	508580	3
Rad Gamma Spec Analysis													
<i>Gammасpec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.550	+/-0.162	0.0528	+/-0.159	0.114	pCi/g		MJH1	03/15/06	2236	509664	4
Americium-241	U	-0.0255	+/-0.0797	0.062	+/-0.0781	0.128	pCi/g						
Bismuth-212		0.477	+/-0.266	0.115	+/-0.261	0.247	pCi/g						
Bismuth-214		0.507	+/-0.0865	0.0241	+/-0.0847	0.0518	pCi/g						
Cesium-134	UUI	0.00	+/-0.030	0.0203	+/-0.0294	0.0431	pCi/g						
Cesium-137	U	0.0287	+/-0.027	0.016	+/-0.0264	0.034	pCi/g						
Cobalt-60		0.245	+/-0.0497	0.0163	+/-0.0487	0.0358	pCi/g						
Europium-152	U	-0.0128	+/-0.0495	0.041	+/-0.0485	0.0861	pCi/g						
Europium-154	U	0.0206	+/-0.0569	0.0499	+/-0.0557	0.109	pCi/g						
Europium-155	U	0.0337	+/-0.0465	0.0439	+/-0.0455	0.0907	pCi/g						
Lead-212		0.503	+/-0.0513	0.0248	+/-0.0503	0.0514	pCi/g						
Lead-214		0.513	+/-0.0761	0.0301	+/-0.0745	0.0631	pCi/g						
Manganese-54	U	0.00789	+/-0.0194	0.0168	+/-0.019	0.0358	pCi/g						
Niobium-94	U	-0.00114	+/-0.0173	0.0146	+/-0.0169	0.031	pCi/g						
Potassium-40		7.34	+/-0.696	0.157	+/-0.683	0.347	pCi/g						
Radium-226		0.507	+/-0.0865	0.0241	+/-0.0847	0.0518	pCi/g						
Silver-108m	U	0.00209	+/-0.0168	0.014	+/-0.0164	0.0295	pCi/g						
Thallium-208		0.147	+/-0.0379	0.0166	+/-0.0371	0.035	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	0.00694	+/-0.0125	0.0126	+/-0.0125	0.0283	pCi/g		BXF1	03/10/06	1843	508562	5
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium	U	2.52	+/-1.71	1.35	+/-1.71	2.79	pCi/g		CHS1	03/10/06	0816	508627	6

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-203-C1C-01 Project: YANK01204
Sample ID: 157164070 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Liquid Scintillation Analysis													
<i>Liquid Scint C14, Solid-HTD2,ALL2 (CT)</i>													
Carbon-14	U	-0.168	+/-0.286	0.244	+/-0.286	0.497	pCi/g		MXPI	03/08/06	2358	508737	7
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	0.588	+/-1.52	1.04	+/-1.52	2.12	pCi/g		JSI	03/19/06	2053	512718	8
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	-0.912	+/-1.26	1.07	+/-1.26	2.18	pCi/g		SLNI	03/14/06	1924	508731	10
<i>Liquid Scint Tc99, Solid-HTD2,ALL2 (CT)</i>													
Technetium-99	U	-0.0205	+/-0.344	0.289	+/-0.344	0.592	pCi/g		SLNI	03/14/06	0317	508572	11

Solid Preparation

Laboratory Composite – CONCRETE

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	AXP2	03/06/06	2053	508405
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1703	508403
GL-RAD-A-026	Laboratory sample composite				508389

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, Am-05-RC Modified
2	DOE EML HASL-300, Pu-11-RC Modified
3	DOE EML HASL-300, Pu-11-RC Modified
4	EML HASL 300, 4.5.2.3
5	EPA 905.0 Modified
6	EPA 906.0 Modified
7	EPA EERF C-01 Modified
8	DOE RESL Fe-1, Modified
9	DOE RESL Fe-1, Modified
10	DOE RESL Ni-1, Modified
11	DOE EML HASL-300, Tc-02-RC Modified
12	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Americium-243	Alphaspec Am241, Cm, Solid-TR1	90	(15%-125%)

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

: East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-203-C1C-01
Sample ID: 157164070

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Plutonium-242		Alphaspec Pu, Solid-TRU2,ALL2			98		(15%-125%)						
Carrier/Tracer Recovery		Liquid Scint Pu241, Solid-TRU2, /			90		(25%-125%)						
Carrier/Tracer Recovery		GFPC, Sr90, solid Quick TAT			95		(25%-125%)						
Carrier/Tracer Recovery		Liquid Scint Fe55, Solid-HTD2,AI			72		(15%-125%)						
Carrier/Tracer Recovery		Liquid Scint Ni63, Solid-HTD2,AI			69		(25%-125%)						
Carrier/Tracer Recovery		Liquid Scint Tc99, Solid-HTD2,AI			67		(15%-125%)						

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID:	3100-0000-203-C1C-02	Project:	YANK01204
Sample ID:	157164071	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	07-FEB-06		
Receive Date:	02-MAR-06		
Collector:	Client		
Moisture:	6.41%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec Am241, Cm, Solid-TRU2,ALL2 (CT)</i>													
Americium-241	U	0.000917	+/-0.00428	0.00	+/-0.00429	0.0141	pCi/g		BJB1	03/10/06	1319	508575	1
Curium-242	U	0.00596	+/-0.0117	0.00	+/-0.0117	0.0161	pCi/g						
Curium-243/244	U	0.00522	+/-0.0102	0.00	+/-0.0103	0.0142	pCi/g						
<i>Alphaspec Pu, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-238	U	0.00446	+/-0.0118	0.00669	+/-0.0118	0.0293	pCi/g		BJB1	03/11/06	0934	508578	2
Plutonium-239/240	U	0.00446	+/-0.0118	0.00668	+/-0.0118	0.0292	pCi/g						
<i>Liquid Scint Pu241, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-241	U	1.18	+/-1.54	1.27	+/-1.54	2.59	pCi/g		BJB1	03/16/06	1743	508580	3
Rad Gamma Spec Analysis													
<i>Gammastec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.455	+/-0.151	0.0547	+/-0.148	0.117	pCi/g		MJH1	03/15/06	2237	509664	4
Americium-241	U	-0.00452	+/-0.104	0.0814	+/-0.102	0.168	pCi/g						
Bismuth-212		0.530	+/-0.251	0.113	+/-0.246	0.243	pCi/g						
Bismuth-214		0.571	+/-0.084	0.0325	+/-0.0823	0.0686	pCi/g						
Cesium-134	U	0.0295	+/-0.0219	0.0203	+/-0.0215	0.043	pCi/g						
Cesium-137		0.0372	+/-0.0211	0.016	+/-0.0207	0.034	pCi/g						
Cobalt-60	U	0.00301	+/-0.0296	0.0169	+/-0.029	0.0367	pCi/g						
Europium-152	U	0.0164	+/-0.059	0.0449	+/-0.0579	0.094	pCi/g						
Europium-154	U	-0.0197	+/-0.0567	0.0459	+/-0.0556	0.100	pCi/g						
Europium-155	U	0.0932	+/-0.0797	0.0534	+/-0.0781	0.110	pCi/g						
Lead-212		0.622	+/-0.0589	0.0293	+/-0.0577	0.0605	pCi/g						
Lead-214		0.606	+/-0.0801	0.0312	+/-0.0785	0.0654	pCi/g						
Manganese-54	U	0.00432	+/-0.0215	0.0183	+/-0.0211	0.0388	pCi/g						
Niobium-94	U	-0.00916	+/-0.0173	0.0141	+/-0.017	0.030	pCi/g						
Potassium-40		8.09	+/-0.641	0.124	+/-0.628	0.278	pCi/g						
Radium-226		0.571	+/-0.084	0.0325	+/-0.0823	0.0686	pCi/g						
Silver-108m	U	-0.00669	+/-0.0178	0.0145	+/-0.0175	0.0305	pCi/g						
Thallium-208		0.174	+/-0.0413	0.0184	+/-0.0405	0.0387	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	-0.0149	+/-0.0162	0.0213	+/-0.0162	0.0474	pCi/g		BXF1	03/08/06	2044	508562	5
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium	U	-0.224	+/-1.54	1.30	+/-1.54	2.69	pCi/g		CHS1	03/10/06	0903	508627	6

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-203-C1C-02 Project: YANK01204
Sample ID: 157164071 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Liquid Scintillation Analysis													
<i>Liquid Scint C14, Solid-HTD2,ALL2 (CT)</i>													
Carbon-14	U	0.0512	+/-0.281	0.235	+/-0.281	0.478	pCi/g		MXP1	03/09/06	0100	508737	7
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	-0.728	+/-1.61	1.12	+/-1.61	2.27	pCi/g		JS1	03/19/06	2257	512718	8
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	-1.17	+/-1.21	1.03	+/-1.21	2.10	pCi/g		SLN1	03/14/06	2128	508731	10
<i>Liquid Scint Tc99, Solid-HTD2,ALL2 (CT)</i>													
Technetium-99	U	0.0388	+/-0.277	0.232	+/-0.277	0.474	pCi/g		SLN1	03/14/06	0349	508572	11

Solid Preparation

Laboratory Composite – CONCRETE

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	AXP2	03/06/06	2053	508405
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1703	508403
GL-RAD-A-026	Laboratory sample composite				508389

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, Am-05-RC Modified
2	DOE EML HASL-300, Pu-11-RC Modified
3	DOE EML HASL-300, Pu-11-RC Modified
4	EML HASL 300, 4.5.2.3
5	EPA 905.0 Modified
6	EPA 906.0 Modified
7	EPA EERF C-01 Modified
8	DOE RESL Fe-1, Modified
9	DOE RESL Fe-1, Modified
10	DOE RESL Ni-1, Modified
11	DOE EML HASL-300, Tc-02-RC Modified
12	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Americium-243	Alphaspec Am241, Cm, Solid-TR1	102	(15%-125%)

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-203-C1C-02
Sample ID: 157164071
Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Plutonium-242		Alphaspec Pu, Solid-TRU2,ALL2			93		(15%-125%)						
Carrier/Tracer Recovery		Liquid Scint Pu241, Solid-TRU2, /			80		(25%-125%)						
Carrier/Tracer Recovery		GFPC, Sr90, solid Quick TAT			92		(25%-125%)						
Carrier/Tracer Recovery		Liquid Scint Fe55, Solid-HTD2,A)			75		(15%-125%)						
Carrier/Tracer Recovery		Liquid Scint Ni63, Solid-HTD2,A)			72		(25%-125%)						
Carrier/Tracer Recovery		Liquid Scint Tc99, Solid-HTD2,A)			85		(15%-125%)						

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID:	3100-0000-203-C1C-03	Project:	YANK01204
Sample ID:	157164072	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	07-FEB-06		
Receive Date:	02-MAR-06		
Collector:	Client		
Moisture:	7.44%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>Gammascpec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.501	+/-0.146	0.0464	+/-0.143	0.0999	pCi/g		MJH1	03/15/06	2237	509664	1
Americium-241	U	0.0269	+/-0.0833	0.0774	+/-0.0817	0.160	pCi/g						
Bismuth-212		0.396	+/-0.224	0.110	+/-0.219	0.234	pCi/g						
Bismuth-214		0.509	+/-0.0857	0.023	+/-0.084	0.0489	pCi/g						
Cesium-134	UUI	0.00	+/-0.0307	0.0181	+/-0.0301	0.0384	pCi/g						
Cesium-137	U	0.0129	+/-0.0249	0.0143	+/-0.0244	0.0303	pCi/g						
Cobalt-60		0.0786	+/-0.0314	0.0153	+/-0.0308	0.0334	pCi/g						
Europium-152	U	-0.0247	+/-0.0395	0.0336	+/-0.0387	0.0706	pCi/g						
Europium-154	U	0.002	+/-0.0488	0.0409	+/-0.0479	0.0892	pCi/g						
Europium-155	U	-0.0171	+/-0.0428	0.0375	+/-0.042	0.0776	pCi/g						
Lead-212		0.436	+/-0.0563	0.021	+/-0.0552	0.0436	pCi/g						
Lead-214		0.552	+/-0.0845	0.023	+/-0.0828	0.0484	pCi/g						
Manganese-54	UUI	0.00	+/-0.0216	0.00846	+/-0.0212	0.0189	pCi/g						
Niobium-94	U	-0.00516	+/-0.0144	0.0116	+/-0.0141	0.0247	pCi/g						
Potassium-40		8.56	+/-0.860	0.112	+/-0.843	0.251	pCi/g						
Radium-226		0.509	+/-0.0857	0.023	+/-0.084	0.0489	pCi/g						
Silver-108m	U	0.00821	+/-0.0136	0.0123	+/-0.0134	0.0258	pCi/g						
Thallium-208		0.135	+/-0.0319	0.0141	+/-0.0312	0.0297	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	0.0682	+/-0.0419	0.036	+/-0.0419	0.079	pCi/g		BXF1	03/08/06	2045	508562	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium	U	-0.256	+/-1.57	1.32	+/-1.57	2.73	pCi/g		CHS1	03/10/06	0950	508627	3
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	0.319	+/-1.74	1.22	+/-1.74	2.47	pCi/g		JS1	03/20/06	0338	512718	4
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	-1.02	+/-2.25	2.44	+/-2.25	5.03	pCi/g		SLN1	03/15/06	1243	508731	6
Solid Preparation													
<i>Laboratory Composite – CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-203-C1C-03 Project: YANK01204
Sample ID: 157164072 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	AXP2	03/06/06	2053	508405
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1703	508403
GL-RAD-A-026	Laboratory sample composite				508389

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	DOE RESL Fe-1, Modified
5	DOE RESL Fe-1, Modified
6	DOE RESL Ni-1, Modified
7	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	39	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,A)	63	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,A)	62	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
- BD Results below the MDC or low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value.
- U Target analyte was analyzed for but not detected above the MDL or LOD.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
- d The 2:1 depletion requirement was not met for this sample
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

: East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-203-C1C-04
Sample ID: 157164073
Matrix: CT
Collect Date: 07-FEB-06
Receive Date: 02-MAR-06
Collector: Client
Moisture: 6.41%

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>Gammascpec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.371	+/-0.133	0.0483	+/-0.131	0.103	pCi/g		MJH1	03/15/06	2238	509664	1
Americium-241	U	-0.0813	+/-0.112	0.0616	+/-0.110	0.127	pCi/g						
Bismuth-212		0.333	+/-0.208	0.107	+/-0.204	0.227	pCi/g						
Bismuth-214		0.435	+/-0.0735	0.0237	+/-0.0721	0.0502	pCi/g						
Cesium-134	U	0.0293	+/-0.0188	0.0174	+/-0.0184	0.0367	pCi/g						
Cesium-137	U	0.0231	+/-0.0165	0.0153	+/-0.0162	0.0322	pCi/g						
Cobalt-60		0.0551	+/-0.0268	0.0136	+/-0.0262	0.0297	pCi/g						
Europium-152	U	-0.0235	+/-0.0451	0.0334	+/-0.0442	0.0698	pCi/g						
Europium-154	U	0.0481	+/-0.118	0.0475	+/-0.115	0.102	pCi/g						
Europium-155	U	0.0353	+/-0.0342	0.0379	+/-0.0335	0.0781	pCi/g						
Lead-212		0.397	+/-0.0582	0.0207	+/-0.0571	0.0429	pCi/g						
Lead-214		0.485	+/-0.085	0.0252	+/-0.0833	0.0525	pCi/g						
Manganese-54	U-0.000799		+/-0.0169	0.014	+/-0.0165	0.0297	pCi/g						
Niobium-94	U	0.000589	+/-0.0144	0.0122	+/-0.0141	0.0258	pCi/g						
Potassium-40		7.89	+/-0.856	0.129	+/-0.839	0.284	pCi/g						
Radium-226		0.435	+/-0.0735	0.0237	+/-0.0721	0.0502	pCi/g						
Silver-108m	U	0.0088	+/-0.0128	0.0116	+/-0.0125	0.0244	pCi/g						
Thallium-208		0.134	+/-0.0347	0.0138	+/-0.034	0.0291	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	0.0162	+/-0.0217	0.0207	+/-0.0217	0.047	pCi/g		BXFI	03/08/06	2045	508562	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium	U	0.864	+/-1.58	1.29	+/-1.58	2.67	pCi/g		CHSI	03/10/06	1037	508627	3
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	0.418	+/-1.75	1.21	+/-1.75	2.46	pCi/g		JS1	03/20/06	0542	512718	4
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	-0.728	+/-2.10	2.26	+/-2.10	4.67	pCi/g		SLN1	03/15/06	1314	508731	6
Solid Preparation													
<i>Laboratory Composite – CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-203-C1C-04 Project: YANK01204
Sample ID: 157164073 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	AXP2	03/06/06	2053	508405
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1703	508403
GL-RAD-A-026	Laboratory sample composite				508389

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	DOE RESL Fe-1, Modified
5	DOE RESL Fe-1, Modified
6	DOE RESL Ni-1, Modified
7	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	78	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,A)	70	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,A)	67	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-203-C4C-01
Sample ID: 157164074
Matrix: CT
Collect Date: 07-FEB-06
Receive Date: 02-MAR-06
Collector: Client
Moisture: 6.65%

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>Gammascpec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.401	+/-0.182	0.0676	+/-0.178	0.143	pCi/g		MJH1	03/15/06	2238	509664	1
Americium-241	U	0.0208	+/-0.0303	0.0287	+/-0.0297	0.0587	pCi/g						
Bismuth-212	U	0.159	+/-0.286	0.173	+/-0.281	0.362	pCi/g						
Bismuth-214		0.515	+/-0.0948	0.0374	+/-0.0929	0.0782	pCi/g						
Cesium-134	U	0.0366	+/-0.029	0.0238	+/-0.0284	0.0499	pCi/g						
Cesium-137	U	0.00739	+/-0.0241	0.0212	+/-0.0236	0.0444	pCi/g						
Cobalt-60	U	0.0186	+/-0.0256	0.0228	+/-0.0251	0.0485	pCi/g						
Europium-152	U	0.00796	+/-0.0567	0.0498	+/-0.0556	0.103	pCi/g						
Europium-154	U	0.000995	+/-0.072	0.0608	+/-0.0706	0.130	pCi/g						
Europium-155	U	0.0265	+/-0.0747	0.045	+/-0.0732	0.0925	pCi/g						
Lead-212		0.527	+/-0.0535	0.0257	+/-0.0524	0.0531	pCi/g						
Lead-214		0.506	+/-0.0798	0.0336	+/-0.0782	0.0698	pCi/g						
Manganese-54	U	-0.0198	+/-0.0257	0.0206	+/-0.0252	0.0434	pCi/g						
Niobium-94	U	0.00261	+/-0.0208	0.018	+/-0.0204	0.0378	pCi/g						
Potassium-40		8.22	+/-0.817	0.164	+/-0.801	0.357	pCi/g						
Radium-226		0.515	+/-0.0948	0.0374	+/-0.0929	0.0782	pCi/g						
Silver-108m	U-0.000446		+/-0.0198	0.0169	+/-0.0194	0.0352	pCi/g						
Thallium-208		0.201	+/-0.0487	0.0195	+/-0.0477	0.0408	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U-0.000502		+/-0.0199	0.0225	+/-0.0199	0.050	pCi/g		BXF1	03/08/06	2045	508562	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium	U	-0.349	+/-1.53	1.30	+/-1.53	2.68	pCi/g		CHS1	03/10/06	1124	508627	3
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	0.748	+/-1.78	1.23	+/-1.78	2.48	pCi/g		JS1	03/20/06	0745	512718	4
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	-1.86	+/-2.03	2.25	+/-2.03	4.64	pCi/g		SLN1	03/15/06	1346	508731	6
Solid Preparation													
<i>Laboratory Composite – CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-203-C4C-01 Project: YANK01204
Sample ID: 157164074 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	AXP2	03/06/06	2053	508405
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1703	508403
GL-RAD-A-026	Laboratory sample composite				508389

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	DOE RESL Fe-1, Modified
5	DOE RESL Fe-1, Modified
6	DOE RESL Ni-1, Modified
7	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	81	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,AI	74	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,AI	67	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID:	3100-0000-203-C6C-01	Project:	YANK01204
Sample ID:	157164075	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	07-FEB-06		
Receive Date:	02-MAR-06		
Collector:	Client		
Moisture:	7%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>GammaSpec, Gamma, GAM2, ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.529	+/-0.189	0.0638	+/-0.186	0.137	pCi/g		MJH1	03/15/06	2239	509664	1
Americium-241	U	0.0181	+/-0.0269	0.0254	+/-0.0263	0.0521	pCi/g						
Bismuth-212	U	0.255	+/-0.268	0.147	+/-0.263	0.314	pCi/g						
Bismuth-214		0.582	+/-0.110	0.030	+/-0.108	0.0639	pCi/g						
Cesium-134	U	0.0254	+/-0.0258	0.023	+/-0.0253	0.0488	pCi/g						
Cesium-137	U	0.0168	+/-0.0239	0.0189	+/-0.0235	0.0402	pCi/g						
Cobalt-60		0.0541	+/-0.0443	0.023	+/-0.0434	0.0497	pCi/g						
Europium-152	U	0.00304	+/-0.0468	0.0416	+/-0.0459	0.0873	pCi/g						
Europium-154	U	0.00914	+/-0.0612	0.0519	+/-0.0599	0.114	pCi/g						
Europium-155	U	0.0249	+/-0.0433	0.0396	+/-0.0424	0.0818	pCi/g						
Lead-212		0.487	+/-0.0701	0.0233	+/-0.0687	0.0485	pCi/g						
Lead-214		0.512	+/-0.0908	0.031	+/-0.089	0.0649	pCi/g						
Manganese-54	U	0.0165	+/-0.0228	0.0199	+/-0.0224	0.0425	pCi/g						
Niobium-94	U	-0.000671	+/-0.0194	0.0161	+/-0.019	0.0343	pCi/g						
Potassium-40		8.38	+/-0.870	0.107	+/-0.853	0.252	pCi/g						
Radium-226		0.582	+/-0.110	0.030	+/-0.108	0.0639	pCi/g						
Silver-108m	U	-0.0147	+/-0.0186	0.0154	+/-0.0182	0.0323	pCi/g						
Thallium-208		0.157	+/-0.0436	0.0173	+/-0.0428	0.0367	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	-0.00527	+/-0.0232	0.0273	+/-0.0232	0.0615	pCi/g		BXFI	03/08/06	2045	508562	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2, ALL2 (CT)</i>													
Tritium	U	-0.187	+/-1.47	1.24	+/-1.47	2.56	pCi/g		CHSI	03/10/06	1211	508627	3
<i>Liquid Scint Fe55, Solid-HTD2, ALL2 (CT)</i>													
Iron-55	U	-0.382	+/-1.55	1.12	+/-1.55	2.27	pCi/g		JS1	03/20/06	1036	512718	4
<i>Liquid Scint Ni63, Solid-HTD2, ALL2 (CT)</i>													
Nickel-63	U	-1.92	+/-1.92	2.14	+/-1.92	4.41	pCi/g		SLN1	03/15/06	1418	508731	6
Solid Preparation													
<i>Laboratory Composite – CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: March 27, 2006

Client Sample ID: 3100-0000-203-C6C-01 Project: YANK01204
Sample ID: 157164075 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	AXP2	03/06/06	2053	508405
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	AXP2	03/02/06	1703	508403
GL-RAD-A-026	Laboratory sample composite				508389

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	DOE RESL Fe-1, Modified
5	DOE RESL Fe-1, Modified
6	DOE RESL Ni-1, Modified
7	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	66	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,A)	44	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,A)	70	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

QUALITY CONTROL DATA

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: March 27, 2006
Page 1 of 33

Client : Connecticut Yankee Atomic Power
362 Injun Hollow Rd

Contact: East Hampton, Connecticut
Mr. Jack McCarthy

Workorder: 157164

Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Alpha Spec											
Batch	508564										
QC1201043940	157164001	DUP									
Americium-241		U	0.00718	U	-0.0102	pCi/g	1150	(0% - 100%)	_CW1	03/10/06	09:32
		Uncert:	+/-0.0186		+/-0.0131						
		TPU:	+/-0.0187		+/-0.0131						
Curium-242		U	0.00648	U	-0.00481	pCi/g	1350	(0% - 100%)			
		Uncert:	+/-0.0172		+/-0.00544						
		TPU:	+/-0.0172		+/-0.00548						
Curium-243/244		U	0.00493	U	-0.0101	pCi/g	581	(0% - 100%)			
		Uncert:	+/-0.0331		+/-0.00751						
		TPU:	+/-0.0331		+/-0.00762						
QC1201043942	LCS										
Americium-241	2.48				2.52	pCi/g		102 (75%-125%)			
	Uncert:				+/-0.318						
	TPU:				+/-0.499						
Curium-242				U	0.0105	pCi/g					
	Uncert:				+/-0.0206						
	TPU:				+/-0.0207						
Curium-243/244	2.21				2.19	pCi/g		99 (75%-125%)			
	Uncert:				+/-0.299						
	TPU:				+/-0.449						
QC1201043939	MB										
Americium-241				U	0.00983	pCi/g				03/10/06	09:05
	Uncert:				+/-0.0149						
	TPU:				+/-0.0149						
Curium-242				U	0.00391	pCi/g					
	Uncert:				+/-0.0104						
	TPU:				+/-0.0104						
Curium-243/244				U	-0.00244	pCi/g					
	Uncert:				+/-0.00338						
	TPU:				+/-0.00339						
QC1201043941	157164001	MS									
Americium-241	2.62	U	0.00718		2.34	pCi/g		89 (75%-125%)		03/10/06	09:32
	Uncert:		+/-0.0186		+/-0.217						
	TPU:		+/-0.0187		+/-0.354						
Curium-242		U	0.00648	U	0.000229	pCi/g					
	Uncert:		+/-0.0172		+/-0.0124						
	TPU:		+/-0.0172		+/-0.0124						
Curium-243/244	2.33	U	0.00493		2.33	pCi/g		100 (75%-125%)			
	Uncert:		+/-0.0331		+/-0.217						
	TPU:		+/-0.0331		+/-0.353						
Batch	508566										
QC1201043953	157164001	DUP									
Plutonium-238		U	-0.00176	U	0.00338	pCi/g	635	(0% - 100%)	_CW1	03/10/06	11:27

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 157164

Page 2 of 33

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Alpha Spec											
Batch	508566										
Plutonium-239/240		Uncert:	+/-0.0196	+/-0.0134							
		TPU:	+/-0.0196	+/-0.0134							
		U	0.0134	U	-0.00312	pCi/g	321	(0% - 100%)			
		Uncert:	+/-0.025	+/-0.0134							
		TPU:	+/-0.0251	+/-0.0134							
QC1201043955	LCS										
Plutonium-238				U	0.0039	pCi/g		(75%-125%)			
		Uncert:			+/-0.0103						
		TPU:			+/-0.0104						
Plutonium-239/240	2.29				2.15	pCi/g	94	(75%-125%)			
		Uncert:			+/-0.206						
		TPU:			+/-0.288						
QC1201043952	MB										
Plutonium-238				U	-0.00243	pCi/g					
		Uncert:			+/-0.0126						
		TPU:			+/-0.0126						
Plutonium-239/240				U	-0.00398	pCi/g					
		Uncert:			+/-0.0045						
		TPU:			+/-0.00452						
QC1201043954	157164001	MS									
Plutonium-238		U	-0.00176	U	0.00034	pCi/g		(75%-125%)			
		Uncert:	+/-0.0196		+/-0.0185						
		TPU:	+/-0.0196		+/-0.0185						
Plutonium-239/240	2.42	U	0.0134		2.39	pCi/g	99	(75%-125%)			
		Uncert:	+/-0.025		+/-0.281						
		TPU:	+/-0.0251		+/-0.384						
Batch	508569										
QC1201043957	157164001	DUP									
Plutonium-241		U	0.829	U	0.491	pCi/g	0	(0% - 100%)	LCW1	03/17/06	23:10
		Uncert:	+/-1.52		+/-1.76						
		TPU:	+/-1.52		+/-1.76						
QC1201043959	LCS										
Plutonium-241	44.9				40.9	pCi/g	91	(75%-125%)		03/16/06	07:30
		Uncert:			+/-4.09						
		TPU:			+/-5.63						
QC1201043956	MB										
Plutonium-241				U	-0.419	pCi/g				03/17/06	22:23
		Uncert:			+/-2.38						
		TPU:			+/-2.38						
QC1201043958	157164001	MS									
Plutonium-241	46.6	U	0.829		40.2	pCi/g	86	(75%-125%)		03/16/06	07:14
		Uncert:	+/-1.52		+/-4.22						
		TPU:	+/-1.52		+/-5.62						
Batch	508575										
QC1201043975	157164045	DUP									
Americium-241		U	0.0164	U	-9.520E-05	pCi/g	202	(0% - 100%)	BJB1	03/10/06	13:19
		Uncert:	+/-0.0255		+/-0.00572						
		TPU:	+/-0.0256		+/-0.00572						
Curium-242		U	0.00	U	-0.00438	pCi/g	200	(0% - 100%)			

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 157164

Page 3 of 33

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Alpha Spec											
Batch	508575										
Curium-243/244		Uncert:	+/-0.0227	+/-0.00496							
		TPU:	+/-0.0227	+/-0.005							
	U		0.00787	U 0.00839	pCi/g	6		(0% - 100%)			
		Uncert:	+/-0.0209	+/-0.0157							
		TPU:	+/-0.0209	+/-0.0158							
QC1201043977	LCS										
Americium-241	2.27			2.06	pCi/g		91	(75%-125%)			
		Uncert:		+/-0.200							
		TPU:		+/-0.347							
Curium-242				U 0.00512	pCi/g						
		Uncert:		+/-0.010							
		TPU:		+/-0.0101							
Curium-243/244	2.02			1.92	pCi/g		95	(75%-125%)			
		Uncert:		+/-0.193							
		TPU:		+/-0.328							
QC1201043974	MB										
Americium-241				U -0.00383	pCi/g						
		Uncert:		+/-0.00923							
		TPU:		+/-0.00925							
Curium-242				U 0.00476	pCi/g						
		Uncert:		+/-0.00933							
		TPU:		+/-0.00935							
Curium-243/244				U 0.00358	pCi/g						
		Uncert:		+/-0.00949							
		TPU:		+/-0.0095							
QC1201043976	157164045	MS									
Americium-241	2.56	U	0.0164	2.40	pCi/g		94	(75%-125%)			
		Uncert:	+/-0.0255	+/-0.212							
		TPU:	+/-0.0256	+/-0.382							
Curium-242		U	0.00	U 0.00	pCi/g						
		Uncert:	+/-0.0227	+/-0.0105							
		TPU:	+/-0.0227	+/-0.0105							
Curium-243/244	2.28	U	0.00787	2.14	pCi/g		94	(75%-125%)			
		Uncert:	+/-0.0209	+/-0.200							
		TPU:	+/-0.0209	+/-0.348							
Batch	508578										
QC1201043979	157164045	DUP									
Plutonium-238		U	0.00	U -0.00305	pCi/g	200		(0% - 100%)	BJB1	03/11/06	09:34
		Uncert:	+/-0.0124	+/-0.0132							
		TPU:	+/-0.0124	+/-0.0132							
Plutonium-239/240		U	-0.00151	U -0.00305	pCi/g	68		(0% - 100%)			
		Uncert:	+/-0.0127	+/-0.0132							
		TPU:	+/-0.0127	+/-0.0132							
QC1201043981	LCS										
Plutonium-238				U -0.00119	pCi/g			(75%-125%)			
		Uncert:		+/-0.010							
		TPU:		+/-0.010							
Plutonium-239/240	2.10			1.91	pCi/g		91	(75%-125%)			
		Uncert:		+/-0.191							

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 157164

Page 4 of 33

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Alpha Spec											
Batch	508578										
QC1201043978	MB	TPU:		+/-0.264							
Plutonium-238			U	-0.00829	pCi/g						
		Uncert:		+/-0.00663							
		TPU:		+/-0.00668							
Plutonium-239/240			U	-0.00414	pCi/g						
		Uncert:		+/-0.00469							
		TPU:		+/-0.00471							
QC1201043980	157164045	MS									
Plutonium-238		U	0.00	U	0.0224	pCi/g		(75%-125%)			
		Uncert:		+/-0.0124	+/-0.0248						
		TPU:		+/-0.0124	+/-0.0249						
Plutonium-239/240		2.37	U	-0.00151	2.32	pCi/g	98	(75%-125%)			
		Uncert:		+/-0.0127	+/-0.223						
		TPU:		+/-0.0127	+/-0.313						
Batch	508580										
QC1201043983	157164045	DUP									
Plutonium-241		U	0.541	U	1.65	pCi/g	0	(0% - 100%)	BJB1	03/16/06	21:53
		Uncert:		+/-1.54	+/-2.54						
		TPU:		+/-1.54	+/-2.55						
QC1201043985	LCS										
Plutonium-241		44.4			35.2	pCi/g	79	(75%-125%)	03/17/06 00:10		
		Uncert:			+/-3.53						
		TPU:			+/-4.74						
QC1201043982	MB										
Plutonium-241				U	0.450	pCi/g			03/16/06 18:45		
		Uncert:			+/-1.23						
		TPU:			+/-1.23						
QC1201043984	157164045	MS									
Plutonium-241		45.2	U	0.541	65.0	pCi/g	144*	(75%-125%)	03/21/06 12:40		
		Uncert:		+/-1.54	+/-7.50						
		TPU:		+/-1.54	+/-10.9						
Batch	509106										
QC1201045222	157164005	DUP									
Americium-241		U	-0.00459	U	-0.0169	pCi/g	115	(0% - 100%)	DDR1	03/10/06	13:19
		Uncert:		+/-0.018	+/-0.0128						
		TPU:		+/-0.0181	+/-0.013						
Curium-242		U	0.00	U	0.00204	pCi/g	488	(0% - 100%)			
		Uncert:		+/-0.0202	+/-0.0155						
		TPU:		+/-0.0202	+/-0.0155						
Curium-243/244		U	-0.00221	U	-0.014	pCi/g	145	(0% - 100%)			
		Uncert:		+/-0.0186	+/-0.0171						
		TPU:		+/-0.0186	+/-0.0171						
QC1201045224	LCS										
Americium-241		2.72			2.29	pCi/g	84	(75%-125%)	03/10/06 13:40		
		Uncert:			+/-0.236						
		TPU:			+/-0.371						
Curium-242				U	0.00178	pCi/g					
		Uncert:			+/-0.0135						

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 157164

Page 5 of 33

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Alpha Spec											
Batch	509106										
Curium-243/244	2.42	TPU:		+/-0.0135							
		Uncert:		1.95	pCi/g		81	(75%-125%)			
		TPU:		+/-0.218							
				+/-0.327							
QC1201045221	MB										
Americium-241			U	0.0143	pCi/g					03/12/06	08:11
		Uncert:		+/-0.0207							
		TPU:		+/-0.0208							
Curium-242			U	-0.00167	pCi/g						
		Uncert:		+/-0.0141							
		TPU:		+/-0.0141							
Curium-243/244			U	0.00356	pCi/g						
		Uncert:		+/-0.0142							
		TPU:		+/-0.0142							
QC1201045223	157164005 MS										
Americium-241	2.72	U	-0.00459	2.17	pCi/g		80	(75%-125%)		03/10/06	13:19
		Uncert:	+/-0.018	+/-0.263							
		TPU:	+/-0.0181	+/-0.395							
Curium-242		U	0.00	0.00724	pCi/g						
		Uncert:	+/-0.0202	+/-0.0268							
		TPU:	+/-0.0202	+/-0.0268							
Curium-243/244	2.43	U	-0.00221	1.85	pCi/g		76	(75%-125%)			
		Uncert:	+/-0.0186	+/-0.245							
		TPU:	+/-0.0186	+/-0.350							
Batch	509107										
QC1201045226	157164005 DUP										
Plutonium-238		U	0.000615	-0.00987	pCi/g	227		(0% - 100%)	DDR1	03/10/06	23:13
		Uncert:	+/-0.0236	+/-0.0151							
		TPU:	+/-0.0236	+/-0.0151							
Plutonium-239/240		U	0.00399	-0.0116	pCi/g	410		(0% - 100%)			
		Uncert:	+/-0.0159	+/-0.00801							
		TPU:	+/-0.0159	+/-0.00808							
QC1201045228	LCS										
Plutonium-238				-0.00524	pCi/g			(75%-125%)		03/10/06	23:12
		Uncert:		+/-0.0291							
		TPU:		+/-0.0291							
Plutonium-239/240	2.52			2.46	pCi/g		98	(75%-125%)			
		Uncert:		+/-0.249							
		TPU:		+/-0.348							
QC1201045225	MB										
Plutonium-238				-0.00134	pCi/g					03/10/06	23:13
		Uncert:		+/-0.0149							
		TPU:		+/-0.0149							
Plutonium-239/240			U	0.0137	pCi/g						
		Uncert:		+/-0.0236							
		TPU:		+/-0.0237							
QC1201045227	157164005 MS										
Plutonium-238		U	0.000615	0.00402	pCi/g			(75%-125%)			
		Uncert:	+/-0.0236	+/-0.0248							

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 157164

Page 6 of 33

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Alpha Spec										
Batch	509107									
Plutonium-239/240	2.52	U	TPU: +/-0.0236 0.00399							
			Uncert: +/-0.0159				96 (75%-125%)			
			TPU: +/-0.0159							
Batch	509108									
QC1201045230	157164005	DUP								
Plutonium-241		U	0.404	U	-0.988		(0% - 100%)	DDR1	03/17/06	11:13
			Uncert: +/-1.31		+/-1.29					
			TPU: +/-1.31		+/-1.29					
QC1201045232	LCS									
Plutonium-241	27.6				30.6		111 (75%-125%)		03/17/06	12:16
			Uncert: +/-3.01		+/-4.11					
			TPU: +/-4.11							
QC1201045229	MB									
Plutonium-241				U	1.30				03/17/06	10:27
			Uncert: +/-2.20		+/-2.20					
			TPU: +/-2.20							
QC1201045231	157164005	MS								
Plutonium-241	27.7	U	0.404		28.2		102 (75%-125%)		03/17/06	12:00
			Uncert: +/-1.31		+/-3.08					
			TPU: +/-1.31		+/-4.18					
Rad Gamma Spec										
Batch	509629									
QC1201046353	157164005	DUP								
Actinium-228		U	0.0319	U	0.0242		(0% - 100%)	MJH1	03/14/06	15:02
			Uncert: +/-0.0536		+/-0.0544					
			TPU: +/-0.0525		+/-0.0533					
Americium-241		U	-0.00594	U	-0.00457		(0% - 100%)			
			Uncert: +/-0.020		+/-0.00814					
			TPU: +/-0.0196		+/-0.00797					
Bismuth-212		U	-0.0959	U	-0.00365		(0% - 100%)			
			Uncert: +/-0.115		+/-0.0805					
			TPU: +/-0.113		+/-0.0789					
Bismuth-214		U	0.014	U	0.0158		(0% - 100%)			
			Uncert: +/-0.0306		+/-0.0187					
			TPU: +/-0.030		+/-0.0184					
Cesium-134		U	0.0147	U	-0.00665		(0% - 100%)			
			Uncert: +/-0.0102		+/-0.00943					
			TPU: +/-0.010		+/-0.00924					
Cesium-137		U	-0.00609	U	-0.0027		(0% - 100%)			
			Uncert: +/-0.0152		+/-0.008					
			TPU: +/-0.0149		+/-0.00784					
Cobalt-60		U	-0.0141	U	0.0144		(0% - 100%)			
			Uncert: +/-0.0195		+/-0.0104					
			TPU: +/-0.0191		+/-0.0102					
Europium-152		U	0.00146	U	0.00985		(0% - 100%)			
			Uncert: +/-0.0342		+/-0.0207					
			TPU: +/-0.0335		+/-0.0202					

GENERAL ENGINEERING LABORATORIES, LLC
 2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 157164

Page 7 of 33

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec											
Batch	509629										
Europium-154	U	0.00405	U	-0.0146	pCi/g	353		(0% - 100%)			
	Uncert:	+/-0.0393		+/-0.0181							
	TPU:	+/-0.0385		+/-0.0177							
Europium-155	U	0.00677	U	-0.0113	pCi/g	801		(0% - 100%)			
	Uncert:	+/-0.032		+/-0.0152							
	TPU:	+/-0.0313		+/-0.0149							
Lead-212	U	0.00843	U	0.00923	pCi/g	9		(0% - 100%)			
	Uncert:	+/-0.0213		+/-0.0139							
	TPU:	+/-0.0209		+/-0.0136							
Lead-214	U	0.0234	U	0.0168	pCi/g	33		(0% - 100%)			
	Uncert:	+/-0.0303		+/-0.0213							
	TPU:	+/-0.0297		+/-0.0209							
Manganese-54	U	-0.0115	U	0.0017	pCi/g	270		(0% - 100%)			
	Uncert:	+/-0.0155		+/-0.00898							
	TPU:	+/-0.0152		+/-0.0088							
Niobium-94	U	0.00675	U	0.0098	pCi/g	37		(0% - 100%)			
	Uncert:	+/-0.0137		+/-0.00803							
	TPU:	+/-0.0134		+/-0.00787							
Potassium-40	U	0.0671	U	0.0982	pCi/g	38		(0% - 100%)			
	Uncert:	+/-0.130		+/-0.142							
	TPU:	+/-0.128		+/-0.139							
Radium-226	U	0.014	U	0.0158	pCi/g	12		(0% - 100%)			
	Uncert:	+/-0.0306		+/-0.0187							
	TPU:	+/-0.030		+/-0.0184							
Silver-108m	U	-0.00318	U	-0.00324	pCi/g	2		(0% - 100%)			
	Uncert:	+/-0.0132		+/-0.00613							
	TPU:	+/-0.0129		+/-0.00601							
Thallium-208	U	0.000429	U	0.00683	pCi/g	176		(0% - 100%)			
	Uncert:	+/-0.0159		+/-0.0101							
	TPU:	+/-0.0155		+/-0.00988							
QC1201046354	LCS										
Actinium-228			U	-0.0124	pCi/g					03/14/06	15:03
	Uncert:			+/-0.189							
	TPU:			+/-0.185							
Americium-241	4.88			5.01	pCi/g		103	(75%-125%)			
	Uncert:			+/-0.229							
	TPU:			+/-0.224							
Bismuth-212			U	-0.0023	pCi/g						
	Uncert:			+/-0.300							
	TPU:			+/-0.294							
Bismuth-214			U	0.0528	pCi/g						
	Uncert:			+/-0.0725							
	TPU:			+/-0.071							
Cesium-134			U	-0.00264	pCi/g						
	Uncert:			+/-0.0498							
	TPU:			+/-0.0488							
Cesium-137	1.86			1.90	pCi/g		102	(75%-125%)			
	Uncert:			+/-0.154							

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 157164

Page 8 of 33

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec										
Batch	509629									
Cobalt-60	TPU:		+/-0.151							
	2.68		2.66	pCi/g		99	(75%-125%)			
	Uncert:		+/-0.177							
Europium-152	TPU:		+/-0.174							
		U	-0.011	pCi/g						
	Uncert:		+/-0.0902							
Europium-154	TPU:		+/-0.0884							
		U	0.040	pCi/g						
	Uncert:		+/-0.0886							
Europium-155	TPU:		+/-0.0868							
		U	0.00709	pCi/g						
	Uncert:		+/-0.103							
Lead-212	TPU:		+/-0.101							
		U	0.0692	pCi/g						
	Uncert:		+/-0.0725							
Lead-214	TPU:		+/-0.0711							
		U	-0.0226	pCi/g						
	Uncert:		+/-0.0655							
Manganese-54	TPU:		+/-0.0642							
		U	-0.00387	pCi/g						
	Uncert:		+/-0.042							
Niobium-94	TPU:		+/-0.0412							
		U	-0.0182	pCi/g						
	Uncert:		+/-0.0339							
Potassium-40	TPU:		+/-0.0332							
		U	0.179	pCi/g						
	Uncert:		+/-0.314							
Radium-226	TPU:		+/-0.308							
		U	0.0528	pCi/g			(75%-125%)			
	Uncert:		+/-0.0725							
Silver-108m	TPU:		+/-0.071							
		U	-0.00526	pCi/g						
	Uncert:		+/-0.0373							
Thallium-208	TPU:		+/-0.0365							
		U	-0.00458	pCi/g						
	Uncert:		+/-0.0411							
QC1201046352 MB Actinium-228	TPU:		+/-0.0403							
		U	0.019	pCi/g					03/14/06	15:02
	Uncert:		+/-0.0582							
Americium-241	TPU:		+/-0.0571							
		U	-0.00637	pCi/g						
	Uncert:		+/-0.022							
Bismuth-212	TPU:		+/-0.0216							
		U	0.0525	pCi/g						
	Uncert:		+/-0.120							
Bismuth-214	TPU:		+/-0.118							
		U	0.0148	pCi/g						
	Uncert:		+/-0.118							

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 157164

Page 9 of 33

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec										
Batch	509629									
Cesium-134	Uncert:		+/-0.033							
	TPU:		+/-0.0323							
Cesium-137	Uncert:	U	-0.00898	pCi/g						
	TPU:		+/-0.0196							
Cobalt-60	Uncert:	U	0.0076	pCi/g						
	TPU:		+/-0.0161							
Europium-152	Uncert:	U	+/-0.0158	pCi/g						
	TPU:		0.00239							
Europium-154	Uncert:	U	+/-0.0181	pCi/g						
	TPU:		+/-0.0177							
Europium-155	Uncert:	U	-0.0159	pCi/g						
	TPU:		+/-0.0421							
Lead-212	Uncert:	U	+/-0.0413	pCi/g						
	TPU:		-0.0373							
Lead-214	Uncert:	U	+/-0.0433	pCi/g						
	TPU:		+/-0.0425							
Manganese-54	Uncert:	U	0.0141	pCi/g						
	TPU:		+/-0.0349							
Niobium-94	Uncert:	U	+/-0.0342	pCi/g						
	TPU:		0.00781							
Potassium-40	Uncert:	U	+/-0.0217	pCi/g						
	TPU:		+/-0.0212							
Radium-226	Uncert:	U	0.0239	pCi/g						
	TPU:		+/-0.0308							
Silver-108m	Uncert:	U	+/-0.0302	pCi/g						
	TPU:		0.00756							
Thallium-208	Uncert:	U	+/-0.0173	pCi/g						
	TPU:		+/-0.0169							
Actinium-228	Uncert:	U	-0.0153	pCi/g						
	TPU:		+/-0.016							
Batch	Uncert:	U	+/-0.0157	pCi/g						
	TPU:		0.0341							
QC1201046385 157164001 DUP										
Actinium-228		0.513	0.448	pCi/g	14		(0% - 100%) MJH1	03/14/06	19:36	
	Uncert:	+/-0.151	+/-0.225							

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gei.com

QC Summary

Workorder: 157164

Page 10 of 33

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec											
Batch	509660										
Americium-241		TPU:	+/-0.148	+/-0.220							
	U		-0.0174	U	-0.028	pCi/g	47	(0% - 100%)			
		Uncert:	+/-0.103		+/-0.0452						
Bismuth-212		TPU:	+/-0.101		+/-0.0443						
			0.310	U	0.303	pCi/g	2	(0% - 100%)			
		Uncert:	+/-0.281		+/-0.329						
Bismuth-214		TPU:	+/-0.275		+/-0.322						
			0.529		0.410	pCi/g	25	(0% - 100%)			
		Uncert:	+/-0.103		+/-0.129						
Cesium-134		TPU:	+/-0.101		+/-0.126						
	U		0.0381	U	0.00676	pCi/g	140	(0% - 100%)			
		Uncert:	+/-0.0365		+/-0.0386						
Cesium-137		TPU:	+/-0.0358		+/-0.0378						
	U		0.00904	U	0.0306	pCi/g	109	(0% - 100%)			
		Uncert:	+/-0.0249		+/-0.0391						
Cobalt-60		TPU:	+/-0.0244		+/-0.0383						
			0.107	U	0.0627	pCi/g	52	(0% - 100%)			
		Uncert:	+/-0.0469		+/-0.0819						
Europium-152		TPU:	+/-0.0459		+/-0.0803						
	U		0.077	U	-0.0594	pCi/g	1540	(0% - 100%)			
		Uncert:	+/-0.0854		+/-0.0855						
Europium-154		TPU:	+/-0.0837		+/-0.0837						
	U		0.0268	U	-0.0411	pCi/g	947	(0% - 100%)			
		Uncert:	+/-0.0888		+/-0.102						
Europium-155		TPU:	+/-0.0871		+/-0.0995						
	U		-0.00409	U	0.0489	pCi/g	237	(0% - 100%)			
		Uncert:	+/-0.0601		+/-0.0734						
Lead-212		TPU:	+/-0.0589		+/-0.0719						
			0.462		0.371	pCi/g	22	(0% - 100%)			
		Uncert:	+/-0.070		+/-0.0942						
Lead-214		TPU:	+/-0.0686		+/-0.0923						
			0.517		0.474	pCi/g	9				
		Uncert:	+/-0.106		+/-0.114						
Manganese-54		TPU:	+/-0.104		+/-0.112						
	U		0.0221	U	0.000446	pCi/g	192	(0% - 100%)			
		Uncert:	+/-0.0264		+/-0.0362						
Niobium-94		TPU:	+/-0.0259		+/-0.0355						
	U		-0.0168	U	-0.0287	pCi/g	52	(0% - 100%)			
		Uncert:	+/-0.0231		+/-0.0306						
Potassium-40		TPU:	+/-0.0226		+/-0.030						
			7.79		7.99	pCi/g	3	(0% - 20%)			
		Uncert:	+/-1.05		+/-1.09						
Radium-226		TPU:	+/-1.03		+/-1.06						
			0.529		0.410	pCi/g	25	(0% - 100%)			
		Uncert:	+/-0.103		+/-0.129						
Silver-108m		TPU:	+/-0.101		+/-0.126						
	U		-0.00155	U	-0.00181	pCi/g	16	(0% - 100%)			
		Uncert:	+/-0.021		+/-0.0299						

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 157164

Page 11 of 33

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gamma Spec									
Batch	509660								
Thallium-208		TPU: +/-0.0206 0.138	+/-0.0293 0.129	pCi/g	7		(0% - 100%)		
		Uncert: +/-0.0528	+/-0.0563						
		TPU: +/-0.0517	+/-0.0552						
QC1201046386 Actinium-228	LCS		U 0.00419	pCi/g					03/14/06 16:10
		Uncert: +/-0.814							
		TPU: +/-0.798							
Americium-241	24.4		24.6	pCi/g		101	(75%-125%)		
		Uncert: +/-1.09							
		TPU: +/-1.07							
Bismuth-212			U 0.847	pCi/g					
		Uncert: +/-1.41							
		TPU: +/-1.38							
Bismuth-214			U -0.0182	pCi/g					
		Uncert: +/-0.308							
		TPU: +/-0.302							
Cesium-134			U 0.0261	pCi/g					
		Uncert: +/-0.222							
		TPU: +/-0.218							
Cesium-137	9.30		10.7	pCi/g		116	(75%-125%)		
		Uncert: +/-0.654							
		TPU: +/-0.640							
Cobalt-60	13.4		12.9	pCi/g		96	(75%-125%)		
		Uncert: +/-0.815							
		TPU: +/-0.799							
Europium-152			U -0.117	pCi/g					
		Uncert: +/-0.393							
		TPU: +/-0.385							
Europium-154			U 0.0165	pCi/g					
		Uncert: +/-0.380							
		TPU: +/-0.373							
Europium-155			U -0.00412	pCi/g					
		Uncert: +/-0.397							
		TPU: +/-0.389							
Lead-212			U -0.0879	pCi/g					
		Uncert: +/-0.201							
		TPU: +/-0.197							
Lead-214			U -0.0552	pCi/g					
		Uncert: +/-0.294							
		TPU: +/-0.289							
Manganese-54			U 0.105	pCi/g					
		Uncert: +/-0.189							
		TPU: +/-0.185							
Niobium-94			U -0.028	pCi/g					
		Uncert: +/-0.175							
		TPU: +/-0.171							
Potassium-40			U 0.602	pCi/g					

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 157164

Page 12 of 33

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec										
Batch	509660									
Radium-226		U	-0.0182	pCi/g			(75%-125%)			
	Uncert:		+/-1.06							
	TPU:		+/-1.04							
Silver-108m		U	0.0925	pCi/g						
	Uncert:		+/-0.308							
	TPU:		+/-0.302							
Thallium-208		U	0.0211	pCi/g						
	Uncert:		+/-0.159							
	TPU:		+/-0.156							
QC1201046384 MB Actinium-228		U	0.0983	pCi/g					03/14/06	19:35
	Uncert:		+/-0.0819							
	TPU:		+/-0.0802							
Americium-241		U	0.00396	pCi/g						
	Uncert:		+/-0.0134							
	TPU:		+/-0.0131							
Bismuth-212		U	-0.114	pCi/g						
	Uncert:		+/-0.124							
	TPU:		+/-0.122							
Bismuth-214		U	0.00502	pCi/g						
	Uncert:		+/-0.0297							
	TPU:		+/-0.0291							
Cesium-134		U	0.00942	pCi/g						
	Uncert:		+/-0.0134							
	TPU:		+/-0.0132							
Cesium-137		U	0.000459	pCi/g						
	Uncert:		+/-0.0151							
	TPU:		+/-0.0148							
Cobalt-60		U	-0.00825	pCi/g						
	Uncert:		+/-0.0175							
	TPU:		+/-0.0172							
Europium-152		U	-0.00027	pCi/g						
	Uncert:		+/-0.0339							
	TPU:		+/-0.0333							
Europium-154		U	0.0482	pCi/g						
	Uncert:		+/-0.053							
	TPU:		+/-0.0519							
Europium-155		U	-0.0155	pCi/g						
	Uncert:		+/-0.025							
	TPU:		+/-0.0245							
Lead-212		U	0.00738	pCi/g						
	Uncert:		+/-0.0188							
	TPU:		+/-0.0185							
Lead-214		U	0.0235	pCi/g						
	Uncert:		+/-0.0811							
	TPU:		+/-0.0795							

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 157164

Page 13 of 33

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec										
Batch	509660									
Manganese-54		U	0.00254	pCi/g						
	Uncert:		+/-0.0128							
	TPU:		+/-0.0125							
Niobium-94		U	-0.00611	pCi/g						
	Uncert:		+/-0.0127							
	TPU:		+/-0.0125							
Potassium-40		U	0.342	pCi/g						
	Uncert:		+/-0.216							
	TPU:		+/-0.212							
Radium-226		U	0.00502	pCi/g						
	Uncert:		+/-0.0297							
	TPU:		+/-0.0291							
Silver-108m		U	-0.00444	pCi/g						
	Uncert:		+/-0.0125							
	TPU:		+/-0.0123							
Thallium-208		U	0.0249	pCi/g						
	Uncert:		+/-0.0148							
	TPU:		+/-0.0145							
Batch	509662									
	QC1201046389 157164021 DUP									
Actinium-228			0.488	pCi/g	19		(0% - 100%)	MJH1	03/15/06	15:31
	Uncert:		+/-0.197							
	TPU:		+/-0.193							
Americium-241	U	U	-0.0136	pCi/g	34		(0% - 100%)			
	Uncert:		+/-0.0327							
	TPU:		+/-0.0321							
Bismuth-212	U		0.126	pCi/g	68		(0% - 100%)			
	Uncert:		+/-0.438							
	TPU:		+/-0.429							
Bismuth-214			0.555	pCi/g	16		(0% - 100%)			
	Uncert:		+/-0.125							
	TPU:		+/-0.122							
Cesium-134	UUI	U	0.00	pCi/g	153		(0% - 100%)			
	Uncert:		+/-0.0485							
	TPU:		+/-0.0476							
Cesium-137	U	U	0.00605	pCi/g	123		(0% - 100%)			
	Uncert:		+/-0.0278							
	TPU:		+/-0.0272							
Cobalt-60	U	U	0.0081	pCi/g	41		(0% - 100%)			
	Uncert:		+/-0.0241							
	TPU:		+/-0.0237							
Europium-152	U	U	0.0797	pCi/g	166		(0% - 100%)			
	Uncert:		+/-0.0738							
	TPU:		+/-0.0723							
Europium-154	U	U	0.0004	pCi/g	110		(0% - 100%)			
	Uncert:		+/-0.0771							
	TPU:		+/-0.0755							
Europium-155	U	U	-0.00689	pCi/g	293		(0% - 100%)			

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 157164

Page 14 of 33

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec											
Batch	509662										
		Uncert:		+/-0.0528							
		TPU:		+/-0.0518							
Lead-212				0.440		pCi/g	9	(0% - 100%)			
		Uncert:		+/-0.0869							
		TPU:		+/-0.0852							
Lead-214				0.583		pCi/g	6	(0% - 20%)			
		Uncert:		+/-0.122							
		TPU:		+/-0.119							
Manganese-54		U		-0.00505	U	pCi/g	749	(0% - 100%)			
		Uncert:		+/-0.026							
		TPU:		+/-0.0255							
Niobium-94		U		0.0148	U	pCi/g	8	(0% - 100%)			
		Uncert:		+/-0.0219							
		TPU:		+/-0.0215							
Potassium-40				7.02		pCi/g	13	(0% - 20%)			
		Uncert:		+/-1.07							
		TPU:		+/-1.05							
Radium-226				0.555		pCi/g	16	(0% - 100%)			
		Uncert:		+/-0.125							
		TPU:		+/-0.122							
Silver-108m		U		0.0161	U	pCi/g	106	(0% - 100%)			
		Uncert:		+/-0.0201							
		TPU:		+/-0.0197							
Thallium-208				0.130		pCi/g	23	(0% - 100%)			
		Uncert:		+/-0.0545							
		TPU:		+/-0.0534							
QC1201046390	LCS										
Actinium-228			U	0.209		pCi/g				03/15/06	05:58
		Uncert:		+/-0.827							
		TPU:		+/-0.811							
Americium-241	24.4			24.3		pCi/g	100	(75%-125%)			
		Uncert:		+/-1.13							
		TPU:		+/-1.10							
Bismuth-212			U	0.394		pCi/g					
		Uncert:		+/-1.26							
		TPU:		+/-1.23							
Bismuth-214			U	0.204		pCi/g					
		Uncert:		+/-0.336							
		TPU:		+/-0.330							
Cesium-134			U	0.0166		pCi/g					
		Uncert:		+/-0.194							
		TPU:		+/-0.190							
Cesium-137	9.29			9.98		pCi/g	107	(75%-125%)			
		Uncert:		+/-0.677							
		TPU:		+/-0.664							
Cobalt-60	13.4			13.7		pCi/g	102	(75%-125%)			
		Uncert:		+/-0.816							
		TPU:		+/-0.800							

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 157164

Page 15 of 33

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec										
Batch	509662									
Europium-152		U	-0.393	pCi/g						
	Uncert:		+/-0.402							
	TPU:		+/-0.394							
Europium-154		U	0.123	pCi/g						
	Uncert:		+/-0.377							
	TPU:		+/-0.370							
Europium-155		U	-0.0683	pCi/g						
	Uncert:		+/-0.425							
	TPU:		+/-0.416							
Lead-212		U	0.0732	pCi/g						
	Uncert:		+/-0.213							
	TPU:		+/-0.209							
Lead-214		U	0.00226	pCi/g						
	Uncert:		+/-0.297							
	TPU:		+/-0.291							
Manganese-54		U	0.0603	pCi/g						
	Uncert:		+/-0.192							
	TPU:		+/-0.188							
Niobium-94		U	0.0249	pCi/g						
	Uncert:		+/-0.161							
	TPU:		+/-0.157							
Potassium-40		U	0.569	pCi/g						
	Uncert:		+/-1.29							
	TPU:		+/-1.27							
Radium-226		U	0.204	pCi/g			(75%-125%)			
	Uncert:		+/-0.336							
	TPU:		+/-0.330							
Silver-108m		U	0.0467	pCi/g						
	Uncert:		+/-0.164							
	TPU:		+/-0.160							
Thallium-208		U	0.0879	pCi/g						
	Uncert:		+/-0.182							
	TPU:		+/-0.178							
QC1201046388	MB									
Actinium-228		U	0.0542	pCi/g					03/15/06	11:25
	Uncert:		+/-0.0423							
	TPU:		+/-0.0415							
Americium-241		U	0.016	pCi/g						
	Uncert:		+/-0.0654							
	TPU:		+/-0.0641							
Bismuth-212		U	0.0558	pCi/g						
	Uncert:		+/-0.053							
	TPU:		+/-0.052							
Bismuth-214		U	0.0272	pCi/g						
	Uncert:		+/-0.0215							
	TPU:		+/-0.0211							
Cesium-134		U	0.0102	pCi/g						
	Uncert:		+/-0.0108							

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 157164

Page 16 of 33

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec										
Batch	509662									
Cesium-137	TPU:		+/-0.0106							
		U	0.00994	pCi/g						
	Uncert:		+/-0.0117							
	TPU:		+/-0.0115							
Cobalt-60		U	0.0111	pCi/g						
	Uncert:		+/-0.0175							
	TPU:		+/-0.0171							
Europium-152		U	0.025	pCi/g						
	Uncert:		+/-0.0423							
	TPU:		+/-0.0415							
Europium-154		U	0.00472	pCi/g						
	Uncert:		+/-0.0304							
	TPU:		+/-0.0298							
Europium-155		U	-0.00554	pCi/g						
	Uncert:		+/-0.0227							
	TPU:		+/-0.0222							
Lead-212		U	0.00443	pCi/g						
	Uncert:		+/-0.0252							
	TPU:		+/-0.0247							
Lead-214		U	0.00593	pCi/g						
	Uncert:		+/-0.0172							
	TPU:		+/-0.0169							
Manganese-54		U	-0.00192	pCi/g						
	Uncert:		+/-0.00892							
	TPU:		+/-0.00874							
Niobium-94		U	0.0093	pCi/g						
	Uncert:		+/-0.00891							
	TPU:		+/-0.00874							
Potassium-40		UU1	0.00	pCi/g						
	Uncert:		+/-0.148							
	TPU:		+/-0.145							
Radium-226		U	0.0272	pCi/g						
	Uncert:		+/-0.0215							
	TPU:		+/-0.0211							
Silver-108m		U	-0.00758	pCi/g						
	Uncert:		+/-0.00785							
	TPU:		+/-0.0077							
Thallium-208		U	0.00666	pCi/g						
	Uncert:		+/-0.0104							
	TPU:		+/-0.0102							
Batch	509663									
QC1201046392 157164041 DUP										
Actinium-228		0.450	0.403	pCi/g	11		(0% - 100%)	MJH1	03/14/06	13:42
	Uncert:	+/-0.148	+/-0.148							
	TPU:	+/-0.145	+/-0.145							
Americium-241	U	-0.0164	-0.0303	pCi/g	60		(0% - 100%)			
	Uncert:	+/-0.079	+/-0.076							
	TPU:	+/-0.0774	+/-0.0745							

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 157164

Page 17 of 33

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec											
Batch	509663										
Bismuth-212	U	0.138		0.343	pCi/g	85		(0% - 100%)			
	Uncert:	+/-0.156		+/-0.252							
	TPU:	+/-0.153		+/-0.247							
Bismuth-214		0.360		0.364	pCi/g	1		(0% - 100%)			
	Uncert:	+/-0.0748		+/-0.0804							
	TPU:	+/-0.0733		+/-0.0788							
Cesium-134	U	0.035	U	0.030	pCi/g	16		(0% - 100%)			
	Uncert:	+/-0.0225		+/-0.0208							
	TPU:	+/-0.0221		+/-0.0204							
Cesium-137	U	0.000288	U	0.0353	pCi/g	197		(0% - 100%)			
	Uncert:	+/-0.0188		+/-0.0226							
	TPU:	+/-0.0185		+/-0.0221							
Cobalt-60	U	0.00921	U	0.0316	pCi/g	110		(0% - 100%)			
	Uncert:	+/-0.0213		+/-0.0236							
	TPU:	+/-0.0209		+/-0.0232							
Europium-152	U	0.00875	U	0.0102	pCi/g	15		(0% - 100%)			
	Uncert:	+/-0.0479		+/-0.0477							
	TPU:	+/-0.0469		+/-0.0467							
Europium-154	U	-0.0487	U	-0.0463	pCi/g	5		(0% - 100%)			
	Uncert:	+/-0.0684		+/-0.0503							
	TPU:	+/-0.067		+/-0.0493							
Europium-155	U	0.0109	U	0.0385	pCi/g	112		(0% - 100%)			
	Uncert:	+/-0.0469		+/-0.0493							
	TPU:	+/-0.0459		+/-0.0483							
Lead-212		0.396		0.361	pCi/g	9		(0% - 100%)			
	Uncert:	+/-0.0549		+/-0.0499							
	TPU:	+/-0.0538		+/-0.0489							
Lead-214		0.363		0.362	pCi/g	0		(0% - 100%)			
	Uncert:	+/-0.0816		+/-0.081							
	TPU:	+/-0.0799		+/-0.0794							
Manganese-54	U	-0.00244	U	0.00918	pCi/g	345		(0% - 100%)			
	Uncert:	+/-0.0198		+/-0.0183							
	TPU:	+/-0.0195		+/-0.0179							
Niobium-94	U	0.0046	U	0.0296	pCi/g	146		(0% - 100%)			
	Uncert:	+/-0.0175		+/-0.0168							
	TPU:	+/-0.0171		+/-0.0165							
Potassium-40		6.88		7.36	pCi/g	7		(0% - 20%)			
	Uncert:	+/-0.717		+/-0.785							
	TPU:	+/-0.702		+/-0.769							
Radium-226		0.360		0.364	pCi/g	1		(0% - 100%)			
	Uncert:	+/-0.0748		+/-0.0804							
	TPU:	+/-0.0733		+/-0.0788							
Silver-108m	U	-0.000846	U	0.0119	pCi/g	231		(0% - 100%)			
	Uncert:	+/-0.018		+/-0.0172							
	TPU:	+/-0.0176		+/-0.0168							
Thallium-208		0.115		0.140	pCi/g	19		(0% - 100%)			
	Uncert:	+/-0.0363		+/-0.0371							
	TPU:	+/-0.0356		+/-0.0364							

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 157164

Page 18 of 33

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec										
Batch	509663									
QC1201046393	LCS									
Actinium-228		U	-0.248	pCi/g					03/14/06	13:43
	Uncert:		+/-0.777							
	TPU:		+/-0.762							
Americium-241	24.4		24.3	pCi/g		100	(75%-125%)			
	Uncert:		+/-1.14							
	TPU:		+/-1.12							
Bismuth-212		U	0.691	pCi/g						
	Uncert:		+/-1.34							
	TPU:		+/-1.32							
Bismuth-214		U	0.133	pCi/g						
	Uncert:		+/-0.322							
	TPU:		+/-0.316							
Cesium-134		U	0.114	pCi/g						
	Uncert:		+/-0.198							
	TPU:		+/-0.194							
Cesium-137	9.29		10.1	pCi/g		109	(75%-125%)			
	Uncert:		+/-0.640							
	TPU:		+/-0.628							
Cobalt-60	13.4		14.4	pCi/g		107	(75%-125%)			
	Uncert:		+/-0.839							
	TPU:		+/-0.822							
Europium-152		U	0.0525	pCi/g						
	Uncert:		+/-0.402							
	TPU:		+/-0.394							
Europium-154		U	0.0926	pCi/g						
	Uncert:		+/-0.426							
	TPU:		+/-0.418							
Europium-155		U	-0.195	pCi/g						
	Uncert:		+/-0.381							
	TPU:		+/-0.374							
Lead-212		U	0.0185	pCi/g						
	Uncert:		+/-0.208							
	TPU:		+/-0.204							
Lead-214		U	-0.112	pCi/g						
	Uncert:		+/-0.275							
	TPU:		+/-0.270							
Manganese-54		U	-0.124	pCi/g						
	Uncert:		+/-0.199							
	TPU:		+/-0.195							
Niobium-94		U	-0.0445	pCi/g						
	Uncert:		+/-0.158							
	TPU:		+/-0.155							
Potassium-40		U	1.22	pCi/g						
	Uncert:		+/-1.21							
	TPU:		+/-1.19							
Radium-226		U	0.133	pCi/g			(75%-125%)			
	Uncert:		+/-0.322							
	TPU:		+/-0.316							

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 157164

Page 19 of 33

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec										
Batch	509663									
Silver-108m		U	-0.0792	pCi/g						
	Uncert:		+/-0.160							
	TPU:		+/-0.157							
Thallium-208		U	0.143	pCi/g						
	Uncert:		+/-0.172							
	TPU:		+/-0.168							
QC1201046391	MB									
Actinium-228		U	0.0597	pCi/g					03/14/06	11:56
	Uncert:		+/-0.0388							
	TPU:		+/-0.038							
Americium-241		U	0.0691	pCi/g						
	Uncert:		+/-0.0744							
	TPU:		+/-0.0729							
Bismuth-212		U	-0.0463	pCi/g						
	Uncert:		+/-0.0862							
	TPU:		+/-0.0845							
Bismuth-214		U	0.0238	pCi/g						
	Uncert:		+/-0.0295							
	TPU:		+/-0.0289							
Cesium-134		U	0.00139	pCi/g						
	Uncert:		+/-0.011							
	TPU:		+/-0.0108							
Cesium-137		U	0.000686	pCi/g						
	Uncert:		+/-0.012							
	TPU:		+/-0.0118							
Cobalt-60		U	-0.00174	pCi/g						
	Uncert:		+/-0.0144							
	TPU:		+/-0.0142							
Europium-152		U	0.00823	pCi/g						
	Uncert:		+/-0.0288							
	TPU:		+/-0.0282							
Europium-154		U	0.00923	pCi/g						
	Uncert:		+/-0.0337							
	TPU:		+/-0.0331							
Europium-155		U	0.00393	pCi/g						
	Uncert:		+/-0.0322							
	TPU:		+/-0.0315							
Lead-212		U	0.0195	pCi/g						
	Uncert:		+/-0.0234							
	TPU:		+/-0.0229							
Lead-214		U	0.00676	pCi/g						
	Uncert:		+/-0.039							
	TPU:		+/-0.0383							
Manganese-54		U	0.00887	pCi/g						
	Uncert:		+/-0.0107							
	TPU:		+/-0.0105							
Niobium-94		U	0.0049	pCi/g						
	Uncert:		+/-0.0114							

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 157164

Page 20 of 33

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gamma Spec									
Batch	509663								
Potassium-40	TPU:		+/-0.0112						
		U	0.0901	pCi/g					
	Uncert:		+/-0.129						
Radium-226	TPU:		+/-0.126						
		U	0.0238	pCi/g					
	Uncert:		+/-0.0295						
Silver-108m	TPU:		+/-0.0289						
		U	-0.00255	pCi/g					
	Uncert:		+/-0.00989						
Thallium-208	TPU:		+/-0.00969						
		U	0.0179	pCi/g					
	Uncert:		+/-0.0121						
	TPU:		+/-0.0119						
Batch	509664								
	QC1201046395 157164061 DUP								
Actinium-228			0.529	pCi/g	3		(0% - 100%)	MJH1	03/15/06 22:42
	Uncert:		+/-0.130						
Americium-241	TPU:		+/-0.127						
		U	0.00988	pCi/g	1790		(0% - 100%)		
	Uncert:		+/-0.0627						
Bismuth-212	TPU:		+/-0.0614						
			0.556	pCi/g	27		(0% - 100%)		
	Uncert:		+/-0.223						
Bismuth-214	TPU:		+/-0.219						
			0.481	pCi/g	17		(0% - 100%)		
	Uncert:		+/-0.0819						
Cesium-134	TPU:		+/-0.0802						
		U	0.0242	pCi/g	17		(0% - 100%)		
	Uncert:		+/-0.0315						
Cesium-137	TPU:		+/-0.0309						
		U	0.0307	pCi/g	2		(0% - 100%)		
	Uncert:		+/-0.0242						
Cobalt-60	TPU:		+/-0.0237						
		U	0.00172	pCi/g	175		(0% - 100%)		
	Uncert:		+/-0.0203						
Europium-152	TPU:		+/-0.0199						
		U	0.00127	pCi/g	216		(0% - 100%)		
	Uncert:		+/-0.0472						
Europium-154	TPU:		+/-0.0462						
		U	0.0425	pCi/g	496		(0% - 100%)		
	Uncert:		+/-0.0314						
Europium-155	TPU:		+/-0.0308						
		U	0.035	pCi/g	37		(0% - 100%)		
	Uncert:		+/-0.0532						
Lead-212	TPU:		+/-0.0521						
			0.444	pCi/g	3		(0% - 100%)		
	Uncert:		+/-0.0685						
	TPU:		+/-0.0671						

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 157164

Page 21 of 33

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gamma Spec									
Batch	509664								
Lead-214			0.501						
			Uncert: +/-0.0823						
			TPU: +/-0.0806						
Manganese-54	U		-0.00516	U					
			Uncert: +/-0.0184						(0% - 100%)
			TPU: +/-0.0181						
Niobium-94	U		0.0179	U					
			Uncert: +/-0.0177						(0% - 100%)
			TPU: +/-0.0173						
Potassium-40			7.91						
			Uncert: +/-0.925						(0% - 20%)
			TPU: +/-0.906						
Radium-226			0.481						
			Uncert: +/-0.0819						(0% - 100%)
			TPU: +/-0.0802						
Silver-108m	U		-0.00424	U					
			Uncert: +/-0.0159						(0% - 100%)
			TPU: +/-0.0156						
Thallium-208			0.196						
			Uncert: +/-0.0405						(0% - 100%)
			TPU: +/-0.0397						
QC1201046396	LCS								
Actinium-228				U					03/15/06 07:07
			Uncert: +/-0.738						
			TPU: +/-0.723						
Americium-241	24.4								
			Uncert: +/-0.880						106 (75%-125%)
			TPU: +/-0.863						
Bismuth-212				U					
			Uncert: +/-2.40						
			TPU: +/-2.36						
Bismuth-214				U					
			Uncert: +/-0.307						
			TPU: +/-0.301						
Cesium-134				U					
			Uncert: +/-0.199						
			TPU: +/-0.195						
Cesium-137	9.29								
			Uncert: +/-0.647						110 (75%-125%)
			TPU: +/-0.634						
Cobalt-60	13.4								
			Uncert: +/-0.803						106 (75%-125%)
			TPU: +/-0.787						
Europium-152				U					
			Uncert: +/-0.400						
			TPU: +/-0.392						
Europium-154				U					
			Uncert: +/-0.411						

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 157164

Page 22 of 33

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec										
Batch	509664									
Europium-155	TPU:		+/-0.402							
		U	-0.0275	pCi/g						
	Uncert:		+/-0.375							
	TPU:		+/-0.367							
Lead-212		U	0.195	pCi/g						
	Uncert:		+/-0.210							
	TPU:		+/-0.206							
Lead-214		U	-0.0228	pCi/g						
	Uncert:		+/-0.282							
	TPU:		+/-0.276							
Manganese-54		U	-0.0675	pCi/g						
	Uncert:		+/-0.178							
	TPU:		+/-0.175							
Niobium-94		U	0.030	pCi/g						
	Uncert:		+/-0.167							
	TPU:		+/-0.164							
Potassium-40		U	1.39	pCi/g						
	Uncert:		+/-1.14							
	TPU:		+/-1.12							
Radium-226		U	0.181	pCi/g			(75%-125%)			
	Uncert:		+/-0.307							
	TPU:		+/-0.301							
Silver-108m		U	0.0729	pCi/g						
	Uncert:		+/-0.161							
	TPU:		+/-0.158							
Thallium-208		U	0.067	pCi/g						
	Uncert:		+/-0.168							
	TPU:		+/-0.164							
QC1201046394	MB									
Actinium-228		U	0.0129	pCi/g					03/15/06	22:41
	Uncert:		+/-0.0491							
	TPU:		+/-0.0481							
Americium-241		U	-0.0235	pCi/g						
	Uncert:		+/-0.0526							
	TPU:		+/-0.0515							
Bismuth-212		U	-0.0584	pCi/g						
	Uncert:		+/-0.0662							
	TPU:		+/-0.0649							
Bismuth-214		U	0.00682	pCi/g						
	Uncert:		+/-0.0348							
	TPU:		+/-0.0341							
Cesium-134		U	0.00214	pCi/g						
	Uncert:		+/-0.00897							
	TPU:		+/-0.00879							
Cesium-137		U	-0.00164	pCi/g						
	Uncert:		+/-0.009							
	TPU:		+/-0.00882							
Cobalt-60		U	-0.00148	pCi/g						

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 157164

Page 23 of 33

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec										
Batch	509664									
	Uncert:		+/-0.00909							
	TPU:		+/-0.0089							
Europium-152		U	0.0115	pCi/g						
	Uncert:		+/-0.024							
	TPU:		+/-0.0235							
Europium-154		U	0.0372	pCi/g						
	Uncert:		+/-0.0449							
	TPU:		+/-0.044							
Europium-155		U	0.0138	pCi/g						
	Uncert:		+/-0.0249							
	TPU:		+/-0.0244							
Lead-212		U	0.000181	pCi/g						
	Uncert:		+/-0.0267							
	TPU:		+/-0.0262							
Lead-214		U	0.000614	pCi/g						
	Uncert:		+/-0.032							
	TPU:		+/-0.0313							
Manganese-54		U	-0.00493	pCi/g						
	Uncert:		+/-0.00833							
	TPU:		+/-0.00817							
Niobium-94		U	0.000676	pCi/g						
	Uncert:		+/-0.00838							
	TPU:		+/-0.00821							
Potassium-40		U	0.00726	pCi/g						
	Uncert:		+/-0.128							
	TPU:		+/-0.126							
Radium-226		U	0.00682	pCi/g						
	Uncert:		+/-0.0348							
	TPU:		+/-0.0341							
Silver-108m		U	-0.000379	pCi/g						
	Uncert:		+/-0.00768							
	TPU:		+/-0.00753							
Thallium-208		U	0.0125	pCi/g						
	Uncert:		+/-0.0099							
	TPU:		+/-0.0097							
Rad Gas Flow										
Batch	508559									
QC1201043923	157164003 DUP									
Strontium-90	U	0.018	U	0.00142	pCi/g	0	(0% - 100%)	BXF1	03/07/06	20:49
	Uncert:	+/-0.0184		+/-0.0142						
	TPU:	+/-0.0184		+/-0.0142						
QC1201043925	LCS									
Strontium-90	1.59			1.57	pCi/g	99	(75%-125%)		03/07/06	20:49
	Uncert:			+/-0.096						
	TPU:			+/-0.107						
QC1201043922	MB									
Strontium-90			U	-0.00729	pCi/g				03/07/06	20:49
	Uncert:			+/-0.0116						

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 157164

Page 24 of 33

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	508559										
QC1201043924	157164003	MS									
Strontium-90	1.48	U	0.018	1.23	pCi/g		83	(75%-125%)		03/07/06	20:49
	Uncert:		+/-0.0184	+/-0.133							
	TPU:		+/-0.0184	+/-0.138							
Batch	508561										
QC1201043931	157164043	DUP									
Strontium-90		U	-0.00239	U -0.0202	pCi/g	0		(0% - 100%)	BXF1	03/09/06	10:36
	Uncert:		+/-0.0148	+/-0.012							
	TPU:		+/-0.0148	+/-0.012							
QC1201043933	LCS										
Strontium-90	1.59			1.54	pCi/g		97	(75%-125%)		03/09/06	16:39
	Uncert:			+/-0.0883							
	TPU:			+/-0.0996							
QC1201043930	MB										
Strontium-90				U -0.00898	pCi/g					03/09/06	10:36
	Uncert:			+/-0.0128							
	TPU:			+/-0.0128							
QC1201043932	157164043	MS									
Strontium-90	1.55	U	-0.00239	1.18	pCi/g		76	(75%-125%)		03/09/06	16:39
	Uncert:		+/-0.0148	+/-0.114							
	TPU:		+/-0.0148	+/-0.120							
Batch	508562										
QC1201043935	157164063	DUP									
Strontium-90		U	0.0265	U 0.000498	pCi/g	0		(0% - 100%)	BXF1	03/08/06	20:45
	Uncert:		+/-0.0233	+/-0.0191							
	TPU:		+/-0.0233	+/-0.0191							
QC1201043937	LCS										
Strontium-90	1.59			1.57	pCi/g		99	(75%-125%)		03/08/06	20:45
	Uncert:			+/-0.0998							
	TPU:			+/-0.110							
QC1201043934	MB										
Strontium-90				U 0.00224	pCi/g					03/08/06	20:45
	Uncert:			+/-0.0156							
	TPU:			+/-0.0156							
QC1201043936	157164063	MS									
Strontium-90	1.54	U	0.0265	1.21	pCi/g		79	(75%-125%)		03/08/06	20:45
	Uncert:		+/-0.0233	+/-0.114							
	TPU:		+/-0.0233	+/-0.120							
Batch	508565										
QC1201043944	157164018	DUP									
Strontium-90		U	0.00425	U -0.00982	pCi/g	0		(0% - 100%)	BXF1	03/08/06	20:28
	Uncert:		+/-0.0257	+/-0.0219							
	TPU:		+/-0.0257	+/-0.0219							
QC1201043946	LCS										
Strontium-90	1.44			1.29	pCi/g		89	(75%-125%)			
	Uncert:			+/-0.0907							
	TPU:			+/-0.119							
QC1201043943	MB										

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 157164

Page 25 of 33

Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	508565										
Strontium-90				U	-0.00733	pCi/g					
		Uncert:			+/-0.0321						
		TPU:			+/-0.0321						
QC1201043945	157164018	MS									
Strontium-90	1.46	U	0.00425		1.22	pCi/g	84	(75%-125%)			
		Uncert:			+/-0.089						
		TPU:	+/-0.0257		+/-0.117						
Batch	510651										
QC1201048643	157164038	DUP									
Strontium-90		U	-0.00272	U	0.0269	pCi/g	0	(0% - 100%)	BXFI	03/14/06	12:21
		Uncert:	+/-0.0177		+/-0.027						
		TPU:	+/-0.0177		+/-0.027						
QC1201048645	LCS										
Strontium-90	1.19				1.07	pCi/g	90	(75%-125%)		03/14/06	12:21
		Uncert:			+/-0.0658						
		TPU:			+/-0.0704						
QC1201048642	MB										
Strontium-90				U	0.00211	pCi/g				03/14/06	12:21
		Uncert:			+/-0.0102						
		TPU:			+/-0.0102						
QC1201048644	157164038	MS									
Strontium-90	2.87	U	-0.00272		2.18	pCi/g	76	(75%-125%)		03/14/06	12:21
		Uncert:	+/-0.0177		+/-0.182						
		TPU:	+/-0.0177		+/-0.190						
Rad Liquid Scintillation											
Batch	508533										
QC1201043867	157164012	DUP									
Nickel-63		U	0.725	U	1.67	pCi/g	0	(0% - 100%)	SLN1	03/14/06	12:51
		Uncert:	+/-1.27		+/-1.19						
		TPU:	+/-1.27		+/-1.19						
QC1201043869	LCS										
Nickel-63	175				148	pCi/g	85	(75%-125%)		03/14/06	12:34
		Uncert:			+/-7.17						
		TPU:			+/-8.08						
QC1201043866	MB										
Nickel-63				U	0.844	pCi/g				03/14/06	10:41
		Uncert:			+/-1.24						
		TPU:			+/-1.24						
QC1201043868	157164012	MS									
Nickel-63	186	U	0.725		151	pCi/g	81	(75%-125%)		03/14/06	12:17
		Uncert:	+/-1.27		+/-8.36						
		TPU:	+/-1.27		+/-9.19						
Batch	508570										
QC1201043961	157164008	DUP									
Technetium-99		U	0.0509	U	0.00	pCi/g	0	(0% - 100%)	SLN1	03/13/06	12:57
		Uncert:	+/-0.377		+/-0.309						
		TPU:	+/-0.377		+/-0.309						
QC1201043963	LCS										

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 157164

Page 26 of 33

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Liquid Scintillation											
Batch	508570										
Technetium-99	21.8			17.5	pCi/g		80	(75%-125%)			
	Uncert:			+/-0.750							
	TPU:			+/-0.871							
QC1201043960 MB											
Technetium-99			U	0.115	pCi/g					03/13/06	12:41
	Uncert:			+/-0.287							
	TPU:			+/-0.287							
QC1201043962 157164008 MS											
Technetium-99	22.1	U	0.0509	17.0	pCi/g		77	(75%-125%)		03/13/06	13:13
	Uncert:		+/-0.377	+/-1.63							
	TPU:		+/-0.377	+/-1.69							
Batch	508572										
QC1201043965 157164046 DUP											
Technetium-99		U	0.0928	U	0.147	pCi/g	0	(0% - 100%)	SLN1	03/14/06	04:52
	Uncert:		+/-0.301	+/-0.270							
	TPU:		+/-0.301	+/-0.270							
QC1201043967 LCS											
Technetium-99	23.6			19.6	pCi/g		83	(75%-125%)		03/14/06	05:56
	Uncert:			+/-0.625							
	TPU:			+/-0.802							
QC1201043964 MB											
Technetium-99			U	0.162	pCi/g					03/14/06	04:20
	Uncert:			+/-0.297							
	TPU:			+/-0.297							
QC1201043966 157164046 MS											
Technetium-99	22.3	U	0.0928	18.3	pCi/g		82	(75%-125%)		03/14/06	05:24
	Uncert:		+/-0.301	+/-0.607							
	TPU:		+/-0.301	+/-0.768							
Batch	508624										
QC1201044097 157164010 DUP											
Tritium		U	2.38	2.65	pCi/g	11		(0% - 100%)	CHS1	03/17/06	19:57
	Uncert:		+/-1.46	+/-1.42							
	TPU:		+/-1.46	+/-1.42							
QC1201044099 LCS											
Tritium	14.3			13.1	pCi/g		92	(75%-125%)		03/06/06	18:06
	Uncert:			+/-2.48							
	TPU:			+/-2.49							
QC1201044096 MB											
Tritium			U	0.520	pCi/g					03/17/06	18:24
	Uncert:			+/-0.670							
	TPU:			+/-0.670							
QC1201044098 157164010 MS											
Tritium	14.8	U	2.38	13.7	pCi/g		92	(75%-125%)		03/09/06	16:47
	Uncert:		+/-1.46	+/-4.42							
	TPU:		+/-1.46	+/-4.42							
Batch	508625										
QC1201044101 157164029 DUP											
Tritium		U	0.938	U	0.852	pCi/g	0	(0% - 100%)	CHS1	03/12/06	19:55

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 157164

Page 27 of 33

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Liquid Scintillation									
Batch	508625								
	Uncert:	+/-1.49	+/-1.39						
	TPU:	+/-1.49	+/-1.39						
QC1201044103	LCS								
Tritium	11.7		10.4	pCi/g		89	(75%-125%)		03/07/06 16:44
	Uncert:		+/-1.26						
	TPU:		+/-1.28						
QC1201044100	MB								
Tritium		U	0.251	pCi/g					03/07/06 11:50
	Uncert:		+/-0.987						
	TPU:		+/-0.987						
QC1201044102	157164029	MS							
Tritium	11.5	U	0.938	pCi/g		121	(75%-125%)		03/07/06 16:12
	Uncert:		+/-1.49						
	TPU:		+/-1.49						
Batch	508626								
QC1201044105	157164051	DUP							
Tritium		U	2.00	pCi/g	0		(0% - 100%)	CHS1	03/13/06 02:44
	Uncert:		+/-1.72						
	TPU:		+/-1.72						
QC1201044107	LCS								
Tritium	10.8		11.4	pCi/g		105	(75%-125%)		03/13/06 04:17
	Uncert:		+/-1.14						
	TPU:		+/-1.15						
QC1201044104	MB								
Tritium		U	0.378	pCi/g					03/13/06 01:57
	Uncert:		+/-0.829						
	TPU:		+/-0.829						
QC1201044106	157164051	MS							
Tritium	11.5	U	2.00	pCi/g		105	(75%-125%)		03/13/06 03:30
	Uncert:		+/-1.72						
	TPU:		+/-1.72						
Batch	508627								
QC1201044109	157164067	DUP							
Tritium		U	1.11	pCi/g	0		(0% - 100%)	CHS1	03/10/06 12:58
	Uncert:		+/-1.62						
	TPU:		+/-1.62						
QC1201044111	LCS								
Tritium	11.7		10.3	pCi/g		88	(75%-125%)		03/08/06 09:28
	Uncert:		+/-1.36						
	TPU:		+/-1.37						
QC1201044108	MB								
Tritium		U	0.462	pCi/g					03/08/06 07:53
	Uncert:		+/-1.01						
	TPU:		+/-1.01						
QC1201044110	157164067	MS							
Tritium	11.6	U	1.11	pCi/g		91	(75%-125%)		03/08/06 08:57
	Uncert:		+/-1.62						
	TPU:		+/-1.62						
Batch	508642								

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 157164

Page 28 of 33

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Liquid Scintillation											
Batch 508642											
QC1201044162	157164028	DUP									
Carbon-14		U	-0.151	U	-0.113	pCi/g	0	(0% - 100%)	MXPI	03/14/06	05:19
		Uncert:	+/-0.246		+/-0.289						
		TPU:	+/-0.246		+/-0.289						
QC1201044164	LCS										
Carbon-14		21.7			21.0	pCi/g	97	(75%-125%)		03/14/06	06:23
		Uncert:			+/-1.60						
		TPU:			+/-1.64						
QC1201044161	MB										
Carbon-14				U	-0.433	pCi/g				03/14/06	04:31
		Uncert:			+/-0.300						
		TPU:			+/-0.300						
QC1201044163	157164028	MS									
Carbon-14		21.1	U	-0.151	18.1	pCi/g	86	(75%-125%)		03/14/06	06:06
		Uncert:		+/-0.246	+/-1.51						
		TPU:		+/-0.246	+/-1.54						
Batch 508644											
QC1201044222	157164055	DUP									
Carbon-14		U	-0.394	U	-0.292	pCi/g	0	(0% - 100%)	MXPI	03/08/06	17:10
		Uncert:	+/-0.361		+/-0.375						
		TPU:	+/-0.361		+/-0.375						
QC1201044224	LCS										
Carbon-14		12.6			12.8	pCi/g	101	(75%-125%)		03/08/06	18:14
		Uncert:			+/-0.579						
		TPU:			+/-0.612						
QC1201044221	MB										
Carbon-14				U	-0.532	pCi/g				03/08/06	16:38
		Uncert:			+/-0.313						
		TPU:			+/-0.313						
QC1201044223	157164055	MS									
Carbon-14		14.6	U	-0.394	14.8	pCi/g	101	(75%-125%)		03/08/06	17:42
		Uncert:		+/-0.361	+/-0.676						
		TPU:		+/-0.361	+/-0.714						
Batch 508676											
QC1201044238	157164018	DUP									
Technetium-99		U	0.0319	U	0.0494	pCi/g	0	(0% - 100%)	SLN1	03/13/06	20:57
		Uncert:	+/-0.219		+/-0.220						
		TPU:	+/-0.219		+/-0.220						
QC1201044240	LCS										
Technetium-99		14.8			12.3	pCi/g	83	(75%-125%)		03/13/06	21:30
		Uncert:			+/-0.487						
		TPU:			+/-0.575						
QC1201044237	MB										
Technetium-99				U	-0.0673	pCi/g				03/13/06	20:41
		Uncert:			+/-0.200						
		TPU:			+/-0.200						
QC1201044239	157164018	MS									
Technetium-99		16.5	U	0.0319	13.8	pCi/g	84	(75%-125%)		03/13/06	21:14
		Uncert:		+/-0.219	+/-0.570						

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 157164

Page 29 of 33

Parname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Liquid Scintillation										
Batch	508676									
		TPU:	+/-0.219							+/-0.666
Batch	508720									
QC1201044356	157164005	DUP								
Iron-55		U	1.03		86		(0% - 100%)	SLN1	03/18/06	15:21
		Uncert:	+/-1.71							+/-1.82
		TPU:	+/-1.71							+/-1.82
QC1201044358	LCS									
Iron-55		51.8				101	(75%-125%)		03/18/06	17:48
		Uncert:								+/-5.91
		TPU:								+/-6.60
QC1201044355	MB									
Iron-55			U	2.11					03/18/06	13:17
		Uncert:								+/-1.79
		TPU:								+/-1.79
QC1201044357	157164005	MS								
Iron-55		57.4	U	1.03		101	(75%-125%)		03/18/06	17:31
		Uncert:								+/-1.71
		TPU:								+/-1.71
Batch	508722									
QC1201044364	157164057	DUP								
Iron-55		U	-2.67	U	0		(0% - 100%)	SLN1	03/26/06	00:07
		Uncert:	+/-3.80							+/-2.10
		TPU:	+/-3.80							+/-2.10
QC1201044366	LCS									
Iron-55		59.6				94	(75%-125%)		03/23/06	02:24
		Uncert:								+/-2.41
		TPU:								+/-3.50
QC1201044363	MB									
Iron-55			U	1.59					03/22/06	23:17
		Uncert:								+/-2.18
		TPU:								+/-2.18
QC1201044365	157164057	MS								
Iron-55		112	U	-2.67		102	(75%-125%)		03/21/06	15:20
		Uncert:								+/-3.80
		TPU:								+/-3.80
Batch	508726									
QC1201044376	157164055	DUP								
Nickel-63		U	1.12	U	0		(0% - 100%)	SLN1	03/10/06	19:43
		Uncert:	+/-1.77							+/-2.93
		TPU:	+/-1.77							+/-2.93
QC1201044378	LCS									
Nickel-63		160				75	(75%-125%)		03/21/06	15:53
		Uncert:								+/-6.17
		TPU:								+/-7.06
QC1201044375	MB									
Nickel-63			U	2.39					03/10/06	18:56
		Uncert:								+/-1.75
		TPU:								+/-1.75
QC1201044377	157164055	MS								

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 157164

Page 30 of 33

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Liquid Scintillation											
Batch	508726										
Nickel-63	191	U	1.12	191	pCi/g		100	(75%-125%)			
	Uncert:		+/-1.77	+/-9.41							
	TPU:		+/-1.77	+/-10.9							
Batch	508728										
QC1201044382	157164036	DUP									
Nickel-63		U	-0.792	U	-0.179	pCi/g	0	(0% - 100%)	SLN1	03/16/06	11:18
	Uncert:		+/-1.95	+/-1.74							
	TPU:		+/-1.95	+/-1.74							
QC1201044384	LCS										
Nickel-63	173			152	pCi/g		88	(75%-125%)		03/16/06	12:37
	Uncert:			+/-7.94							
	TPU:			+/-9.04							
QC1201044381	MB										
Nickel-63				U	-0.925	pCi/g				03/16/06	10:15
	Uncert:				+/-1.69						
	TPU:				+/-1.69						
QC1201044383	157164036	MS									
Nickel-63	186	U	-0.792	158	pCi/g		85	(75%-125%)		03/16/06	12:20
	Uncert:		+/-1.95	+/-8.44							
	TPU:		+/-1.95	+/-9.59							
Batch	508729										
QC1201044386	157164057	DUP									
Nickel-63		U	-1.94	U	-0.983	pCi/g	0	(0% - 100%)	SLN1	03/12/06	19:14
	Uncert:		+/-1.55	+/-1.35							
	TPU:		+/-1.55	+/-1.35							
QC1201044388	LCS										
Nickel-63	141			117	pCi/g		83	(75%-125%)		03/12/06	21:01
	Uncert:			+/-5.88							
	TPU:			+/-6.74							
QC1201044385	MB										
Nickel-63				U	0.414	pCi/g				03/12/06	17:42
	Uncert:				+/-1.38						
	TPU:				+/-1.38						
QC1201044387	157164057	MS									
Nickel-63	176	U	-1.94	157	pCi/g		89	(75%-125%)		03/12/06	20:45
	Uncert:		+/-1.55	+/-8.27							
	TPU:		+/-1.55	+/-9.41							
Batch	508731										
QC1201044390	157164065	DUP									
Nickel-63		U	-1.26	U	-0.838	pCi/g	0	(0% - 100%)	SLN1	03/15/06	15:22
	Uncert:		+/-0.999	+/-1.59							
	TPU:		+/-1.00	+/-1.59							
QC1201044392	LCS										
Nickel-63	149			133	pCi/g		89	(75%-125%)		03/21/06	12:07
	Uncert:			+/-6.36							
	TPU:			+/-7.39							
QC1201044389	MB										
Nickel-63				U	-0.0491	pCi/g				03/15/06	14:50

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 157164

Page 31 of 33

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Liquid Scintillation											
Batch	508731										
		Uncert:		+/-1.69							
		TPU:		+/-1.69							
QC1201044391	157164065	MS									
Nickel-63		141	U	-1.26	145	pCi/g	103	(75%-125%)		03/15/06	15:53
		Uncert:		+/-0.999	+/-7.40						
		TPU:		+/-1.00	+/-8.47						
Batch	508737										
QC1201044405	157164045	DUP									
Carbon-14			U	0.0988	0.0395	pCi/g	0	(0% - 100%)	MXPI	03/09/06	03:06
		Uncert:		+/-0.295	+/-0.300						
		TPU:		+/-0.295	+/-0.300						
QC1201044407	LCS										
Carbon-14		21.7			21.9	pCi/g	101	(75%-125%)		03/09/06	04:24
		Uncert:			+/-1.25						
		TPU:			+/-1.30						
QC1201044404	MB										
Carbon-14			U		-0.181	pCi/g				03/09/06	02:03
		Uncert:			+/-0.309						
		TPU:			+/-0.309						
QC1201044406	157164045	MS									
Carbon-14		20.8	U	0.0988	20.2	pCi/g	97	(75%-125%)		03/09/06	04:08
		Uncert:		+/-0.295	+/-1.18						
		TPU:		+/-0.295	+/-1.22						
Batch	510672										
QC1201048716	157164005	DUP									
Tritium			U	0.127	-0.0695	pCi/g	0	(0% - 100%)	MXPI	03/13/06	10:08
		Uncert:		+/-0.699	+/-0.689						
		TPU:		+/-0.699	+/-0.689						
QC1201048718	LCS										
Tritium		9.00			9.61	pCi/g	107	(75%-125%)		03/13/06	11:10
		Uncert:			+/-1.56						
		TPU:			+/-1.57						
QC1201048715	MB										
Tritium			U		0.184	pCi/g				03/13/06	09:21
		Uncert:			+/-0.702						
		TPU:			+/-0.702						
QC1201048717	157164005	MS									
Tritium		9.04	U	0.127	7.97	pCi/g	88	(75%-125%)		03/13/06	10:54
		Uncert:		+/-0.699	+/-1.49						
		TPU:		+/-0.699	+/-1.50						
Batch	511502										
QC1201050585	157164026	DUP									
Iron-55			U	-1.08	0.0809	pCi/g	0	(0% - 100%)	JSI	03/18/06	20:59
		Uncert:		+/-1.75	+/-1.91						
		TPU:		+/-1.75	+/-1.91						
QC1201050587	LCS										
Iron-55		39.4			41.4	pCi/g	105	(75%-125%)		03/18/06	22:17
		Uncert:			+/-2.73						
		TPU:			+/-3.60						

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 157164

Page 32 of 33

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Liquid Scintillation										
Batch	511502									
QC1201050584	MB									
Iron-55			U	0.722	pCi/g				03/18/06	19:57
				Uncert: +/-0.951						
				TPU: +/-0.952						
QC1201050586	157164026	MS								
Iron-55	50.1	U	-1.08	42.0	pCi/g	84	(75%-125%)		03/18/06	22:00
			Uncert: +/-1.75	+/-5.75						
			TPU: +/-1.75	+/-6.64						
Batch	511622									
QC1201050877	157164003	DUP								
Iron-55		U	0.112	U	-0.434	pCi/g	0	(0% - 100%)	JS1	03/23/06 04:58
			Uncert: +/-1.71	+/-1.53						
			TPU: +/-1.71	+/-1.53						
QC1201050879	LCS									
Iron-55	38.6			43.7	pCi/g	113	(75%-125%)		03/16/06	18:37
				Uncert: +/-4.05						
				TPU: +/-5.11						
QC1201050876	MB									
Iron-55			U	-0.0468	pCi/g				03/20/06	21:46
				Uncert: +/-1.19						
				TPU: +/-1.19						
QC1201050878	157164003	MS								
Iron-55	44.7	U	0.112	38.2	pCi/g	85	(75%-125%)		03/16/06	18:26
			Uncert: +/-1.71	+/-6.46						
			TPU: +/-1.71	+/-7.04						
Batch	512718									
QC1201053399	157164065	DUP								
Iron-55		U	0.0165	U	-0.376	pCi/g	0	(0% - 100%)	JS1	03/20/06 14:43
			Uncert: +/-1.43	+/-3.08						
			TPU: +/-1.43	+/-3.08						
QC1201053401	LCS									
Iron-55	44.4			42.6	pCi/g	96	(75%-125%)		03/20/06	17:05
				Uncert: +/-5.00						
				TPU: +/-5.59						
QC1201053398	MB									
Iron-55			U	1.25	pCi/g				03/20/06	12:39
				Uncert: +/-1.49						
				TPU: +/-1.49						
QC1201053400	157164065	MS								
Iron-55	93.5	U	0.0165	97.1	pCi/g	104	(75%-125%)		03/20/06	16:49
			Uncert: +/-1.43	+/-9.02						
			TPU: +/-1.43	+/-10.8						

Notes:

The Qualifiers in this report are defined as follows:

- B Target analyte was detected in the sample as well as the associated blank.
- BD Results below the MDC or low tracer recovery.

GENERAL ENGINEERING LABORATORIES, LLC
 2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 157164

Page 33 of 33

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
E										
H										
J										
U										
UI										
X										
d										
h										

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

** Indicates analyte is a surrogate compound.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Table of Contents

General Narrative	1
Chain of Custody and Supporting Documentation	5
Radiological Analysis	13
Sample Data Summary	65
Quality Control Data	137

General Narrative

CASE NARRATIVE
For
CONNECTICUT YANKEE
RE: Metal, Bedrock & Concrete
PO# 002332
Work Order: 157388
SDG: MSR #06-0328

March 13, 2006

Laboratory Identification:

General Engineering Laboratories, LLC

Mailing Address:

P.O. Box 30712
Charleston, South Carolina 29417

Express Mail Delivery and Shipping Address:

2040 Savage Road
Charleston, South Carolina 29407

Telephone Number:

(843) 556-8171

Summary:

Sample receipt

The sample(s) for this Project arrived at General Engineering Laboratories, LLC, (GEL) in Charleston, South Carolina on March 6, 2006. All sample containers arrived without any visible signs of tampering or breakage. The chain of custody contained the proper documentation and signatures.

The laboratory received the following sample(s):

<u>Sample ID</u>	<u>Client Sample ID</u>
157388001	3002-0000-193-Liner
157388002	3002-0000-193-C1C-01
157388003	3002-0000-193-C1C-02
157388004	3002-0000-193-RB
157388005	3002-0000-193-C1C-03
157388006	3002-0000-193-C1C-04
157388007	3002-0000-193-C1C-05
157388008	3002-0000-193-B-01

<u>Sample ID</u>	<u>Client Sample ID</u>
157388009	3002-0000-193-B-02
157388010	3002-0000-193-P
157388011	3002-0000-193-C3C-01
157388012	3002-0000-193-C3C-02
157388013	3002-0000-193-C5C-01
157388014	3002-0000-193-C5C-02
157388015	3100-0000-Bridging Steel S/G support ring
157388016	3100-0000-Bridging Steel RX Vessel Ring
157388017	3100-0000-Bridging Steel Inner wall ring
157388018	3100-0000-198-C1C-01
157388019	3100-0000-198-C1C-02
157388020	3100-0000-198-C1C-03
157388021	3100-0000-198-C1C-04
157388022	3100-0000-198-C2C-01
157388023	3100-0000-198-C3C-01
157388024	3100-0000-199-C1C-01
157388025	3100-0000-199-C1C-02
157388026	3100-0000-199-C1C-03
157388027	3100-0000-199-C1C-04
157388028	3100-0000-199-C2C-01
157388029	3100-0000-199-C4C-01

Items of Note:

There are no items of note.

Case Narrative:

Sample analyses were conducted using methodology as outlined in General Engineering Laboratories (GEL) Standard Operating Procedures. Any technical or administrative problems during analysis, data review, and reduction are listed below by analytical parameter.

Analytical Request:

Fifteen concrete samples were analyzed for CHGAM, Sr-90, Fe-55, Ni-63 and H-3.
Six concrete samples were analyzed for CHALL.
Six metal samples were analyzed for CHALL.
Two bedrock samples were analyzed for CHGAM

Internal Chain of Custody:

Custody was maintained for the sample(s).

Data Package:

The enclosed data package contains the following sections: Case Narrative, Chain of Custody and Supporting Documentation and all analytical fractions.

I certify that this data package is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or a designee, as verified by the following signature.



Cheryl Jones
Project Manager

**Chain of Custody
and
Supporting
Documentation**

Connecticut Yankee Atomic Power Company

362 Injun Hollow Road, East Hampton, CT 06424
860-267-2556

Chain of Custody Form

No. 2006-00087

Project Name: Haddam Neck Decommissioning			Media Code	Sample Type Code	Container Size & Type Code	Analyses Requested					Lab Use Only			
Contact Name & Phone: Jack McCarthy 860-267-2556 x 3024						CHGAM	CHALL	FSSHTD	FSSTRU	FSSOTHR	H-3 Fe-55 Sr-90 Ni-63	Comments: Box 3		
Analytical Lab (Name, City, State): General Engineering Laboratories 2040 Savage Road Charleston, SC 29407 ATT: Cheryl Jones (843-556-8171)												157388/		
Priority: <input type="checkbox"/> 30 D. <input type="checkbox"/> 14 D. <input checked="" type="checkbox"/> 7 D. Other:												Comment, Preservation		
Sample Designation	Date	Time												
3002-0000-193-Liner	2/14/06	1800	ME	CR	BP		X				ME = Metal			
3002-0000-193-C1C-01	2/14/06	1800	CT	CR	BP		X							
3002-0000-193-C1C-02	2/14/06	1800	CT	CR	BP		X							
3002-0000-193-RB	2/14/06	1800	ME	CR	BP		X				ME = Metal			
3002-0000-193-C1C-03	2/14/06	1800	CT	CR	BP	X				X				
3002-0000-193-C1C-04	2/14/06	1800	CT	CR	BP	X				X				
3002-0000-193-C1C-05	2/14/06	1800	CT	CR	BP	X				X				
3002-0000-193-B-01	2/14/06	2000	BR	CR	BP	X				X	BR = Bedrock.			
3002-0000-193-B-02	2/14/06	2000	BR	CR	BP	X				X	BR = Bedrock.			
3002-0000-193-P	2/14/06	1800	ME	CR	BP		X				ME = Metal			
3002-0000-193-C3C-01	2/14/06	2000	CT	CR	BP	X				X				
NOTES: PO #: 002332 MSR #:06-0328 <input checked="" type="checkbox"/> LTP QA <input type="checkbox"/> Radwaste QA <input type="checkbox"/> Non QA										Samples Shipped Via: <input checked="" type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Hand <input type="checkbox"/> Other		Internal Container Temp.: ___ Deg. C Custody Sealed? Y N Custody Seal Intact? Y N		
1) Relinquished By: <i>John W. Souter</i> Date/Time: 3/1/06 1350			2) Received By: <i>Chase</i> Date/Time: 3.6.06 8:00			Bill of Lading # 8544 5163 3013								
3) Relinquished By: _____ Date/Time: _____			4) Received By: _____ Date/Time: _____											
5) Relinquished By: _____ Date/Time: _____			6) Received By: _____ Date/Time: _____											

9

Connecticut Yankee Atomic Power Company						Chain of Custody Form						No. 2006-00088																			
362 Injun Hollow Road, East Hampton, CT 06424 860-267-2556																															
Project Name: Haddam Neck Decommissioning			Media Code	Sample Type Code	Container Size- & Type Code	Analyses Requested						Lab Use Only																			
Contact Name & Phone: Jack McCarthy 860-267-2556 x 3024						<table border="1" style="width:100%; text-align: center;"> <tr> <td style="width:10%;">CHGAM</td> <td style="width:10%;">CHALL</td> <td style="width:10%;">FSSHTD</td> <td style="width:10%;">FSSTRU</td> <td style="width:10%;">FSSOTHR</td> <td style="width:10%;">H-3 Fe-55 Sr-90 Ni-63</td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>						CHGAM	CHALL	FSSHTD	FSSTRU	FSSOTHR	H-3 Fe-55 Sr-90 Ni-63													Comments: Box 3	
CHGAM	CHALL	FSSHTD										FSSTRU	FSSOTHR	H-3 Fe-55 Sr-90 Ni-63																	
Analytical Lab (Name, City, State): General Engineering Laboratories 2040 Savage Road Charleston, SC 29407 ATT: Cheryl Jones (843-556-8171)																															
Priority: <input type="checkbox"/> 30 D. <input type="checkbox"/> 14 D. <input checked="" type="checkbox"/> 7 D. Other:																															
Sample Designation	Date	Time										Comment, Preservation	Lab Sample ID																		
3002-0000-193-C3C-02	2/14/06	2000	CT	CR	BP	X					X																				
3002-0000-193-C5C-01	2/14/06	2000	CT	CR	BP	X					X																				
3002-0000-193-C5C-02	2/14/06	2000	CT	CR	BP	X					X																				
NOTES: PO #: 002332 MSR #06-0328 <input checked="" type="checkbox"/> LTP QA <input type="checkbox"/> Radwaste QA <input type="checkbox"/> Non QA											Samples Shipped Via: <input checked="" type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Hand <input type="checkbox"/> Other		Internal Container Temp.: ____ Deg. C Custody Sealed? Y N Custody Seal Intact? Y N																		
1) Relinquished By <i>John J. Gahan</i> Date/Time <i>3/1/06 1350</i>			2) Received By <i>3-06 C. Gause</i> Date/Time <i>8:00</i>			Bill of Lading # 8544 5163 3013																									
3) Relinquished By Date/Time			4) Received By Date/Time																												
5) Relinquished By Date/Time			6) Received By Date/Time																												

L

Connecticut Yankee Atomic Power Company

362 Injun Hollow Road, East Hampton, CT 06424
860-267-2556

Chain of Custody Form

No. 2006-00092

Project Name: Haddam Neck Decommissioning			Media Code	Sample Type Code	Container Size- & Type Code	Analyses Requested						Lab Use Only		
Contact Name & Phone: Jack McCarthy 860-267-2556 x 3024						CHGAM	CHALL	FSSHTD	FSSSTRU	FSSOTHR	H-3 Fe-55 Sr-90 Ni-63	Comments: Box 3		
Analytical Lab (Name, City, State): General Engineering Laboratories 2040 Savage Road Charleston, SC 29407 ATT: Cheryl Jones (843-556-8171)														
Priority: <input type="checkbox"/> 30 D. <input type="checkbox"/> 14 D. <input checked="" type="checkbox"/> 7 D. Other:														
Sample Designation	Date	Time								Comment, Preservation	Lab Sample ID			
3100-0000-Bridging Steel S/G support ring	2/21/06	1500	ME	G	BP		X			ME=Metal				
3100-0000-Bridging Steel RX Vessel ring	2/21/06	1500	ME	G	BP		X			ME=Metal				
3100-0000-Bridging Steel Inner wall ring	2/21/06	1500	ME	G	BP		X			ME=Metal				
NOTES: PO #: 002332 MSR #:06-0328 <input checked="" type="checkbox"/> LTP QA <input type="checkbox"/> Radwaste QA <input type="checkbox"/> Non QA										Samples Shipped Via: <input checked="" type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Hand <input type="checkbox"/> Other		Internal Container Temp.: ____ Deg. C Custody Sealed? Y N Custody Seal Intact? Y N		
1) Relinquished By <i>John G. South</i>			Date/Time 3/1/06 1350			2) Received By <i>Cheryl Jones</i>			Date/Time 3.6.06 8:00			Bill of Lading # 8544 5163 3013		
3) Relinquished By			Date/Time			4) Received By			Date/Time					
5) Relinquished By			Date/Time			6) Received By			Date/Time					

8

Connecticut Yankee Atomic Power Company						Chain of Custody Form						No. 2006-00107		
362 Injun Hollow Road, East Hampton, CT 06424 860-267-2556														
Project Name: Haddam Neck Decommissioning			Media Code	Sample Type Code	Container Size & Type Code	Analyses Requested						Lab Use Only		
Contact Name & Phone: Jack McCarthy 860-267-2556 x 3024						CHGAM	CHALL	FSSHTD	FSSTRU	FSSOTHR	H-3 Fe-55 Sr-90 Ni-63	Comments: Box 3		
Analytical Lab (Name, City, State): General Engineering Laboratories 2040 Savage Road Charleston, SC 29407 ATT: Cheryl Jones (843-556-8171)														
Priority: 30 D <input type="checkbox"/> 14 D <input type="checkbox"/> 7 D <input checked="" type="checkbox"/> Other:														
Sample Designation	Date	Time												
3100-0000-198-C1C-01	2/16/06	1450	CT	CR	BP		X							
3100-0000-198-C1C-02	2/16/06	1450	CT	CR	BP		X							
3100-0000-198-C1C-03	2/16/06	1450	CT	CR	BP	X					X			
3100-0000-198-C1C-04	2/16/06	1450	CT	CR	BP	X					X			
3100-0000-198-C2C-01	2/16/06	1502	CT	CR	BP	X					X			
3100-0000-198-C3C-01	2/16/06	1515	CT	CR	BP	X					X			
NOTES: PO #: 002332 MSR #: 06-0328 <input checked="" type="checkbox"/> LTP QA <input type="checkbox"/> Radwaste QA <input type="checkbox"/> Non QA											Samples Shipped Via: <input checked="" type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Hand <input type="checkbox"/> Other		Internal Container Temp.: ____ Deg. C Custody Sealed? Y N Custody Seal Intact? Y N	
1) Relinquished By <i>[Signature]</i> Date/Time 3/1/06 1350			2) Received By <i>[Signature]</i> Date/Time 3.6.06 8:00			Bill of Lading # 8544 5163 3013								
3) Relinquished By _____ Date/Time _____			4) Received By _____ Date/Time _____											
5) Relinquished By _____ Date/Time _____			6) Received By _____ Date/Time _____											

6

Connecticut Yankee Atomic Power Company

362 Injun Hollow Road, East Hampton, CT 06424
860-267-2556

Chain of Custody Form

No. 2006-00108

Project Name: Haddam Neck Decommissioning			Media Code	Sample Type Code	Container Size- & Type Code	Analyses Requested					Lab Use Only			
Contact Name & Phone: Jack McCarthy 860-267-2556 x 3024						CHGAM	CHALL	FSSHTD	FSSTRU	FSSOTHR	H-3 Fe-55 Sr-90 Ni-63	Comments: Box 3 8544 5163		
Analytical Lab (Name, City, State): General Engineering Laboratories 2040 Savage Road Charleston, SC 29407 ATT: Cheryl Jones (843-556-8171)														
Priority: <input type="checkbox"/> 30 D. <input type="checkbox"/> 14 D. <input checked="" type="checkbox"/> 7 D. Other:														
Sample Designation	Date	Time								Comment, Preservation	Lab Sample ID			
3100-0000-199-C1C-01	2/14/06	1035	CT	CR	BP		X							
3100-0000-199-C1C-02	2/14/06	1035	CT	CR	BP		X							
3100-0000-199-C1C-03	2/14/06	1035	CT	CR	BP	X					X			
3100-0000-199-C1C-04	2/14/06	1035	CT	CR	BP	X					X			
3100-0000-199-C2C-01	2/14/06	1100	CT	CR	BP	X					X			
3100-0000-199-C4C-01	2/14/06	1456	CT	CR	BP	X					X			
NOTES: PO #: 002332 MSR #:06-0328 <input checked="" type="checkbox"/> LTP QA <input type="checkbox"/> Radwaste QA <input type="checkbox"/> Non QA									Samples Shipped Via: <input checked="" type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Hand <input type="checkbox"/> Other		Internal Container Temp.: ____ Deg. C Custody Sealed? Y N Custody Seal Intact? Y N			
1) Relinquished By <i>John V. Smith</i>			Date/Time 3/1/06 1350			2) Received By <i>C. Gause</i>			Date/Time 3.6.06 8:00			Bill of Lading # 8544 5163 3013		
3) Relinquished By			Date/Time			4) Received By			Date/Time					
5) Relinquished By			Date/Time			6) Received By			Date/Time					

10

Figure 1. Sample Check-in List

Date/Time Received: 3/6/06 8:00AM

SDG#: MSR#06-0328

Work Order Number: 157388

Shipping Container ID: 8544 5163 3013 Chain of Custody # 2006-00087 / 00092
00107
00108

- 1. Custody Seals on shipping container intact? Yes No
- 2. Custody Seals dated and signed? Yes No
- 3. Chain-of-Custody record present? Yes No
- 4. Cooler temperature 14°
- 5. Vermiculite/packing materials is: Wet Dry
- 6. Number of samples in shipping container: 29
- 7. Sample holding times exceeded? Yes No

8. Samples have:	
<input type="checkbox"/> tape	<input type="checkbox"/> hazard labels
<input type="checkbox"/> custody seals	<input checked="" type="checkbox"/> appropriate sample labels
9. Samples are:	
<input checked="" type="checkbox"/> in good condition	<input type="checkbox"/> leaking
<input type="checkbox"/> broken	<input type="checkbox"/> have air bubbles

10. Were any anomalies identified in sample receipt? Yes No

11. Description of anomalies (include sample numbers): _____

Sample Custodian/Laboratory: Cause Date: 3-6-06

Telephoned to: _____ On _____ By _____



SAMPLE RECEIPT & REVIEW FORM

PM use only

Client: <u>YANKEE</u>	SDG/ARCOC/Work Order: <u>157388</u>
Date Received: <u>3/6/06</u>	PM(A) Review (ensure non-conforming items are resolved prior to signing): <i>Clyde</i>
Received By: <u>CG</u>	

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?				Circle Applicable: seals broken damaged container leaking container other (describe)
2 Samples requiring cold preservation within (4 +/- 2 C)? Record preservation method.				Circle Coolant # ice bags blue ice dry ice none other (describe)
3 Chain of custody documents included with shipment?				
4 Sample containers intact and sealed?				Circle Applicable: seals broken damaged container leaking container other (describe)
5 Samples requiring chemical preservation at proper pH?				Sample ID's, containers affected and observed pH:
6 VOA vials free of headspace (defined as < 6mm bubble)?				Sample ID's and containers affected:
7 Are Encore containers present? (If yes, immediately deliver to VOA laboratory)				
8 Samples received within holding time?				Id's and tests affected:
9 Sample ID's on COC match ID's on bottles?				Sample ID's and containers affected:
10 Date & time on COC match date & time on bottles?				Sample ID's affected:
11 Number of containers received match number indicated on COC?				Sample ID's affected:
12 COC form is properly signed in relinquished/received sections?				
14 Air Bill ,Tracking #'s, & Additional Comments				

Suspected Hazard Information	Non-Regulated	Regulated	High Level	RSO RAD Receipt # _____ *If > x2 area background is observed on samples identified as "non-regulated/non-radioactive", contact the Radiation Safety group for further investigation.
A Radiological Classification?		✓		Maximum Counts Observed*: <u>100CPM</u>
B PCB Regulated?	✓			Comments:
C Shipped as DOT Hazardous Material? If yes, contact Waste Manager or ESH Manager.	✓			Hazard Class Shipped: UN#:
PM (or PMA) review of Hazard classification: _____				Initials: <u>CG</u> Date: <u>3/6/06</u>

RADIOLOGICAL ANALYSIS

**Radiochemistry Case Narrative
Connecticut Yankee Atomic Power Co. (YANK)
Work Order 157388**

Method/Analysis Information

Product:	Alphaspec Am241, Cm, Solid-TRU2,ALL2 (CT)
Analytical Method:	DOE EML HASL-300, Am-05-RC Modified
Prep Method:	Ash Soil Prep
Dry Soil Prep GL-RAD-A-021 Method:	Dry Soil Prep
Analytical Batch Number:	509826
Prep Batch Number:	509361
Dry Soil Prep GL-RAD-A-021 Batch Number:	509357

Sample ID	Client ID
157388001	3002-0000-193-Liner
157388004	3002-0000-193-RB
157388010	3002-0000-193-P
157388015	3100-0000-Bridging Steel S/G s
157388016	3100-0000-Bridging Steel RX Ve
157388017	3100-0000-Bridging Steel Inner
1201046757	Method Blank (MB)
1201046758	157388001(3002-0000-193-Liner) Sample Duplicate (DUP)
1201046759	157388001(3002-0000-193-Liner) Matrix Spike (MS)
1201046760	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-011 REV# 14.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157388001 (3002-0000-193-Liner).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Manual Integration

No manual integrations were performed on data in this batch.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product: Alphaspec Am241, Cm, Solid-TRU2,ALL2 (CT)

Analytical Method: DOE EML HASL-300, Am-05-RC Modified

Prep Method: Ash Soil Prep

Dry Soil Prep GL-RAD-A-021 Method: Dry Soil Prep

Analytical Batch Number: 509829

Prep Batch Number: 509151

Dry Soil Prep GL-RAD-A-021 Batch Number: 509147

Sample ID	Client ID
157388002	3002-0000-193-C1C-01
157388003	3002-0000-193-C1C-02
157388018	3100-0000-198-C1C-01
157388019	3100-0000-198-C1C-02
157388024	3100-0000-199-C1C-01
157388025	3100-0000-199-C1C-02
1201046769	Method Blank (MB)
1201046770	157388002(3002-0000-193-C1C-01) Sample Duplicate (DUP)
1201046771	157388002(3002-0000-193-C1C-01) Matrix Spike (MS)
1201046772	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-011 REV# 14.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157388002 (3002-0000-193-C1C-01).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Manual Integration

No manual integrations were performed on data in this batch.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product: Alphaspec Pu, Solid-TRU2,ALL2 (CT)
 Analytical Method: DOE EML HASL-300, Pu-11-RC Modified
 Prep Method: Ash Soil Prep
 Dry Soil Prep GL-RAD-A-021 Method: Dry Soil Prep
 Analytical Batch Number: 509827
 Prep Batch Number: 509361
 Dry Soil Prep GL-RAD-A-021 Batch Number: 509357

Sample ID	Client ID
157388001	3002-0000-193-Liner
157388004	3002-0000-193-RB
157388010	3002-0000-193-P
157388015	3100-0000-Bridging Steel S/G s
157388016	3100-0000-Bridging Steel RX Ve
157388017	3100-0000-Bridging Steel Inner
1201046761	Method Blank (MB)
1201046762	157388001(3002-0000-193-Liner) Sample Duplicate (DUP)
1201046763	157388001(3002-0000-193-Liner) Matrix Spike (MS)
1201046764	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-011 REV# 14.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157388001 (3002-0000-193-Liner).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Manual Integration

No manual integrations were performed on data in this batch.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product: Liquid Scint Pu241, Solid-TRU2,ALL2 (CT)
 Analytical Method: DOE EML HASL-300, Pu-11-RC Modified
 Prep Method: Ash Soil Prep
 Dry Soil Prep GL-RAD-A-021 Method: Dry Soil Prep
 Analytical Batch Number: 509828
 Prep Batch Number: 509361
 Dry Soil Prep GL-RAD-A-021 Batch Number: 509357

Sample ID	Client ID
157388001	3002-0000-193-Liner
157388004	3002-0000-193-RB
157388010	3002-0000-193-P
157388015	3100-0000-Bridging Steel S/G s
157388016	3100-0000-Bridging Steel RX Ve
157388017	3100-0000-Bridging Steel Inner
1201046765	Method Blank (MB)
1201046766	157388001(3002-0000-193-Liner) Sample Duplicate (DUP)
1201046767	157388001(3002-0000-193-Liner) Matrix Spike (MS)
1201046768	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-035 REV# 8.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157388001 (3002-0000-193-Liner).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Manual Integration

No manual integrations were performed on data in this batch.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product: Alphaspec Pu, Solid-TRU2,ALL2 (CT)
Analytical Method: DOE EML HASL-300, Pu-11-RC Modified
Prep Method: Ash Soil Prep
Dry Soil Prep GL-RAD-A-021 Method: Dry Soil Prep
Analytical Batch Number: 509830
Prep Batch Number: 509151
Dry Soil Prep GL-RAD-A-021 Batch Number: 509147

Sample ID	Client ID
157388002	3002-0000-193-C1C-01
157388003	3002-0000-193-C1C-02
157388018	3100-0000-198-C1C-01
157388019	3100-0000-198-C1C-02
157388024	3100-0000-199-C1C-01
157388025	3100-0000-199-C1C-02
1201046773	Method Blank (MB)
1201046774	157388002(3002-0000-193-C1C-01) Sample Duplicate (DUP)
1201046775	157388002(3002-0000-193-C1C-01) Matrix Spike (MS)
1201046776	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-011 REV# 14.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157388002 (3002-0000-193-C1C-01).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Manual Integration

No manual integrations were performed on data in this batch.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product: Liquid Scint Pu241, Solid-TRU2,ALL2 (CT)
 Analytical Method: DOE EML HASL-300, Pu-11-RC Modified
 Prep Method: Ash Soil Prep
 Dry Soil Prep GL-RAD-A-021 Method: Dry Soil Prep
 Analytical Batch Number: 509831
 Prep Batch Number: 509151
 Dry Soil Prep GL-RAD-A-021 Batch Number: 509147

Sample ID	Client ID
157388002	3002-0000-193-C1C-01
157388003	3002-0000-193-C1C-02
157388018	3100-0000-198-C1C-01
157388019	3100-0000-198-C1C-02
157388024	3100-0000-199-C1C-01
157388025	3100-0000-199-C1C-02
1201046777	Method Blank (MB)
1201046778	157388003(3002-0000-193-C1C-02) Sample Duplicate (DUP)
1201046779	157388003(3002-0000-193-C1C-02) Matrix Spike (MS)
1201046780	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-035 REV# 8.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157388003 (3002-0000-193-C1C-02).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Manual Integration

No manual integrations were performed on data in this batch.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product:	Gammasec, Gamma, GAM2,ALL2 (CT ingrowth waived)
Analytical Method:	EML HASL 300, 4.5.2.3
Prep Method:	Dry Soil Prep
Analytical Batch Number:	512597
Prep Batch Number:	509147

Sample ID	Client ID
157388002	3002-0000-193-C1C-01
157388003	3002-0000-193-C1C-02
157388005	3002-0000-193-C1C-03
157388006	3002-0000-193-C1C-04
157388007	3002-0000-193-C1C-05
157388008	3002-0000-193-B-01
157388009	3002-0000-193-B-02
157388011	3002-0000-193-C3C-01
157388012	3002-0000-193-C3C-02
157388013	3002-0000-193-C5C-01
157388014	3002-0000-193-C5C-02
157388018	3100-0000-198-C1C-01
157388019	3100-0000-198-C1C-02
157388020	3100-0000-198-C1C-03
1201053123	Method Blank (MB)
1201053124	157388002(3002-0000-193-C1C-01) Sample Duplicate (DUP)
1201053125	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-013 REV# 10.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157388002 (3002-0000-193-C1C-01).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Qualifier	Reason	Analyte	Sample
UI	Data rejected due to low abundance	Bismuth-214	1201053124
		Thallium-208	157388003
UI	Data rejected due to low abundance.	Actinium-228	157388014
UI	Data rejected due to no valid peak.	Bismuth-212	157388018
		Cobalt-60	157388018

Method/Analysis Information

Product: Gammaspec, Gamma, GAM2,ALL2 (CT ingrowth waived)
 Analytical Method: EML HASL 300, 4.5.2.3
 Prep Method: Dry Soil Prep
 Analytical Batch Number: 512598
 Prep Batch Number: 509357

Sample ID	Client ID
157388001	3002-0000-193-Liner
157388004	3002-0000-193-RB
157388010	3002-0000-193-P
157388015	3100-0000-Bridging Steel S/G s
157388016	3100-0000-Bridging Steel RX Ve
157388017	3100-0000-Bridging Steel Inner
1201053126	Method Blank (MB)
1201053127	157388001(3002-0000-193-Liner) Sample Duplicate (DUP)
1201053128	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-013 REV# 10.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157388001 (3002-0000-193-Liner).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:**Holding Time**

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Miscellaneous Information:**NCR Documentation**

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Qualifier	Reason	Analyte	Sample
UI	Data rejected due to high uncertainty.	Lead-212	1201053127
UI	Data rejected due to no valid peak.	Cobalt-60	157388001

Method/Analysis Information

Product:	Gammasec, Gamma, GAM2,ALL2 (CT ingrowth waived)
Analytical Method:	EML HASL 300, 4.5.2.3
Prep Method:	Dry Soil Prep
Analytical Batch Number:	512599
Prep Batch Number:	509149

Sample ID	Client ID
157388021	3100-0000-198-C1C-04
157388022	3100-0000-198-C2C-01
157388023	3100-0000-198-C3C-01
157388024	3100-0000-199-C1C-01
157388025	3100-0000-199-C1C-02
157388026	3100-0000-199-C1C-03
157388027	3100-0000-199-C1C-04
157388028	3100-0000-199-C2C-01
157388029	3100-0000-199-C4C-01
1201053129	Method Blank (MB)
1201053130	157388021(3100-0000-198-C1C-04) Sample Duplicate (DUP)
1201053131	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-013 REV# 10.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157388021 (3100-0000-198-C1C-04).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Additional Comments

The relative percent difference between samples 1201053130 (3100-0000-198-C1C-04) and 157388021 (3100-0000-198-C1C-04) for Pb-212 did not meet the duplication criteria. However, when a relative error ratio is calculated, precision is shown at 1.7009.

Qualifier information

Qualifier	Reason	Analyte	Sample
UI	Data rejected due to low abundance.	Cesium-134	1201053130
		Cobalt-60	157388022
		Thallium-208	157388021

Method/Analysis Information

Product:	GFPC, Sr90, solid Quick TAT
Analytical Method:	EPA 905.0 Modified
Prep Method:	Ash Soil Prep
Dry Soil Prep GL-RAD-A-021 Method:	Dry Soil Prep
Analytical Batch Number:	510280
Prep Batch Number:	509361
Dry Soil Prep GL-RAD-A-021 Batch Number:	509357

Sample ID	Client ID
157388001	3002-0000-193-Liner
157388004	3002-0000-193-RB
157388010	3002-0000-193-P
157388015	3100-0000-Bridging Steel S/G s
157388016	3100-0000-Bridging Steel RX Ve
157388017	3100-0000-Bridging Steel Inner
1201047863	Method Blank (MB)
1201047864	157388015(3100-0000-Bridging Steel S/G s) Sample Duplicate (DUP)
1201047865	157388015(3100-0000-Bridging Steel S/G s) Matrix Spike (MS)
1201047866	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-004 REV# 9.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157388015 (3100-0000-Bridging Steel S/G s).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Chemical Recoveries

All chemical recoveries meet the required acceptance limits for this sample set.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product:	GFPC, Sr90, solid Quick TAT
Analytical Method:	EPA 905.0 Modified
Prep Method:	Ash Soil Prep
Dry Soil Prep GL-RAD-A-021 Method:	Dry Soil Prep
Analytical Batch Number:	510281
Prep Batch Number:	509151
Dry Soil Prep GL-RAD-A-021 Batch Number:	509147

Sample ID	Client ID
157388002	3002-0000-193-C1C-01
157388003	3002-0000-193-C1C-02
157388005	3002-0000-193-C1C-03
157388006	3002-0000-193-C1C-04
157388007	3002-0000-193-C1C-05
157388008	3002-0000-193-B-01
157388009	3002-0000-193-B-02
157388011	3002-0000-193-C3C-01
157388012	3002-0000-193-C3C-02
157388013	3002-0000-193-C5C-01
157388014	3002-0000-193-C5C-02
157388018	3100-0000-198-C1C-01
157388019	3100-0000-198-C1C-02
157388020	3100-0000-198-C1C-03
1201047867	Method Blank (MB)
1201047868	157388013(3002-0000-193-C5C-01) Sample Duplicate (DUP)
1201047869	157388013(3002-0000-193-C5C-01) Matrix Spike (MS)
1201047870	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-004 REV# 9.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157388013 (3002-0000-193-C5C-01).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

Sample 157388011 (3002-0000-193-C3C-01) was recounted due to being originally counted on a detector that did not meet daily background and efficiency checks. Samples 157388005 (3002-0000-193-C1C-03) and 157388007 (3002-0000-193-C1C-05) were recounted due to a negative result greater than three times the error. Sample 1201047869 (3002-0000-193-C5C-01) was recounted due to low/high recovery.

Chemical Recoveries

All chemical recoveries meet the required acceptance limits for this sample set.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product: GFPC, Sr90, solid Quick TAT
 Analytical Method: EPA 905.0 Modified
 Prep Method: Ash Soil Prep
 Dry Soil Prep GL-RAD-A-021 Method: Dry Soil Prep
 Analytical Batch Number: 510283
 Prep Batch Number: 509152
 Dry Soil Prep GL-RAD-A-021 Batch Number: 509149

Sample ID	Client ID
157388021	3100-0000-198-C1C-04
157388022	3100-0000-198-C2C-01
157388023	3100-0000-198-C3C-01
157388024	3100-0000-199-C1C-01
157388025	3100-0000-199-C1C-02
157388026	3100-0000-199-C1C-03
157388027	3100-0000-199-C1C-04
157388028	3100-0000-199-C2C-01
157388029	3100-0000-199-C4C-01
1201047871	Method Blank (MB)
1201047872	157388021(3100-0000-198-C1C-04) Sample Duplicate (DUP)
1201047873	157388021(3100-0000-198-C1C-04) Matrix Spike (MS)
1201047874	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-004 REV# 9.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157388021 (3100-0000-198-C1C-04).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

Samples 157388022 (3100-0000-198-C2C-01) and 157388028 (3100-0000-199-C2C-01) were recounted due to be originally counted on detectors that did not meet daily background and efficiency checks.

Chemical Recoveries

All chemical recoveries meet the required acceptance limits for this sample set.

Miscellaneous Information:

NCR Documentation

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product: Liquid Scint Tc99, Solid-HTD2,ALL2 (CT)
Analytical Method: DOE EML HASL-300, Tc-02-RC Modified
Analytical Batch Number: 510189

Sample ID	Client ID
157388002	3002-0000-193-C1C-01
157388003	3002-0000-193-C1C-02
157388018	3100-0000-198-C1C-01
157388019	3100-0000-198-C1C-02
157388024	3100-0000-199-C1C-01
157388025	3100-0000-199-C1C-02
1201047588	Method Blank (MB)
1201047589	157388024(3100-0000-199-C1C-01) Sample Duplicate (DUP)
1201047590	157388024(3100-0000-199-C1C-01) Matrix Spike (MS)
1201047591	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-005 REV# 12.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157388024 (3100-0000-199-C1C-01).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:**Holding Time**

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Miscellaneous Information:**NCR Documentation**

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product:	Liquid Scint Tc99, Solid-HTD2,ALL2 (CT)
Analytical Method:	DOE EML HASL-300, Tc-02-RC Modified
Analytical Batch Number:	514613

Sample ID	Client ID
157388001	3002-0000-193-Liner
157388004	3002-0000-193-RB
157388010	3002-0000-193-P
157388015	3100-0000-Bridging Steel S/G s
157388016	3100-0000-Bridging Steel RX Ve
157388017	3100-0000-Bridging Steel Inner
1201057347	Method Blank (MB)
1201057348	157388001(3002-0000-193-Liner) Sample Duplicate (DUP)
1201057349	157388001(3002-0000-193-Liner) Matrix Spike (MS)
1201057350	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-005 REV# 12.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157388001 (3002-0000-193-Liner).

QC Information

Refer to Non-Conformance Report.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

Sample 1201057347 (MB) was recounted due to a suspected blank false positive. Samples were reprepared due to high blank activity.

Miscellaneous Information:**NCR Documentation**

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. The following NCR was generated for this SDG: NCR 305922 was generated due to Failed Recovery for MS/PS. 1. Matrix spike 1201057349 did not meet the recovery requirement. All other quality control samples met their requirements. Sample activity was verified by previous prep results. The client was contacted, and permission was received to report the data. 1. Reporting results.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product:	Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)
Analytical Method:	DOE RESL Fe-1, Modified
Prep Method:	Ash Soil Prep
Dry Soil Prep GL-RAD-A-021 Method:	Dry Soil Prep
Analytical Batch Number:	510184
Prep Batch Number:	509361
Dry Soil Prep GL-RAD-A-021 Batch Number:	509357

Sample ID	Client ID
157388001	3002-0000-193-Liner
157388004	3002-0000-193-RB
157388010	3002-0000-193-P
157388015	3100-0000-Bridging Steel S/G s
157388016	3100-0000-Bridging Steel RX Ve
157388017	3100-0000-Bridging Steel Inner
1201047568	Method Blank (MB)
1201047569	157388004(3002-0000-193-RB) Sample Duplicate (DUP)
1201047570	157388004(3002-0000-193-RB) Matrix Spike (MS)
1201047571	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-040 REV# 3.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157388004 (3002-0000-193-RB).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

Sample 1201047568 (MB) was recounted due to high MDA.

Miscellaneous Information:**NCR Documentation**

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product:	Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)
Analytical Method:	DOE RESL Fe-1, Modified
Prep Method:	Ash Soil Prep
Dry Soil Prep GL-RAD-A-021 Method:	Dry Soil Prep
Analytical Batch Number:	510186
Prep Batch Number:	509151
Dry Soil Prep GL-RAD-A-021 Batch Number:	509147

Sample ID	Client ID
157388002	3002-0000-193-C1C-01
157388003	3002-0000-193-C1C-02
157388005	3002-0000-193-C1C-03
157388006	3002-0000-193-C1C-04
157388007	3002-0000-193-C1C-05
157388008	3002-0000-193-B-01
157388009	3002-0000-193-B-02
157388011	3002-0000-193-C3C-01
157388012	3002-0000-193-C3C-02
157388013	3002-0000-193-C5C-01
157388014	3002-0000-193-C5C-02
157388018	3100-0000-198-C1C-01
1201047576	Method Blank (MB)
1201047577	157388005(3002-0000-193-C1C-03) Sample Duplicate (DUP)
1201047578	157388005(3002-0000-193-C1C-03) Matrix Spike (MS)
1201047579	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-040 REV# 3.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157388005 (3002-0000-193-C1C-03).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:**Holding Time**

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

Samples 1201047576 (MB), 1201047577 (3002-0000-193-C1C-03), 157388007 (3002-0000-193-C1C-05) and 157388011 (3002-0000-193-C3C-01) were recounted due to high MDAs.

Miscellaneous Information:**NCR Documentation**

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product:	Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)
Analytical Method:	DOE RESL Fe-1, Modified
Prep Method:	Ash Soil Prep
Dry Soil Prep GL-RAD-A-021 Method:	Dry Soil Prep
Analytical Batch Number:	510286
Prep Batch Number:	509151
Dry Soil Prep GL-RAD-A-021 Batch Number:	509147

Sample ID	Client ID
157388019	3100-0000-198-C1C-02
157388020	3100-0000-198-C1C-03
157388021	3100-0000-198-C1C-04
157388022	3100-0000-198-C2C-01
157388023	3100-0000-198-C3C-01
157388024	3100-0000-199-C1C-01
157388025	3100-0000-199-C1C-02
157388026	3100-0000-199-C1C-03
157388027	3100-0000-199-C1C-04
157388028	3100-0000-199-C2C-01
157388029	3100-0000-199-C4C-01
1201047880	Method Blank (MB)
1201047881	157388027(3100-0000-199-C1C-04) Sample Duplicate (DUP)
1201047882	157388027(3100-0000-199-C1C-04) Matrix Spike (MS)
1201047883	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-040 REV# 3.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157388027 (3100-0000-199-C1C-04).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:**Holding Time**

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Miscellaneous Information:**NCR Documentation**

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product:	Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)
Analytical Method:	DOE RESL Ni-1, Modified
Prep Method:	Ash Soil Prep
Dry Soil Prep GL-RAD-A-021 Method:	Dry Soil Prep
Analytical Batch Number:	510185
Prep Batch Number:	509361
Dry Soil Prep GL-RAD-A-021 Batch Number:	509357

Sample ID	Client ID
157388001	3002-0000-193-Liner
157388004	3002-0000-193-RB
157388010	3002-0000-193-P
157388015	3100-0000-Bridging Steel S/G s
157388016	3100-0000-Bridging Steel RX Ve
157388017	3100-0000-Bridging Steel Inner
1201047572	Method Blank (MB)
1201047573	157388004(3002-0000-193-RB) Sample Duplicate (DUP)
1201047574	157388004(3002-0000-193-RB) Matrix Spike (MS)
1201047575	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-022 REV# 7.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157388004 (3002-0000-193-RB).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Miscellaneous Information:**NCR Documentation**

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product:	Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)
Analytical Method:	DOE RESL Ni-1, Modified
Prep Method:	Ash Soil Prep
Dry Soil Prep GL-RAD-A-021 Method:	Dry Soil Prep
Analytical Batch Number:	510187
Prep Batch Number:	509151
Dry Soil Prep GL-RAD-A-021 Batch Number:	509147

Sample ID	Client ID
157388002	3002-0000-193-C1C-01
157388003	3002-0000-193-C1C-02
157388005	3002-0000-193-C1C-03
157388006	3002-0000-193-C1C-04
157388007	3002-0000-193-C1C-05
157388008	3002-0000-193-B-01
157388009	3002-0000-193-B-02
157388011	3002-0000-193-C3C-01
157388012	3002-0000-193-C3C-02
157388013	3002-0000-193-C5C-01
157388014	3002-0000-193-C5C-02
157388018	3100-0000-198-C1C-01
1201047580	Method Blank (MB)
1201047581	157388008(3002-0000-193-B-01) Sample Duplicate (DUP)
1201047582	157388008(3002-0000-193-B-01) Matrix Spike (MS)
1201047583	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-022 REV# 7.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157388008 (3002-0000-193-B-01).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:**Holding Time**

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Miscellaneous Information:**NCR Documentation**

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product:	Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)
Analytical Method:	DOE RESL Ni-1, Modified
Prep Method:	Ash Soil Prep
Dry Soil Prep GL-RAD-A-021 Method:	Dry Soil Prep
Analytical Batch Number:	510288
Prep Batch Number:	509151
Dry Soil Prep GL-RAD-A-021 Batch Number:	509147

Sample ID	Client ID
157388019	3100-0000-198-C1C-02
157388020	3100-0000-198-C1C-03
157388021	3100-0000-198-C1C-04
157388022	3100-0000-198-C2C-01
157388023	3100-0000-198-C3C-01
157388024	3100-0000-199-C1C-01
157388025	3100-0000-199-C1C-02
157388026	3100-0000-199-C1C-03
157388027	3100-0000-199-C1C-04
157388028	3100-0000-199-C2C-01
157388029	3100-0000-199-C4C-01
1201047889	Method Blank (MB)
1201047890	157388024(3100-0000-199-C1C-01) Sample Duplicate (DUP)
1201047891	157388024(3100-0000-199-C1C-01) Matrix Spike (MS)
1201047892	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-022 REV# 7.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157388024 (3100-0000-199-C1C-01).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:**Holding Time**

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Miscellaneous Information:**NCR Documentation**

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product:	LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)
Analytical Method:	EPA 906.0 Modified
Analytical Batch Number:	510190

Sample ID	Client ID
157388001	3002-0000-193-Liner
157388004	3002-0000-193-RB
157388010	3002-0000-193-P
157388015	3100-0000-Bridging Steel S/G s
157388016	3100-0000-Bridging Steel RX Ve
157388017	3100-0000-Bridging Steel Inner
1201047592	Method Blank (MB)
1201047593	157388016(3100-0000-Bridging Steel RX Ve) Sample Duplicate (DUP)
1201047594	157388016(3100-0000-Bridging Steel RX Ve) Matrix Spike (MS)
1201047595	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-002 REV# 10.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157388016 (3100-0000-Bridging Steel RX Ve).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Miscellaneous Information:**NCR Documentation**

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product:	LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)
Analytical Method:	EPA 906.0 Modified
Analytical Batch Number:	510191

Sample ID	Client ID
157388002	3002-0000-193-C1C-01
157388003	3002-0000-193-C1C-02
157388005	3002-0000-193-C1C-03
157388006	3002-0000-193-C1C-04
157388007	3002-0000-193-C1C-05
157388008	3002-0000-193-B-01
157388009	3002-0000-193-B-02
157388011	3002-0000-193-C3C-01
157388012	3002-0000-193-C3C-02
157388013	3002-0000-193-C5C-01
157388014	3002-0000-193-C5C-02
157388018	3100-0000-198-C1C-01
1201047601	Method Blank (MB)
1201047602	157388011(3002-0000-193-C3C-01) Sample Duplicate (DUP)
1201047603	157388011(3002-0000-193-C3C-01) Matrix Spike (MS)
1201047604	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-002 REV# 10.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157388011 (3002-0000-193-C3C-01).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:**Holding Time**

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

Samples 1201047602 (3002-0000-193-C3C-01), 157388007 (3002-0000-193-C1C-05), 157388011 (3002-0000-193-C3C-01), 157388012 (3002-0000-193-C3C-02) and 157388018 (3100-0000-198-C1C-01) were recounted due to high MDAs.

Miscellaneous Information:**NCR Documentation**

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product: LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)

Analytical Method: EPA 906.0 Modified

Analytical Batch Number: 510291

Sample ID	Client ID
157388019	3100-0000-198-C1C-02
157388020	3100-0000-198-C1C-03
157388021	3100-0000-198-C1C-04
157388022	3100-0000-198-C2C-01
157388023	3100-0000-198-C3C-01
157388024	3100-0000-199-C1C-01
157388025	3100-0000-199-C1C-02
157388026	3100-0000-199-C1C-03
157388027	3100-0000-199-C1C-04
157388028	3100-0000-199-C2C-01
157388029	3100-0000-199-C4C-01
1201047893	Method Blank (MB)
1201047894	157388019(3100-0000-198-C1C-02) Sample Duplicate (DUP)
1201047895	157388019(3100-0000-198-C1C-02) Matrix Spike (MS)
1201047896	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-002 REV# 10.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157388019 (3100-0000-198-C1C-02).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:**Holding Time**

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

Samples 1201047894 (3100-0000-198-C1C-02), 157388019 (3100-0000-198-C1C-02), 157388020 (3100-0000-198-C1C-03), 157388021 (3100-0000-198-C1C-04), 157388022 (3100-0000-198-C2C-01), 157388023 (3100-0000-198-C3C-01), 157388024 (3100-0000-199-C1C-01), 157388025 (3100-0000-199-C1C-02), 157388026 (3100-0000-199-C1C-03), 157388027 (3100-0000-199-C1C-04), 157388028 (3100-0000-199-C2C-01) and 157388029 (3100-0000-199-C4C-01) were recounted due to high MDAs.

Miscellaneous Information:**NCR Documentation**

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product:	Liquid Scint C14, Solid-HTD2,ALL2 (CT)
Analytical Method:	EPA EERF C-01 Modified
Analytical Batch Number:	510197

Sample ID	Client ID
157388001	3002-0000-193-Liner
157388004	3002-0000-193-RB
157388010	3002-0000-193-P
157388015	3100-0000-Bridging Steel S/G s
157388016	3100-0000-Bridging Steel RX Ve
157388017	3100-0000-Bridging Steel Inner
1201047614	Method Blank (MB)
1201047615	157388017(3100-0000-Bridging Steel Inner) Sample Duplicate (DUP)
1201047616	157388017(3100-0000-Bridging Steel Inner) Matrix Spike (MS)
1201047617	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-003 REV# 8.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157388017 (3100-0000-Bridging Steel Inner).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Miscellaneous Information:**NCR Documentation**

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product: Liquid Scint C14, Solid-HTD2,ALL2 (CT)
Analytical Method: EPA EERF C-01 Modified
Analytical Batch Number: 510285

Sample ID	Client ID
157388002	3002-0000-193-C1C-01
157388003	3002-0000-193-C1C-02
157388018	3100-0000-198-C1C-01
157388019	3100-0000-198-C1C-02
157388024	3100-0000-199-C1C-01
157388025	3100-0000-199-C1C-02
1201047876	Method Blank (MB)
1201047877	157388025(3100-0000-199-C1C-02) Sample Duplicate (DUP)
1201047878	157388025(3100-0000-199-C1C-02) Matrix Spike (MS)
1201047879	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-003 REV# 8.

Calibration Information:**Calibration Information**

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:**Blank Information**

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 157388025 (3100-0000-199-C1C-02).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:**Holding Time**

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Miscellaneous Information:**NCR Documentation**

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not generated for this SDG.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Review Validation:

GEL requires all analytical data to be verified by a qualified data validator. In addition, all data designated for CLP or CLP-like packaging will receive a third level validation upon completion of the data package.

The following data validator verified the information presented in this case narrative:

Reviewer/Date: Heather S. Clow 4/6/06

COMPANY - WIDE NONCONFORMANCE REPORT			
Mo. Day Yr. 06-APR-06	Division: Radiochemistry	Quality Criteria: Specifications	Type: Process
Instrument Type: LSC	Test / Method: DOE EML HASL-300, Tc-02-RC Modified	Matrix Type: Solid	Client Code: YANK
Batch ID: 514613	Sample Numbers: See Below		
Potentially affected work order(s)(SDG): 157388(MSR#06-0328)			
Application Issues: Failed Recovery for MS/PS			
Specification and Requirements Nonconformance Description:		NRG Disposition:	
1. Matrix spike 1201057349 did not meet the recovery requirement. All other quality control samples met their requirements. Sample activity was verified by previous prep results. The client was contacted, and permission was received to report the data.		1. Reporting results.	

Originator's Name:
 John Parker 06-APR-06

Data Validator/Group Leader:
 Heather Anderson 06-APR-06

Quality Review:

Director:

SAMPLE DATA SUMMARY

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report for

YANK001 Connecticut Yankee Atomic Power Co.

Client SDG: MSR#06-0328 GEL Work Order: 157388

The Qualifiers in this report are defined as follows:

- * Indicates that a quality control analyte recovery is outside of specified acceptance criteria.
- < Result is less than amount reported.
- > Result is greater than amount reported.
- B Target analyte was detected in the sample as well as the associated blank.
- BD Results below the MDC or low tracer recovery.
- D Sample has been diluted and reanalyzed after initially exceeding inst. calibration range
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value.
- P The response between the confirmation and the primary columns is >40% Different.
- R Sample results are rejected.
- U Target analyte was analyzed for but not detected above the MDL or LOD.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- Y QC Samples were not spiked with this compound.
- Z Paint Filter qualifier: Particulates passed through the filter. No free liquids were observed.
- d The 2:1 depletion requirement was not met for this sample
- h Sample preparation or preservation holding time exceeded.
- ND The analyte concentration is not detected above the reporting limit.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

** Indicates the analyte is a surrogate compound.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Cheryl Jones.



Reviewed by _____

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut, 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID:	3002-0000-193-Liner	Project:	YANK01204
Sample ID:	157388001	Client ID:	YANK001
Matrix:	ME	Vol. Recv.:	
Collect Date:	14-FEB-06		
Receive Date:	06-MAR-06		
Collector:	Client		
Moisture:	0%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec Am241, Cm, Solid-TRU2,ALL2 (CT)</i>													
Americium-241	U	-0.00446	+/-0.0122	0.00	+/-0.0122	0.0169	pCi/g		BJB1	03/12/06	0811	509826	1
Curium-242	U	0.00	+/-0.0137	0.00	+/-0.0137	0.0189	pCi/g						
Curium-243/244	U	0.00	+/-0.0122	0.00	+/-0.0122	0.0169	pCi/g						
<i>Alphaspec Pu, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-238	U	0.00749	+/-0.0205	0.0171	+/-0.0205	0.0496	pCi/g		BJB1	03/11/06	0934	509827	2
Plutonium-239/240	U	-0.0191	+/-0.00998	0.0242	+/-0.0101	0.0637	pCi/g						
<i>Liquid Scint Pu241, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-241	U	0.00	+/-2.14	1.80	+/-2.14	3.67	pCi/g		BJB1	03/18/06	0437	509828	3
Rad Gamma Spec Analysis													
<i>Gammasppec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228	U	0.000129	+/-0.107	0.0773	+/-0.104	0.175	pCi/g		MJH1	03/20/06	1921	512598	4
Americium-241	U	0.0561	+/-0.0974	0.0822	+/-0.0955	0.177	pCi/g						
Bismuth-212	U	-0.0284	+/-0.150	0.119	+/-0.147	0.279	pCi/g						
Bismuth-214	U	0.018	+/-0.0468	0.0418	+/-0.0459	0.0923	pCi/g						
Cesium-134	U	-0.00786	+/-0.0221	0.0167	+/-0.0217	0.0395	pCi/g						
Cesium-137	U	0.0319	+/-0.0246	0.020	+/-0.0241	0.045	pCi/g						
Cobalt-60	UUI	0.00	+/-0.0393	0.0136	+/-0.0385	0.035	pCi/g						
Europium-152	U	-0.00676	+/-0.058	0.0472	+/-0.0568	0.104	pCi/g						
Europium-154	U	-0.03	+/-0.0733	0.0552	+/-0.0718	0.131	pCi/g						
Europium-155	U	-0.0271	+/-0.0577	0.0503	+/-0.0565	0.109	pCi/g						
Lead-212	U	0.0426	+/-0.0372	0.0351	+/-0.0364	0.0749	pCi/g						
Lead-214	U	0.00469	+/-0.0431	0.0362	+/-0.0422	0.0795	pCi/g						
Manganese-54	U	-0.0185	+/-0.0425	0.0173	+/-0.0417	0.0401	pCi/g						
Niobium-94	U	-0.00471	+/-0.0204	0.0164	+/-0.020	0.0372	pCi/g						
Potassium-40	U	0.244	+/-0.305	0.154	+/-0.299	0.385	pCi/g						
Radium-226	U	0.018	+/-0.0468	0.0418	+/-0.0459	0.0923	pCi/g						
Silver-108m	U	0.00296	+/-0.0204	0.0181	+/-0.020	0.040	pCi/g						
Thallium-208	U	-0.0033	+/-0.0245	0.0204	+/-0.024	0.0455	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	0.00857	+/-0.0195	0.0202	+/-0.0195	0.0449	pCi/g		BXF1	03/10/06	1849	510280	5
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium	U	0.220	+/-0.763	0.634	+/-0.763	1.31	pCi/g		MXP1	03/20/06	0158	510190	6

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

 : East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID: 3002-0000-193-Liner
Sample ID: 157388001

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Liquid Scintillation Analysis													
<i>Liquid Scint C14, Solid-HTD2,ALL2 (CT)</i>													
Carbon-14	U	-0.139	+/-0.177	0.152	+/-0.177	0.314	pCi/g		MXP1	03/18/06	1513	510197	7
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55		2.01	+/-1.02	0.683	+/-1.02	1.39	pCi/g		SLN1	03/22/06	1202	510184	8
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	0.261	+/-0.754	0.625	+/-0.754	1.29	pCi/g		SLN1	03/20/06	2315	510185	9
<i>Liquid Scint Tc99, Solid-HTD2,ALL2 (CT)</i>													
Technetium-99		0.502	+/-0.237	0.188	+/-0.237	0.384	pCi/g		SLN1	04/02/06	0340	514613	10

Solid Preparation

Laboratory Composite – leach

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
GL-RAD-A-026	Laboratory sample composite				509146

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, Am-05-RC Modified
2	DOE EML HASL-300, Pu-11-RC Modified
3	DOE EML HASL-300, Pu-11-RC Modified
4	EML HASL 300, 4.5.2.3
5	EPA 905.0 Modified
6	EPA 906.0 Modified
7	EPA EERF C-01 Modified
8	DOE RESL Fe-1, Modified
9	DOE RESL Ni-1, Modified
10	DOE EML HASL-300, Tc-02-RC Modified
11	DOE EML HASL-300, Tc-02-RC Modified
12	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Americium-243	Alphaspec Am241, Cm, Solid-TR1	101	(15%-125%)
Plutonium-242	Alphaspec Pu, Solid-TRU2,ALL2	94	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Pu241, Solid-TRU2, /	92	(25%-125%)

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID: 3002-0000-193-Liner
Sample ID: 157388001
Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Carrier/Tracer Recovery		GFPC, Sr90, solid	Quick TAT		94		(25%-125%)						
Carrier/Tracer Recovery		Liquid Scint Fe55, Solid-HTD2,A			90		(15%-125%)						
Carrier/Tracer Recovery		Liquid Scint Ni63, Solid-HTD2,A			66		(25%-125%)						
Carrier/Tracer Recovery		Liquid Scint Tc99, Solid-HTD2,A			104		(15%-125%)						

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID:	3002-0000-193-C1C-01	Project:	YANK01204
Sample ID:	157388002	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	14-FEB-06		
Receive Date:	06-MAR-06		
Collector:	Client		
Moisture:	5.98%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec Am241, Cm, Solid-TRU2,ALL2 (CT)</i>													
Americium-241	U	0.00236	+/-0.013	0.0101	+/-0.0131	0.0442	pCi/g		JXG1	03/16/06	0838	509829	1
Curium-242	U	0.0202	+/-0.028	0.00	+/-0.0281	0.0273	pCi/g						
Curium-243/244	U	0.00	+/-0.0174	0.00	+/-0.0174	0.0241	pCi/g						
<i>Alphaspec Pu, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-238	U	-0.0014	+/-0.0118	0.00667	+/-0.0118	0.0292	pCi/g		JXG1	03/16/06	1010	509830	2
Plutonium-239/240	U	0.00351	+/-0.0217	0.0211	+/-0.0217	0.058	pCi/g						
<i>Liquid Scint Pu241, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-241	U	-0.457	+/-1.87	1.58	+/-1.87	3.23	pCi/g		JXG1	03/21/06	0750	509831	3
Rad Gamma Spec Analysis													
<i>Gammastec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228	U	0.622	+/-0.402	0.354	+/-0.394	0.717	pCi/g		MJH1	03/20/06	1010	512597	4
Americium-241	U	-0.281	+/-0.364	0.301	+/-0.356	0.611	pCi/g						
Bismuth-212	U	-0.635	+/-0.869	0.615	+/-0.852	1.25	pCi/g						
Bismuth-214		0.452	+/-0.235	0.126	+/-0.230	0.256	pCi/g						
Cesium-134	U	0.174	+/-0.154	0.0946	+/-0.151	0.192	pCi/g						
Cesium-137	U	0.025	+/-0.0921	0.0774	+/-0.0902	0.157	pCi/g						
Cobalt-60		25.5	+/-0.425	0.0538	+/-0.417	0.112	pCi/g						
Europium-152		32.5	+/-0.634	0.165	+/-0.622	0.336	pCi/g						
Europium-154		2.09	+/-0.395	0.264	+/-0.387	0.539	pCi/g						
Europium-155	U	0.143	+/-0.219	0.199	+/-0.214	0.401	pCi/g						
Lead-212		0.371	+/-0.139	0.0984	+/-0.136	0.199	pCi/g						
Lead-214		0.605	+/-0.184	0.116	+/-0.180	0.235	pCi/g						
Manganese-54	U	0.116	+/-0.109	0.0913	+/-0.107	0.186	pCi/g						
Niobium-94	U	-0.0365	+/-0.082	0.0674	+/-0.0803	0.137	pCi/g						
Potassium-40		8.54	+/-0.977	0.287	+/-0.957	0.615	pCi/g						
Radium-226		0.452	+/-0.235	0.126	+/-0.230	0.256	pCi/g						
Silver-108m	U	-0.00818	+/-0.066	0.0572	+/-0.0647	0.116	pCi/g						
Thallium-208	U	0.056	+/-0.099	0.0801	+/-0.0971	0.163	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	-0.00341	+/-0.0193	0.0231	+/-0.0193	0.0518	pCi/g		BXF1	03/16/06	1412	510281	5
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium		246	+/-7.05	1.63	+/-8.21	3.39	pCi/g		CHS1	03/19/06	0935	510191	6

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power

Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424

Contact: Mr. Jack McCarthy

Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID: 3002-0000-193-C1C-01

Sample ID: 157388002

Project: YANK01204

Client ID: YANK001

Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Carrier/Tracer Recovery		Liquid Scint Pu241, Solid-TRU2, /			100		(25%-125%)						
Carrier/Tracer Recovery		GFPC, Sr90, solid Quick TAT			53		(25%-125%)						
Carrier/Tracer Recovery		Liquid Scint Fe55, Solid-HTD2,A)			75		(15%-125%)						
Carrier/Tracer Recovery		Liquid Scint Ni63, Solid-HTD2,A)			76		(25%-125%)						
Carrier/Tracer Recovery		Liquid Scint Tc99, Solid-HTD2,A)			80		(15%-125%)						

Notes:

The Qualifiers in this report are defined as follows :

B Target analyte was detected in the sample as well as the associated blank.

BD Results below the MDC or low tracer recovery.

E Concentration of the target analyte exceeds the instrument calibration range.

H Analytical holding time exceeded.

J Indicates an estimated value.

U Target analyte was analyzed for but not detected above the MDL or LOD.

UI Uncertain identification for gamma spectroscopy.

X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.

d The 2:1 depletion requirement was not met for this sample

h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID:	3002-0000-193-C1C-02	Project:	YANK01204
Sample ID:	157388003	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	14-FEB-06		
Receive Date:	06-MAR-06		
Collector:	Client		
Moisture:	5.9%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec Am241, Cm, Solid-TRU2,ALL2 (CT)</i>													
Americium-241	U	0.00165	+/-0.00614	0.00	+/-0.00614	0.0161	pCi/g		JXG1	03/16/06	0838	509829	1
Curium-242	U	0.00	+/-0.0133	0.00	+/-0.0133	0.0183	pCi/g						
Curium-243/244	U	0.00596	+/-0.0117	0.00	+/-0.0117	0.0161	pCi/g						
<i>Alphaspec Pu, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-238	U	-0.00174	+/-0.0193	0.0221	+/-0.0193	0.0678	pCi/g		JXG1	03/16/06	1010	509830	2
Plutonium-239/240	U	0.00452	+/-0.018	0.014	+/-0.018	0.0515	pCi/g						
<i>Liquid Scint Pu241, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-241	U	-0.677	+/-2.64	2.23	+/-2.64	4.56	pCi/g		JXG1	03/21/06	0822	509831	3
Rad Gamma Spec Analysis													
<i>GammaSpec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.612	+/-0.378	0.211	+/-0.371	0.433	pCi/g		MJH1	03/20/06	1010	512597	4
Americium-241	U	0.067	+/-0.167	0.146	+/-0.164	0.299	pCi/g						
Bismuth-212	U	0.378	+/-0.566	0.397	+/-0.554	0.816	pCi/g						
Bismuth-214		0.761	+/-0.146	0.0824	+/-0.143	0.169	pCi/g						
Cesium-134	U	0.115	+/-0.0703	0.0623	+/-0.0689	0.128	pCi/g						
Cesium-137	U	-0.0192	+/-0.0559	0.0474	+/-0.0548	0.0974	pCi/g						
Cobalt-60		9.86	+/-0.262	0.0315	+/-0.257	0.0673	pCi/g						
Europium-152		11.9	+/-0.371	0.106	+/-0.364	0.217	pCi/g						
Europium-154		0.924	+/-0.281	0.170	+/-0.276	0.352	pCi/g						
Europium-155	U	0.0329	+/-0.125	0.117	+/-0.123	0.237	pCi/g						
Lead-212		0.449	+/-0.107	0.0642	+/-0.105	0.131	pCi/g						
Lead-214		0.869	+/-0.173	0.0742	+/-0.170	0.152	pCi/g						
Manganese-54	U	0.00588	+/-0.0658	0.0553	+/-0.0645	0.114	pCi/g						
Niobium-94	U	0.0425	+/-0.0486	0.0426	+/-0.0476	0.0876	pCi/g						
Potassium-40		7.86	+/-1.01	0.247	+/-0.991	0.536	pCi/g						
Radium-226		0.761	+/-0.146	0.0824	+/-0.143	0.169	pCi/g						
Silver-108m	U	-0.00433	+/-0.0428	0.0353	+/-0.0419	0.0726	pCi/g						
Thallium-208	UUI	0.00	+/-0.0657	0.0532	+/-0.0644	0.109	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	0.00161	+/-0.0174	0.0197	+/-0.0174	0.0443	pCi/g		BXF1	03/16/06	1412	510281	5
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium		107	+/-4.78	1.57	+/-5.12	3.27	pCi/g		CHS1	03/19/06	1007	510191	6

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID: 3002-0000-193-C1C-02
Sample ID: 157388003
Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time Batch	Mtd
Carrier/Tracer Recovery		Liquid Scint Pu241, Solid-TRU2, /			72		(25%-125%)					
Carrier/Tracer Recovery		GFPC, Sr90, solid Quick TAT			58		(25%-125%)					
Carrier/Tracer Recovery		Liquid Scint Fe55, Solid-HTD2,A)			71		(15%-125%)					
Carrier/Tracer Recovery		Liquid Scint Ni63, Solid-HTD2,A)			71		(25%-125%)					
Carrier/Tracer Recovery		Liquid Scint Tc99, Solid-HTD2,A			75		(15%-125%)					

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID: 3002-0000-193-RB
Sample ID: 157388004
Matrix: ME
Collect Date: 14-FEB-06
Receive Date: 06-MAR-06
Collector: Client
Moisture: 0%

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec Am241, Cm, Solid-TRU2,ALL2 (CT)</i>													
Americium-241	U	-0.0039	+/-0.00938	0.00	+/-0.0094	0.013	pCi/g		BJB1	03/12/06	0811	509826	1
Curium-242	U	0.00	+/-0.0105	0.00	+/-0.0105	0.0145	pCi/g						
Curium-243/244	U	0.00	+/-0.0094	0.00	+/-0.0094	0.013	pCi/g						
<i>Alphaspec Pu, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-238	U	0.025	+/-0.025	0.0141	+/-0.0251	0.041	pCi/g		BJB1	03/11/06	0934	509827	2
Plutonium-239/240	U	-0.00994	+/-0.0122	0.0193	+/-0.0122	0.0512	pCi/g						
<i>Liquid Scint Pu241, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-241	U	0.981	+/-2.47	2.05	+/-2.47	4.19	pCi/g		BJB1	03/18/06	0509	509828	3
Rad Gamma Spec Analysis													
<i>Gammaspect, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228	U	0.0242	+/-0.0622	0.0354	+/-0.0609	0.0768	pCi/g		MJH1	03/21/06	0635	512598	4
Americium-241	U	0.0316	+/-0.0515	0.0554	+/-0.0505	0.116	pCi/g						
Bismuth-212	U	-0.0297	+/-0.0686	0.0567	+/-0.0673	0.125	pCi/g						
Bismuth-214	U	0.00128	+/-0.0344	0.0185	+/-0.0337	0.0395	pCi/g						
Cesium-134	U	0.0119	+/-0.0103	0.00886	+/-0.0101	0.0195	pCi/g						
Cesium-137	U	0.000333	+/-0.00975	0.00868	+/-0.00956	0.0189	pCi/g						
Cobalt-60	U	0.022	+/-0.0148	0.012	+/-0.0145	0.0264	pCi/g						
Europium-152	U	0.00624	+/-0.0279	0.0241	+/-0.0274	0.0512	pCi/g						
Europium-154	U	-0.00886	+/-0.029	0.0237	+/-0.0284	0.0537	pCi/g						
Europium-155	U	-0.00101	+/-0.0237	0.0236	+/-0.0233	0.0499	pCi/g						
Lead-212	U	0.0254	+/-0.0285	0.0124	+/-0.0279	0.0262	pCi/g						
Lead-214	U	0.00327	+/-0.0313	0.0187	+/-0.0306	0.0395	pCi/g						
Manganese-54	U	-0.00649	+/-0.00926	0.00715	+/-0.00907	0.016	pCi/g						
Niobium-94	U	-0.00351	+/-0.00798	0.00664	+/-0.00782	0.0146	pCi/g						
Potassium-40	U	0.148	+/-0.107	0.108	+/-0.105	0.238	pCi/g						
Radium-226	U	0.00128	+/-0.0344	0.0165	+/-0.0337	0.0356	pCi/g						
Silver-108m	U	-0.00704	+/-0.00763	0.00645	+/-0.00747	0.014	pCi/g						
Thallium-208	U	0.0109	+/-0.0167	0.00715	+/-0.0164	0.0157	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	0.00851	+/-0.0152	0.0151	+/-0.0152	0.0342	pCi/g		BXFI	03/10/06	1849	510280	5
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium		1.39	+/-0.799	0.630	+/-0.799	1.30	pCi/g		MXPI	03/20/06	0301	510190	6

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID: 3002-0000-193-RB
Sample ID: 157388004

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Liquid Scintillation Analysis													
<i>Liquid Scint C14, Solid-HTD2,ALL2 (CT)</i>													
Carbon-14	U	-0.149	+/-0.173	0.150	+/-0.173	0.309	pCi/g		MXPI	03/18/06	1715	510197	7
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	0.462	+/-1.00	0.687	+/-1.00	1.40	pCi/g		SLNI	03/22/06	1403	510184	8
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	0.105	+/-0.634	0.529	+/-0.634	1.09	pCi/g		SLNI	03/20/06	2347	510185	9
<i>Liquid Scint Tc99, Solid-HTD2,ALL2 (CT)</i>													
Technetium-99		0.510	+/-0.237	0.187	+/-0.237	0.383	pCi/g		SLNI	04/02/06	0412	514613	10
Solid Preparation													
<i>Laboratory Composite – leach</i>													

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
GL-RAD-A-026	Laboratory sample composite				509146

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, Am-05-RC Modified
2	DOE EML HASL-300, Pu-11-RC Modified
3	DOE EML HASL-300, Pu-11-RC Modified
4	EML HASL 300, 4.5.2.3
5	EPA 905.0 Modified
6	EPA 906.0 Modified
7	EPA EERF C-01 Modified
8	DOE RESL Fe-1, Modified
9	DOE RESL Ni-1, Modified
10	DOE EML HASL-300, Tc-02-RC Modified
11	DOE EML HASL-300, Tc-02-RC Modified
12	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Americium-243	Alphaspec Am241, Cm, Solid-TR1	101	(15%-125%)
Plutonium-242	Alphaspec Pu, Solid-TRU2,ALL2	95	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Pu241, Solid-TRU2, /	80	(25%-125%)

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID: 3002-0000-193-RB
Sample ID: 157388004

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time Batch	Mtd
Carrier/Tracer Recovery		GFPC, Sr90, solid Quick TAT			100		(25%-125%)					
Carrier/Tracer Recovery		Liquid Scint Fe55, Solid-HTD2,AI			.84		(15%-125%)					
Carrier/Tracer Recovery		Liquid Scint Ni63, Solid-HTD2,AI			75		(25%-125%)					
Carrier/Tracer Recovery		Liquid Scint Tc99, Solid-HTD2,AI			104		(15%-125%)					

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID:	3002-0000-193-C1C-03	Project:	YANK01204
Sample ID:	157388005	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	14-FEB-06		
Receive Date:	06-MAR-06		
Collector:	Client		
Moisture:	5.79%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>GammaSpec, Gamma, GAM2, ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.437	+/-0.195	0.0859	+/-0.191	0.182	pCi/g		MJH1	03/20/06	1011	512597	1
Americium-241	U	0.000671	+/-0.124	0.0811	+/-0.122	0.168	pCi/g						
Bismuth-212		0.348	+/-0.269	0.159	+/-0.264	0.337	pCi/g						
Bismuth-214		0.737	+/-0.121	0.0399	+/-0.119	0.0841	pCi/g						
Cesium-134	U	0.0204	+/-0.0313	0.0278	+/-0.0307	0.0585	pCi/g						
Cesium-137	U	0.0337	+/-0.0248	0.0203	+/-0.0243	0.043	pCi/g						
Cobalt-60		0.805	+/-0.0831	0.0208	+/-0.0814	0.0456	pCi/g						
Europium-152		0.798	+/-0.142	0.055	+/-0.139	0.115	pCi/g						
Europium-154	U	0.0227	+/-0.0821	0.0713	+/-0.0805	0.153	pCi/g						
Europium-155	U	0.0202	+/-0.0634	0.0568	+/-0.0622	0.117	pCi/g						
Lead-212		0.487	+/-0.0646	0.0306	+/-0.0633	0.0633	pCi/g						
Lead-214		0.918	+/-0.127	0.0403	+/-0.125	0.084	pCi/g						
Manganese-54	U	0.00918	+/-0.029	0.0251	+/-0.0284	0.0529	pCi/g						
Niobium-94	U	0.0091	+/-0.0219	0.0193	+/-0.0214	0.0409	pCi/g						
Potassium-40		8.48	+/-0.861	0.160	+/-0.844	0.361	pCi/g						
Radium-226		0.737	+/-0.121	0.0399	+/-0.119	0.0841	pCi/g						
Silver-108m	U	-0.0266	+/-0.0206	0.016	+/-0.0202	0.0338	pCi/g						
Thallium-208		0.185	+/-0.0523	0.0217	+/-0.0512	0.0456	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	-0.00068	+/-0.0188	0.0218	+/-0.0188	0.0494	pCi/g		BXF1	03/16/06	2214	510281	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2, ALL2 (CT)</i>													
Tritium		31.5	+/-3.04	1.58	+/-3.09	3.28	pCi/g		CHS1	03/19/06	1039	510191	3
<i>Liquid Scint Fe55, Solid-HTD2, ALL2 (CT)</i>													
Iron-55		5.04	+/-2.14	1.45	+/-2.15	2.94	pCi/g		SLN1	03/23/06	0920	510186	4
<i>Liquid Scint Ni63, Solid-HTD2, ALL2 (CT)</i>													
Nickel-63	U	-1.15	+/-1.84	1.57	+/-1.84	3.19	pCi/g		SLN1	03/22/06	0242	510187	5
Solid Preparation													
<i>Laboratory Composite – CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID: 3002-0000-193-C1C-03 Project: YANK01204
Sample ID: 157388005 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	AXP2	03/10/06	1315	509151
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	MXP2	03/07/06	1414	509147
GL-RAD-A-026	Laboratory sample composite				509146

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	DOE RESL Fe-1, Modified
5	DOE RESL Ni-1, Modified
6	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	52	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,A)	70	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,A)	69	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID:	3002-0000-193-C1C-04	Project:	YANK01204
Sample ID:	157388006	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	14-FEB-06		
Receive Date:	06-MAR-06		
Collector:	Client		
Moisture:	5.13%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>GammaSpec, Gamma, GAM2, ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.415	+/-0.140	0.0626	+/-0.137	0.134	pCi/g		MJH1	03/20/06	1011	512597	1
Americium-241	U	0.0649	+/-0.0755	0.0641	+/-0.0739	0.133	pCi/g						
Bismuth-212	U	0.259	+/-0.247	0.143	+/-0.242	0.305	pCi/g						
Bismuth-214		0.627	+/-0.0779	0.0323	+/-0.0763	0.0686	pCi/g						
Cesium-134	U	0.0257	+/-0.0246	0.0222	+/-0.0241	0.0471	pCi/g						
Cesium-137	U	0.00748	+/-0.0219	0.0191	+/-0.0215	0.0404	pCi/g						
Cobalt-60		0.327	+/-0.0615	0.0169	+/-0.0603	0.0374	pCi/g						
Europium-152		0.452	+/-0.107	0.0403	+/-0.104	0.085	pCi/g						
Europium-154	U	0.0519	+/-0.0641	0.0581	+/-0.0628	0.126	pCi/g						
Europium-155	U	0.000611	+/-0.0508	0.0472	+/-0.0498	0.0978	pCi/g						
Lead-212		0.370	+/-0.0522	0.0287	+/-0.0511	0.0595	pCi/g						
Lead-214		0.655	+/-0.0819	0.0291	+/-0.0803	0.0614	pCi/g						
Manganese-54	U	0.0141	+/-0.0205	0.0181	+/-0.0201	0.0387	pCi/g						
Niobium-94	U	-0.00062	+/-0.0192	0.0161	+/-0.0188	0.0343	pCi/g						
Potassium-40		7.88	+/-0.785	0.131	+/-0.769	0.297	pCi/g						
Radium-226		0.627	+/-0.0779	0.0323	+/-0.0763	0.0686	pCi/g						
Silver-108m	U	-0.0138	+/-0.0161	0.0134	+/-0.0158	0.0284	pCi/g						
Thallium-208		0.147	+/-0.0448	0.0173	+/-0.0439	0.0368	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	0.00195	+/-0.0183	0.0206	+/-0.0183	0.0466	pCi/g		BXF1	03/16/06	1412	510281	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2, ALL2 (CT)</i>													
Tritium		12.5	+/-2.41	1.58	+/-2.42	3.29	pCi/g		CHS1	03/19/06	1110	510191	3
<i>Liquid Scint Fe55, Solid-HTD2, ALL2 (CT)</i>													
Iron-55	U	0.643	+/-2.01	1.41	+/-2.01	2.87	pCi/g		SLN1	03/23/06	1054	510186	4
<i>Liquid Scint Ni63, Solid-HTD2, ALL2 (CT)</i>													
Nickel-63	U	-3.2	+/-2.05	1.78	+/-2.05	3.63	pCi/g		SLN1	03/22/06	0343	510187	5
Solid Preparation													
<i>Laboratory Composite – CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID: 3002-0000-193-C1C-04 Project: YANK01204
Sample ID: 157388006 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	AXP2	03/10/06	1315	509151
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	MXP2	03/07/06	1414	509147
GL-RAD-A-026	Laboratory sample composite				509146

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	DOE RESL Fe-1, Modified
5	DOE RESL Ni-1, Modified
6	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	57	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,AI	60	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,AI	60	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID: 3002-0000-193-C1C-05
Sample ID: 157388007
Matrix: CT
Collect Date: 14-FEB-06
Receive Date: 06-MAR-06
Collector: Client
Moisture: 4.97%

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>Gammascpec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.691	+/-0.199	0.0717	+/-0.195	0.154	pCi/g		MJH1	03/20/06	1012	512597	1
Americium-241	U	-0.0274	+/-0.160	0.0974	+/-0.157	0.201	pCi/g						
Bismuth-212	U	0.204	+/-0.330	0.153	+/-0.324	0.327	pCi/g						
Bismuth-214		0.922	+/-0.114	0.0372	+/-0.112	0.0791	pCi/g						
Cesium-134	U	0.0331	+/-0.0296	0.0225	+/-0.029	0.0481	pCi/g						
Cesium-137	U	0.0108	+/-0.0288	0.0223	+/-0.0282	0.0474	pCi/g						
Cobalt-60		0.187	+/-0.0496	0.0198	+/-0.0487	0.0435	pCi/g						
Europium-152		0.221	+/-0.114	0.0554	+/-0.112	0.116	pCi/g						
Europium-154	U	0.035	+/-0.0676	0.060	+/-0.0662	0.131	pCi/g						
Europium-155	U	0.0439	+/-0.0722	0.0634	+/-0.0707	0.131	pCi/g						
Lead-212		0.479	+/-0.0748	0.0387	+/-0.0733	0.0801	pCi/g						
Lead-214		1.05	+/-0.115	0.0406	+/-0.113	0.0851	pCi/g						
Manganese-54	U	-0.000843	+/-0.0267	0.0222	+/-0.0261	0.0474	pCi/g						
Niobium-94	U	0.0221	+/-0.0206	0.0177	+/-0.0202	0.0379	pCi/g						
Potassium-40		8.53	+/-0.765	0.170	+/-0.750	0.378	pCi/g						
Radium-226		0.922	+/-0.114	0.0372	+/-0.112	0.0791	pCi/g						
Silver-108m	U	0.00984	+/-0.023	0.0197	+/-0.0225	0.0416	pCi/g						
Thallium-208		0.187	+/-0.0543	0.0192	+/-0.0532	0.041	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	-0.011	+/-0.0198	0.0253	+/-0.0198	0.0563	pCi/g		BXF1	03/16/06	2214	510281	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium		5.35	+/-1.71	1.27	+/-1.71	2.62	pCi/g		CHS1	03/23/06	1133	510191	3
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55		2.50	+/-1.54	1.06	+/-1.54	2.15	pCi/g		SLN1	03/26/06	1715	510186	4
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	-2.85	+/-1.83	1.59	+/-1.83	3.23	pCi/g		SLN1	03/22/06	0521	510187	5
Solid Preparation													
<i>Laboratory Composite – CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID: 3002-0000-193-C1C-05 Project: YANK01204
Sample ID: 157388007 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	AXP2	03/10/06	1315	509151
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	MPX2	03/07/06	1414	509147
GL-RAD-A-026	Laboratory sample composite				509146

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	DOE RESL Fe-1, Modified
5	DOE RESL Ni-1, Modified
6	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	51	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,A)	66	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,A)	71	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID:	3002-0000-193-B-01	Project:	YANK01204
Sample ID:	157388008	Client ID:	YANK001
Matrix:	BR	Vol. Recv.:	
Collect Date:	14-FEB-06		
Receive Date:	06-MAR-06		
Collector:	Client		
Moisture:	.187%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>Gammascpec, Gamma, GAM2, ALL2 (CT ingrowth waived)</i>													
Actinium-228	U	0.0965	+/-0.0675	0.0588	+/-0.0662	0.127	pCi/g		MJH1	03/20/06	1242	512597	1
Americium-241	U	0.00471	+/-0.0576	0.0523	+/-0.0564	0.110	pCi/g						
Bismuth-212	U	0.0897	+/-0.117	0.113	+/-0.115	0.245	pCi/g						
Bismuth-214		0.305	+/-0.0711	0.0256	+/-0.0697	0.0553	pCi/g						
Cesium-134	U	-0.000627	+/-0.0141	0.0124	+/-0.0138	0.0276	pCi/g						
Cesium-137	U	-0.0021	+/-0.0141	0.0124	+/-0.0138	0.0273	pCi/g						
Cobalt-60	U	0.0115	+/-0.0146	0.014	+/-0.0143	0.0318	pCi/g						
Europium-152	U	-0.0282	+/-0.0426	0.0363	+/-0.0418	0.0774	pCi/g						
Europium-154	U	-0.0435	+/-0.0408	0.0261	+/-0.040	0.0624	pCi/g						
Europium-155	U	0.0127	+/-0.040	0.0401	+/-0.0392	0.0841	pCi/g						
Lead-212		0.161	+/-0.0376	0.022	+/-0.0368	0.0463	pCi/g						
Lead-214		0.375	+/-0.0663	0.0262	+/-0.065	0.0559	pCi/g						
Manganese-54	U	0.000933	+/-0.0154	0.0136	+/-0.0151	0.030	pCi/g						
Niobium-94	U	-0.0068	+/-0.0119	0.00987	+/-0.0117	0.0219	pCi/g						
Potassium-40	U	0.162	+/-0.157	0.156	+/-0.153	0.349	pCi/g						
Radium-226		0.305	+/-0.0711	0.0256	+/-0.0697	0.0553	pCi/g						
Silver-108m	U	-0.00246	+/-0.0126	0.0108	+/-0.0123	0.0235	pCi/g						
Thallium-208		0.0531	+/-0.0254	0.0128	+/-0.0249	0.0278	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	-0.00671	+/-0.0153	0.0193	+/-0.0153	0.0433	pCi/g		BXF1	03/16/06	1412	510281	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2, ALL2 (CT)</i>													
Tritium		6.83	+/-2.09	1.50	+/-2.09	3.11	pCi/g		CHS1	03/19/06	1213	510191	3
<i>Liquid Scint Fe55, Solid-HTD2, ALL2 (CT)</i>													
Iron-55	U	0.0771	+/-1.04	0.724	+/-1.04	1.47	pCi/g		SLN1	03/23/06	1401	510186	4
<i>Liquid Scint Ni63, Solid-HTD2, ALL2 (CT)</i>													
Nickel-63	U	-3.16	+/-1.78	1.55	+/-1.78	3.16	pCi/g		SLN1	03/22/06	0622	510187	5
Solid Preparation													
<i>Laboratory Composite – CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID: 3002-0000-193-B-01 Project: YANK01204
Sample ID: 157388008 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	AXP2	03/10/06	1315	509151
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	MXP2	03/07/06	1414	509147
GL-RAD-A-026	Laboratory sample composite				509146

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	DOE RESL Fe-1, Modified
5	DOE RESL Ni-1, Modified
6	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	65	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,AI	76	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,AI	73	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
- BD Results below the MDC or low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value.
- U Target analyte was analyzed for but not detected above the MDL or LOD.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
- d The 2:1 depletion requirement was not met for this sample
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID:	3002-0000-193-B-02	Project:	YANK01204
Sample ID:	157388009	Client ID:	YANK001
Matrix:	BR	Vol. Recv.:	
Collect Date:	14-FEB-06		
Receive Date:	06-MAR-06		
Collector:	Client		
Moisture:	.137%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>Gammasec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228	U	0.126	+/-0.106	0.0611	+/-0.104	0.135	pCi/g		MJH1	03/20/06	1242	512597	1
Americium-241	U	0.00227	+/-0.0212	0.022	+/-0.0208	0.0461	pCi/g						
Bismuth-212	U	0.148	+/-0.171	0.125	+/-0.167	0.275	pCi/g						
Bismuth-214		0.445	+/-0.0895	0.023	+/-0.0877	0.0514	pCi/g						
Cesium-134	U	0.011	+/-0.0202	0.0187	+/-0.0198	0.0413	pCi/g						
Cesium-137	U	0.015	+/-0.0192	0.0184	+/-0.0188	0.040	pCi/g						
Cobalt-60	U	0.0334	+/-0.0311	0.0223	+/-0.0305	0.0496	pCi/g						
Europium-152	U	0.00296	+/-0.0419	0.040	+/-0.0411	0.0858	pCi/g						
Europium-154	U	-0.0036	+/-0.0461	0.0389	+/-0.0452	0.0912	pCi/g						
Europium-155	U	-0.0145	+/-0.0362	0.0349	+/-0.0355	0.0734	pCi/g						
Lead-212		0.116	+/-0.0396	0.0198	+/-0.0388	0.0423	pCi/g						
Lead-214		0.315	+/-0.0743	0.0269	+/-0.0728	0.058	pCi/g						
Manganese-54	U	0.0131	+/-0.0194	0.0181	+/-0.019	0.0398	pCi/g						
Niobium-94	U	-0.00689	+/-0.016	0.0132	+/-0.0157	0.0292	pCi/g						
Potassium-40	U	0.180	+/-0.192	0.177	+/-0.188	0.403	pCi/g						
Radium-226		0.445	+/-0.0895	0.023	+/-0.0877	0.0514	pCi/g						
Silver-108m	U	0.00363	+/-0.0141	0.0134	+/-0.0138	0.0291	pCi/g						
Thallium-208		0.0568	+/-0.0303	0.0155	+/-0.0297	0.0339	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	0.00556	+/-0.0247	0.0273	+/-0.0247	0.0612	pCi/g		BXF1	03/14/06	2003	510281	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium	U	0.193	+/-1.52	1.27	+/-1.52	2.64	pCi/g		CHS1	03/19/06	1245	510191	3
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	0.253	+/-0.974	0.677	+/-0.974	1.38	pCi/g		SLN1	03/23/06	1534	510186	4
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	-1.65	+/-1.82	1.56	+/-1.82	3.17	pCi/g		SLN1	03/22/06	0723	510187	5
Solid Preparation													
<i>Laboratory Composite – CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID: 3002-0000-193-B-02
Sample ID: 157388009

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	AXP2	03/10/06	1315	509151
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	MXP2	03/07/06	1414	509147
GL-RAD-A-026	Laboratory sample composite				509146

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	DOE RESL Fe-1, Modified
5	DOE RESL Ni-1, Modified
6	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	60	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,Al	80	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,Al	72	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
- BD Results below the MDC or low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value.
- U Target analyte was analyzed for but not detected above the MDL or LOD.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
- d The 2:1 depletion requirement was not met for this sample
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID: 3002-0000-193-P
Sample ID: 157388010
Matrix: ME
Collect Date: 14-FEB-06
Receive Date: 06-MAR-06
Collector: Client
Moisture: 0%

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec Am241, Cm, Solid-TRU2,ALL2 (CT)</i>													
Americium-241	U	-0.00433	+/-0.011	0.00	+/-0.011	0.0152	pCi/g		BJB1	03/12/06	0811	509826	1
Curium-242	U	0.00	+/-0.0123	0.00	+/-0.0123	0.017	pCi/g						
Curium-243/244	U	-0.00135	+/-0.0113	0.00641	+/-0.0114	0.0281	pCi/g						
<i>Alphaspec Pu, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-238	U	-0.00433	+/-0.0215	0.0256	+/-0.0215	0.0694	pCi/g		BJB1	03/11/06	0934	509827	2
Plutonium-239/240	U	0.00893	+/-0.0244	0.0204	+/-0.0245	0.0591	pCi/g						
<i>Liquid Scint Pu241, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-241	U	0.662	+/-2.01	1.67	+/-2.01	3.42	pCi/g		BJB1	03/18/06	0540	509828	3
Rad Gamma Spec Analysis													
<i>Gammasespec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228	U	0.0235	+/-0.0497	0.0387	+/-0.0487	0.0832	pCi/g		MJH1	03/21/06	0814	512598	4
Americium-241	U	-0.0186	+/-0.0359	0.0366	+/-0.0352	0.0769	pCi/g						
Bismuth-212	U	0.0271	+/-0.0722	0.0675	+/-0.0708	0.147	pCi/g						
Bismuth-214	U	0.0209	+/-0.0197	0.0196	+/-0.0193	0.0418	pCi/g						
Cesium-134	U	-0.00655	+/-0.0103	0.00842	+/-0.0101	0.0186	pCi/g						
Cesium-137	U	0.00452	+/-0.00954	0.00909	+/-0.00935	0.0197	pCi/g						
Cobalt-60	U	-0.00202	+/-0.0119	0.00998	+/-0.0117	0.0221	pCi/g						
Europium-152	U	0.0146	+/-0.0265	0.0258	+/-0.0259	0.0547	pCi/g						
Europium-154	U	0.0198	+/-0.015	0.0217	+/-0.0147	0.0494	pCi/g						
Europium-155	U	0.00152	+/-0.0265	0.0266	+/-0.026	0.0557	pCi/g						
Lead-212	U	0.0285	+/-0.0295	0.0187	+/-0.0289	0.0389	pCi/g						
Lead-214	U	-0.000734	+/-0.0188	0.0176	+/-0.0184	0.0373	pCi/g						
Manganese-54	U	0.0102	+/-0.00902	0.00899	+/-0.00884	0.0196	pCi/g						
Niobium-94	U	0.00527	+/-0.00839	0.00805	+/-0.00822	0.0174	pCi/g						
Potassium-40	U	0.0061	+/-0.180	0.074	+/-0.177	0.170	pCi/g						
Radium-226	U	0.0209	+/-0.0197	0.0196	+/-0.0193	0.0418	pCi/g						
Silver-108m	U	0.00423	+/-0.00815	0.0078	+/-0.00799	0.0167	pCi/g						
Thallium-208	U	0.0122	+/-0.0107	0.0107	+/-0.0105	0.0229	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	0.00459	+/-0.0159	0.0169	+/-0.0159	0.0378	pCi/g		BXF1	03/10/06	1849	510280	5
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium	U	0.794	+/-0.790	0.639	+/-0.790	1.32	pCi/g		MXP1	03/20/06	0404	510190	6

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.geel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID: 3002-0000-193-P
Sample ID: 157388010

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Liquid Scintillation Analysis													
<i>Liquid Scint C14, Solid-HTD2,ALL2 (CT)</i>													
Carbon-14	U	-0.0881	+/-0.183	0.156	+/-0.183	0.322	pCi/g		MXPI	03/18/06	1917	510197	7
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	0.284	+/-0.961	0.662	+/-0.961	1.34	pCi/g		SLN1	03/22/06	1536	510184	8
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	0.428	+/-0.667	0.546	+/-0.667	1.13	pCi/g		SLN1	03/21/06	0019	510185	9
<i>Liquid Scint Tc99, Solid-HTD2,ALL2 (CT)</i>													
Technetium-99		1.00	+/-0.248	0.186	+/-0.249	0.381	pCi/g		SLN1	04/02/06	0444	514613	10

Solid Preparation

Laboratory Composite – leach

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
GL-RAD-A-026	Laboratory sample composite				509146

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, Am-05-RC Modified
2	DOE EML HASL-300, Pu-11-RC Modified
3	DOE EML HASL-300, Pu-11-RC Modified
4	EML HASL 300, 4.5.2.3
5	EPA 905.0 Modified
6	EPA 906.0 Modified
7	EPA EERF C-01 Modified
8	DOE RESL Fe-1, Modified
9	DOE RESL Ni-1, Modified
10	DOE EML HASL-300, Tc-02-RC Modified
11	DOE EML HASL-300, Tc-02-RC Modified
12	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Americium-243	Alphaspec Am241, Cm, Solid-TR1	96	(15%-125%)
Plutonium-242	Alphaspec Pu, Solid-TRU2,ALL2	78	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Pu241, Solid-TRU2, /	93	(25%-125%)

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

 : East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID: 3002-0000-193-P
Sample ID: 157388010

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time Batch	Mtd
Carrier/Tracer Recovery		GFPC, Sr90, solid Quick TAT			103		(25%-125%)					
Carrier/Tracer Recovery		Liquid Scint Fe55, Solid-HTD2,A			86		(15%-125%)					
Carrier/Tracer Recovery		Liquid Scint Ni63, Solid-HTD2,A			74		(25%-125%)					
Carrier/Tracer Recovery		Liquid Scint Tc99, Solid-HTD2,A			104		(15%-125%)					

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID:	3002-0000-193-C3C-01	Project:	YANK01204
Sample ID:	157388011	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	14-FEB-06		
Receive Date:	06-MAR-06		
Collector:	Client		
Moisture:	4.74%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>GammaSpec, Gamma, GAM2, ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.400	+/-0.155	0.0521	+/-0.152	0.114	pCi/g		MJH1	03/20/06	1517	512597	1
Americium-241	U	-0.103	+/-0.0972	0.0722	+/-0.0952	0.149	pCi/g						
Bismuth-212		0.313	+/-0.263	0.105	+/-0.258	0.228	pCi/g						
Bismuth-214		0.418	+/-0.0801	0.0261	+/-0.0785	0.0561	pCi/g						
Cesium-134	U	0.0257	+/-0.0247	0.0184	+/-0.0242	0.0396	pCi/g						
Cesium-137	U	0.00742	+/-0.0234	0.0183	+/-0.023	0.0388	pCi/g						
Cobalt-60	U	0.00248	+/-0.0204	0.0172	+/-0.020	0.0383	pCi/g						
Europium-152	U	0.0676	+/-0.0364	0.0396	+/-0.0357	0.0836	pCi/g						
Europium-154	U	0.00189	+/-0.0587	0.0492	+/-0.0575	0.109	pCi/g						
Europium-155	U	0.028	+/-0.0506	0.0457	+/-0.0496	0.0946	pCi/g						
Lead-212		0.369	+/-0.0644	0.0239	+/-0.0631	0.0499	pCi/g						
Lead-214		0.518	+/-0.078	0.0249	+/-0.0764	0.0529	pCi/g						
Manganese-54	U	0.00374	+/-0.0197	0.0165	+/-0.0193	0.0357	pCi/g						
Niobium-94	U	0.00596	+/-0.0195	0.0167	+/-0.0191	0.0354	pCi/g						
Potassium-40		7.50	+/-0.892	0.106	+/-0.874	0.249	pCi/g						
Radium-226		0.418	+/-0.0801	0.0261	+/-0.0785	0.0561	pCi/g						
Silver-108m	U	-0.00383	+/-0.0152	0.0128	+/-0.0149	0.0274	pCi/g						
Thallium-208		0.146	+/-0.0369	0.0146	+/-0.0362	0.0314	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	0.00978	+/-0.0179	0.0185	+/-0.0179	0.0416	pCi/g		BXF1	03/16/06	2214	510281	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2, ALL2 (CT)</i>													
Tritium	U	0.852	+/-1.53	1.26	+/-1.53	2.60	pCi/g		CHS1	03/23/06	1220	510191	3
<i>Liquid Scint Fe55, Solid-HTD2, ALL2 (CT)</i>													
Iron-55	U	-1.93	+/-1.93	1.37	+/-1.93	2.76	pCi/g		SLN1	03/26/06	2021	510186	4
<i>Liquid Scint Ni63, Solid-HTD2, ALL2 (CT)</i>													
Nickel-63	U	-2.85	+/-1.68	1.46	+/-1.68	2.97	pCi/g		SLN1	03/22/06	0824	510187	5
Solid Preparation													
<i>Laboratory Composite – CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID: 3002-0000-193-C3C-01 Project: YANK01204
Sample ID: 157388011 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	AXP2	03/10/06	1315	509151
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	MXP2	03/07/06	1414	509147
GL-RAD-A-026	Laboratory sample composite				509146

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	DOE RESL Fe-1, Modified
5	DOE RESL Ni-1, Modified
6	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	64	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,A)	71	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,A)	75	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID:	3002-0000-193-C3C-02	Project:	YANK01204
Sample ID:	157388012	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	14-FEB-06		
Receive Date:	06-MAR-06		
Collector:	Client		
Moisture:	5.55%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>Gammascpec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.379	+/-0.102	0.0424	+/-0.0998	0.0904	pCi/g		MJH1	03/21/06	0948	512597	1
Americium-241	U	-0.0278	+/-0.049	0.0442	+/-0.0481	0.0916	pCi/g						
Bismuth-212		0.262	+/-0.168	0.0935	+/-0.164	0.198	pCi/g						
Bismuth-214		0.397	+/-0.0786	0.0226	+/-0.0771	0.0477	pCi/g						
Cesium-134	U	0.0226	+/-0.0272	0.0148	+/-0.0266	0.0313	pCi/g						
Cesium-137	U	-0.00315	+/-0.0161	0.0115	+/-0.0158	0.0243	pCi/g						
Cobalt-60	U	-0.00551	+/-0.0153	0.0124	+/-0.015	0.027	pCi/g						
Europium-152	U	-0.0302	+/-0.0385	0.0312	+/-0.0377	0.0654	pCi/g						
Europium-154	U	-0.0146	+/-0.0444	0.0364	+/-0.0435	0.0784	pCi/g						
Europium-155	U	-0.0388	+/-0.0435	0.0369	+/-0.0426	0.0763	pCi/g						
Lead-212		0.403	+/-0.0527	0.0199	+/-0.0517	0.0412	pCi/g						
Lead-214		0.455	+/-0.0722	0.0239	+/-0.0707	0.0498	pCi/g						
Manganese-54	U	-0.00317	+/-0.0157	0.0133	+/-0.0154	0.0281	pCi/g						
Niobium-94	U	0.00744	+/-0.014	0.0121	+/-0.0137	0.0254	pCi/g						
Potassium-40		7.19	+/-0.712	0.102	+/-0.698	0.225	pCi/g						
Radium-226		0.397	+/-0.0786	0.0226	+/-0.0771	0.0477	pCi/g						
Silver-108m	U	-0.00968	+/-0.0118	0.00979	+/-0.0115	0.0207	pCi/g						
Thallium-208		0.142	+/-0.0301	0.0118	+/-0.0295	0.025	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	-0.00634	+/-0.0187	0.0232	+/-0.0187	0.0523	pCi/g		BXF1	03/14/06	2002	510281	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium	U	-0.261	+/-1.57	1.33	+/-1.57	2.74	pCi/g		CHS1	03/23/06	1307	510191	3
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55		2.92	+/-1.97	1.35	+/-1.97	2.74	pCi/g		SLN1	03/23/06	1841	510186	4
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	-2.21	+/-1.65	1.43	+/-1.65	2.90	pCi/g		SLN1	03/22/06	0925	510187	5
Solid Preparation													
<i>Laboratory Composite – CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID: 3002-0000-193-C3C-02 Project: YANK01204
Sample ID: 157388012 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	AXP2	03/10/06	1315	509151
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	MXP2	03/07/06	1414	509147
GL-RAD-A-026	Laboratory sample composite				509146

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	DOE RESL Fe-1, Modified
5	DOE RESL Ni-1, Modified
6	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	70	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,AI	70	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,AI	78	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID:	3002-0000-193-C5C-01	Project:	YANK01204
Sample ID:	157388013	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	14-FEB-06		
Receive Date:	06-MAR-06		
Collector:	Client		
Moisture:	5.74%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>Gammascpec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.628	+/-0.156	0.0743	+/-0.153	0.167	pCi/g		MJH1	03/20/06	1733	512597	1
Americium-241	U	-0.00887	+/-0.0347	0.0322	+/-0.034	0.0671	pCi/g						
Bismuth-212	U	0.434	+/-0.324	0.206	+/-0.317	0.447	pCi/g						
Bismuth-214		0.411	+/-0.121	0.0427	+/-0.118	0.0929	pCi/g						
Cesium-134	U	0.0411	+/-0.0345	0.0324	+/-0.0338	0.0701	pCi/g						
Cesium-137	U	0.00102	+/-0.0332	0.0246	+/-0.0325	0.0537	pCi/g						
Cobalt-60	U	0.007	+/-0.0325	0.0279	+/-0.0318	0.0628	pCi/g						
Europium-152	U	0.0217	+/-0.0628	0.0577	+/-0.0616	0.123	pCi/g						
Europium-154	U	-0.0544	+/-0.0903	0.0682	+/-0.0885	0.155	pCi/g						
Europium-155	U	0.096	+/-0.0889	0.0518	+/-0.0872	0.108	pCi/g						
Lead-212		0.360	+/-0.0833	0.0327	+/-0.0817	0.0689	pCi/g						
Lead-214		0.514	+/-0.127	0.0441	+/-0.125	0.0938	pCi/g						
Manganese-54	U	-0.00223	+/-0.032	0.0262	+/-0.0313	0.0573	pCi/g						
Niobium-94	U	0.000791	+/-0.0243	0.0205	+/-0.0239	0.045	pCi/g						
Potassium-40		6.42	+/-0.933	0.207	+/-0.915	0.484	pCi/g						
Radium-226		0.411	+/-0.121	0.0427	+/-0.118	0.0929	pCi/g						
Silver-108m	U	0.0049	+/-0.0215	0.0193	+/-0.0211	0.0416	pCi/g						
Thallium-208		0.170	+/-0.0522	0.024	+/-0.0512	0.0521	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	0.0127	+/-0.0309	0.0328	+/-0.0309	0.0738	pCi/g		BXFI	03/14/06	2003	510281	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium		9.14	+/-2.22	1.53	+/-2.23	3.19	pCi/g		CHS1	03/19/06	1420	510191	3
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55		3.81	+/-1.94	1.32	+/-1.95	2.67	pCi/g		SLN1	03/23/06	2014	510186	4
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	-3.19	+/-1.79	1.56	+/-1.79	3.18	pCi/g		SLN1	03/22/06	1027	510187	5
Solid Preparation													
<i>Laboratory Composite – CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID: 3002-0000-193-C5C-01 Project: YANK01204
Sample ID: 157388013 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	AXP2	03/10/06	1315	509151
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	MXP2	03/07/06	1414	509147
GL-RAD-A-026	Laboratory sample composite				509146

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	DOE RESL Fe-1, Modified
5	DOE RESL Ni-1, Modified
6	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	51	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,AI	72	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,AI	71	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID:	3002-0000-193-C5C-02	Project:	YANK01204
Sample ID:	157388014	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	14-FEB-06		
Receive Date:	06-MAR-06		
Collector:	Client		
Moisture:	8.72%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>Gammasec, Gamma, GAM2, ALL2 (CT ingrowth waived)</i>													
Actinium-228	UUI	0.00	+/-0.180	0.128	+/-0.177	0.270	pCi/g		MJH1	03/20/06	1819	512597	1
Americium-241	U	0.138	+/-0.130	0.0861	+/-0.128	0.179	pCi/g						
Bismuth-212		0.489	+/-0.345	0.143	+/-0.338	0.312	pCi/g						
Bismuth-214		0.364	+/-0.0873	0.0303	+/-0.0856	0.066	pCi/g						
Cesium-134	U	0.0138	+/-0.025	0.0221	+/-0.0245	0.0482	pCi/g						
Cesium-137	U	-0.00344	+/-0.0221	0.0183	+/-0.0216	0.0399	pCi/g						
Cobalt-60	U	-0.0105	+/-0.0199	0.0148	+/-0.0195	0.0349	pCi/g						
Europium-152	U	-0.0108	+/-0.0513	0.0447	+/-0.0503	0.0954	pCi/g						
Europium-154	U	-0.0373	+/-0.0674	0.0515	+/-0.0661	0.117	pCi/g						
Europium-155	U	0.0151	+/-0.056	0.051	+/-0.0549	0.107	pCi/g						
Lead-212		0.419	+/-0.0688	0.0269	+/-0.0674	0.0567	pCi/g						
Lead-214		0.366	+/-0.0904	0.0311	+/-0.0886	0.0665	pCi/g						
Manganese-54	U	0.0316	+/-0.0206	0.0203	+/-0.0202	0.0442	pCi/g						
Niobium-94	U	-0.00902	+/-0.0189	0.015	+/-0.0185	0.0329	pCi/g						
Potassium-40		7.71	+/-1.08	0.159	+/-1.06	0.371	pCi/g						
Radium-226		0.364	+/-0.0873	0.0303	+/-0.0856	0.066	pCi/g						
Silver-108m	U	-0.00359	+/-0.0177	0.0152	+/-0.0173	0.0326	pCi/g						
Thallium-208		0.132	+/-0.0459	0.0181	+/-0.045	0.0392	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	-0.00158	+/-0.0252	0.0293	+/-0.0252	0.0649	pCi/g		BXFI	03/14/06	2003	510281	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2, ALL2 (CT)</i>													
Tritium		7.09	+/-2.19	1.57	+/-2.19	3.27	pCi/g		CHS1	03/19/06	1452	510191	3
<i>Liquid Scint Fe55, Solid-HTD2, ALL2 (CT)</i>													
Iron-55	U	0.214	+/-1.39	0.971	+/-1.39	1.97	pCi/g		SLN1	03/23/06	2147	510186	4
<i>Liquid Scint Ni63, Solid-HTD2, ALL2 (CT)</i>													
Nickel-63	U	-2.63	+/-1.77	1.54	+/-1.77	3.13	pCi/g		SLN1	03/22/06	1128	510187	5
Solid Preparation													
<i>Laboratory Composite – CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID:	3100-0000-Bridging Steel S/G	Project:	YANK01204
Sample ID:	157388015	Client ID:	YANK001
Matrix:	ME	Vol. Recv.:	
Collect Date:	21-FEB-06		
Receive Date:	06-MAR-06		
Collector:	Client		
Moisture:	0%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec Am241, Cm, Solid-TRU2,ALL2 (CT)</i>													
Americium-241	U	0.00629	+/-0.0136	0.00678	+/-0.0136	0.0297	pCi/g		BJB1	03/12/06	0811	509826	1
Curium-242	U	-0.00465	+/-0.00526	0.0128	+/-0.0053	0.043	pCi/g						
Curium-243/244	U	-0.00286	+/-0.0123	0.0096	+/-0.0123	0.0353	pCi/g						
<i>Alphaspec Pu, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-238	U	0.00472	+/-0.0175	0.015	+/-0.0175	0.046	pCi/g		BJB1	03/11/06	0934	509827	2
Plutonium-239/240	U	-0.0127	+/-0.00832	0.0202	+/-0.00841	0.0563	pCi/g						
<i>Liquid Scint Pu241, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-241	U	0.711	+/-1.92	1.60	+/-1.92	3.27	pCi/g		BJB1	03/18/06	0612	509828	3
Rad Gamma Spec Analysis													
<i>Gammaspes, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228	U	0.00606	+/-0.0243	0.0176	+/-0.0238	0.0375	pCi/g		MJH1	03/21/06	0524	512598	4
Americium-241	U	-0.00678	+/-0.00864	0.012	+/-0.00847	0.0248	pCi/g						
Bismuth-212	U	0.00869	+/-0.0265	0.0327	+/-0.026	0.0701	pCi/g						
Bismuth-214	U	0.00682	+/-0.00723	0.00956	+/-0.00709	0.0201	pCi/g						
Cesium-134	U	7.610E-05	+/-0.0047	0.00412	+/-0.0046	0.00894	pCi/g						
Cesium-137	U	0.0285	+/-0.00884	0.00407	+/-0.00867	0.00874	pCi/g						
Cobalt-60	U	0.0157	+/-0.00626	0.0034	+/-0.00614	0.00762	pCi/g						
Europium-152	U	-0.00239	+/-0.00874	0.0115	+/-0.00857	0.0241	pCi/g						
Europium-154	U	-0.0125	+/-0.00964	0.00778	+/-0.00945	0.0178	pCi/g						
Europium-155	U	-0.00299	+/-0.00934	0.0139	+/-0.00915	0.0287	pCi/g						
Lead-212	U	0.0141	+/-0.00597	0.00926	+/-0.00585	0.0191	pCi/g						
Lead-214	U	0.000557	+/-0.00657	0.00878	+/-0.00644	0.0184	pCi/g						
Manganese-54	U	-0.00125	+/-0.00419	0.00403	+/-0.0041	0.0087	pCi/g						
Niobium-94	U	0.00116	+/-0.00323	0.00401	+/-0.00317	0.00855	pCi/g						
Potassium-40	U	0.0131	+/-0.0594	0.0319	+/-0.0582	0.0717	pCi/g						
Radium-226	U	0.00682	+/-0.00723	0.00956	+/-0.00709	0.0201	pCi/g						
Silver-108m	U	-0.00181	+/-0.00344	0.00424	+/-0.00337	0.00891	pCi/g						
Thallium-208	U	0.00513	+/-0.00626	0.00402	+/-0.00613	0.0086	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	0.0121	+/-0.018	0.0177	+/-0.018	0.0397	pCi/g		BXF1	03/10/06	1849	510280	5
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium	U	0.429	+/-0.767	0.631	+/-0.767	1.30	pCi/g		MXP1	03/20/06	0507	510190	6

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID: 3100-0000-Bridging Steel S/G Project: YANK01204
Sample ID: 157388015 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Liquid Scintillation Analysis													
<i>Liquid Scint C14, Solid-HTD2,ALL2 (CT)</i>													
Carbon-14	U	-0.0418	+/-0.184	0.156	+/-0.184	0.321	pCi/g		MXPI	03/18/06	2120	510197	7
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	0.404	+/-0.982	0.672	+/-0.982	1.36	pCi/g		SLN1	03/22/06	1708	510184	8
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	0.225	+/-0.999	0.831	+/-0.999	1.72	pCi/g		SLN1	03/21/06	0050	510185	9
<i>Liquid Scint Tc99, Solid-HTD2,ALL2 (CT)</i>													
Technetium-99		0.444	+/-0.222	0.176	+/-0.223	0.361	pCi/g		SLN1	04/02/06	0515	514613	10

Solid Preparation

Laboratory Composite – leach

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
GL-RAD-A-026	Laboratory sample composite				509146

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, Am-05-RC Modified
2	DOE EML HASL-300, Pu-11-RC Modified
3	DOE EML HASL-300, Pu-11-RC Modified
4	EML HASL 300, 4.5.2.3
5	EPA 905.0 Modified
6	EPA 906.0 Modified
7	EPA EERF C-01 Modified
8	DOE RESL Fe-1, Modified
9	DOE RESL Ni-1, Modified
10	DOE EML HASL-300, Tc-02-RC Modified
11	DOE EML HASL-300, Tc-02-RC Modified
12	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Americium-243	Alphaspec Am241, Cm, Solid-TR1	90	(15%-125%)
Plutonium-242	Alphaspec Pu, Solid-TRU2,ALL2	92	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Pu241, Solid-TRU2, /	96	(25%-125%)

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID: 3100-0000-Bridging Steel S/G Project: YANK01204
Sample ID: 157388015 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Carrier/Tracer Recovery		GFPC, Sr90, solid Quick TAT			100		(25%-125%)						
Carrier/Tracer Recovery		Liquid Scint Fe55, Solid-HTD2,AI			91		(15%-125%)						
Carrier/Tracer Recovery		Liquid Scint Ni63, Solid-HTD2,AI			49		(25%-125%)						
Carrier/Tracer Recovery		Liquid Scint Tc99, Solid-HTD2,AI			103		(15%-125%)						

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID:	3100-0000-Bridging Steel RX	Project:	YANK01204
Sample ID:	157388016	Client ID:	YANK001
Matrix:	ME	Vol. Recv.:	
Collect Date:	21-FEB-06		
Receive Date:	06-MAR-06		
Collector:	Client		
Moisture:	0%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec Am241, Cm, Solid-TRU2,ALL2 (CT)</i>													
Americium-241	U	0.00869	+/-0.0149	0.00	+/-0.0149	0.018	pCi/g		BJB1	03/12/06	0811	509826	1
Curium-242	U	0.00	+/-0.0141	0.00	+/-0.0141	0.0195	pCi/g						
Curium-243/244	U	-0.00159	+/-0.0134	0.00757	+/-0.0134	0.0331	pCi/g						
<i>Alphaspec Pu, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-238	U	0.0106	+/-0.0209	0.015	+/-0.0209	0.0459	pCi/g		BJB1	03/11/06	0934	509827	2
Plutonium-239/240	U	-0.00824	+/-0.0145	0.0212	+/-0.0145	0.0583	pCi/g						
<i>Liquid Scint Pu241, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-241	U	1.55	+/-2.04	1.68	+/-2.05	3.43	pCi/g		BJB1	03/18/06	0644	509828	3
Rad Gamma Spec Analysis													
<i>Gammaspac, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228	U	0.00553	+/-0.0607	0.0279	+/-0.0595	0.0599	pCi/g		MJH1	03/21/06	1012	512598	4
Americium-241	U	-0.00338	+/-0.00614	0.00675	+/-0.00601	0.0143	pCi/g						
Bismuth-212	U	0.0331	+/-0.0522	0.0472	+/-0.0512	0.103	pCi/g						
Bismuth-214	U	0.018	+/-0.0226	0.0111	+/-0.0222	0.0239	pCi/g						
Cesium-134	U	0.070E-05	+/-0.00749	0.0069	+/-0.00734	0.015	pCi/g						
Cesium-137	U	0.00392	+/-0.00648	0.00656	+/-0.00635	0.0142	pCi/g						
Cobalt-60	U	0.0315	+/-0.0148	0.0055	+/-0.0145	0.0126	pCi/g						
Europium-152	U	-0.00187	+/-0.0158	0.0156	+/-0.0155	0.0332	pCi/g						
Europium-154	U	0.000537	+/-0.0173	0.0154	+/-0.017	0.0351	pCi/g						
Europium-155	U	-0.00223	+/-0.0124	0.0131	+/-0.0122	0.0275	pCi/g						
Lead-212	U	0.00558	+/-0.0147	0.00879	+/-0.0144	0.0185	pCi/g						
Lead-214	U	0.00568	+/-0.0162	0.0133	+/-0.0158	0.028	pCi/g						
Manganese-54	U	-0.00199	+/-0.00671	0.0059	+/-0.00658	0.0129	pCi/g						
Niobium-94	U	0.00687	+/-0.00599	0.00627	+/-0.00587	0.0135	pCi/g						
Potassium-40	U	0.0491	+/-0.154	0.0645	+/-0.151	0.144	pCi/g						
Radium-226	U	0.018	+/-0.0226	0.0111	+/-0.0222	0.0239	pCi/g						
Silver-108m	U	0.00332	+/-0.00492	0.00534	+/-0.00483	0.0115	pCi/g						
Thallium-208	U	0.0117	+/-0.00663	0.00738	+/-0.00649	0.0157	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	0.0041	+/-0.0175	0.0188	+/-0.0175	0.042	pCi/g		BXF1	03/10/06	1849	510280	5
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium	U	0.734	+/-0.788	0.640	+/-0.788	1.32	pCi/g		MXP1	03/20/06	0610	510190	6

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID: 3100-0000-Bridging Steel RX Project: YANK01204
Sample ID: 157388016 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Liquid Scintillation Analysis													
<i>Liquid Scint C14, Solid-HTD2,ALL2 (CT)</i>													
Carbon-14	U	-0.0752	+/-0.149	0.127	+/-0.149	0.262	pCi/g		MXPI	03/18/06	2323	510197	7
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	1.23	+/-1.03	0.703	+/-1.03	1.43	pCi/g		SLNI	03/22/06	1841	510184	8
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	-0.0246	+/-0.665	0.559	+/-0.665	1.15	pCi/g		SLNI	03/21/06	0122	510185	9
<i>Liquid Scint Tc99, Solid-HTD2,ALL2 (CT)</i>													
Technetium-99		0.391	+/-0.234	0.187	+/-0.234	0.383	pCi/g		SLNI	04/02/06	0547	514613	10

Solid Preparation

Laboratory Composite – leach

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
GL-RAD-A-026	Laboratory sample composite				509146

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, Am-05-RC Modified
2	DOE EML HASL-300, Pu-11-RC Modified
3	DOE EML HASL-300, Pu-11-RC Modified
4	EML HASL 300, 4.5.2.3
5	EPA 905.0 Modified
6	EPA 906.0 Modified
7	EPA EERF C-01 Modified
8	DOE RESL Fe-1, Modified
9	DOE RESL Ni-1, Modified
10	DOE EML HASL-300, Tc-02-RC Modified
11	DOE EML HASL-300, Tc-02-RC Modified
12	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Americium-243	Alphaspec Am241, Cm, Solid-TR1	85	(15%-125%)
Plutonium-242	Alphaspec Pu, Solid-TRU2,ALL2	95	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Pu241, Solid-TRU2, /	98	(25%-125%)

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID: 3100-0000-Bridging Steel RX Project: YANK01204
Sample ID: 157388016 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Carrier/Tracer Recovery		GFPC, Sr90, solid Quick TAT			99		(25%-125%)						
Carrier/Tracer Recovery		Liquid Scint Fe55, Solid-HTD2,AI			83		(15%-125%)						
Carrier/Tracer Recovery		Liquid Scint Ni63, Solid-HTD2,AI			74		(25%-125%)						
Carrier/Tracer Recovery		Liquid Scint Tc99, Solid-HTD2,AI			103		(15%-125%)						

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID:	3100-0000-Bridging Steel Inne	Project:	YANK01204
Sample ID:	157388017	Client ID:	YANK001
Matrix:	ME	Vol. Recv.:	
Collect Date:	21-FEB-06		
Receive Date:	06-MAR-06		
Collector:	Client		
Moisture:	0%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec Am241, Cm, Solid-TRU2,ALL2 (CT)</i>													
Americium-241	U	0.00741	+/-0.0129	0.00	+/-0.0129	0.0158	pCi/g		BJB1	03/12/06	0811	509826	1
Curium-242	U	0.00	+/-0.0124	0.00	+/-0.0124	0.0172	pCi/g						
Curium-243/244	U	-0.00141	+/-0.0118	0.00667	+/-0.0118	0.0292	pCi/g						
<i>Alphaspec Pu, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-238	U	-0.0163	+/-0.0138	0.0238	+/-0.0138	0.0609	pCi/g		BJB1	03/11/06	0934	509827	2
Plutonium-239/240	U	-0.0211	+/-0.0145	0.0263	+/-0.0146	0.0659	pCi/g						
<i>Liquid Scint Pu241, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-241	U	-0.314	+/-1.75	1.48	+/-1.75	3.02	pCi/g		BJB1	03/18/06	0715	509828	3
Rad Gamma Spec Analysis													
<i>Gammasespec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228	U	0.0514	+/-0.0364	0.0453	+/-0.0357	0.103	pCi/g		MJH1	03/21/06	1215	512598	4
Americium-241	U	0.0115	+/-0.0339	0.0438	+/-0.0332	0.097	pCi/g						
Bismuth-212	U	-0.027	+/-0.0757	0.0713	+/-0.0742	0.168	pCi/g						
Bismuth-214	U	0.0145	+/-0.025	0.0239	+/-0.0245	0.0533	pCi/g						
Cesium-134	U	-0.00487	+/-0.0116	0.00869	+/-0.0114	0.0211	pCi/g						
Cesium-137	U	0.00095	+/-0.00976	0.0103	+/-0.00956	0.0238	pCi/g						
Cobalt-60	U	0.000449	+/-0.00913	0.00877	+/-0.00895	0.0221	pCi/g						
Europium-152	U	0.000389	+/-0.0196	0.0213	+/-0.0193	0.0492	pCi/g						
Europium-154	U	0.0256	+/-0.0343	0.0355	+/-0.0337	0.0833	pCi/g						
Europium-155	U	0.013	+/-0.0195	0.027	+/-0.0191	0.0598	pCi/g						
Lead-212	U	0.013	+/-0.0125	0.0163	+/-0.0122	0.0357	pCi/g						
Lead-214	U	0.0215	+/-0.0172	0.0222	+/-0.0169	0.0491	pCi/g						
Manganese-54	U	0.00554	+/-0.00649	0.00806	+/-0.00636	0.0196	pCi/g						
Niobium-94	U	0.00714	+/-0.00905	0.0105	+/-0.00887	0.0239	pCi/g						
Potassium-40	U	0.0455	+/-0.0777	0.0861	+/-0.0761	0.217	pCi/g						
Radium-226	U	0.0145	+/-0.025	0.0239	+/-0.0245	0.0533	pCi/g						
Silver-108m	U	0.00429	+/-0.00789	0.00954	+/-0.00773	0.0216	pCi/g						
Thallium-208	U	0.00858	+/-0.00882	0.00975	+/-0.00864	0.0226	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	-0.0058	+/-0.0142	0.0171	+/-0.0142	0.0383	pCi/g		BXF1	03/10/06	1849	510280	5
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium	U	0.636	+/-0.770	0.627	+/-0.770	1.29	pCi/g		MXPI	03/20/06	0714	510190	6

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID: 3100-0000-Bridging Steel Inne Project: YANK01204
Sample ID: 157388017 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Liquid Scintillation Analysis													
<i>Liquid Scint C14, Solid-HTD2,ALL2 (CT)</i>													
Carbon-14	U	-0.0964	+/-0.161	0.138	+/-0.161	0.285	pCi/g		MXPI	03/19/06	0125	510197	7
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55		2.09	+/-1.13	0.760	+/-1.13	1.54	pCi/g		SLN1	03/22/06	2014	510184	8
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	0.123	+/-0.836	0.697	+/-0.836	1.44	pCi/g		SLN1	03/21/06	0154	510185	9
<i>Liquid Scint Tc99, Solid-HTD2,ALL2 (CT)</i>													
Technetium-99	U	0.330	+/-0.230	0.185	+/-0.230	0.379	pCi/g		SLN1	04/02/06	0619	514613	10

Solid Preparation

Laboratory Composite – leach

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
GL-RAD-A-026	Laboratory sample composite				509146

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, Am-05-RC Modified
2	DOE EML HASL-300, Pu-11-RC Modified
3	DOE EML HASL-300, Pu-11-RC Modified
4	EML HASL 300, 4.5.2.3
5	EPA 905.0 Modified
6	EPA 906.0 Modified
7	EPA EERF C-01 Modified
8	DOE RESL Fe-1, Modified
9	DOE RESL Ni-1, Modified
10	DOE EML HASL-300, Tc-02-RC Modified
11	DOE EML HASL-300, Tc-02-RC Modified
12	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Americium-243	Alphaspec Am241, Cm, Solid-TR1	97	(15%-125%)
Plutonium-242	Alphaspec Pu, Solid-TRU2,ALL2	103	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Pu241, Solid-TRU2, /	105	(25%-125%)

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID: 3100-0000-Bridging Steel Inne Project: YANK01204
Sample ID: 157388017 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Carrier/Tracer Recovery		GFPC, Sr90, solid	Quick TAT		106		(25%-125%)						
Carrier/Tracer Recovery		Liquid Scint Fe55, Solid-HTD2,A			83		(15%-125%)						
Carrier/Tracer Recovery		Liquid Scint Ni63, Solid-HTD2,A			58		(25%-125%)						
Carrier/Tracer Recovery		Liquid Scint Tc99, Solid-HTD2,A			104		(15%-125%)						

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID: 3100-0000-198-C1C-01
Sample ID: 157388018
Matrix: CT
Collect Date: 16-FEB-06
Receive Date: 06-MAR-06
Collector: Client
Moisture: 6.18%

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec Am241, Cm, Solid-TRU2,ALL2 (CT)</i>													
Americium-241	U	-0.00753	+/-0.0129	0.010	+/-0.0129	0.0369	pCi/g		JXG1	03/16/06	0838	509829	1
Curium-242	U	0.00	+/-0.0138	0.00	+/-0.0138	0.019	pCi/g						
Curium-243/244	U	0.00474	+/-0.0126	0.00711	+/-0.0126	0.0311	pCi/g						
<i>Alphaspec Pu, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-238	U	0.00	+/-0.0143	0.00	+/-0.0143	0.0198	pCi/g		JXG1	03/16/06	1010	509830	2
Plutonium-239/240	U	0.000292	+/-0.0159	0.0166	+/-0.0159	0.053	pCi/g						
<i>Liquid Scint Pu241, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-241	U	-0.29	+/-2.39	2.01	+/-2.39	4.11	pCi/g		JXG1	03/21/06	0853	509831	3
Rad Gamma Spec Analysis													
<i>Gammastec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.273	+/-0.180	0.0908	+/-0.176	0.199	pCi/g		MJH1	03/20/06	1921	512597	4
Americium-241	U	-0.0112	+/-0.102	0.0805	+/-0.100	0.170	pCi/g						
Bismuth-212	UUI	0.00	+/-0.436	0.145	+/-0.427	0.323	pCi/g						
Bismuth-214		0.458	+/-0.108	0.0387	+/-0.106	0.0844	pCi/g						
Cesium-134	U	0.036	+/-0.0305	0.0297	+/-0.0299	0.0644	pCi/g						
Cesium-137	U	0.025	+/-0.0624	0.0225	+/-0.0612	0.049	pCi/g						
Cobalt-60	UUI	0.00	+/-0.0211	0.0175	+/-0.0206	0.0416	pCi/g						
Europium-152	U	0.0191	+/-0.077	0.0663	+/-0.0755	0.140	pCi/g						
Europium-154	U	0.0252	+/-0.0786	0.0697	+/-0.0771	0.157	pCi/g						
Europium-155	U	-0.0357	+/-0.0605	0.0539	+/-0.0593	0.114	pCi/g						
Lead-212		0.418	+/-0.0684	0.032	+/-0.067	0.0678	pCi/g						
Lead-214		0.435	+/-0.108	0.0382	+/-0.105	0.0822	pCi/g						
Manganese-54	U	0.00188	+/-0.0248	0.021	+/-0.0243	0.0465	pCi/g						
Niobium-94	U	-0.00649	+/-0.0217	0.0178	+/-0.0213	0.0392	pCi/g						
Potassium-40		7.54	+/-1.07	0.209	+/-1.05	0.484	pCi/g						
Radium-226		0.458	+/-0.108	0.0387	+/-0.106	0.0844	pCi/g						
Silver-108m	U	0.00297	+/-0.0235	0.0197	+/-0.023	0.0424	pCi/g						
Thallium-208		0.125	+/-0.0555	0.0223	+/-0.0544	0.0484	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	0.0087	+/-0.0172	0.0176	+/-0.0172	0.0402	pCi/g		BXF1	03/14/06	2003	510281	5
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium	U	0.00	+/-1.48	1.24	+/-1.48	2.56	pCi/g		CHS1	03/23/06	1354	510191	6

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID: 3100-0000-198-C1C-01 Project: YANK01204
Sample ID: 157388018 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Liquid Scintillation Analysis													
<i>Liquid Scint C14, Solid-HTD2,ALL2 (CT)</i>													
Carbon-14	U	0.0601	+/-0.319	0.264	+/-0.319	0.560	pCi/g		MXP1	03/15/06	0615	510285	7
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	0.976	+/-1.94	1.38	+/-1.94	2.82	pCi/g		SLN1	03/23/06	2320	510186	8
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	-2.52	+/-2.25	1.94	+/-2.25	3.94	pCi/g		SLN1	03/22/06	1229	510187	9
<i>Liquid Scint Tc99, Solid-HTD2,ALL2 (CT)</i>													
Technetium-99	U	-0.0359	+/-0.360	0.303	+/-0.360	0.628	pCi/g		SLN1	03/21/06	0040	510189	10

Solid Preparation

Laboratory Composite – CONCRETE

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	AXP2	03/10/06	1315	509151
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	MXP2	03/07/06	1414	509147
GL-RAD-A-026	Laboratory sample composite				509146

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, Am-05-RC Modified
2	DOE EML HASL-300, Pu-11-RC Modified
3	DOE EML HASL-300, Pu-11-RC Modified
4	EML HASL 300, 4.5.2.3
5	EPA 905.0 Modified
6	EPA 906.0 Modified
7	EPA EERF C-01 Modified
8	DOE RESL Fe-1, Modified
9	DOE RESL Ni-1, Modified
10	DOE EML HASL-300, Tc-02-RC Modified
11	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Americium-243	Alphaspec Am241, Cm, Solid-TR1	91	(15%-125%)
Plutonium-242	Alphaspec Pu, Solid-TRU2,ALL2	80	(15%-125%)

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID: 3100-0000-198-C1C-01
Sample ID: 157388018
Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Carrier/Tracer Recovery		Liquid Scint Pu241, Solid-TRU2,4			83		(25%-125%)						
Carrier/Tracer Recovery		GFPC, Sr90, solid Quick TAT			81		(25%-125%)						
Carrier/Tracer Recovery		Liquid Scint Fe55, Solid-HTD2,A			51		(15%-125%)						
Carrier/Tracer Recovery		Liquid Scint Ni63, Solid-HTD2,A			58		(25%-125%)						
Carrier/Tracer Recovery		Liquid Scint Tc99, Solid-HTD2,A			78		(15%-125%)						

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID:	3100-0000-198-C1C-02	Project:	YANK01204
Sample ID:	157388019	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	16-FEB-06		
Receive Date:	06-MAR-06		
Collector:	Client		
Moisture:	8.17%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec Am241, Cm, Solid-TRU2,ALL2 (CT)</i>													
Americium-241	U	-0.0098	+/-0.0155	0.0144	+/-0.0155	0.0485	pCi/g		JXG1	03/16/06	0838	509829	1
Curium-242	U	0.00	+/-0.0161	0.00	+/-0.0161	0.0223	pCi/g						
Curium-243/244	U	-0.00175	+/-0.0147	0.00833	+/-0.0148	0.0365	pCi/g						
<i>Alphaspec Pu, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-238	U	-0.00339	+/-0.0146	0.0114	+/-0.0146	0.0419	pCi/g		JXG1	03/16/06	1010	509830	2
Plutonium-239/240	U	0.000282	+/-0.0153	0.0161	+/-0.0153	0.0513	pCi/g						
<i>Liquid Scint Pu241, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-241	U	-1.71	+/-2.40	2.05	+/-2.41	4.19	pCi/g		JXG1	03/21/06	1123	509831	3
Rad Gamma Spec Analysis													
<i>Gammaspac, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.341	+/-0.187	0.0675	+/-0.183	0.150	pCi/g		MJH1	03/20/06	1922	512597	4
Americium-241	U	0.0219	+/-0.0978	0.0818	+/-0.0958	0.172	pCi/g						
Bismuth-212		0.458	+/-0.225	0.130	+/-0.221	0.290	pCi/g						
Bismuth-214		0.378	+/-0.0933	0.0376	+/-0.0915	0.0815	pCi/g						
Cesium-134	U	0.00938	+/-0.030	0.0233	+/-0.0294	0.051	pCi/g						
Cesium-137	U	0.00857	+/-0.0193	0.0176	+/-0.0189	0.0389	pCi/g						
Cobalt-60	U	0.0219	+/-0.0249	0.0239	+/-0.0244	0.0537	pCi/g						
Europium-152	U	0.100	+/-0.0566	0.0563	+/-0.0555	0.120	pCi/g						
Europium-154	U	-0.0552	+/-0.0807	0.0617	+/-0.0791	0.139	pCi/g						
Europium-155	U	0.00418	+/-0.0608	0.054	+/-0.0596	0.113	pCi/g						
Lead-212		0.456	+/-0.0636	0.0283	+/-0.0623	0.0598	pCi/g						
Lead-214		0.546	+/-0.0849	0.0316	+/-0.0832	0.0684	pCi/g						
Manganese-54	U	0.000923	+/-0.0264	0.0224	+/-0.0258	0.049	pCi/g						
Niobium-94	U	-0.00166	+/-0.0237	0.0175	+/-0.0232	0.0384	pCi/g						
Potassium-40		7.74	+/-0.979	0.161	+/-0.960	0.381	pCi/g						
Radium-226		0.378	+/-0.0933	0.0376	+/-0.0915	0.0815	pCi/g						
Silver-108m	U	0.00435	+/-0.0217	0.0188	+/-0.0213	0.0404	pCi/g						
Thallium-208		0.118	+/-0.0415	0.0196	+/-0.0406	0.0426	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	0.0153	+/-0.0174	0.0168	+/-0.0174	0.0377	pCi/g		BXFI	03/14/06	2003	510281	5
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium	U	-0.895	+/-1.59	1.39	+/-1.59	2.95	pCi/g		CHS1	03/21/06	1213	510291	6

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID: 3100-0000-198-C1C-02 Project: YANK01204
Sample ID: 157388019 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Liquid Scintillation Analysis													
<i>Liquid Scint C14, Solid-HTD2,ALL2 (CT)</i>													
Carbon-14	U	-0.0125	+/-0.369	0.310	+/-0.369	0.658	pCi/g		MXPI	03/15/06	0647	510285	7
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	0.627	+/-1.39	0.961	+/-1.39	1.95	pCi/g		SLNI	03/21/06	0323	510286	8
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	-0.613	+/-1.57	1.33	+/-1.57	2.72	pCi/g		SLNI	03/20/06	1523	510288	9
<i>Liquid Scint Tc99, Solid-HTD2,ALL2 (CT)</i>													
Technetium-99	U	-0.0633	+/-0.379	0.321	+/-0.379	0.664	pCi/g		SLNI	03/21/06	0056	510189	10

Solid Preparation

Laboratory Composite – CONCRETE

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	AXP2	03/10/06	1315	509151
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	MXPI	03/07/06	1414	509147
GL-RAD-A-026	Laboratory sample composite				509146

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, Am-05-RC Modified
2	DOE EML HASL-300, Pu-11-RC Modified
3	DOE EML HASL-300, Pu-11-RC Modified
4	EML HASL 300, 4.5.2.3
5	EPA 905.0 Modified
6	EPA 906.0 Modified
7	EPA EERF C-01 Modified
8	DOE RESL Fe-1, Modified
9	DOE RESL Ni-1, Modified
10	DOE EML HASL-300, Tc-02-RC Modified
11	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Americium-243	Alphaspec Am241, Cm, Solid-TR1	80	(15%-125%)
Plutonium-242	Alphaspec Pu, Solid-TRU2,ALL2	82	(15%-125%)

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID: 3100-0000-198-C1C-02
Sample ID: 157388019
Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Carrier/Tracer Recovery		Liquid Scint Pu241, Solid-TRU2,4			83		(25%-125%)						
Carrier/Tracer Recovery		GFPC, Sr90, solid Quick TAT			100		(25%-125%)						
Carrier/Tracer Recovery		Liquid Scint Fe55, Solid-HTD2,A			78		(15%-125%)						
Carrier/Tracer Recovery		Liquid Scint Ni63, Solid-HTD2,A			77		(25%-125%)						
Carrier/Tracer Recovery		Liquid Scint Tc99, Solid-HTD2,A			78		(15%-125%)						

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424:
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID:	3100-0000-198-C1C-03	Project:	YANK01204
Sample ID:	157388020	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	16-FEB-06		
Receive Date:	06-MAR-06		
Collector:	Client		
Moisture:	6.59%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>Gammasec, Gamma, GAM2, ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.399	+/-0.157	0.0717	+/-0.154	0.157	pCi/g		MJH1	03/20/06	1922	512597	1
Americium-241	U	0.0563	+/-0.130	0.0826	+/-0.128	0.172	pCi/g						
Bismuth-212	U	0.242	+/-0.260	0.134	+/-0.255	0.294	pCi/g						
Bismuth-214		0.424	+/-0.0957	0.0321	+/-0.0938	0.0699	pCi/g						
Cesium-134	U	0.0371	+/-0.0263	0.0255	+/-0.0258	0.0549	pCi/g						
Cesium-137	U	0.00701	+/-0.0239	0.0187	+/-0.0235	0.0407	pCi/g						
Cobalt-60	U	-0.0165	+/-0.0215	0.0147	+/-0.0211	0.0346	pCi/g						
Europium-152	U	0.00648	+/-0.0623	0.0536	+/-0.0611	0.114	pCi/g						
Europium-154	U	-0.0121	+/-0.0648	0.0513	+/-0.0635	0.116	pCi/g						
Europium-155	U	-0.00416	+/-0.0604	0.055	+/-0.0592	0.115	pCi/g						
Lead-212		0.434	+/-0.0576	0.031	+/-0.0564	0.0649	pCi/g						
Lead-214		0.383	+/-0.0821	0.0428	+/-0.0804	0.0901	pCi/g						
Manganese-54	U	-0.00862	+/-0.0218	0.0176	+/-0.0214	0.0388	pCi/g						
Niobium-94	U	-0.015	+/-0.0259	0.0178	+/-0.0254	0.0385	pCi/g						
Potassium-40		7.40	+/-0.825	0.154	+/-0.808	0.359	pCi/g						
Radium-226		0.424	+/-0.0957	0.0321	+/-0.0938	0.0699	pCi/g						
Silver-108m	U	-0.000232	+/-0.0191	0.016	+/-0.0187	0.0345	pCi/g						
Thallium-208		0.161	+/-0.0391	0.0193	+/-0.0383	0.0416	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	0.000239	+/-0.0271	0.0312	+/-0.0271	0.0702	pCi/g		BXF1	03/14/06	2003	510281	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2, ALL2 (CT)</i>													
Tritium	U	-0.988	+/-1.52	1.34	+/-1.52	2.84	pCi/g		CHS1	03/21/06	1250	510291	3
<i>Liquid Scint Fe55, Solid-HTD2, ALL2 (CT)</i>													
Iron-55	U	0.152	+/-1.35	0.940	+/-1.35	1.90	pCi/g		SLN1	03/21/06	0526	510286	4
<i>Liquid Scint Ni63, Solid-HTD2, ALL2 (CT)</i>													
Nickel-63	U	-0.476	+/-1.47	1.24	+/-1.47	2.54	pCi/g		SLN1	03/20/06	1626	510288	5
Solid Preparation													
<i>Laboratory Composite – CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID: 3100-0000-198-C1C-03 Project: YANK01204
Sample ID: 157388020 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	AXP2	03/10/06	1315	509151
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	MXP2	03/07/06	1414	509147
GL-RAD-A-026	Laboratory sample composite				509146

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	DOE RESL Fe-1, Modified
5	DOE RESL Ni-1, Modified
6	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	52	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,Al	74	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,Al	80	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID:	3100-0000-198-C1C-04	Project:	YANK01204
Sample ID:	157388021	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	16-FEB-06		
Receive Date:	06-MAR-06		
Collector:	Client		
Moisture:	5.56%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

Rad Gamma Spec Analysis

GammaSpec, Gamma, GAM2, ALL2 (CT ingrowth waived)

Actinium-228		0.448	+/-0.157	0.0559	+/-0.154	0.121	pCi/g		MJH1	03/20/06	0619	512599	1
Americium-241	U	0.0283	+/-0.119	0.0703	+/-0.116	0.145	pCi/g						
Bismuth-212		0.383	+/-0.247	0.108	+/-0.243	0.234	pCi/g						
Bismuth-214		0.373	+/-0.0912	0.0268	+/-0.0894	0.0573	pCi/g						
Cesium-134	U	0.0219	+/-0.0209	0.019	+/-0.0204	0.0407	pCi/g						
Cesium-137	U	-0.00896	+/-0.0193	0.0156	+/-0.019	0.0334	pCi/g						
Cobalt-60	U	0.00705	+/-0.0212	0.0184	+/-0.0208	0.0405	pCi/g						
Europium-152	U	-0.0972	+/-0.0592	0.0385	+/-0.058	0.0813	pCi/g						
Europium-154	U	0.0496	+/-0.0681	0.055	+/-0.0668	0.120	pCi/g						
Europium-155	U	0.00603	+/-0.0514	0.0459	+/-0.0504	0.0948	pCi/g						
Lead-212		0.466	+/-0.0696	0.0237	+/-0.0682	0.0493	pCi/g						
Lead-214		0.436	+/-0.101	0.0291	+/-0.0992	0.0613	pCi/g						
Manganese-54	U	0.0058	+/-0.0215	0.0182	+/-0.0211	0.039	pCi/g						
Niobium-94	U	-0.000393	+/-0.0181	0.0152	+/-0.0178	0.0323	pCi/g						
Potassium-40		7.89	+/-0.995	0.148	+/-0.975	0.332	pCi/g						
Radium-226		0.373	+/-0.0912	0.0268	+/-0.0894	0.0573	pCi/g						
Silver-108m	U	0.00593	+/-0.0159	0.0141	+/-0.0156	0.0299	pCi/g						
Thallium-208	UUI	0.00	+/-0.0433	0.0307	+/-0.0425	0.0635	pCi/g						

Rad Gas Flow Proportional Counting

GFPC, Sr90, solid Quick TAT

Strontium-90	U	0.0208	+/-0.0311	0.0313	+/-0.0311	0.0704	pCi/g		BXF1	03/14/06	1550	510283	2
--------------	---	--------	-----------	--------	-----------	--------	-------	--	------	----------	------	--------	---

Rad Liquid Scintillation Analysis

LSC, Tritium Dist, Solid-HTD2, ALL2 (CT)

Tritium	U	-1.41	+/-1.49	1.34	+/-1.49	2.84	pCi/g		CHS1	03/21/06	1328	510291	3
---------	---	-------	---------	------	---------	------	-------	--	------	----------	------	--------	---

Liquid Scint Fe55, Solid-HTD2, ALL2 (CT)

Iron-55	U	0.420	+/-1.34	0.933	+/-1.34	1.89	pCi/g		SLN1	03/21/06	0730	510286	4
---------	---	-------	---------	-------	---------	------	-------	--	------	----------	------	--------	---

Liquid Scint Ni63, Solid-HTD2, ALL2 (CT)

Nickel-63	U	-1.43	+/-1.61	1.38	+/-1.61	2.82	pCi/g		SLN1	03/20/06	1728	510288	5
-----------	---	-------	---------	------	---------	------	-------	--	------	----------	------	--------	---

Solid Preparation

Laboratory Composite – CONCRETE

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID: 3100-0000-198-C1C-04 Project: YANK01204
Sample ID: 157388021 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	AXP2	03/10/06	1322	509152
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	MXP2	03/07/06	1404	509149
GL-RAD-A-026	Laboratory sample composite				509146

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	DOE RESL Fe-1, Modified
5	DOE RESL Ni-1, Modified
6	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	56	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,A)	74	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,A)	74	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID:	3100-0000-198-C2C-01	Project:	YANK01204
Sample ID:	157388022	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	16-FEB-06		
Receive Date:	06-MAR-06		
Collector:	Client		
Moisture:	5.88%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>Gammascpec, Gamma, GAM2, ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.415	+/-0.155	0.0602	+/-0.152	0.130	pCi/g		MJH1	03/20/06	0619	512599	1
Americium-241	U	-0.00895	+/-0.119	0.069	+/-0.117	0.143	pCi/g						
Bismuth-212		0.311	+/-0.279	0.128	+/-0.273	0.276	pCi/g						
Bismuth-214		0.411	+/-0.0833	0.028	+/-0.0817	0.0603	pCi/g						
Cesium-134	U	0.0421	+/-0.0255	0.0201	+/-0.025	0.0431	pCi/g						
Cesium-137	U	-0.00332	+/-0.0228	0.0165	+/-0.0223	0.0355	pCi/g						
Cobalt-60	UUI	0.00	+/-0.036	0.0251	+/-0.0353	0.054	pCi/g						
Europium-152	U	-0.00401	+/-0.0538	0.0449	+/-0.0527	0.0944	pCi/g						
Europium-154	U	-0.00945	+/-0.0578	0.0458	+/-0.0567	0.102	pCi/g						
Europium-155	U	0.0157	+/-0.056	0.0504	+/-0.0549	0.104	pCi/g						
Lead-212		0.460	+/-0.0535	0.0276	+/-0.0524	0.0574	pCi/g						
Lead-214		0.463	+/-0.0907	0.0315	+/-0.0889	0.0664	pCi/g						
Manganese-54	U	0.00934	+/-0.0207	0.0181	+/-0.0203	0.0389	pCi/g						
Niobium-94	U	-0.0137	+/-0.021	0.0142	+/-0.0206	0.0305	pCi/g						
Potassium-40		7.72	+/-0.784	0.144	+/-0.768	0.326	pCi/g						
Radium-226		0.411	+/-0.0833	0.028	+/-0.0817	0.0603	pCi/g						
Silver-108m	U	-0.012	+/-0.0185	0.0145	+/-0.0181	0.0307	pCi/g						
Thallium-208		0.188	+/-0.0391	0.0164	+/-0.0383	0.035	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	-0.00342	+/-0.0176	0.0211	+/-0.0176	0.047	pCi/g		BXF1	03/16/06	1025	510283	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2, ALL2 (CT)</i>													
Tritium	U	-0.248	+/-1.55	1.32	+/-1.55	2.80	pCi/g		CHS1	03/21/06	1405	510291	3
<i>Liquid Scint Fe55, Solid-HTD2, ALL2 (CT)</i>													
Iron-55	U	1.74	+/-1.55	1.06	+/-1.55	2.14	pCi/g		SLN1	03/21/06	1649	510286	4
<i>Liquid Scint Ni63, Solid-HTD2, ALL2 (CT)</i>													
Nickel-63	U	-1.03	+/-1.73	1.48	+/-1.73	3.01	pCi/g		SLN1	03/20/06	1830	510288	5
Solid Preparation													
<i>Laboratory Composite – CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID: 3100-0000-198-C2C-01 Project: YANK01204
Sample ID: 157388022 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	AXP2	03/10/06	1322	509152
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	MXP2	03/07/06	1404	509149
GL-RAD-A-026	Laboratory sample composite				509146

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	DOE RESL Fe-1, Modified
5	DOE RESL Ni-1, Modified
6	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	66	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,AI	80	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,AI	72	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID:	3100-0000-198-C3C-01	Project:	YANK01204
Sample ID:	157388023	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	16-FEB-06		
Receive Date:	06-MAR-06		
Collector:	Client		
Moisture:	5.84%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>GammaSpec, Gamma, GAM2, ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.355	+/-0.141	0.0514	+/-0.138	0.112	pCi/g		MJH1	03/20/06	0620	512599	1
Americium-241	U	0.0021	+/-0.0196	0.0175	+/-0.0192	0.0364	pCi/g						
Bismuth-212		0.539	+/-0.212	0.105	+/-0.208	0.228	pCi/g						
Bismuth-214		0.425	+/-0.0867	0.0274	+/-0.085	0.0587	pCi/g						
Cesium-134	U	0.0289	+/-0.0266	0.0208	+/-0.026	0.0443	pCi/g						
Cesium-137	U	-0.00971	+/-0.0199	0.016	+/-0.0195	0.0343	pCi/g						
Cobalt-60	U	0.027	+/-0.022	0.0207	+/-0.0215	0.0451	pCi/g						
Europium-152	U	-0.0273	+/-0.0437	0.0348	+/-0.0428	0.0739	pCi/g						
Europium-154	U	-0.0176	+/-0.0611	0.0484	+/-0.0599	0.107	pCi/g						
Europium-155	U	0.0334	+/-0.0356	0.0317	+/-0.0349	0.0659	pCi/g						
Lead-212		0.391	+/-0.061	0.0208	+/-0.0598	0.0436	pCi/g						
Lead-214		0.491	+/-0.0863	0.0257	+/-0.0846	0.0545	pCi/g						
Manganese-54	U	0.00859	+/-0.0183	0.0158	+/-0.018	0.0342	pCi/g						
Niobium-94	U	0.00427	+/-0.0179	0.0153	+/-0.0175	0.0326	pCi/g						
Potassium-40		7.78	+/-0.892	0.122	+/-0.874	0.282	pCi/g						
Radium-226		0.425	+/-0.0867	0.0274	+/-0.085	0.0587	pCi/g						
Silver-108m	U	0.00945	+/-0.0146	0.0135	+/-0.0143	0.0286	pCi/g						
Thallium-208		0.140	+/-0.0394	0.0158	+/-0.0387	0.0339	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	-0.00734	+/-0.0273	0.0329	+/-0.0273	0.073	pCi/g		BXF1	03/14/06	1550	510283	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2, ALL2 (CT)</i>													
Tritium	U	0.0635	+/-1.61	1.35	+/-1.61	2.86	pCi/g		CHS1	03/21/06	1443	510291	3
<i>Liquid Scint Fe55, Solid-HTD2, ALL2 (CT)</i>													
Iron-55	U	0.630	+/-1.45	0.998	+/-1.45	2.02	pCi/g		SLN1	03/21/06	1853	510286	4
<i>Liquid Scint Ni63, Solid-HTD2, ALL2 (CT)</i>													
Nickel-63	U	-1.52	+/-2.03	1.74	+/-2.03	3.55	pCi/g		SLN1	03/20/06	1933	510288	5
Solid Preparation													
<i>Laboratory Composite – CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID: 3100-0000-198-C3C-01 Project: YANK01204
Sample ID: 157388023 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	AXP2	03/10/06	1322	509152
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	MXP2	03/07/06	1404	509149
GL-RAD-A-026	Laboratory sample composite				509146

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	DOE RESL Fe-1, Modified
5	DOE RESL Ni-1, Modified
6	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	60	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,AI	80	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,AI	63	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

· East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID:	3100-0000-199-C1C-01	Project:	YANK01204
Sample ID:	157388024	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	14-FEB-06		
Receive Date:	06-MAR-06		
Collector:	Client		
Moisture:	6.63%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec Am241, Cm, Solid-TRU2,ALL2 (CT)</i>													
Americium-241	U	0.0227	+/-0.0344	0.00	+/-0.0346	0.0369	pCi/g		JXG1	03/16/06	0838	509829	1
Curium-242	U	0.0155	+/-0.0303	0.00	+/-0.0304	0.0419	pCi/g						
Curium-243/244	U	-0.00327	+/-0.0275	0.0155	+/-0.0275	0.068	pCi/g						
<i>Alphaspec Pu, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-238	U	-0.00427	+/-0.0146	0.019	+/-0.0146	0.0549	pCi/g		JXG1	03/16/06	1010	509830	2
Plutonium-239/240	U	0.00477	+/-0.0127	0.00716	+/-0.0127	0.0313	pCi/g						
<i>Liquid Scint Pu241, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-241	U	-0.652	+/-2.29	1.94	+/-2.29	3.95	pCi/g		JXG1	03/21/06	1154	509831	3
Rad Gamma Spec Analysis													
<i>Gammastec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.382	+/-0.136	0.0753	+/-0.133	0.163	pCi/g		MJH1	03/20/06	0620	512599	4
Americium-241	U	0.0362	+/-0.032	0.0286	+/-0.0313	0.0589	pCi/g						
Bismuth-212	U	0.233	+/-0.199	0.182	+/-0.195	0.388	pCi/g						
Bismuth-214		0.787	+/-0.138	0.0346	+/-0.135	0.0742	pCi/g						
Cesium-134	U	0.0321	+/-0.0254	0.0239	+/-0.0249	0.0513	pCi/g						
Cesium-137	U	-0.00157	+/-0.0259	0.0219	+/-0.0254	0.0466	pCi/g						
Cobalt-60	U	-0.00201	+/-0.0242	0.0199	+/-0.0237	0.0443	pCi/g						
Europium-152	U	0.00779	+/-0.0501	0.0454	+/-0.0491	0.0958	pCi/g						
Europium-154	U	-0.00509	+/-0.0912	0.0656	+/-0.0894	0.143	pCi/g						
Europium-155	U	0.0234	+/-0.0495	0.046	+/-0.0485	0.0953	pCi/g						
Lead-212		0.407	+/-0.0666	0.0296	+/-0.0653	0.0616	pCi/g						
Lead-214		0.874	+/-0.137	0.0323	+/-0.135	0.0683	pCi/g						
Manganese-54	U	0.00243	+/-0.0254	0.0212	+/-0.0249	0.0457	pCi/g						
Niobium-94	U	0.0236	+/-0.022	0.0201	+/-0.0215	0.0428	pCi/g						
Potassium-40		6.26	+/-0.800	0.149	+/-0.784	0.342	pCi/g						
Radium-226		0.787	+/-0.138	0.0346	+/-0.135	0.0742	pCi/g						
Silver-108m	U	0.0282	+/-0.0188	0.0182	+/-0.0185	0.0384	pCi/g						
Thallium-208		0.170	+/-0.0435	0.0188	+/-0.0426	0.0403	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	-0.0201	+/-0.0146	0.0231	+/-0.0146	0.0528	pCi/g		BXF1	03/14/06	1550	510283	5
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium	U	-0.256	+/-1.60	1.36	+/-1.60	2.88	pCi/g		CHS1	03/21/06	1521	510291	6

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID: 3100-0000-199-C1C-01 Project: YANK01204
Sample ID: 157388024 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Liquid Scintillation Analysis													
<i>Liquid Scint C14, Solid-HTD2,ALL2 (CT)</i>													
Carbon-14	U	0.00	+/-0.321	0.270	+/-0.321	0.572	pCi/g		MXP1	03/15/06	0720	510285	7
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	1.44	+/-1.52	1.04	+/-1.52	2.11	pCi/g		SLN1	03/21/06	2056	510286	8
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	-1.18	+/-1.85	1.58	+/-1.85	3.23	pCi/g		SLN1	03/20/06	2035	510288	9
<i>Liquid Scint Tc99, Solid-HTD2,ALL2 (CT)</i>													
Technetium-99	U	0.0652	+/-0.396	0.330	+/-0.396	0.684	pCi/g		SLN1	03/21/06	0111	510189	10

Solid Preparation

Laboratory Composite – CONCRETE

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	AXP2	03/10/06	1322	509152
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	MPX2	03/07/06	1404	509149
GL-RAD-A-026	Laboratory sample composite				509146

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, Am-05-RC Modified
2	DOE EML HASL-300, Pu-11-RC Modified
3	DOE EML HASL-300, Pu-11-RC Modified
4	EML HASL 300, 4.5.2.3
5	EPA 905.0 Modified
6	EPA 906.0 Modified
7	EPA EERF C-01 Modified
8	DOE RESL Fe-1, Modified
9	DOE RESL Ni-1, Modified
10	DOE EML HASL-300, Tc-02-RC Modified
11	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Americium-243	Alphaspec Am241, Cm, Solid-TR1	41	(15%-125%)
Plutonium-242	Alphaspec Pu, Solid-TRU2,ALL2	91	(15%-125%)

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID: 3100-0000-199-C1C-01
Sample ID: 157388024

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Carrier/Tracer Recovery		Liquid Scint Pu241, Solid-TRU2, /			88		(25%-125%)						
Carrier/Tracer Recovery		GFPC, Sr90, solid Quick TAT			65		(25%-125%)						
Carrier/Tracer Recovery		Liquid Scint Fe55, Solid-HTD2, A)			80		(15%-125%)						
Carrier/Tracer Recovery		Liquid Scint Ni63, Solid-HTD2, A)			70		(25%-125%)						
Carrier/Tracer Recovery		Liquid Scint Tc99, Solid-HTD2, A)			75		(15%-125%)						

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID:	3100-0000-199-C1C-02	Project:	YANK01204
Sample ID:	157388025	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	14-FEB-06		
Receive Date:	06-MAR-06		
Collector:	Client		
Moisture:	4.85%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec Am241, Cm, Solid-TRU2,ALL2 (CT)</i>													
Americium-241	U	0.0131	+/-0.0211	0.00	+/-0.0212	0.024	pCi/g		JXG1	03/16/06	0838	509829	1
Curium-242	U	0.00	+/-0.0198	0.00	+/-0.0198	0.0273	pCi/g						
Curium-243/244	U	0.00888	+/-0.0174	0.00	+/-0.0175	0.0241	pCi/g						
<i>Alphaspec Pu, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-238	U	0.00323	+/-0.0129	0.010	+/-0.0129	0.0369	pCi/g		JXG1	03/16/06	1010	509830	2
Plutonium-239/240	U	0.00795	+/-0.0179	0.0123	+/-0.018	0.0413	pCi/g						
<i>Liquid Scint Pu241, Solid-TRU2,ALL2 (CT)</i>													
Plutonium-241	U	-0.699	+/-2.45	2.07	+/-2.45	4.23	pCi/g		JXG1	03/21/06	1226	509831	3
Rad Gamma Spec Analysis													
<i>Gammaspec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.416	+/-0.123	0.0351	+/-0.120	0.0752	pCi/g		MJH1	03/20/06	0909	512599	4
Americium-241	U	-0.0321	+/-0.0457	0.0422	+/-0.0447	0.0871	pCi/g						
Bismuth-212		0.369	+/-0.225	0.0903	+/-0.220	0.191	pCi/g						
Bismuth-214		0.439	+/-0.0697	0.0237	+/-0.0683	0.0497	pCi/g						
Cesium-134	U	0.0108	+/-0.0146	0.0133	+/-0.0143	0.0281	pCi/g						
Cesium-137	U	-0.00183	+/-0.0134	0.0113	+/-0.0132	0.0239	pCi/g						
Cobalt-60	U	-0.000507	+/-0.0147	0.0124	+/-0.0144	0.0266	pCi/g						
Europium-152	U	-0.00265	+/-0.0416	0.0313	+/-0.0407	0.0653	pCi/g						
Europium-154	U	0.00567	+/-0.0411	0.0354	+/-0.0403	0.0759	pCi/g						
Europium-155	U	0.0305	+/-0.0415	0.0386	+/-0.0407	0.0795	pCi/g						
Lead-212		0.390	+/-0.0463	0.0207	+/-0.0453	0.0428	pCi/g						
Lead-214		0.513	+/-0.0778	0.0212	+/-0.0762	0.0444	pCi/g						
Manganese-54	U	-0.00605	+/-0.0128	0.0107	+/-0.0126	0.0228	pCi/g						
Niobium-94	U	0.000779	+/-0.0124	0.0105	+/-0.0122	0.0222	pCi/g						
Potassium-40		8.19	+/-0.750	0.103	+/-0.735	0.224	pCi/g						
Radium-226		0.439	+/-0.0697	0.0237	+/-0.0683	0.0497	pCi/g						
Silver-108m	U	-0.00517	+/-0.011	0.00956	+/-0.0108	0.0201	pCi/g						
Thallium-208		0.126	+/-0.0252	0.0102	+/-0.0247	0.0217	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	-0.00913	+/-0.0248	0.0308	+/-0.0248	0.0691	pCi/g		BXFI	03/14/06	1550	510283	5
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium	U	0.441	+/-1.71	1.40	+/-1.71	2.98	pCi/g		CHS1	03/21/06	1559	510291	6

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID: 3100-0000-199-C1C-02 Project: YANK01204
Sample ID: 157388025 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Liquid Scintillation Analysis													
<i>Liquid Scint C14, Solid-HTD2,ALL2 (CT)</i>													
Carbon-14	U	-0.312	+/-0.333	0.299	+/-0.333	0.635	pCi/g		MXP1	03/15/06	0752	510285	7
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	1.70	+/-1.65	1.13	+/-1.65	2.29	pCi/g		SLN1	03/21/06	2300	510286	8
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	-1.56	+/-1.50	1.29	+/-1.50	2.64	pCi/g		SLN1	03/20/06	2138	510288	9
<i>Liquid Scint Tc99, Solid-HTD2,ALL2 (CT)</i>													
Technetium-99	U	-0.119	+/-0.393	0.334	+/-0.393	0.693	pCi/g		SLN1	03/21/06	0127	510189	10

Solid Preparation

Laboratory Composite – CONCRETE

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	AXP2	03/10/06	1322	509152
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	MXP2	03/07/06	1404	509149
GL-RAD-A-026	Laboratory sample composite				509146

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, Am-05-RC Modified
2	DOE EML HASL-300, Pu-11-RC Modified
3	DOE EML HASL-300, Pu-11-RC Modified
4	EML HASL 300, 4.5.2.3
5	EPA 905.0 Modified
6	EPA 906.0 Modified
7	EPA EERF C-01 Modified
8	DOE RESL Fe-1, Modified
9	DOE RESL Ni-1, Modified
10	DOE EML HASL-300, Tc-02-RC Modified
11	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Americium-243	Alphaspec Am241, Cm, Solid-TR1	69	(15%-125%)
Plutonium-242	Alphaspec Pu, Solid-TRU2,ALL2	101	(15%-125%)

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID: 3100-0000-199-C1C-02
Sample ID: 157388025
Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Carrier/Tracer Recovery		Liquid Scint Pu241, Solid-TRU2,4			82		(25%-125%)						
Carrier/Tracer Recovery		GFPC, Sr90, solid Quick TAT			57		(25%-125%)						
Carrier/Tracer Recovery		Liquid Scint Fe55, Solid-HTD2,A			77		(15%-125%)						
Carrier/Tracer Recovery		Liquid Scint Ni63, Solid-HTD2,A			79		(25%-125%)						
Carrier/Tracer Recovery		Liquid Scint Tc99, Solid-HTD2,A			76		(15%-125%)						

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID:	3100-0000-199-C1C-03	Project:	YANK01204
Sample ID:	157388026	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	14-FEB-06		
Receive Date:	06-MAR-06		
Collector:	Client		
Moisture:	6.33%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>GammaSpec, Gamma, GAM2, ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.494	+/-0.125	0.0579	+/-0.123	0.127	pCi/g		MJH1	03/20/06	0936	512599	1
Americium-241	U	0.033	+/-0.120	0.0707	+/-0.118	0.147	pCi/g						
Bismuth-212		0.340	+/-0.263	0.137	+/-0.258	0.295	pCi/g						
Bismuth-214		0.347	+/-0.0828	0.0333	+/-0.0811	0.0712	pCi/g						
Cesium-134	U	0.0321	+/-0.0227	0.0215	+/-0.0222	0.0462	pCi/g						
Cesium-137	U	-0.0163	+/-0.0213	0.0167	+/-0.0209	0.0361	pCi/g						
Cobalt-60	U	0.00911	+/-0.027	0.020	+/-0.0265	0.0443	pCi/g						
Europium-152	U	-0.027	+/-0.0571	0.0456	+/-0.0559	0.0964	pCi/g						
Europium-154	U	-0.0271	+/-0.0717	0.055	+/-0.0703	0.122	pCi/g						
Europium-155	U	0.00733	+/-0.0961	0.0561	+/-0.0942	0.116	pCi/g						
Lead-212		0.502	+/-0.0589	0.0284	+/-0.0577	0.0593	pCi/g						
Lead-214		0.378	+/-0.0792	0.034	+/-0.0776	0.0716	pCi/g						
Manganese-54	U	-0.00991	+/-0.0246	0.0166	+/-0.0241	0.0362	pCi/g						
Niobium-94	U	0.0134	+/-0.0208	0.0184	+/-0.0204	0.0392	pCi/g						
Potassium-40		8.29	+/-0.790	0.146	+/-0.775	0.335	pCi/g						
Radium-226		0.347	+/-0.0828	0.0333	+/-0.0811	0.0712	pCi/g						
Silver-108m	U	0.000845	+/-0.0194	0.0159	+/-0.019	0.0337	pCi/g						
Thallium-208		0.124	+/-0.0371	0.018	+/-0.0364	0.0385	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	-0.0143	+/-0.0188	0.0253	+/-0.0188	0.0569	pCi/g		BXF1	03/14/06	1550	510283	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2, ALL2 (CT)</i>													
Tritium	U	-1.23	+/-1.52	1.35	+/-1.52	2.87	pCi/g		CHS1	03/21/06	1636	510291	3
<i>Liquid Scint Fe55, Solid-HTD2, ALL2 (CT)</i>													
Iron-55	U	-0.758	+/-1.52	1.06	+/-1.52	2.14	pCi/g		SLN1	03/22/06	0103	510286	4
<i>Liquid Scint Ni63, Solid-HTD2, ALL2 (CT)</i>													
Nickel-63	U	-0.899	+/-1.84	1.56	+/-1.84	3.20	pCi/g		SLN1	03/20/06	2240	510288	5
Solid Preparation													
<i>Laboratory Composite – CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID: 3100-0000-199-C1C-03 Project: YANK01204
Sample ID: 157388026 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	AXP2	03/10/06	1322	509152
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	MXP2	03/07/06	1404	509149
GL-RAD-A-026	Laboratory sample composite				509146

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	DOE RESL Fe-1, Modified
5	DOE RESL Ni-1, Modified
6	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	67	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,Al	81	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,Al	70	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID: 3100-0000-199-C1C-04
Sample ID: 157388027
Matrix: CT
Collect Date: 14-FEB-06
Receive Date: 06-MAR-06
Collector: Client
Moisture: 6.13%

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>Gammascpec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.458	+/-0.155	0.0877	+/-0.152	0.187	pCi/g		MJH1	03/20/06	0937	512599	1
Americium-241	U	-0.0124	+/-0.0376	0.0337	+/-0.0368	0.0694	pCi/g						
Bismuth-212		0.622	+/-0.423	0.190	+/-0.414	0.404	pCi/g						
Bismuth-214		0.533	+/-0.0989	0.0452	+/-0.0969	0.0952	pCi/g						
Cesium-134	U	0.00763	+/-0.0344	0.0294	+/-0.0337	0.0623	pCi/g						
Cesium-137	U	0.0457	+/-0.0555	0.0246	+/-0.0544	0.0521	pCi/g						
Cobalt-60	U	0.00922	+/-0.0312	0.0268	+/-0.0306	0.0579	pCi/g						
Europium-152	U	-0.0176	+/-0.0715	0.0607	+/-0.0701	0.127	pCi/g						
Europium-154	U	0.0474	+/-0.0907	0.0707	+/-0.0889	0.153	pCi/g						
Europium-155	U	0.0626	+/-0.0886	0.0569	+/-0.0869	0.117	pCi/g						
Lead-212		0.436	+/-0.0613	0.0345	+/-0.060	0.0714	pCi/g						
Lead-214		0.439	+/-0.0862	0.0406	+/-0.0845	0.085	pCi/g						
Manganese-54	U	0.00819	+/-0.0302	0.0258	+/-0.0296	0.0548	pCi/g						
Niobium-94	U	0.00642	+/-0.0264	0.0228	+/-0.0258	0.0482	pCi/g						
Potassium-40		9.10	+/-0.860	0.182	+/-0.843	0.406	pCi/g						
Radium-226		0.533	+/-0.0989	0.0452	+/-0.0969	0.0952	pCi/g						
Silver-108m	U	0.00566	+/-0.0244	0.0209	+/-0.0239	0.0439	pCi/g						
Thallium-208		0.212	+/-0.0574	0.0237	+/-0.0563	0.0501	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	0.00739	+/-0.0193	0.0206	+/-0.0193	0.0464	pCi/g		BXF1	03/14/06	1833	510283	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium	U	-0.556	+/-1.58	1.36	+/-1.58	2.89	pCi/g		CHS1	03/21/06	1714	510291	3
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	0.529	+/-1.55	1.07	+/-1.55	2.16	pCi/g		SLN1	03/22/06	0307	510286	4
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	0.547	+/-1.63	1.36	+/-1.63	2.78	pCi/g		SLN1	03/20/06	2343	510288	5
Solid Preparation													
<i>Laboratory Composite – CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April, 6, 2006

Client Sample ID: 3100-0000-199-C1C-04 Project: YANK01204
Sample ID: 157388027 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	AXP2	03/10/06	1322	509152
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	MXP2	03/07/06	1404	509149
GL-RAD-A-026	Laboratory sample composite				509146

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	DOE RESL Fe-1, Modified
5	DOE RESL Ni-1, Modified
6	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery %	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	82	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,AI	83	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,AI	69	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID: 3100-0000-199-C2C-01
Sample ID: 157388028
Matrix: CT
Collect Date: 14-FEB-06
Receive Date: 06-MAR-06
Collector: Client
Moisture: 5.29%

Project: YANK01204
Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>Gammascpec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.361	+/-0.115	0.045	+/-0.113	0.0987	pCi/g		MJH1	03/20/06	0937	512599	1
Americium-241	U	-0.00761	+/-0.0179	0.016	+/-0.0176	0.0333	pCi/g						
Bismuth-212		0.234	+/-0.184	0.0962	+/-0.181	0.209	pCi/g						
Bismuth-214		0.403	+/-0.0787	0.0267	+/-0.0772	0.057	pCi/g						
Cesium-134	U	0.0191	+/-0.0191	0.0174	+/-0.0187	0.0373	pCi/g						
Cesium-137	U	-0.0142	+/-0.0192	0.0129	+/-0.0189	0.0279	pCi/g						
Cobalt-60	U	0.0131	+/-0.0179	0.0162	+/-0.0175	0.0357	pCi/g						
Europium-152	U	0.0226	+/-0.037	0.0331	+/-0.0363	0.0701	pCi/g						
Europium-154	U	-0.00044	+/-0.052	0.0431	+/-0.051	0.0952	pCi/g						
Europium-155	U	0.0252	+/-0.0323	0.0292	+/-0.0316	0.0608	pCi/g						
Lead-212		0.374	+/-0.0558	0.0196	+/-0.0547	0.041	pCi/g						
Lead-214		0.360	+/-0.0729	0.025	+/-0.0714	0.0528	pCi/g						
Manganese-54	U	7.430E-05	+/-0.0168	0.0139	+/-0.0165	0.0302	pCi/g						
Niobium-94	U	0.0159	+/-0.0184	0.0141	+/-0.018	0.030	pCi/g						
Potassium-40		7.30	+/-0.791	0.120	+/-0.775	0.273	pCi/g						
Radium-226		0.403	+/-0.0787	0.0267	+/-0.0772	0.057	pCi/g						
Silver-108m	U	-0.00799	+/-0.0131	0.0112	+/-0.0128	0.0239	pCi/g						
Thallium-208		0.151	+/-0.0373	0.0119	+/-0.0366	0.0257	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	0.0159	+/-0.0218	0.0215	+/-0.0219	0.0488	pCi/g		BXF1	03/16/06	1025	510283	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium	U	0.00	+/-1.60	1.35	+/-1.60	2.86	pCi/g		CHS1	03/21/06	1751	510291	3
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	0.501	+/-1.47	1.03	+/-1.47	2.08	pCi/g		SLN1	03/22/06	0510	510286	4
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	-0.533	+/-1.83	1.55	+/-1.83	3.16	pCi/g		SLN1	03/21/06	0045	510288	5
Solid Preparation													
<i>Laboratory Composite – CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power

Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424

Contact: Mr. Jack McCarthy

Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID: 3100-0000-199-C2C-01

Sample ID: 157388028

Project: YANK01204

Client ID: YANK001

Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	AXP2	03/10/06	1322	509152
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	MXP2	03/07/06	1404	509149
GL-RAD-A-026	Laboratory sample composite				509146

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	DOE RESL Fe-1, Modified
5	DOE RESL Ni-1, Modified
6	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	56	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,A)	66	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,A)	64	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID:	3100-0000-199-C4C-01	Project:	YANK01204
Sample ID:	157388029	Client ID:	YANK001
Matrix:	CT	Vol. Recv.:	
Collect Date:	14-FEB-06		
Receive Date:	06-MAR-06		
Collector:	Client		
Moisture:	5.17%		

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Gamma Spec Analysis													
<i>Gammascpec, Gamma, GAM2,ALL2 (CT ingrowth waived)</i>													
Actinium-228		0.278	+/-0.152	0.0683	+/-0.149	0.149	pCi/g		MJH1	03/20/06	0938	512599	1
Americium-241	U	0.0141	+/-0.0295	0.0254	+/-0.0289	0.0527	pCi/g						
Bismuth-212		0.444	+/-0.243	0.135	+/-0.238	0.294	pCi/g						
Bismuth-214		0.307	+/-0.0973	0.0357	+/-0.0954	0.0764	pCi/g						
Cesium-134	U	0.0271	+/-0.0284	0.0256	+/-0.0279	0.0549	pCi/g						
Cesium-137	U	-0.0028	+/-0.0226	0.0188	+/-0.0222	0.0406	pCi/g						
Cobalt-60	U	0.00876	+/-0.0259	0.0225	+/-0.0254	0.0498	pCi/g						
Europium-152	U	0.0342	+/-0.0514	0.0476	+/-0.0503	0.101	pCi/g						
Europium-154	U	0.0051	+/-0.082	0.069	+/-0.0804	0.151	pCi/g						
Europium-155	U	-0.000257	+/-0.0464	0.0419	+/-0.0454	0.087	pCi/g						
Lead-212		0.359	+/-0.0612	0.0286	+/-0.060	0.0596	pCi/g						
Lead-214		0.413	+/-0.0992	0.0328	+/-0.0972	0.0695	pCi/g						
Manganese-54	U	0.00366	+/-0.024	0.0201	+/-0.0236	0.0437	pCi/g						
Niobium-94	U	0.0106	+/-0.0214	0.0187	+/-0.021	0.0402	pCi/g						
Potassium-40		8.13	+/-0.992	0.186	+/-0.972	0.420	pCi/g						
Radium-226		0.307	+/-0.0973	0.0357	+/-0.0954	0.0764	pCi/g						
Silver-108m	U	-0.00186	+/-0.0185	0.0161	+/-0.0182	0.0343	pCi/g						
Thallium-208		0.143	+/-0.0494	0.0199	+/-0.0484	0.0425	pCi/g						
Rad Gas Flow Proportional Counting													
<i>GFPC, Sr90, solid Quick TAT</i>													
Strontium-90	U	-0.0207	+/-0.0203	0.0289	+/-0.0203	0.0651	pCi/g		BXFI	03/14/06	1833	510283	2
Rad Liquid Scintillation Analysis													
<i>LSC, Tritium Dist, Solid-HTD2,ALL2 (CT)</i>													
Tritium	U	0.105	+/-1.60	1.34	+/-1.60	2.84	pCi/g		CHS1	03/21/06	1829	510291	3
<i>Liquid Scint Fe55, Solid-HTD2,ALL2 (CT)</i>													
Iron-55	U	1.66	+/-1.55	1.06	+/-1.55	2.15	pCi/g		SLN1	03/22/06	0714	510286	4
<i>Liquid Scint Ni63, Solid-HTD2,ALL2 (CT)</i>													
Nickel-63	U	-0.373	+/-1.65	1.39	+/-1.65	2.84	pCi/g		SLN1	03/21/06	0147	510288	5
Solid Preparation													
<i>Laboratory Composite – CONCRETE</i>													

The following Prep Methods were performed

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : Connecticut Yankee Atomic Power
Address : 362 Injun Hollow Rd

East Hampton, Connecticut 06424
Contact: Mr. Jack McCarthy
Project: Soils PO# 002332

Report Date: April 6, 2006

Client Sample ID: 3100-0000-199-C4C-01 Project: YANK01204
Sample ID: 157388029 Client ID: YANK001
Vol. Recv.:

Parameter	Qualifier	Result	Uncertainty	LC	TPU	MDA	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	-----	-------	----	---------	------	------	-------	-----

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Ash Soil Prep	Ash Soil Prep, GL-RAD-A-021B	AXP2	03/10/06	1322	509152
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	MXP2	03/07/06	1404	509149
GL-RAD-A-026	Laboratory sample composite				509146

The following Analytical Methods were performed

Method	Description
1	EML HASL 300, 4.5.2.3
2	EPA 905.0 Modified
3	EPA 906.0 Modified
4	DOE RESL Fe-1, Modified
5	DOE RESL Ni-1, Modified
6	GL-RAD-A-026

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Carrier/Tracer Recovery	GFPC, Sr90, solid Quick TAT	57	(25%-125%)
Carrier/Tracer Recovery	Liquid Scint Fe55, Solid-HTD2,A)	78	(15%-125%)
Carrier/Tracer Recovery	Liquid Scint Ni63, Solid-HTD2,A)	75	(25%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- B Target analyte was detected in the sample as well as the associated blank.
 - BD Results below the MDC or low tracer recovery.
 - E Concentration of the target analyte exceeds the instrument calibration range.
 - H Analytical holding time exceeded.
 - J Indicates an estimated value.
 - U Target analyte was analyzed for but not detected above the MDL or LOD.
 - UI Uncertain identification for gamma spectroscopy.
 - X Lab-specific qualifier—please see case narrative, data summary package or contact your project manager for details.
 - d The 2:1 depletion requirement was not met for this sample
 - h Sample preparation or preservation holding time exceeded.
- The above sample is reported on a dry weight basis.

QUALITY CONTROL DATA

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Client : Connecticut Yankee Atomic Power
362 Injun Hollow Rd

Report Date: April 6, 2006
Page 1 of 21

Contact: East Hampton, Connecticut
Mr. Jack McCarthy

Workorder: 157388

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Alpha Spec											
Batch	509826										
QC1201046758	157388001	DUP									
Americium-241	U	-0.00446	U	-0.00831	pCi/g	60		(0% - 100%)	BJB1	03/12/06	08:11
	Uncert:	+/-0.0122		+/-0.0163							
	TPU:	+/-0.0122		+/-0.0163							
Curium-242	U	0.00	U	-0.00212	pCi/g	200		(0% - 100%)			
	Uncert:	+/-0.0137		+/-0.0178							
	TPU:	+/-0.0137		+/-0.0178							
Curium-243/244	U	0.00	U	0.00	pCi/g	0		(0% - 100%)			
	Uncert:	+/-0.0122		+/-0.0155							
	TPU:	+/-0.0122		+/-0.0155							
QC1201046760	LCS										
Americium-241	2.31			2.32	pCi/g		100	(75%-125%)			
	Uncert:			+/-0.216							
	TPU:			+/-0.359							
Curium-242			U	0.00528	pCi/g						
	Uncert:			+/-0.0103							
	TPU:			+/-0.0104							
Curium-243/244	2.05			2.01	pCi/g		98	(75%-125%)			
	Uncert:			+/-0.201							
	TPU:			+/-0.320							
QC1201046757	MB										
Americium-241			U	0.00336	pCi/g						
	Uncert:			+/-0.0145							
	TPU:			+/-0.0145							
Curium-242			U	0.00	pCi/g						
	Uncert:			+/-0.00921							
	TPU:			+/-0.00921							
Curium-243/244			U	-0.00316	pCi/g						
	Uncert:			+/-0.0108							
	TPU:			+/-0.0108							
QC1201046759	157388001	MS									
Americium-241	2.64	U	-0.00446	2.32	pCi/g		88	(75%-125%)			
	Uncert:		+/-0.0122	+/-0.218							
	TPU:		+/-0.0122	+/-0.353							
Curium-242		U	0.00	U	-0.00285	pCi/g					
	Uncert:		+/-0.0137	+/-0.0123							
	TPU:		+/-0.0137	+/-0.0123							
Curium-243/244	2.35	U	0.00	2.24	pCi/g		95	(75%-125%)			
	Uncert:		+/-0.0122	+/-0.214							
	TPU:		+/-0.0122	+/-0.343							
Batch	509827										
QC1201046762	157388001	DUP									
Plutonium-238	U	0.00749	U	0.0129	pCi/g	53		(0% - 100%)	BJB1	03/11/06	09:34

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 157388

Page 2 of 21

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Alpha Spec											
Batch 509827											
Plutonium-239/240	Uncert:			+/-0.0205							
	TPU:			+/-0.0205							
		U		-0.0191	U						
	Uncert:			+/-0.00998							
	TPU:			+/-0.0101							
QC1201046764	LCS										
Plutonium-238				U							
	Uncert:			+/-0.0184							
	TPU:			+/-0.0184							
Plutonium-239/240	2.14										
	Uncert:			+/-0.185							
	TPU:			+/-0.264							
QC1201046761	MB										
Plutonium-238				U							
	Uncert:			+/-0.0124							
	TPU:			+/-0.0124							
Plutonium-239/240				U							
	Uncert:			+/-0.0136							
	TPU:			+/-0.0136							
QC1201046763	157388001	MS									
Plutonium-238				U							
	Uncert:			+/-0.0205							
	TPU:			+/-0.0205							
Plutonium-239/240	2.44	U									
	Uncert:			+/-0.00998							
	TPU:			+/-0.0101							
Batch 509828											
QC1201046766	157388001	DUP									
Plutonium-241				U							
	Uncert:			+/-2.14							
	TPU:			+/-2.14							
QC1201046768	LCS										
Plutonium-241											
	32.5										
	Uncert:			+/-2.76							
	TPU:			+/-4.16							
QC1201046765	MB										
Plutonium-241				U							
	Uncert:			+/-1.97							
	TPU:			+/-1.97							
QC1201046767	157388001	MS									
Plutonium-241				U							
	35.3										
	Uncert:			+/-2.14							
	TPU:			+/-2.14							
Batch 509829											
QC1201046770	157388002	DUP									
Americium-241				U							
	Uncert:			+/-0.013							
	TPU:			+/-0.0131							
Curium-242				U							
	0.0202										

GENERAL ENGINEERING LABORATORIES, LLC
 2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 157388

Page 3 of 21

Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Alpha Spec											
Batch	509829										
Curium-243/244		Uncert:	+/-0.028	+/-0.0127							
		TPU:	+/-0.0281	+/-0.0127							
	U		0.00	U -0.00134	pCi/g	200		(0% - 100%)			
		Uncert:	+/-0.0174	+/-0.0112							
		TPU:	+/-0.0174	+/-0.0112							
QC1201046772	LCS										
Americium-241	2.54			2.37	pCi/g		93	(75%-125%)		03/16/06	08:40
		Uncert:		+/-0.232							
		TPU:		+/-0.403							
Curium-242				U -0.00837	pCi/g						
		Uncert:		+/-0.0067							
		TPU:		+/-0.0068							
Curium-243/244	2.26			1.85	pCi/g		82	(75%-125%)			
		Uncert:		+/-0.204							
		TPU:		+/-0.328							
QC1201046769	MB										
Americium-241				U -0.00429	pCi/g					03/16/06	08:38
		Uncert:		+/-0.0154							
		TPU:		+/-0.0154							
Curium-242				U -0.00382	pCi/g						
		Uncert:		+/-0.0165							
		TPU:		+/-0.0165							
Curium-243/244				U 0.00	pCi/g						
		Uncert:		+/-0.0154							
		TPU:		+/-0.0154							
QC1201046771	157388002	MS									
Americium-241	2.62	U	0.00236	2.45	pCi/g		94	(75%-125%)			
		Uncert:	+/-0.013	+/-0.252							
		TPU:	+/-0.0131	+/-0.431							
Curium-242		U	0.0202	U 0.00766	pCi/g						
		Uncert:	+/-0.028	+/-0.015							
		TPU:	+/-0.0281	+/-0.015							
Curium-243/244	2.33	U	0.00	2.25	pCi/g		97	(75%-125%)			
		Uncert:	+/-0.0174	+/-0.242							
		TPU:	+/-0.0174	+/-0.403							
Batch	509830										
QC1201046774	157388002	DUP									
Plutonium-238		U	-0.0014	U -0.00154	pCi/g	10		(0% - 100%)	JXG1	03/16/06	10:10
		Uncert:	+/-0.0118	+/-0.00302							
		TPU:	+/-0.0118	+/-0.00303							
Plutonium-239/240		U	0.00351	U -0.00771	pCi/g	534		(0% - 100%)			
		Uncert:	+/-0.0217	+/-0.00676							
		TPU:	+/-0.0217	+/-0.0068							
QC1201046776	LCS										
Plutonium-238				U -0.0044	pCi/g			(75%-125%)		03/16/06	10:55
		Uncert:		+/-0.013							
		TPU:		+/-0.013							
Plutonium-239/240	2.35			2.38	pCi/g		101	(75%-125%)			
		Uncert:		+/-0.239							

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 157388

Page 4 of 21

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Alpha Spec											
Batch	509830										
QC1201046773	MB										
Plutonium-238											
		TPU:		+/-0.335							
		Uncert:		+/-0.0136							
		TPU:		+/-0.0136							
Plutonium-239/240			U	-0.00853	pCi/g						03/16/06 10:10
		Uncert:		+/-0.0206							
		TPU:		+/-0.0206							
QC1201046775	157388002 MS										
Plutonium-238	U	-0.0014	U	0.0151	pCi/g			(75%-125%)			03/16/06 10:55
		Uncert:		+/-0.0269							
		TPU:		+/-0.0269							
Plutonium-239/240	2.42 U	0.00351		2.62	pCi/g		108	(75%-125%)			
		Uncert:		+/-0.242							
		TPU:		+/-0.349							
Batch	509831										
QC1201046778	157388003 DUP										
Plutonium-241	U	-0.677	U	-0.393	pCi/g	0		(0% - 100%)	JXG1		03/21/06 13:29
		Uncert:		+/-2.06							
		TPU:		+/-2.06							
QC1201046780	LCS										
Plutonium-241		31.8		34.0	pCi/g		107	(75%-125%)			03/21/06 14:32
		Uncert:		+/-2.96							
		TPU:		+/-4.34							
QC1201046777	MB										
Plutonium-241			U	-1.77	pCi/g						03/21/06 12:58
		Uncert:		+/-2.38							
		TPU:		+/-2.39							
QC1201046779	157388003 MS										
Plutonium-241	31.9 U	-0.677		32.3	pCi/g		101	(75%-125%)			03/21/06 14:01
		Uncert:		+/-4.66							
		TPU:		+/-6.20							
Rad Gamma Spec											
Batch	512597										
QC1201053124	157388002 DUP										
Actinium-228	U	0.622	U	0.236	pCi/g	90		(0% - 100%)	MJH1		03/20/06 22:02
		Uncert:		+/-0.464							
		TPU:		+/-0.455							
Americium-241	U	-0.281	U	0.00436	pCi/g	206		(0% - 100%)			
		Uncert:		+/-0.0772							
		TPU:		+/-0.0757							
Bismuth-212	U	-0.635	U	1.06	pCi/g	803*		(0% - 100%)			
		Uncert:		+/-0.994							
		TPU:		+/-0.974							
Bismuth-214		0.452 UUI		0.00	pCi/g	12*		(0% - 100%)			
		Uncert:		+/-0.255							
		TPU:		+/-0.250							
Cesium-134	U	0.174	U	0.107	pCi/g	48		(0% - 100%)			

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 157388

Page 5 of 21

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec											
Batch		512597									
		Uncert:		+/-0.154							
		TPU:		+/-0.151							
Cesium-137		U	0.025	U	0.0467	pCi/g	61	(0% - 100%)			
		Uncert:		+/-0.0921							
		TPU:		+/-0.0902							
Cobalt-60			25.5		26.5	pCi/g	4	(0% - 20%)			
		Uncert:		+/-0.425							
		TPU:		+/-0.417							
Europium-152			32.5		32.4	pCi/g	0	(0% - 100%)			
		Uncert:		+/-0.634							
		TPU:		+/-0.622							
Europium-154			2.09		2.25	pCi/g	7	(0% - 100%)			
		Uncert:		+/-0.395							
		TPU:		+/-0.387							
Europium-155		U	0.143	U	0.093	pCi/g	42	(0% - 100%)			
		Uncert:		+/-0.219							
		TPU:		+/-0.214							
Lead-212			0.371		0.313	pCi/g	17	(0% - 100%)			
		Uncert:		+/-0.139							
		TPU:		+/-0.136							
Lead-214			0.605		0.730	pCi/g	19	(0% - 20%)			
		Uncert:		+/-0.184							
		TPU:		+/-0.180							
Manganese-54		U	0.116	U	0.117	pCi/g	1	(0% - 100%)			
		Uncert:		+/-0.109							
		TPU:		+/-0.107							
Niobium-94		U	-0.0365	U	0.0862	pCi/g	494	(0% - 100%)			
		Uncert:		+/-0.082							
		TPU:		+/-0.0803							
Potassium-40			8.54		9.12	pCi/g	7	(0% - 20%)			
		Uncert:		+/-0.977							
		TPU:		+/-0.957							
Radium-226			0.452		0.399	pCi/g	12	(0% - 100%)			
		Uncert:		+/-0.235							
		TPU:		+/-0.230							
Silver-108m		U	-0.00818	U	-0.00474	pCi/g	53	(0% - 100%)			
		Uncert:		+/-0.066							
		TPU:		+/-0.0647							
Thallium-208		U	0.056	U	0.0686	pCi/g	20	(0% - 100%)			
		Uncert:		+/-0.099							
		TPU:		+/-0.0971							
QC1201053125	LCS										
Actinium-228				U	0.200	pCi/g				03/20/06	07:29
		Uncert:			+/-0.945						
		TPU:			+/-0.926						
Americium-241		24.4			23.5	pCi/g		96 (75%-125%)			
		Uncert:			+/-0.997						
		TPU:			+/-0.977						

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 157388

Page 6 of 21

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec										
Batch	512597									
Bismuth-212		U	-0.321	pCi/g						
	Uncert:		+/-1.32							
	TPU:		+/-1.29							
Bismuth-214		U	0.112	pCi/g						
	Uncert:		+/-0.304							
	TPU:		+/-0.298							
Cesium-134		U	-0.0228	pCi/g						
	Uncert:		+/-0.200							
	TPU:		+/-0.196							
Cesium-137	9.29		10.1	pCi/g			109 (75%-125%)			
	Uncert:		+/-0.660							
	TPU:		+/-0.647							
Cobalt-60	13.4		13.3	pCi/g			99 (75%-125%)			
	Uncert:		+/-0.800							
	TPU:		+/-0.784							
Europium-152		U	0.215	pCi/g						
	Uncert:		+/-0.397							
	TPU:		+/-0.389							
Europium-154		U	0.725	pCi/g						
	Uncert:		+/-0.778							
	TPU:		+/-0.762							
Europium-155		U	0.107	pCi/g						
	Uncert:		+/-0.377							
	TPU:		+/-0.369							
Lead-212		U	0.169	pCi/g						
	Uncert:		+/-0.208							
	TPU:		+/-0.204							
Lead-214		U	0.0376	pCi/g						
	Uncert:		+/-0.289							
	TPU:		+/-0.283							
Manganese-54		U	0.0402	pCi/g						
	Uncert:		+/-0.188							
	TPU:		+/-0.185							
Niobium-94		U	0.137	pCi/g						
	Uncert:		+/-0.163							
	TPU:		+/-0.159							
Potassium-40		U	0.877	pCi/g						
	Uncert:		+/-1.40							
	TPU:		+/-1.37							
Radium-226		U	0.112	pCi/g			(75%-125%)			
	Uncert:		+/-0.304							
	TPU:		+/-0.298							
Silver-108m		U	-0.0104	pCi/g						
	Uncert:		+/-0.155							
	TPU:		+/-0.151							
Thallium-208		U	-0.00166	pCi/g						
	Uncert:		+/-0.164							
	TPU:		+/-0.161							

GENERAL ENGINEERING LABORATORIES, LLC
 2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 157388

Page 7 of 21

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gamma Spec									
Batch	512597								
QC1201053123	MB								
Actinium-228		U	0.0369	pCi/g					03/20/06 19:22
	Uncert:		+/-0.0448						
	TPU:		+/-0.0439						
Americium-241		U	-0.047	pCi/g					
	Uncert:		+/-0.0768						
	TPU:		+/-0.0752						
Bismuth-212		U	-0.011	pCi/g					
	Uncert:		+/-0.101						
	TPU:		+/-0.0988						
Bismuth-214		U	0.0186	pCi/g					
	Uncert:		+/-0.0369						
	TPU:		+/-0.0362						
Cesium-134		U	-0.00419	pCi/g					
	Uncert:		+/-0.0138						
	TPU:		+/-0.0135						
Cesium-137		U	0.00271	pCi/g					
	Uncert:		+/-0.0159						
	TPU:		+/-0.0155						
Cobalt-60		U	0.00173	pCi/g					
	Uncert:		+/-0.0114						
	TPU:		+/-0.0112						
Europium-152		U	0.0189	pCi/g					
	Uncert:		+/-0.0349						
	TPU:		+/-0.0342						
Europium-154		U	0.00842	pCi/g					
	Uncert:		+/-0.026						
	TPU:		+/-0.0255						
Europium-155		U	0.0082	pCi/g					
	Uncert:		+/-0.0306						
	TPU:		+/-0.030						
Lead-212		U	0.0105	pCi/g					
	Uncert:		+/-0.0337						
	TPU:		+/-0.033						
Lead-214		U	0.00385	pCi/g					
	Uncert:		+/-0.0277						
	TPU:		+/-0.0272						
Manganese-54		U	0.00311	pCi/g					
	Uncert:		+/-0.0116						
	TPU:		+/-0.0114						
Niobium-94		U	-0.00499	pCi/g					
	Uncert:		+/-0.0111						
	TPU:		+/-0.0109						
Potassium-40		U	0.0849	pCi/g					
	Uncert:		+/-0.125						
	TPU:		+/-0.123						
Radium-226		U	0.0186	pCi/g					
	Uncert:		+/-0.0369						
	TPU:		+/-0.0362						

GENERAL ENGINEERING LABORATORIES, LLC
 2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 157388

Page 8 of 21

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec											
Batch	512597										
Silver-108m			U	-0.00271	pCi/g						
	Uncert:			+/-0.0119							
	TPU:			+/-0.0116							
Thallium-208			U	0.00715	pCi/g						
	Uncert:			+/-0.0132							
	TPU:			+/-0.0129							
Batch	512598										
QC1201053127	157388001	DUP									
Actinium-228	U	0.000129	U	0.0222	pCi/g	198		(0% - 100%)	MJH1	03/21/06	10:48
	Uncert:	+/-0.107		+/-0.0511							
	TPU:	+/-0.104		+/-0.0501							
Americium-241	U	0.0561	U	0.0164	pCi/g	110		(0% - 100%)			
	Uncert:	+/-0.0974		+/-0.083							
	TPU:	+/-0.0955		+/-0.0814							
Bismuth-212	U	-0.0284	U	0.0356	pCi/g	1790		(0% - 100%)			
	Uncert:	+/-0.150		+/-0.111							
	TPU:	+/-0.147		+/-0.109							
Bismuth-214	U	0.018	U	0.0159	pCi/g	12		(0% - 100%)			
	Uncert:	+/-0.0468		+/-0.0331							
	TPU:	+/-0.0459		+/-0.0325							
Cesium-134	U	-0.00786	U	0.00579	pCi/g	1310		(0% - 100%)			
	Uncert:	+/-0.0221		+/-0.0146							
	TPU:	+/-0.0217		+/-0.0143							
Cesium-137	U	0.0319	U	0.0157	pCi/g	68		(0% - 100%)			
	Uncert:	+/-0.0246		+/-0.0265							
	TPU:	+/-0.0241		+/-0.0259							
Cobalt-60	UUI	0.00		0.0577	pCi/g	23		(0% - 100%)			
	Uncert:	+/-0.0393		+/-0.0286							
	TPU:	+/-0.0385		+/-0.028							
Europium-152	U	-0.00676	U	-0.0212	pCi/g	103		(0% - 100%)			
	Uncert:	+/-0.058		+/-0.0415							
	TPU:	+/-0.0568		+/-0.0406							
Europium-154	U	-0.03	U	0.0157	pCi/g	638		(0% - 100%)			
	Uncert:	+/-0.0733		+/-0.0351							
	TPU:	+/-0.0718		+/-0.0344							
Europium-155	U	-0.0271	U	0.0253	pCi/g	6130		(0% - 100%)			
	Uncert:	+/-0.0577		+/-0.0387							
	TPU:	+/-0.0565		+/-0.038							
Lead-212	U	0.0426	UUI	0.00	pCi/g	37		(0% - 100%)			
	Uncert:	+/-0.0372		+/-0.0495							
	TPU:	+/-0.0364		+/-0.0486							
Lead-214	U	0.00469	U	0.0148	pCi/g	104		(0% - 100%)			
	Uncert:	+/-0.0431		+/-0.0384							
	TPU:	+/-0.0422		+/-0.0377							
Manganese-54	U	-0.0185	U	0.00282	pCi/g	272		(0% - 100%)			
	Uncert:	+/-0.0425		+/-0.014							
	TPU:	+/-0.0417		+/-0.0137							
Niobium-94	U	-0.00471	U	0.00761	pCi/g	850		(0% - 100%)			

GENERAL ENGINEERING LABORATORIES, LLC
 2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 157388

Page 9 of 21

Parmname	NOM	Sample	Qual	QC	Units	RPD %	REC %	Range	Anlst	Date	Time
Rad Gamma Spec											
Batch	512598										
Potassium-40		U		U	pCi/g	27		(0% - 100%)			
		Uncert:	+/-0.0204	+/-0.0125							
		TPU:	+/-0.020	+/-0.0122							
			0.244	0.186							
Radium-226		U		U	pCi/g	12		(0% - 100%)			
		Uncert:	+/-0.305	+/-0.210							
		TPU:	+/-0.299	+/-0.206							
			0.018	0.0159							
Silver-108m		U		U	pCi/g	78		(0% - 100%)			
		Uncert:	+/-0.0468	+/-0.0331							
		TPU:	+/-0.0459	+/-0.0325							
			0.00296	0.00677							
Thallium-208		U		U	pCi/g	414		(0% - 100%)			
		Uncert:	+/-0.0204	+/-0.0126							
		TPU:	+/-0.020	+/-0.0124							
			-0.0033	0.00947							
		Uncert:	+/-0.0245	+/-0.0254							
		TPU:	+/-0.024	+/-0.0249							
QC1201053128	LCS										
Actinium-228				U	pCi/g					03/20/06	20:59
		Uncert:		+/-0.452							
		TPU:		+/-0.443							
Americium-241	12.2				pCi/g		100	(75%-125%)			
		Uncert:		+/-0.772							
		TPU:		+/-0.756							
Bismuth-212				U	pCi/g						
		Uncert:		+/-0.790							
		TPU:		+/-0.779							
				+/-0.764							
Bismuth-214				U	pCi/g						
		Uncert:		-0.00304							
		TPU:		+/-0.200							
				+/-0.196							
Cesium-134				U	pCi/g						
		Uncert:		0.0685							
		TPU:		+/-0.117							
				+/-0.115							
Cesium-137	4.65				pCi/g		98	(75%-125%)			
		Uncert:		4.55							
		TPU:		+/-0.368							
				+/-0.361							
Cobalt-60	6.70				pCi/g		103	(75%-125%)			
		Uncert:		6.90							
		TPU:		+/-0.453							
				+/-0.444							
Europium-152				U	pCi/g						
		Uncert:		-0.0354							
		TPU:		+/-0.237							
				+/-0.233							
Europium-154				U	pCi/g						
		Uncert:		-0.0766							
		TPU:		+/-0.198							
				+/-0.194							
Europium-155				U	pCi/g						
		Uncert:		-0.0276							
		TPU:		+/-0.253							
				+/-0.248							
Lead-212				U	pCi/g						
		Uncert:		-0.0167							
		TPU:		+/-0.121							
				+/-0.119							

GENERAL ENGINEERING LABORATORIES, LLC
 2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 157388

Page 10 of 21

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec										
Batch	512598									
Lead-214		U	-0.166	pCi/g						
	Uncert:		+/-0.173							
	TPU:		+/-0.169							
Manganese-54		U	0.00918	pCi/g						
	Uncert:		+/-0.108							
	TPU:		+/-0.106							
Niobium-94		U	0.0161	pCi/g						
	Uncert:		+/-0.0913							
	TPU:		+/-0.0894							
Potassium-40		U	-0.303	pCi/g						
	Uncert:		+/-0.656							
	TPU:		+/-0.643							
Radium-226		U	-0.00304	pCi/g			(75%-125%)			
	Uncert:		+/-0.200							
	TPU:		+/-0.196							
Silver-108m		U	-0.00502	pCi/g						
	Uncert:		+/-0.0875							
	TPU:		+/-0.0858							
Thallium-208		U	-0.0401	pCi/g						
	Uncert:		+/-0.104							
	TPU:		+/-0.102							
QC1201053126 MB										
Actinium-228		U	0.0142	pCi/g					03/21/06	12:16
	Uncert:		+/-0.0164							
	TPU:		+/-0.0161							
Americium-241		U	-9.310E-05	pCi/g						
	Uncert:		+/-0.0194							
	TPU:		+/-0.019							
Bismuth-212		U	0.00334	pCi/g						
	Uncert:		+/-0.0415							
	TPU:		+/-0.0407							
Bismuth-214		U	0.00309	pCi/g						
	Uncert:		+/-0.00997							
	TPU:		+/-0.00977							
Cesium-134		U	0.00729	pCi/g						
	Uncert:		+/-0.00646							
	TPU:		+/-0.00633							
Cesium-137		U	-0.00233	pCi/g						
	Uncert:		+/-0.0046							
	TPU:		+/-0.00451							
Cobalt-60		U	0.00137	pCi/g						
	Uncert:		+/-0.00525							
	TPU:		+/-0.00514							
Europium-152		U	0.00227	pCi/g						
	Uncert:		+/-0.0145							
	TPU:		+/-0.0142							
Europium-154		U	0.00321	pCi/g						
	Uncert:		+/-0.0135							

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 157388

Page 11 of 21

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec										
Batch	512598									
Europium-155	TPU:		+/-0.0133							
		U	0.0044	pCi/g						
	Uncert:		+/-0.0137							
Lead-212	TPU:		+/-0.0134							
		U	0.00119	pCi/g						
	Uncert:		+/-0.0113							
Lead-214	TPU:		+/-0.011							
		U	-0.00418	pCi/g						
	Uncert:		+/-0.0126							
Manganese-54	TPU:		+/-0.0124							
		U	-0.00244	pCi/g						
	Uncert:		+/-0.00501							
Niobium-94	TPU:		+/-0.00491							
		U	0.00199	pCi/g						
	Uncert:		+/-0.00413							
Potassium-40	TPU:		+/-0.00405							
		U	0.00498	pCi/g						
	Uncert:		+/-0.060							
Radium-226	TPU:		+/-0.0588							
		U	0.00309	pCi/g						
	Uncert:		+/-0.00997							
Silver-108m	TPU:		+/-0.00977							
		U	0.00531	pCi/g						
	Uncert:		+/-0.00419							
Thallium-208	TPU:		+/-0.00411							
		U	0.00432	pCi/g						
	Uncert:		+/-0.00522							
Batch	512599									
QC1201053130 157388021 DUP										
Actinium-228		0.448	0.495	pCi/g	10		(0% - 100%)	MJH1	03/20/06	10:07
	Uncert:	+/-0.157	+/-0.164							
Americium-241	TPU:	+/-0.154	+/-0.161							
		U	0.0283	U	2030		(0% - 100%)			
	Uncert:	+/-0.119	+/-0.0706							
Bismuth-212	TPU:	+/-0.116	+/-0.0692							
		0.383	0.146	pCi/g	90		(0% - 100%)			
	Uncert:	+/-0.247	+/-0.180							
Bismuth-214	TPU:	+/-0.243	+/-0.177							
		0.373	0.353	pCi/g	5		(0% - 100%)			
	Uncert:	+/-0.0912	+/-0.0777							
Cesium-134	TPU:	+/-0.0894	+/-0.0762							
		U	0.0219	UUI	63		(0% - 100%)			
	Uncert:	+/-0.0209	+/-0.0241							
Cesium-137	TPU:	+/-0.0204	+/-0.0236							
		U	-0.00896	U	470		(0% - 100%)			
	Uncert:	+/-0.0193	+/-0.0262							
	TPU:	+/-0.019	+/-0.0257							

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 157388

Page 12 of 21

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec											
Batch	512599										
Cobalt-60	U	0.00705	U	0.00047	pCi/g	175		(0% - 100%)			
		Uncert: +/-0.0212		+/-0.0207							
		TPU: +/-0.0208		+/-0.0203							
Europium-152	U	-0.0972	U	-0.00281	pCi/g	189		(0% - 100%)			
		Uncert: +/-0.0592		+/-0.0516							
		TPU: +/-0.058		+/-0.0505							
Europium-154	U	0.0496	U	0.0148	pCi/g	108		(0% - 100%)			
		Uncert: +/-0.0681		+/-0.058							
		TPU: +/-0.0668		+/-0.0569							
Europium-155	U	0.00603	U	0.00606	pCi/g	0		(0% - 100%)			
		Uncert: +/-0.0514		+/-0.0499							
		TPU: +/-0.0504		+/-0.0489							
Lead-212		0.466		0.380	pCi/g	21		(0% - 100%)			
		Uncert: +/-0.0696		+/-0.0744							
		TPU: +/-0.0682		+/-0.0729							
Lead-214		0.436		0.432	pCi/g	1		(0% - 100%)			
		Uncert: +/-0.101		+/-0.0891							
		TPU: +/-0.0992		+/-0.0873							
Manganese-54	U	0.0058	U	0.00873	pCi/g	40		(0% - 100%)			
		Uncert: +/-0.0215		+/-0.0202							
		TPU: +/-0.0211		+/-0.0198							
Niobium-94	U	-0.000393	U	-0.000931	pCi/g	81		(0% - 100%)			
		Uncert: +/-0.0181		+/-0.0174							
		TPU: +/-0.0178		+/-0.017							
Potassium-40		7.89		7.23	pCi/g	9		(0% - 20%)			
		Uncert: +/-0.995		+/-0.903							
		TPU: +/-0.975		+/-0.885							
Radium-226		0.373		0.353	pCi/g	5		(0% - 100%)			
		Uncert: +/-0.0912		+/-0.0777							
		TPU: +/-0.0894		+/-0.0762							
Silver-108m	U	0.00593	U	0.0197	pCi/g	107		(0% - 100%)			
		Uncert: +/-0.0159		+/-0.0146							
		TPU: +/-0.0156		+/-0.0143							
Thallium-208	UUI	0.00		0.158	pCi/g	3*		(0% - 100%)			
		Uncert: +/-0.0433		+/-0.0447							
		TPU: +/-0.0425		+/-0.0438							
QC1201053131 LCS											
Actinium-228			U	0.0107	pCi/g					03/20/06	06:21
		Uncert: +/-0.796		+/-0.780							
		TPU: +/-0.780		+/-1.17							
Americium-241	24.4			24.1	pCi/g		99	(75%-125%)			
		Uncert: +/-1.15		+/-1.39							
		TPU: +/-1.15		+/-1.36							
Bismuth-212			U	-0.377	pCi/g						
		Uncert: +/-1.39		+/-1.36							
		TPU: +/-1.36		+/-0.308							
Bismuth-214			U	0.0143	pCi/g						
		Uncert: +/-0.308									

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 157388

Page 13 of 21

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gamma Spec									
Batch	512599								
Cesium-134	TPU:		+/-0.302						
		U	0.0895	pCi/g					
	Uncert:		+/-0.196						
Cesium-137	TPU:		+/-0.192						
	9.29		9.99	pCi/g		108	(75%-125%)		
	Uncert:		+/-0.635						
Cobalt-60	TPU:		+/-0.622						
	13.4		13.5	pCi/g		101	(75%-125%)		
	Uncert:		+/-0.784						
Europium-152	TPU:		+/-0.768						
		U	0.0115	pCi/g					
	Uncert:		+/-0.396						
Europium-154	TPU:		+/-0.388						
		U	-0.143	pCi/g					
	Uncert:		+/-0.366						
Europium-155	TPU:		+/-0.359						
		U	-0.129	pCi/g					
	Uncert:		+/-0.383						
Lead-212	TPU:		+/-0.375						
		U	-0.134	pCi/g					
	Uncert:		+/-0.204						
Lead-214	TPU:		+/-0.200						
		U	0.0587	pCi/g					
	Uncert:		+/-0.283						
Manganese-54	TPU:		+/-0.278						
		U	0.0865	pCi/g					
	Uncert:		+/-0.185						
Niobium-94	TPU:		+/-0.181						
		U	-0.0179	pCi/g					
	Uncert:		+/-0.161						
Potassium-40	TPU:		+/-0.157						
		U	0.825	pCi/g					
	Uncert:		+/-1.27						
Radium-226	TPU:		+/-1.25						
		U	0.0143	pCi/g			(75%-125%)		
	Uncert:		+/-0.308						
Silver-108m	TPU:		+/-0.302						
		U	-0.0718	pCi/g					
	Uncert:		+/-0.148						
Thallium-208	TPU:		+/-0.145						
		U	0.107	pCi/g					
	Uncert:		+/-0.183						
QC1201053129 MB	TPU:		+/-0.180						
Actinium-228		U	0.0235	pCi/g					03/20/06 10:06
	Uncert:		+/-0.0406						
Americium-241	TPU:		+/-0.0398						
		U	0.00278	pCi/g					

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 157388

Page 14 of 21

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec										
Batch	512599									
			Uncert:							
			TPU:							
Bismuth-212		U	0.0202	pCi/g						
			Uncert:							
			TPU:							
Bismuth-214		U	0.00268	pCi/g						
			Uncert:							
			TPU:							
Cesium-134		U	-0.00809	pCi/g						
			Uncert:							
			TPU:							
Cesium-137		U	0.00248	pCi/g						
			Uncert:							
			TPU:							
Cobalt-60		U	-0.00728	pCi/g						
			Uncert:							
			TPU:							
Europium-152		U	0.0107	pCi/g						
			Uncert:							
			TPU:							
Europium-154		U	0.0211	pCi/g						
			Uncert:							
			TPU:							
Europium-155		U	0.00899	pCi/g						
			Uncert:							
			TPU:							
Lead-212		U	0.00448	pCi/g						
			Uncert:							
			TPU:							
Lead-214		U	-0.00516	pCi/g						
			Uncert:							
			TPU:							
Manganese-54		U	-0.00376	pCi/g						
			Uncert:							
			TPU:							
Niobium-94		U	-0.00105	pCi/g						
			Uncert:							
			TPU:							
Potassium-40		U	0.0681	pCi/g						
			Uncert:							
			TPU:							
Radium-226		U	0.00268	pCi/g						
			Uncert:							
			TPU:							
Silver-108m		U	0.0036	pCi/g						
			Uncert:							
			TPU:							
Thallium-208		U	0.00529	pCi/g						

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 157388

Page 15 of 21

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec											
Batch	512599										
		Uncert:		+/-0.0111							
		TPU:		+/-0.0108							
Rad Gas Flow											
Batch	510280										
QC1201047864	157388015	DUP									
Strontium-90			U	0.0121	U	0.0133	pCi/g	0	(0% - 100%)	BXF1	03/10/06 18:49
		Uncert:		+/-0.018		+/-0.0162					
		TPU:		+/-0.018		+/-0.0162					
QC1201047866	LCS										
Strontium-90				1.59		1.51	pCi/g	95	(75%-125%)		03/10/06 18:49
		Uncert:				+/-0.0956					
		TPU:				+/-0.100					
QC1201047863	MB										
Strontium-90					U	0.0155	pCi/g				03/10/06 18:49
		Uncert:				+/-0.0181					
		TPU:				+/-0.0181					
QC1201047865	157388015	MS									
Strontium-90				3.08	U	0.0121	pCi/g	94	(75%-125%)		03/10/06 18:49
		Uncert:				+/-0.018					
		TPU:				+/-0.018					
Batch	510281										
QC1201047868	157388013	DUP									
Strontium-90			U	0.0127	U	0.0238	pCi/g	0	(0% - 100%)	BXF1	03/14/06 20:03
		Uncert:		+/-0.0309		+/-0.0265					
		TPU:		+/-0.0309		+/-0.0265					
QC1201047870	LCS										
Strontium-90				1.50		1.33	pCi/g	89	(75%-125%)		03/14/06 20:03
		Uncert:				+/-0.0886					
		TPU:				+/-0.0937					
QC1201047867	MB										
Strontium-90					U	0.00165	pCi/g				03/14/06 20:03
		Uncert:				+/-0.0141					
		TPU:				+/-0.0141					
QC1201047869	157388013	MS									
Strontium-90				1.59	U	0.0127	pCi/g	78	(75%-125%)		03/16/06 22:15
		Uncert:				+/-0.0309					
		TPU:				+/-0.0309					
Batch	510283										
QC1201047872	157388021	DUP									
Strontium-90			U	0.0208	U	-0.00164	pCi/g	0	(0% - 100%)	BXF1	03/14/06 18:33
		Uncert:		+/-0.0311		+/-0.0245					
		TPU:		+/-0.0311		+/-0.0245					
QC1201047874	LCS										
Strontium-90				1.57		1.83	pCi/g	116	(75%-125%)		03/14/06 18:33
		Uncert:				+/-0.113					
		TPU:				+/-0.122					
QC1201047871	MB										
Strontium-90					U	0.00201	pCi/g				03/14/06 18:33

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 157388

Page 16 of 21

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow									
Batch	510283								
			Uncert:						+/-0.0159
			TPU:						+/-0.0159
QC1201047873	157388021	MS							
Strontium-90	3.17	U	0.0208	2.97	pCi/g	94	(75%-125%)		03/14/06 18:33
			Uncert:	+/-0.0311					+/-0.252
			TPU:	+/-0.0311					+/-0.261
Rad Liquid Scintillation									
Batch	510184								
QC1201047569	157388004	DUP							
Iron-55		U	0.462	0.830	pCi/g	0	(0% - 100%)	SLN1	03/22/06 23:20
			Uncert:	+/-1.00					+/-1.03
			TPU:	+/-1.00					+/-1.03
QC1201047571	LCS								
Iron-55	55.1			56.2	pCi/g	102	(75%-125%)		03/23/06 02:26
			Uncert:						+/-2.70
			TPU:						+/-3.76
QC1201047568	MB								
Iron-55				2.12	pCi/g				03/23/06 14:28
			Uncert:	+/-2.08					
			TPU:	+/-2.08					
QC1201047570	157388004	MS							
Iron-55	57.8	U	0.462	58.9	pCi/g	102	(75%-125%)		03/23/06 00:53
			Uncert:	+/-1.00					+/-1.77
			TPU:	+/-1.00					+/-3.23
Batch	510185								
QC1201047573	157388004	DUP							
Nickel-63		U	0.105	-0.0123	pCi/g	0	(0% - 100%)	SLN1	03/21/06 02:57
			Uncert:	+/-0.634					+/-0.668
			TPU:	+/-0.634					+/-0.668
QC1201047575	LCS								
Nickel-63	49.6			49.7	pCi/g	100	(75%-125%)		03/21/06 04:01
			Uncert:	+/-1.80					
			TPU:	+/-2.13					
QC1201047572	MB								
Nickel-63				0.799	pCi/g				03/21/06 02:25
			Uncert:	+/-0.823					
			TPU:	+/-0.824					
QC1201047574	157388004	MS							
Nickel-63	47.5	U	0.105	43.8	pCi/g	92	(75%-125%)		03/21/06 03:29
			Uncert:	+/-0.634					+/-1.65
			TPU:	+/-0.634					+/-1.93
Batch	510186								
QC1201047577	157388005	DUP							
Iron-55			5.04	3.60	pCi/g	33	(0% - 100%)	SLN1	03/27/06 02:35
			Uncert:	+/-2.14					+/-1.67
			TPU:	+/-2.15					+/-1.67
QC1201047579	LCS								
Iron-55	59.3			54.3	pCi/g	92	(75%-125%)		03/24/06 05:33

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 157388

Page 17 of 21

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Liquid Scintillation									
Batch	510186								
			Uncert:						
			TPU:						
QC1201047576	MB								
Iron-55		U	1.41	pCi/g					03/26/06 23:28
			Uncert:						
			TPU:						
QC1201047578	157388005	MS							
Iron-55	59.7	5.04	57.2	pCi/g		87	(75%-125%)		03/24/06 04:00
			Uncert:						
			TPU:						
Batch	510187								
QC1201047581	157388008	DUP							
Nickel-63		U	-3.16	U	-1.08	pCi/g	0	(0% - 100%)	SLN1 03/22/06 14:31
			Uncert:						
			TPU:						
QC1201047583	LCS								
Nickel-63	186		169	pCi/g		91	(75%-125%)		03/22/06 16:33
			Uncert:						
			TPU:						
QC1201047580	MB								
Nickel-63		U	-1.9	pCi/g					03/22/06 13:30
			Uncert:						
			TPU:						
QC1201047582	157388008	MS							
Nickel-63	182	U	-3.16		158	pCi/g	87	(75%-125%)	03/22/06 15:32
			Uncert:						
			TPU:						
Batch	510189								
QC1201047589	157388024	DUP							
Technetium-99		U	0.0652	U	-0.121	pCi/g	0	(0% - 100%)	SLN1 03/21/06 01:59
			Uncert:						
			TPU:						
QC1201047591	LCS								
Technetium-99	23.6		20.8	pCi/g		88	(75%-125%)		03/21/06 02:31
			Uncert:						
			TPU:						
QC1201047588	MB								
Technetium-99		U	-0.113	pCi/g					03/21/06 01:43
			Uncert:						
			TPU:						
QC1201047590	157388024	MS							
Technetium-99	22.9	U	0.0652		20.8	pCi/g	91	(75%-125%)	03/21/06 02:15
			Uncert:						
			TPU:						
Batch	510190								
QC1201047593	157388016	DUP							
Tritium		U	0.734	U	0.763	pCi/g	0	(0% - 100%)	MXPI 03/20/06 09:20
			Uncert:						
			TPU:						

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 157388

Page 18 of 21

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Liquid Scintillation											
Batch	510190										
QC1201047595	LCS										
Tritium	11.5			11.8	pCi/g		103	(75%-125%)		03/20/06	10:46
	Uncert:			+/-1.08							
	TPU:			+/-1.10							
QC1201047592	MB										
Tritium			U	0.633	pCi/g					03/20/06	08:17
	Uncert:			+/-0.747							
	TPU:			+/-0.747							
QC1201047594	157388016	MS									
Tritium	11.7	U	0.734	11.2	pCi/g		95	(75%-125%)		03/20/06	10:22
	Uncert:		+/-0.788	+/-1.66							
	TPU:		+/-0.788	+/-1.68							
Batch	510191										
QC1201047602	157388011	DUP									
Tritium		U	0.852	U	0.147	pCi/g	0	(0% - 100%)	CHS1	03/23/06	14:41
	Uncert:		+/-1.53	+/-1.47							
	TPU:		+/-1.53	+/-1.47							
QC1201047604	LCS										
Tritium	11.6			10.7	pCi/g		92	(75%-125%)		03/19/06	17:30
	Uncert:			+/-1.35							
	TPU:			+/-1.36							
QC1201047601	MB										
Tritium			U	-0.351	pCi/g					03/19/06	15:55
	Uncert:			+/-0.919							
	TPU:			+/-0.919							
QC1201047603	157388011	MS									
Tritium	11.4	U	0.852	12.2	pCi/g		107	(75%-125%)		03/19/06	16:58
	Uncert:		+/-1.53	+/-2.34							
	TPU:		+/-1.53	+/-2.35							
Batch	510197										
QC1201047615	157388017	DUP									
Carbon-14		U	-0.0964	U	-0.286	pCi/g	0	(0% - 100%)	MXPI	03/19/06	05:30
	Uncert:		+/-0.161	+/-0.161							
	TPU:		+/-0.161	+/-0.161							
QC1201047617	LCS										
Carbon-14	21.7			19.9	pCi/g		92	(75%-125%)		03/19/06	07:50
	Uncert:			+/-1.51							
	TPU:			+/-1.54							
QC1201047614	MB										
Carbon-14			U	-0.118	pCi/g					03/19/06	03:28
	Uncert:			+/-0.177							
	TPU:			+/-0.177							
QC1201047616	157388017	MS									
Carbon-14	19.1	U	-0.0964	19.4	pCi/g		102	(75%-125%)		03/19/06	07:32
	Uncert:		+/-0.161	+/-1.40							
	TPU:		+/-0.161	+/-1.44							
Batch	510285										
QC1201047877	157388025	DUP									
Carbon-14		U	-0.312	U	-0.106	pCi/g	0	(0% - 100%)	MXPI	03/15/06	10:57

GENERAL ENGINEERING LABORATORIES, LLC
 2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 157388

Page 19 of 21

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Liquid Scintillation											
Batch	510285										
		Uncert:	+/-0.333	+/-0.307							
		TPU:	+/-0.333	+/-0.307							
QC1201047879	LCS										
Carbon-14		21.7		21.4	pCi/g		99	(75%-125%)		03/15/06	11:53
		Uncert:		+/-1.61							
		TPU:		+/-1.65							
QC1201047876	MB										
Carbon-14			U	-0.198	pCi/g					03/15/06	08:25
		Uncert:		+/-0.386							
		TPU:		+/-0.386							
QC1201047878	157388025	MS									
Carbon-14		18.6	U	-0.312	pCi/g		98	(75%-125%)		03/15/06	11:29
		Uncert:		+/-0.333							
		TPU:		+/-0.333							
Batch	510286										
QC1201047881	157388027	DUP									
Iron-55			U	0.529	pCi/g	0		(0% - 100%)	SLN1	03/22/06	14:26
		Uncert:		+/-1.55							
		TPU:		+/-1.55							
QC1201047883	LCS										
Iron-55		50.4		45.6	pCi/g		90	(75%-125%)		03/22/06	16:44
		Uncert:		+/-5.35							
		TPU:		+/-5.94							
QC1201047880	MB										
Iron-55			U	1.59	pCi/g					03/22/06	12:23
		Uncert:		+/-1.41							
		TPU:		+/-1.41							
QC1201047882	157388027	MS									
Iron-55		51.4	U	0.529	pCi/g		90	(75%-125%)		03/22/06	16:28
		Uncert:		+/-1.55							
		TPU:		+/-1.55							
Batch	510288										
QC1201047890	157388024	DUP									
Nickel-63			U	-1.18	pCi/g	0		(0% - 100%)	SLN1	03/21/06	03:52
		Uncert:		+/-1.85							
		TPU:		+/-1.85							
QC1201047892	LCS										
Nickel-63		154		141	pCi/g		92	(75%-125%)		03/21/06	05:53
		Uncert:		+/-7.50							
		TPU:		+/-8.22							
QC1201047889	MB										
Nickel-63			U	-0.324	pCi/g					03/21/06	02:50
		Uncert:		+/-1.33							
		TPU:		+/-1.33							
QC1201047891	157388024	MS									
Nickel-63		173	U	-1.18	pCi/g		93	(75%-125%)		03/21/06	05:37
		Uncert:		+/-1.85							
		TPU:		+/-1.85							
Batch	510291										

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 157388

Page 20 of 21

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Liquid Scintillation										
Batch	510291									
QC1201047894	157388019	DUP								
Tritium		U	-0.895	U	0.798	pCi/g	0	(0% - 100%)	CHS1	03/21/06 19:06
			Uncert: +/-1.59		+/-1.70					
			TPU: +/-1.59		+/-1.70					
QC1201047896	LCS									
Tritium	11.6				10.4	pCi/g	89	(75%-125%)		03/20/06 21:31
			Uncert: +/-2.56		+/-2.56					
			TPU: +/-2.56		+/-2.56					
QC1201047893	MB									
Tritium				U	0.110	pCi/g				03/20/06 20:53
			Uncert: +/-1.45		+/-1.45					
			TPU: +/-1.45		+/-1.45					
QC1201047895	157388019	MS								
Tritium	11.1	U	-0.895		12.7	pCi/g	114	(75%-125%)		03/20/06 21:18
			Uncert: +/-1.59		+/-3.59					
			TPU: +/-1.59		+/-3.59					
Batch	514613									
QC1201057348	157388001	DUP								
Technetium-99			0.502		0.892	pCi/g	56	(0% - 100%)	SLN1	04/02/06 07:22
			Uncert: +/-0.237		+/-0.335					
			TPU: +/-0.237		+/-0.336					
QC1201057350	LCS									
Technetium-99	21.7				19.6	pCi/g	90	(75%-125%)		04/02/06 08:26
			Uncert: +/-0.485		+/-0.662					
			TPU: +/-0.662		+/-0.662					
QC1201057347	MB									
Technetium-99				U	0.721	pCi/g				04/03/06 14:47
			Uncert: +/-0.593		+/-0.593					
			TPU: +/-0.593		+/-0.593					
QC1201057349	157388001	MS								
Technetium-99	23.3		0.502		16.3	pCi/g	68*	(75%-125%)		04/02/06 07:54
			Uncert: +/-0.237		+/-0.457					
			TPU: +/-0.237		+/-0.591					

Notes:

The Qualifiers in this report are defined as follows:

- B Target analyte was detected in the sample as well as the associated blank.
- BD Results below the MDC or low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value.
- U Target analyte was analyzed for but not detected above the MDL or LOD.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- d The 2:1 depletion requirement was not met for this sample
- h Sample preparation or preservation holding time exceeded.

QC Summary

Workorder: 157388

Page 21 of 21

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
-----------------	------------	--------------------	-----------	--------------	-------------	-------------	--------------	--------------	-------------	-------------

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

** Indicates analyte is a surrogate compound.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.