GEL Laboratories LLC
a member of The GEL Group INC

PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

October 12, 2022

Chris Decker
Laboratory for EPA
100 OB Curtis Drive
Ridgeland, Mississippi 39157

Re: Jackson Emergency Response
Work Order: 594760

Dear Chris Decker:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 28, 2022. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

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. 4422.

Sincerely,

Jake Crook
Project Manager

Purchase Order: Pending
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 − (843) 556−8171 − www.gel.com

Certificate of Analysis Report
for

EPAJ001 EPA

Client SDG: 594760 GEL Work Order: 594760

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

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.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Jake Crook.

Reviewed by Jacob W Crook

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

Certificate of Analysis

Company : Laboratory for EPA
Address : 100 OB Curtis Drive
Ridgeland, Mississippi 39157
Report Date: October 12, 2022
Contact: Chris Decker
Project: Jackson Emergency Response

Client Sample ID: TF081
Sample ID: 594760001
Matrix: Drinking Water (Potable)
Collect Date: 27-SEP-22
Receive Date: 28-SEP-22
Collector: Client

Project: EPAJ00122
Client ID: EPAJ001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Gross Alpha, Liquid "As Received"														
Alpha	U	-0.145	+/-1.00	2.65	+/-1.00	5.00	pCi/L			KP1	10/04/22	1333	2323085	1
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.839	+/-1.10	1.88	+/-1.12	3.00	pCi/L			JE1	10/10/22	0921	2323087	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.427	+/-0.314	0.429	+/-0.326	1.00	pCi/L			LXP1	10/10/22	1101	2323088	3

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310
2	EPA 904.0/SW846 9320 Modified
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2323087	73.9	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Laboratory for EPA
Address : 100 OB Curtis Drive
Ridgeland, Mississippi 39157
Report Date: October 12, 2022
Contact: Chris Decker
Project: Jackson Emergency Response

Client Sample ID: TF082
Sample ID: 594760002
Matrix: Drinking Water (Potable)
Collect Date: 27-SEP-22
Receive Date: 28-SEP-22
Collector: Client

Project: EPAJ00122
Client ID: EPAJ001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Gross Alpha, Liquid "As Received"														
Alpha	U	1.07	+/-1.37	2.31	+/-1.38	5.00	pCi/L			KP1	10/04/22	1333	2323085	1
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.22	+/-1.01	1.62	+/-1.05	3.00	pCi/L			JE1	10/10/22	0921	2323087	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.140	+/-0.303	0.574	+/-0.304	1.00	pCi/L			LXP1	10/10/22	1132	2323088	3

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310
2	EPA 904.0/SW846 9320 Modified
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2323087	90.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Laboratory for EPA
Address : 100 OB Curtis Drive
Ridgeland, Mississippi 39157
Report Date: October 12, 2022
Contact: Chris Decker
Project: Jackson Emergency Response

Client Sample ID: TF083
Sample ID: 594760003
Matrix: Drinking Water (Potable)
Collect Date: 27-SEP-22
Receive Date: 28-SEP-22
Collector: Client

Project: EPAJ00122
Client ID: EPAJ001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Gross Alpha, Liquid "As Received"														
Alpha	U	-0.335	+/-0.760	2.17	+/-0.761	5.00	pCi/L			KP1	10/04/22	1333	2323085	1
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.17	+/-1.42	2.40	+/-1.45	3.00	pCi/L			JE1	10/10/22	0921	2323087	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.0780	+/-0.306	0.597	+/-0.306	1.00	pCi/L			LXP1	10/10/22	1132	2323088	3

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310
2	EPA 904.0/SW846 9320 Modified
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2323087	82.6	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

QC Summary

Client : **Laboratory for EPA**
100 OB Curtis Drive
Ridgeland, Mississippi
Contact: **Chris Decker**
Workorder: **594760**

Report Date: October 12, 2022

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2323085										
QC1205204334 594760001 DUP										
Alpha	U	-0.145	U	0.435	pCi/L	0		N/A	KP1	10/04/22 13:28
	Uncert:	+/-1.00		+/-1.34						
	TPU:	+/-1.00		+/-1.34						
QC1205204336 LCS										
Alpha	114			115	pCi/L		101	(75%-125%)	KP1	10/04/22 13:28
	Uncert:			+/-12.3						
	TPU:			+/-22.7						
QC1205204333 MB										
Alpha			U	-0.300	pCi/L				KP1	10/04/22 13:28
	Uncert:			+/-0.962						
	TPU:			+/-0.962						
QC1205204335 594760001 MS										
Alpha	115 U	-0.145		97.7	pCi/L		84.7	(75%-125%)	KP1	10/04/22 13:28
	Uncert:	+/-1.00		+/-11.4						
	TPU:	+/-1.00		+/-19.7						
Batch 2323087										
QC1205204342 594760001 DUP										
Radium-228	U	0.839	U	1.25	pCi/L	0		N/A	JE1	10/10/22 09:20
	Uncert:	+/-1.10		+/-1.03						
	TPU:	+/-1.12		+/-1.07						
QC1205204343 LCS										
Radium-228	44.2			41.9	pCi/L		94.7	(75%-125%)	JE1	10/10/22 09:21
	Uncert:			+/-3.54						
	TPU:			+/-11.1						
QC1205204341 MB										
Radium-228			U	-0.354	pCi/L				JE1	10/10/22 09:20
	Uncert:			+/-0.789						
	TPU:			+/-0.789						
Rad Ra-226										
Batch 2323088										
QC1205204345 594760001 DUP										
Radium-226	U	0.427	U	0.347	pCi/L	0		N/A	LXP1	10/10/22 11:32
	Uncert:	+/-0.314		+/-0.312						
	TPU:	+/-0.326		+/-0.319						
QC1205204347 LCS										
Radium-226	26.7			23.2	pCi/L		86.8	(75%-125%)	LXP1	10/10/22 11:32
	Uncert:			+/-1.96						
	TPU:			+/-4.71						
QC1205204344 MB										
Radium-226			U	0.102	pCi/L				LXP1	10/10/22 11:32

QC Summary

Workorder: **594760**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Ra-226										
Batch 2323088										
	Uncert:			+/-0.282						
	TPU:			+/-0.283						
QC1205204346 594760001 MS										
Radium-226	133	0.427	U	110	pCi/L		82.8	(75%-125%)	LXP1	10/10/2211:32
	Uncert:	+/-0.314		+/-9.39						
	TPU:	+/-0.326		+/-19.9						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

**	Analyte is a Tracer compound
<	Result is less than value reported
>	Result is greater than value reported
BD	Results are either below the MDC or tracer recovery is low
FA	Failed analysis.
H	Analytical holding time was exceeded
J	See case narrative for an explanation
J	Value is estimated
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
M	M if above MDC and less than LLD
M	REMP Result > MDC/CL and < RDL
N/A	RPD or %Recovery limits do not apply.
N1	See case narrative
ND	Analyte concentration is not detected above the detection limit
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
R	Sample results are rejected
U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
UI	Gamma Spectroscopy--Uncertain identification
UJ	Gamma Spectroscopy--Uncertain identification
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h	Preparation or preservation holding time was exceeded

QC Summary

Workorder: **594760**

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 or %RPD not applicable.
** Indicates analyte is a surrogate/tracer compound.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence 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.

Page: 1 of 1

Project: EPAJ00122

GEL Quote #: GELP22-1156

COC Number [1]: 09272201

PO Number:

S94760

S94761

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Jake Crook

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Chris Decker / USEPA

Phone # (706) 338-3124

Project Site Name: 2022 Central Mississippi Floods

Fax #

Address: 100 OB Curtis Drive, Ridgeland, MS 39157

Collected By: Paula Whiting

Send Results To: Chris Decker / USEPA

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI: Gross A, Ra226, Ra228	2,3,7,8-TCDD (sub to	<-- Preservative Type (6)
TF081	9/27/2022	1345	N	N	DW			3	1	2	
TF082	9/27/2022	1535	N	N	DW			3	1	2	
TF083	9/27/2022	1500	N	N	DW			3	1	2	

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
	9/27/22	16:30	1	9/28/22	0910
			2		
			3		

TAT Requested: Normal: ____ Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks:

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** ____ °C

For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

Sample Collection Time Zone : [ ] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1) Chain of Custody Number = Client Determined

2) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Page 9 of 33

SDG: 594760

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: EDAJ	**SDG/AR/COC/Work Order:** 594760, 594761
Received By: AJ	**Date Received:** 9/28/22
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other 2784 8487 2270

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): ___ **CPM / mR/Hr** **Classified as: Rad 1 Rad 2 Rad 3**
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	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	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius **TEMP:** 3
4	Daily check performed and passed on IR temperature gun?	✓			**Temperature Device Serial #:** IR3-22 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials AC Date 9/29/22 Page ___ of ___

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 12 October 2022

State	Certification
Alabama	42200
Alaska	17−018
Alaska Drinking Water	SC00012
Arkansas	88−0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH−0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330−15−00283, P330−15−00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C−SC−01
Kansas NELAP	E−10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M−SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE−OS−26−13
Nevada	SC000122023−3
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R−158
Oklahoma	2022−137
Pennsylvania NELAP	68−00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235−22−20
Utah NELAP	SC000122021−36
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

Radiochemistry
Technical Case Narrative
EPA
SDG #: 594760

Product: **GFPC Gross Alpha, Liquid**
Analytical Method: EPA 900.0/SW846 9310
Analytical Procedure: GL-RAD-A-001 REV# 20
Analytical Batch: 2323085

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
594760001	TF081
594760002	TF082
594760003	TF083
1205204333	Method Blank (MB)
1205204334	594760001(TF081) Sample Duplicate (DUP)
1205204335	594760001(TF081) Matrix Spike (MS)
1205204336	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Gross Alpha/Beta Preparation Information
High hygroscopic salt content in evaporated samples can cause the sample mass to fluctuate due to moisture absorption. To minimize this interference, the salts are converted to oxides by heating the sample under a flame until a dull red color is obtained. The conversion to oxides stabilizes the sample weight and ensures that proper alpha/beta efficiencies are assigned for each sample. Volatile radioisotopes of carbon, hydrogen, technetium, polonium and cesium may be lost during sample heating.

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2323087

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
594760001	TF081
594760002	TF082
594760003	TF083

1205204341	Method Blank (MB)
1205204342	594760001(TF081) Sample Duplicate (DUP)
1205204343	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2323088

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
594760001	TF081
594760002	TF082
594760003	TF083
1205204344	Method Blank (MB)
1205204345	594760001(TF081) Sample Duplicate (DUP)
1205204346	594760001(TF081) Matrix Spike (MS)
1205204347	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
The matrix spike, 1205204346 (TF081MS), aliquot was reduced to conserve sample volume.

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.