



January 20, 2009

Mr. James Hix
Cordilleran Compliance Services
4690 Table Mountain Drive
Suite 200
Golden, Colorado 80403

Re: Cordilleran Compliance Services, Inc
Work Order: 221664

Dear Mr. Hix:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on December 19, 2008. This original 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. 4297.

Sincerely,

Cheryl Jones for Amanda Rasco
Project Manager

Purchase Order: Signed Quote
Enclosures

Page: 1 of 2
 Project #: 008-2362-Rolison
 GEL Quote #: _____
 COC Number ⁽¹⁾: _____
 PO Number: _____

GEL Chain of Custody and Analytical Request

GEL Work Order Number: 221664

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

Client Name: Carrollieran, a division of Olsson Associates Phone #: 303.237.2659
 Project/Site Name: Rolison Area Well Monitoring Fax #: 303.237.2072
 Address: 4690 Table Mountain Dr. # 200, Golden, CO 80403

Address: 4690 Table Mountain Dr. # 200, Golden, CO 80403												
Collected by: J. Hix		Send Results To: James Hix										
Sample ID	*Date Collected (mm-dd-yy)	*Time Collected/ (Military) (hhmm)	QC Code (a)	Field Filtered (b)	Sample Matrix (c)	Sample be considered:						Comments
* For composites - Indicate start and stop date/time						Radioactive	TSCA Regulated	Total number of containers	Preservative Type (6)	Preservative Type (7)		
7-22B	12/17/08	0838	N	N	W			2	X	X	CAB, GMA, S, 90, T299, Total U	Note: extra sample is required for sample specific QC
7-22D		0907						1	X	X		
10-22B		1001						1	X	X		
6-22B		1018						1	X	X		
6-22D		1108						1	X	X		
16-22D		1213						1	X	X		
9-22D		1239						1	X	X		
16-22B		1254						1	X	X		
9-22B		1310						1	X	X		
10-22D		1343						1	X	X		

TAT Requested: Normal: ☒ Rush: _____ Specify: _____ (Subject to Surcharge) Fax Results: Yes / No
 Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Chain of Custody Signatures			Sample Shipping and Delivery Details		
Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
<u>[Signature]</u>	<u>12/19/08</u>	<u>1600</u>	<u>A. King</u>	<u>17/19/08</u>	<u>10:15</u>

GEL PM: _____
 Method of Shipment: _____ Date Shipped: _____
 Airbill #: _____
 Airbill #: _____

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, 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

For Lab Receiving Use Only
 Custody Seal Intact? YES / NO
 Cooler Temp: 4.5 C

WHITE = LABORATORY
 YELLOW = FILE
 PINK = CLIENT

SAMPLE RECEIPT & REVIEW FORM

Client: <u>CORD</u>		SDG/ARCOC/Work Order: <u>221664</u>	
Received By: <u>S. King</u>		Date Received: <u>12/19/08</u>	
Suspected Hazard Information	Yes	No	*If Counts > x2 area background on samples not marked "radioactive", contact the Radiation Safety Group of further investigation.
COC/Samples marked as radioactive?		<input checked="" type="checkbox"/>	Maximum Counts Observed*: <u>40 CPM</u>
Classified Radioactive II or III by RSO?		<input checked="" type="checkbox"/>	
COC/Samples marked containing PCBs?		<input checked="" type="checkbox"/>	
Shipped as a DOT Hazardous?		<input checked="" type="checkbox"/>	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		<input checked="" type="checkbox"/>	

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: damaged container leaking container other (describe) seals broken
2 Samples requiring cold preservation within 0 ≤ 6 deg. C?	<input checked="" type="checkbox"/>			Preservation Method: blue ice dry ice none other (describe) <u>ice bags</u> <u>4°, 5°</u>
3 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>			
4 Sample containers intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: damaged container leaking container other (describe) seals broken
5 Samples requiring chemical preservation at proper pH?			<input checked="" type="checkbox"/>	Sample ID's, containers affected and observed pH: Samples 7-22 D, 10-22 B, 6-22 D had pH=5. Samples 6-22 B, 9-22 B had pH=3. If Preservation added, Lot#: Samples 16-22 D, 9-22 D, and 10-22 D, 15-22 D had pH=4.
6 VOA vials free of headspace (defined as < 6mm bubble)?		<input checked="" type="checkbox"/>		Sample ID's and containers affected:
7 Are Encore containers present?			<input checked="" type="checkbox"/>	(If yes, immediately deliver to Volatiles laboratory)
8 Samples received within holding time?	<input checked="" type="checkbox"/>			ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>			Sample ID's and containers affected:
10 Date & time on COC match date & time on bottles?			<input checked="" type="checkbox"/>	Sample ID's affected: Date on Sample 1622 D does not match date on COC.
11 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>			Sample ID's affected:
12 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>			

Comments: Fed Ex: 96600451 2516 - 5°
Fed Ex: 96600451 2527 - 5°
Fed Ex: 96600451 2505 - 4°

See email for client instructions APN 12/22/08

PM (or PMA) review: Initials APN

Date 12/22/08

Subject: RE: Samples received at GEL today 12/19/08
From: "James Hix" <jhix@oaconsulting.com>
Date: Fri, 19 Dec 2008 17:59:17 -0600
To: "Amanda Rasco" <amanda.rasco@gel.com>

Amanda,

Thank you for letting me know that the samples arrived. We used the pre-preserved bottles that were sent to us from GEL, and both the 1000 mL and the larger containers had stickers that said that they were preserved. We did not add acid to the bottles. The samples are of produced water from natural gas wells. The produced water has high TDS and high alkalinity which may have neutralized some of the acid. Please preserve the aliquots that require preservation and analyze the samples as received for Cl-36. How much will the acid affect the results?

James W. Hix, PG| Cordilleran Compliance Services, Inc. | A division of Olsson Associates
4690 Table Mountain Drive, Suite 200 | Golden, CO 80403 | jameshix@cordcomp.com
TEL 303.237.2072 | CELL 303.589.1572 | FAX 303.237.2659



A division of Olsson Associates



From: Amanda Rasco [mailto:amanda.rasco@gel.com]
Sent: Friday, December 19, 2008 2:38 PM
To: James Hix
Subject: Samples received at GEL today 12/19/08

James,

All of the containers received for each sample appear to have been preserved with Nitric acid. The 1000 mL container for each sample, should be unpreserved as we request an unpreserved container for Cl-36 analysis. Also, a few of the larger containers were received with pH's greater than 2. I've listed the ID's below and their corresponding pH's. Please let me know if you'd like us to preserve the aliquots that require preservation (Gross Alpha/Beta, Gamma, Sr-90, Tc-99, Total Uranium) and analyze the samples as received for Cl-36. Let me know if you have any questions.

pH of 3

6-22B

9-22B

pH of 4

16-22D

15-22D

10-22D

pH of 5

7-22D

10-22B

6-22D

Thank You,

Amanda

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Amanda J. Rasco  
Project Manager  
GEL Laboratories, LLC  
2040 Savage Road  
Charleston, SC (USA) 29407  
Direct: 843.769.7373  
Main: 843.556.8171 x4297  
Fax: 843.766.1178  
E-mail: [Amanda.Rasco@gel.com](mailto:Amanda.Rasco@gel.com)  
Web: [www.gel.com](http://www.gel.com)

## GEL LABORATORIES LLC

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

### Certificate of Analysis Report for

CORD001 Cordilleron Compliance Services, Inc

Client SDG: 221664 GEL Work Order: 221664


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

- \* A quality control analyte recovery is outside of specified acceptance criteria
- \*\* Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification

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 detection limit.

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, Amanda Rasco.

Reviewed by  \_\_\_\_\_

# GEL LABORATORIES LLC

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## Certificate of Analysis

Company : Cordilleran Compliance Services  
Address : 4690 Table Mountain Drive  
Suite 200  
Golden, Colorado 80403  
Contact: Mr. James Hix  
Project: **Cordilleran Compliance Services, Inc**

Report Date: January 20, 2009

Client Sample ID: 7-22B  
Sample ID: 221664001  
Matrix: Water  
Collect Date: 17-DEC-08 08:38  
Receive Date: 19-DEC-08  
Collector: Client

Project: CORD00100  
Client ID: CORD001

| Parameter                                      | Qualifier | Result  | Uncertainty | DL   | RL   | Units | DF | Analyst | Date     | Time | Batch  | Method |
|------------------------------------------------|-----------|---------|-------------|------|------|-------|----|---------|----------|------|--------|--------|
| <b>Rad Gamma Spec Analysis</b>                 |           |         |             |      |      |       |    |         |          |      |        |        |
| <i>Gammascpec, Gamma, Liquid "As Received"</i> |           |         |             |      |      |       |    |         |          |      |        |        |
| Actinium-228                                   | U         | 10.5    | +/-9.68     | 11.0 | 20.0 | pCi/L |    | KXG3    | 01/12/09 | 0930 | 830756 | 1      |
| Americium-241                                  | U         | 0.854   | +/-10.0     | 16.1 | 25.0 | pCi/L |    |         |          |      |        |        |
| Antimony-124                                   | U         | 0.00953 | +/-5.48     | 9.25 | 5.00 | pCi/L |    |         |          |      |        |        |
| Antimony-125                                   | U         | 1.09    | +/-4.70     | 8.16 | 10.0 | pCi/L |    |         |          |      |        |        |
| Barium-133                                     | U         | 1.36    | +/-2.42     | 4.05 | 5.00 | pCi/L |    |         |          |      |        |        |
| Barium-140                                     | U         | -0.559  | +/-22.5     | 37.7 | 30.0 | pCi/L |    |         |          |      |        |        |
| Beryllium-7                                    | U         | -0.188  | +/-19.6     | 33.1 | 50.0 | pCi/L |    |         |          |      |        |        |
| Bismuth-212                                    | U         | 1.96    | +/-16.1     | 25.6 | 50.0 | pCi/L |    |         |          |      |        |        |
| Bismuth-214                                    | U         | 6.41    | +/-7.45     | 8.79 | 10.0 | pCi/L |    |         |          |      |        |        |
| Cerium-139                                     | U         | -0.135  | +/-1.73     | 2.90 | 5.00 | pCi/L |    |         |          |      |        |        |
| Cerium-141                                     | U         | 0.225   | +/-4.68     | 7.97 | 10.0 | pCi/L |    |         |          |      |        |        |
| Cerium-144                                     | U         | 1.12    | +/-12.7     | 21.7 | 50.0 | pCi/L |    |         |          |      |        |        |
| Cesium-134                                     | U         | -0.343  | +/-2.14     | 3.62 | 5.00 | pCi/L |    |         |          |      |        |        |
| Cesium-136                                     | U         | -7.57   | +/-8.48     | 12.4 | 15.0 | pCi/L |    |         |          |      |        |        |
| Cesium-137                                     | U         | 0.280   | +/-1.72     | 2.89 | 5.00 | pCi/L |    |         |          |      |        |        |
| Chromium-51                                    | U         | 27.6    | +/-27.1     | 47.1 | 50.0 | pCi/L |    |         |          |      |        |        |
| Cobalt-56                                      | U         | -1.68   | +/-2.06     | 3.19 | 5.00 | pCi/L |    |         |          |      |        |        |
| Cobalt-57                                      | U         | 0.692   | +/-1.59     | 2.79 | 5.00 | pCi/L |    |         |          |      |        |        |
| Cobalt-58                                      | U         | 0.915   | +/-1.89     | 3.42 | 10.0 | pCi/L |    |         |          |      |        |        |
| Cobalt-60                                      | U         | -0.538  | +/-1.94     | 3.06 | 5.00 | pCi/L |    |         |          |      |        |        |
| Europium-152                                   | U         | -3.98   | +/-5.02     | 8.20 | 20.0 | pCi/L |    |         |          |      |        |        |
| Europium-154                                   | U         | 4.01    | +/-5.50     | 9.99 | 20.0 | pCi/L |    |         |          |      |        |        |
| Europium-155                                   | U         | -2.02   | +/-6.65     | 11.3 | 20.0 | pCi/L |    |         |          |      |        |        |
| Iridium-192                                    | U         | -2.44   | +/-2.17     | 3.19 | 10.0 | pCi/L |    |         |          |      |        |        |
| Iron-59                                        | U         | -2.38   | +/-4.00     | 6.02 | 10.0 | pCi/L |    |         |          |      |        |        |
| Krypton-85                                     | U         | 643     | +/-404      | 753  |      | pCi/L |    |         |          |      |        |        |
| Lead-210                                       | U         | -160    | +/-302      | 440  | 750  | pCi/L |    |         |          |      |        |        |
| Lead-212                                       | U         | 1.41    | +/-4.74     | 6.96 | 15.0 | pCi/L |    |         |          |      |        |        |
| Lead-214                                       | UI        | 0.00    | +/-6.53     | 8.93 | 10.0 | pCi/L |    |         |          |      |        |        |
| Manganese-54                                   | U         | -0.362  | +/-1.82     | 3.06 | 5.00 | pCi/L |    |         |          |      |        |        |
| Mercury-203                                    | U         | 1.53    | +/-2.74     | 4.63 | 5.00 | pCi/L |    |         |          |      |        |        |
| Neodymium-147                                  | U         | 52.4    | +/-58.7     | 106  | 100  | pCi/L |    |         |          |      |        |        |
| Neptunium-239                                  | U         | -2.73   | +/-12.0     | 20.4 | 25.0 | pCi/L |    |         |          |      |        |        |
| Niobium-94                                     | U         | 1.99    | +/-1.69     | 3.10 | 5.00 | pCi/L |    |         |          |      |        |        |
| Niobium-95                                     | U         | 0.465   | +/-3.08     | 4.94 | 5.00 | pCi/L |    |         |          |      |        |        |
| Potassium-40                                   | UI        | 0.00    | +/-51.9     | 29.9 | 100  | pCi/L |    |         |          |      |        |        |
| Promethium-144                                 | U         | -1.59   | +/-1.81     | 2.69 | 5.00 | pCi/L |    |         |          |      |        |        |
| Promethium-146                                 | U         | 1.06    | +/-2.35     | 4.12 | 5.00 | pCi/L |    |         |          |      |        |        |



# GEL LABORATORIES LLC

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## Certificate of Analysis

Company : Cordilleran Compliance Services  
 Address : 4690 Table Mountain Drive  
 Suite 200  
 Golden, Colorado 80403  
 Contact: Mr. James Hix  
 Project: **Cordilleran Compliance Services, Inc**

Report Date: January 20, 2009

Client Sample ID: 7-22B  
 Sample ID: 221664001

Project: CORD00100  
 Client ID: CORD001

| Parameter                                      | Qualifier | Result | Uncertainty | DL    | RL   | Units | DF | Analyst | Date     | Time | Batch  | Method |
|------------------------------------------------|-----------|--------|-------------|-------|------|-------|----|---------|----------|------|--------|--------|
| <b>Rad Gamma Spec Analysis</b>                 |           |        |             |       |      |       |    |         |          |      |        |        |
| <i>Gammascpec, Gamma, Liquid "As Received"</i> |           |        |             |       |      |       |    |         |          |      |        |        |
| Radium-228                                     | U         | 10.5   | +/-9.68     | 11.0  | 20.0 | pCi/L |    |         |          |      |        |        |
| Ruthenium-106                                  | U         | 28.6   | +/-17.6     | 33.4  | 50.0 | pCi/L |    |         |          |      |        |        |
| Silver-110m                                    | U         | 0.223  | +/-1.74     | 2.91  | 5.00 | pCi/L |    |         |          |      |        |        |
| Sodium-22                                      | U         | 1.76   | +/-1.94     | 3.60  | 5.00 | pCi/L |    |         |          |      |        |        |
| Thallium-208                                   | U         | -1.6   | +/-2.57     | 3.93  | 10.0 | pCi/L |    |         |          |      |        |        |
| Thorium-230                                    | U         | -1020  | +/-6520     | 1120  | 20.0 | pCi/L |    |         |          |      |        |        |
| Thorium-234                                    | U         | -42.9  | +/-99.0     | 157   | 250  | pCi/L |    |         |          |      |        |        |
| Tin-113                                        | U         | -1.28  | +/-2.40     | 3.94  | 10.0 | pCi/L |    |         |          |      |        |        |
| Uranium-235                                    | U         | -12.8  | +/-14.7     | 21.8  | 50.0 | pCi/L |    |         |          |      |        |        |
| Uranium-238                                    | U         | -42.9  | +/-99.0     | 157   | 250  | pCi/L |    |         |          |      |        |        |
| Yttrium-88                                     | U         | -1.03  | +/-2.44     | 3.79  | 10.0 | pCi/L |    |         |          |      |        |        |
| Zinc-65                                        | U         | -0.713 | +/-3.94     | 6.43  | 10.0 | pCi/L |    |         |          |      |        |        |
| Zirconium-95                                   | U         | 4.78   | +/-3.80     | 7.08  | 10.0 | pCi/L |    |         |          |      |        |        |
| <b>Rad Gas Flow Proportional Counting</b>      |           |        |             |       |      |       |    |         |          |      |        |        |
| <i>GFPC, Chlorine-36 liquid "As Received"</i>  |           |        |             |       |      |       |    |         |          |      |        |        |
| Chlorine-36                                    | U         | 99.9   | +/-208      | 353   | 100  | pCi/L |    | BXF1    | 01/16/09 | 1812 | 830299 | 2      |
| <i>GFPC, Gross A/B, liquid "As Received"</i>   |           |        |             |       |      |       |    |         |          |      |        |        |
| Alpha                                          |           | 49.0   | +/-26.5     | 40.4  | 5.00 | pCi/L |    | DXF3    | 01/14/09 | 0417 | 830303 | 3      |
| Beta                                           | U         | 44.6   | +/-34.0     | 56.5  | 5.00 | pCi/L |    |         |          |      |        |        |
| <i>GFPC, Sr90, liquid "As Received"</i>        |           |        |             |       |      |       |    |         |          |      |        |        |
| Strontium-90                                   | U         | 0.137  | +/-0.695    | 1.31  | 2.00 | pCi/L |    | JXC5    | 01/13/09 | 1618 | 830293 | 4      |
| <b>Rad Liquid Scintillation Analysis</b>       |           |        |             |       |      |       |    |         |          |      |        |        |
| <i>Liquid Scint Tc99, Liquid "As Received"</i> |           |        |             |       |      |       |    |         |          |      |        |        |
| Technetium-99                                  | U         | -5.92  | +/-22.2     | 38.3  | 50.0 | pCi/L |    | SXL4    | 01/14/09 | 0224 | 830666 | 5      |
| <b>Rad Total Uranium</b>                       |           |        |             |       |      |       |    |         |          |      |        |        |
| <i>KPA, Total U, Liquid "As Received"</i>      |           |        |             |       |      |       |    |         |          |      |        |        |
| Total Uranium                                  |           | 0.401  | +/-0.165    | 0.267 | 1.00 | ug/L  |    | KXG3    | 01/08/09 | 1413 | 828849 | 6      |

### The following Analytical Methods were performed

| Method | Description                         | Analyst Comments |
|--------|-------------------------------------|------------------|
| 1      | EPA 901.1                           |                  |
| 2      | GL-RAD-A-033                        |                  |
| 3      | EPA 900.0                           |                  |
| 4      | EPA 905.0 Modified                  |                  |
| 5      | DOE EML HASL-300, Tc-02-RC Modified |                  |
| 6      | ASTM D 5174                         |                  |

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Address : 4690 Table Mountain Drive  
Suite 200  
Golden, Colorado 80403  
Contact: Mr. James Hix  
Project: **Cordilleran Compliance Services, Inc**

Report Date: January 20, 2009

Client Sample ID: 7–22B  
Sample ID: 221664001

Project: CORD00100  
Client ID: CORD001

| Parameter                  | Qualifier                               | Result | Uncertainty | DL        | RL                | Units | DF | Analyst | Date | Time | Batch      | Method |
|----------------------------|-----------------------------------------|--------|-------------|-----------|-------------------|-------|----|---------|------|------|------------|--------|
| Surrogate/Tracer recovery  | Test                                    | Result | Nominal     | Recovery% | Acceptable Limits |       |    |         |      |      |            |        |
| Potassium Chloride Carrier | GFPC, Chlorine–36 liquid "As Received"  |        |             |           |                   |       |    |         | 104  |      | (25%–125%) |        |
| Strontium Carrier          | GFPC, Sr90, liquid "As Received"        |        |             |           |                   |       |    |         | 74   |      | (25%–125%) |        |
| Technetium–99m Tracer      | Liquid Scint Tc99, Liquid "As Received" |        |             |           |                   |       |    |         | 51   |      | (15%–125%) |        |

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## Certificate of Analysis

Company : Cordilleran Compliance Services  
Address : 4690 Table Mountain Drive  
Suite 200  
Golden, Colorado 80403  
Contact: Mr. James Hix  
Project: **Cordilleran Compliance Services, Inc**

Report Date: January 20, 2009

Client Sample ID: 7-22D  
Sample ID: 221664002  
Matrix: Water  
Collect Date: 17-DEC-08 09:07  
Receive Date: 19-DEC-08  
Collector: Client

Project: CORD00100  
Client ID: CORD001

| Parameter                                      | Qualifier | Result | Uncertainty | DL   | RL   | Units | DF | Analyst | Date     | Time | Batch  | Method |
|------------------------------------------------|-----------|--------|-------------|------|------|-------|----|---------|----------|------|--------|--------|
| <b>Rad Gamma Spec Analysis</b>                 |           |        |             |      |      |       |    |         |          |      |        |        |
| <i>Gammascpec, Gamma, Liquid "As Received"</i> |           |        |             |      |      |       |    |         |          |      |        |        |
| Actinium-228                                   | U         | 9.61   | +/-10.7     | 18.3 | 20.0 | pCi/L |    | KXG3    | 01/12/09 | 1319 | 830756 | 1      |
| Americium-241                                  | U         | -10.9  | +/-14.9     | 24.6 | 25.0 | pCi/L |    |         |          |      |        |        |
| Antimony-124                                   | U         | 2.22   | +/-6.60     | 11.7 | 5.00 | pCi/L |    |         |          |      |        |        |
| Antimony-125                                   | U         | 1.36   | +/-6.32     | 10.6 | 10.0 | pCi/L |    |         |          |      |        |        |
| Barium-133                                     | U         | 2.45   | +/-3.28     | 5.05 | 5.00 | pCi/L |    |         |          |      |        |        |
| Barium-140                                     | U         | 3.12   | +/-30.3     | 52.1 | 30.0 | pCi/L |    |         |          |      |        |        |
| Beryllium-7                                    | U         | -17.8  | +/-26.1     | 40.5 | 50.0 | pCi/L |    |         |          |      |        |        |
| Bismuth-212                                    | U         | 21.8   | +/-17.9     | 33.0 | 50.0 | pCi/L |    |         |          |      |        |        |
| Bismuth-214                                    | U         | 3.00   | +/-8.22     | 10.0 | 10.0 | pCi/L |    |         |          |      |        |        |
| Cerium-139                                     | U         | 1.81   | +/-2.52     | 4.26 | 5.00 | pCi/L |    |         |          |      |        |        |
| Cerium-141                                     | U         | -0.947 | +/-6.49     | 10.6 | 10.0 | pCi/L |    |         |          |      |        |        |
| Cerium-144                                     | U         | -5.18  | +/-17.1     | 27.8 | 50.0 | pCi/L |    |         |          |      |        |        |
| Cesium-134                                     | U         | -0.35  | +/-2.71     | 4.44 | 5.00 | pCi/L |    |         |          |      |        |        |
| Cesium-136                                     | U         | 2.99   | +/-12.2     | 21.2 | 15.0 | pCi/L |    |         |          |      |        |        |
| Cesium-137                                     | U         | 1.56   | +/-2.39     | 4.24 | 5.00 | pCi/L |    |         |          |      |        |        |
| Chromium-51                                    | U         | -26.1  | +/-36.3     | 58.4 | 50.0 | pCi/L |    |         |          |      |        |        |
| Cobalt-56                                      | U         | -1.66  | +/-2.64     | 4.06 | 5.00 | pCi/L |    |         |          |      |        |        |
| Cobalt-57                                      | U         | 0.137  | +/-2.33     | 3.88 | 5.00 | pCi/L |    |         |          |      |        |        |
| Cobalt-58                                      | U         | -2.14  | +/-2.72     | 4.14 | 10.0 | pCi/L |    |         |          |      |        |        |
| Cobalt-60                                      | U         | 0.727  | +/-1.94     | 3.43 | 5.00 | pCi/L |    |         |          |      |        |        |
| Europium-152                                   | U         | 3.38   | +/-7.97     | 11.9 | 20.0 | pCi/L |    |         |          |      |        |        |
| Europium-154                                   | U         | 3.95   | +/-6.04     | 11.0 | 20.0 | pCi/L |    |         |          |      |        |        |
| Europium-155                                   | U         | -5.74  | +/-9.04     | 14.7 | 20.0 | pCi/L |    |         |          |      |        |        |
| Iridium-192                                    | U         | 2.06   | +/-2.83     | 4.94 | 10.0 | pCi/L |    |         |          |      |        |        |
| Iron-59                                        | U         | -3.13  | +/-5.77     | 9.10 | 10.0 | pCi/L |    |         |          |      |        |        |
| Krypton-85                                     | U         | 5.20   | +/-630      | 1080 |      | pCi/L |    |         |          |      |        |        |
| Lead-210                                       | U         | -23    | +/-370      | 633  | 750  | pCi/L |    |         |          |      |        |        |
| Lead-212                                       | U         | 2.15   | +/-7.06     | 8.02 | 15.0 | pCi/L |    |         |          |      |        |        |
| Lead-214                                       | U         | 7.15   | +/-9.59     | 10.2 | 10.0 | pCi/L |    |         |          |      |        |        |
| Manganese-54                                   | U         | 1.56   | +/-2.39     | 4.20 | 5.00 | pCi/L |    |         |          |      |        |        |
| Mercury-203                                    | U         | 2.98   | +/-3.22     | 5.71 | 5.00 | pCi/L |    |         |          |      |        |        |
| Neodymium-147                                  | U         | 32.1   | +/-73.9     | 130  | 100  | pCi/L |    |         |          |      |        |        |
| Neptunium-239                                  | U         | -4.24  | +/-16.8     | 27.7 | 25.0 | pCi/L |    |         |          |      |        |        |
| Niobium-94                                     | U         | -1.54  | +/-2.15     | 3.37 | 5.00 | pCi/L |    |         |          |      |        |        |
| Niobium-95                                     | U         | 2.58   | +/-3.73     | 6.58 | 5.00 | pCi/L |    |         |          |      |        |        |
| Potassium-40                                   | U         | 15.6   | +/-28.8     | 42.6 | 100  | pCi/L |    |         |          |      |        |        |
| Promethium-144                                 | U         | 0.552  | +/-2.25     | 3.85 | 5.00 | pCi/L |    |         |          |      |        |        |
| Promethium-146                                 | U         | 0.335  | +/-2.73     | 4.55 | 5.00 | pCi/L |    |         |          |      |        |        |

# GEL LABORATORIES LLC

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

## Certificate of Analysis

Company : Cordilleran Compliance Services  
Address : 4690 Table Mountain Drive  
Suite 200  
Golden, Colorado 80403  
Contact: Mr. James Hix  
Project: **Cordilleran Compliance Services, Inc**

Report Date: January 20, 2009

Client Sample ID: 7-22D  
Sample ID: 221664002

Project: CORD00100  
Client ID: CORD001

| Parameter                                      | Qualifier | Result | Uncertainty | DL    | RL   | Units | DF | Analyst | Date     | Time | Batch  | Method |
|------------------------------------------------|-----------|--------|-------------|-------|------|-------|----|---------|----------|------|--------|--------|
| <b>Rad Gamma Spec Analysis</b>                 |           |        |             |       |      |       |    |         |          |      |        |        |
| <i>Gammascpec, Gamma, Liquid "As Received"</i> |           |        |             |       |      |       |    |         |          |      |        |        |
| Radium-228                                     | U         | 9.61   | +/-10.7     | 18.3  | 20.0 | pCi/L |    |         |          |      |        |        |
| Ruthenium-106                                  | U         | 19.6   | +/-21.1     | 38.1  | 50.0 | pCi/L |    |         |          |      |        |        |
| Silver-110m                                    | U         | 0.313  | +/-2.27     | 3.86  | 5.00 | pCi/L |    |         |          |      |        |        |
| Sodium-22                                      | U         | 1.37   | +/-2.17     | 3.93  | 5.00 | pCi/L |    |         |          |      |        |        |
| Thallium-208                                   | U         | 0.0258 | +/-3.02     | 4.52  | 10.0 | pCi/L |    |         |          |      |        |        |
| Thorium-230                                    | U         | -62.1  | +/-1070     | 1680  | 20.0 | pCi/L |    |         |          |      |        |        |
| Thorium-234                                    | U         | -197   | +/-147      | 209   | 250  | pCi/L |    |         |          |      |        |        |
| Tin-113                                        | U         | 1.35   | +/-3.36     | 5.72  | 10.0 | pCi/L |    |         |          |      |        |        |
| Uranium-235                                    | U         | -15.8  | +/-19.8     | 28.7  | 50.0 | pCi/L |    |         |          |      |        |        |
| Uranium-238                                    | U         | -197   | +/-147      | 209   | 250  | pCi/L |    |         |          |      |        |        |
| Yttrium-88                                     | U         | 3.00   | +/-2.69     | 5.28  | 10.0 | pCi/L |    |         |          |      |        |        |
| Zinc-65                                        | U         | -7.46  | +/-5.35     | 7.58  | 10.0 | pCi/L |    |         |          |      |        |        |
| Zirconium-95                                   | U         | -1.15  | +/-4.86     | 7.92  | 10.0 | pCi/L |    |         |          |      |        |        |
| <b>Rad Gas Flow Proportional Counting</b>      |           |        |             |       |      |       |    |         |          |      |        |        |
| <i>GFPC, Chlorine-36 liquid "As Received"</i>  |           |        |             |       |      |       |    |         |          |      |        |        |
| Chlorine-36                                    | U         | -202   | +/-188      | 334   | 100  | pCi/L |    | BXF1    | 01/16/09 | 1812 | 830299 | 2      |
| <i>GFPC, Gross A/B, liquid "As Received"</i>   |           |        |             |       |      |       |    |         |          |      |        |        |
| Alpha                                          | U         | -17.6  | +/-20.5     | 41.0  | 5.00 | pCi/L |    | DXF3    | 01/14/09 | 0417 | 830303 | 3      |
| Beta                                           | U         | 11.1   | +/-32.3     | 55.0  | 5.00 | pCi/L |    |         |          |      |        |        |
| <i>GFPC, Sr90, liquid "As Received"</i>        |           |        |             |       |      |       |    |         |          |      |        |        |
| Strontium-90                                   | U         | 0.134  | +/-0.586    | 1.12  | 2.00 | pCi/L |    | JXC5    | 01/13/09 | 1617 | 830293 | 4      |
| <b>Rad Liquid Scintillation Analysis</b>       |           |        |             |       |      |       |    |         |          |      |        |        |
| <i>Liquid Scint Tc99, Liquid "As Received"</i> |           |        |             |       |      |       |    |         |          |      |        |        |
| Technetium-99                                  | U         | 11.0   | +/-18.5     | 31.2  | 50.0 | pCi/L |    | SXL4    | 01/14/09 | 0327 | 830666 | 5      |
| <b>Rad Total Uranium</b>                       |           |        |             |       |      |       |    |         |          |      |        |        |
| <i>KPA, Total U, Liquid "As Received"</i>      |           |        |             |       |      |       |    |         |          |      |        |        |
| Total Uranium                                  |           | 0.454  | +/-0.0998   | 0.267 | 1.00 | ug/L  |    | KXG3    | 01/08/09 | 1416 | 828849 | 6      |

### The following Analytical Methods were performed

| Method | Description                         | Analyst Comments |
|--------|-------------------------------------|------------------|
| 1      | EPA 901.1                           |                  |
| 2      | GL-RAD-A-033                        |                  |
| 3      | EPA 900.0                           |                  |
| 4      | EPA 905.0 Modified                  |                  |
| 5      | DOE EML HASL-300, Tc-02-RC Modified |                  |
| 6      | ASTM D 5174                         |                  |

# GEL LABORATORIES LLC

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## Certificate of Analysis

Company : Cordilleran Compliance Services

Address : 4690 Table Mountain Drive

Suite 200

Golden, Colorado 80403

Contact: Mr. James Hix

Project: **Cordilleran Compliance Services, Inc**

Report Date: January 20, 2009

Client Sample ID: 7-22D  
Sample ID: 221664002

Project: CORD00100  
Client ID: CORD001

| Parameter                  | Qualifier                               | Result | Uncertainty | DL        | RL                | Units | DF | Analyst | Date | Time | Batch      | Method |
|----------------------------|-----------------------------------------|--------|-------------|-----------|-------------------|-------|----|---------|------|------|------------|--------|
| Surrogate/Tracer recovery  | Test                                    | Result | Nominal     | Recovery% | Acceptable Limits |       |    |         |      |      |            |        |
| Potassium Chloride Carrier | GFPC, Chlorine-36 liquid "As Received"  |        |             |           |                   |       |    |         | 101  |      | (25%–125%) |        |
| Strontium Carrier          | GFPC, Sr90, liquid "As Received"        |        |             |           |                   |       |    |         | 73   |      | (25%–125%) |        |
| Technetium-99m Tracer      | Liquid Scint Tc99, Liquid "As Received" |        |             |           |                   |       |    |         | 62   |      | (15%–125%) |        |

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Golden, Colorado 80403  
Contact: Mr. James Hix  
Project: **Cordilleran Compliance Services, Inc**

Report Date: January 20, 2009

Client Sample ID: 10-22B  
Sample ID: 221664003  
Matrix: Water  
Collect Date: 17-DEC-08 10:01  
Receive Date: 19-DEC-08  
Collector: Client

Project: CORD00100  
Client ID: CORD001

| Parameter                                      | Qualifier | Result  | Uncertainty | DL   | RL   | Units | DF | Analyst | Date     | Time | Batch  | Method |
|------------------------------------------------|-----------|---------|-------------|------|------|-------|----|---------|----------|------|--------|--------|
| <b>Rad Gamma Spec Analysis</b>                 |           |         |             |      |      |       |    |         |          |      |        |        |
| <i>Gammascpec, Gamma, Liquid "As Received"</i> |           |         |             |      |      |       |    |         |          |      |        |        |
| Actinium-228                                   | U         | 10.0    | +/-12.4     | 14.7 | 20.0 | pCi/L |    | KXG3    | 01/12/09 | 1320 | 830756 | 1      |
| Americium-241                                  | U         | 1.05    | +/-15.7     | 26.9 | 25.0 | pCi/L |    |         |          |      |        |        |
| Antimony-124                                   | U         | -2.34   | +/-6.20     | 9.62 | 5.00 | pCi/L |    |         |          |      |        |        |
| Antimony-125                                   | U         | 1.64    | +/-5.06     | 8.72 | 10.0 | pCi/L |    |         |          |      |        |        |
| Barium-133                                     | U         | 1.52    | +/-3.04     | 4.74 | 5.00 | pCi/L |    |         |          |      |        |        |
| Barium-140                                     | U         | -13     | +/-29.0     | 45.1 | 30.0 | pCi/L |    |         |          |      |        |        |
| Beryllium-7                                    | U         | -10.8   | +/-23.6     | 37.6 | 50.0 | pCi/L |    |         |          |      |        |        |
| Bismuth-212                                    | U         | -0.0522 | +/-20.2     | 29.7 | 50.0 | pCi/L |    |         |          |      |        |        |
| Bismuth-214                                    | U         | 4.76    | +/-6.75     | 9.48 | 10.0 | pCi/L |    |         |          |      |        |        |
| Cerium-139                                     | U         | 0.419   | +/-2.22     | 3.68 | 5.00 | pCi/L |    |         |          |      |        |        |
| Cerium-141                                     | U         | -0.771  | +/-5.65     | 9.26 | 10.0 | pCi/L |    |         |          |      |        |        |
| Cerium-144                                     | U         | 11.7    | +/-15.3     | 26.2 | 50.0 | pCi/L |    |         |          |      |        |        |
| Cesium-134                                     | U         | -0.63   | +/-2.88     | 4.35 | 5.00 | pCi/L |    |         |          |      |        |        |
| Cesium-136                                     | U         | 0.462   | +/-10.7     | 17.8 | 15.0 | pCi/L |    |         |          |      |        |        |
| Cesium-137                                     | UI        | 0.00    | +/-4.02     | 3.17 | 5.00 | pCi/L |    |         |          |      |        |        |
| Chromium-51                                    | U         | -1.62   | +/-29.1     | 49.4 | 50.0 | pCi/L |    |         |          |      |        |        |
| Cobalt-56                                      | U         | -1.47   | +/-2.43     | 3.79 | 5.00 | pCi/L |    |         |          |      |        |        |
| Cobalt-57                                      | U         | 0.995   | +/-1.98     | 3.38 | 5.00 | pCi/L |    |         |          |      |        |        |
| Cobalt-58                                      | U         | 0.322   | +/-2.50     | 4.29 | 10.0 | pCi/L |    |         |          |      |        |        |
| Cobalt-60                                      | U         | -0.313  | +/-2.03     | 3.37 | 5.00 | pCi/L |    |         |          |      |        |        |
| Europium-152                                   | U         | 0.229   | +/-6.06     | 9.96 | 20.0 | pCi/L |    |         |          |      |        |        |
| Europium-154                                   | U         | 0.895   | +/-6.36     | 11.1 | 20.0 | pCi/L |    |         |          |      |        |        |
| Europium-155                                   | U         | 0.577   | +/-8.01     | 13.5 | 20.0 | pCi/L |    |         |          |      |        |        |
| Iridium-192                                    | U         | 0.462   | +/-2.24     | 3.87 | 10.0 | pCi/L |    |         |          |      |        |        |
| Iron-59                                        | U         | -0.289  | +/-5.57     | 9.14 | 10.0 | pCi/L |    |         |          |      |        |        |
| Krypton-85                                     | U         | -1990   | +/-675      | 890  |      | pCi/L |    |         |          |      |        |        |
| Lead-210                                       | U         | 387     | +/-591      | 1060 | 750  | pCi/L |    |         |          |      |        |        |
| Lead-212                                       | U         | 0.0781  | +/-4.33     | 6.88 | 15.0 | pCi/L |    |         |          |      |        |        |
| Lead-214                                       | U         | 8.46    | +/-5.93     | 9.85 | 10.0 | pCi/L |    |         |          |      |        |        |
| Manganese-54                                   | U         | -0.912  | +/-1.96     | 3.12 | 5.00 | pCi/L |    |         |          |      |        |        |
| Mercury-203                                    | U         | 0.179   | +/-2.94     | 5.05 | 5.00 | pCi/L |    |         |          |      |        |        |
| Neodymium-147                                  | U         | -7.11   | +/-67.3     | 110  | 100  | pCi/L |    |         |          |      |        |        |
| Neptunium-239                                  | U         | 1.34    | +/-14.0     | 23.5 | 25.0 | pCi/L |    |         |          |      |        |        |
| Niobium-94                                     | U         | 0.149   | +/-1.76     | 3.03 | 5.00 | pCi/L |    |         |          |      |        |        |
| Niobium-95                                     | U         | -0.74   | +/-3.31     | 5.48 | 5.00 | pCi/L |    |         |          |      |        |        |
| Potassium-40                                   |           | 64.6    | +/-33.1     | 31.1 | 100  | pCi/L |    |         |          |      |        |        |
| Promethium-144                                 | U         | 0.817   | +/-2.06     | 3.64 | 5.00 | pCi/L |    |         |          |      |        |        |
| Promethium-146                                 | U         | 0.635   | +/-2.50     | 4.27 | 5.00 | pCi/L |    |         |          |      |        |        |

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## Certificate of Analysis

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Golden, Colorado 80403  
Contact: Mr. James Hix  
Project: **Cordilleran Compliance Services, Inc**

Report Date: January 20, 2009

Client Sample ID: 10-22B  
Sample ID: 221664003

Project: CORD00100  
Client ID: CORD001

| Parameter                                      | Qualifier | Result | Uncertainty | DL    | RL   | Units | DF | Analyst | Date     | Time | Batch  | Method |
|------------------------------------------------|-----------|--------|-------------|-------|------|-------|----|---------|----------|------|--------|--------|
| <b>Rad Gamma Spec Analysis</b>                 |           |        |             |       |      |       |    |         |          |      |        |        |
| <i>Gammascpec, Gamma, Liquid "As Received"</i> |           |        |             |       |      |       |    |         |          |      |        |        |
| Radium-228                                     | U         | 10.0   | +/-12.4     | 14.7  | 20.0 | pCi/L |    |         |          |      |        |        |
| Ruthenium-106                                  | U         | -10.8  | +/-18.9     | 30.8  | 50.0 | pCi/L |    |         |          |      |        |        |
| Silver-110m                                    | U         | -1.38  | +/-2.32     | 3.17  | 5.00 | pCi/L |    |         |          |      |        |        |
| Sodium-22                                      | U         | 0.230  | +/-2.28     | 3.95  | 5.00 | pCi/L |    |         |          |      |        |        |
| Thallium-208                                   | U         | -2.27  | +/-2.67     | 3.76  | 10.0 | pCi/L |    |         |          |      |        |        |
| Thorium-230                                    | UI        | 0.00   | +/-11600    | 1470  | 20.0 | pCi/L |    |         |          |      |        |        |
| Thorium-234                                    | U         | 98.0   | +/-159      | 231   | 250  | pCi/L |    |         |          |      |        |        |
| Tin-113                                        | U         | 1.20   | +/-2.97     | 5.14  | 10.0 | pCi/L |    |         |          |      |        |        |
| Uranium-235                                    | U         | -7.85  | +/-16.6     | 24.3  | 50.0 | pCi/L |    |         |          |      |        |        |
| Uranium-238                                    | U         | 98.0   | +/-159      | 231   | 250  | pCi/L |    |         |          |      |        |        |
| Yttrium-88                                     | U         | -0.339 | +/-2.49     | 4.01  | 10.0 | pCi/L |    |         |          |      |        |        |
| Zinc-65                                        | U         | -6.61  | +/-5.40     | 7.45  | 10.0 | pCi/L |    |         |          |      |        |        |
| Zirconium-95                                   | U         | -1.47  | +/-4.66     | 7.67  | 10.0 | pCi/L |    |         |          |      |        |        |
| <b>Rad Gas Flow Proportional Counting</b>      |           |        |             |       |      |       |    |         |          |      |        |        |
| <i>GFPC, Chlorine-36 liquid "As Received"</i>  |           |        |             |       |      |       |    |         |          |      |        |        |
| Chlorine-36                                    | U         | -127   | +/-165      | 293   | 100  | pCi/L |    | BXF1    | 01/16/09 | 1812 | 830299 | 2      |
| <i>GFPC, Gross A/B, liquid "As Received"</i>   |           |        |             |       |      |       |    |         |          |      |        |        |
| Alpha                                          | U         | 13.6   | +/-23.1     | 40.1  | 5.00 | pCi/L |    | DXF3    | 01/14/09 | 0417 | 830303 | 3      |
| Beta                                           | U         | 8.61   | +/-29.5     | 50.4  | 5.00 | pCi/L |    |         |          |      |        |        |
| <i>GFPC, Sr90, liquid "As Received"</i>        |           |        |             |       |      |       |    |         |          |      |        |        |
| Strontium-90                                   | U         | -0.133 | +/-0.754    | 1.49  | 2.00 | pCi/L |    | JXC5    | 01/13/09 | 1618 | 830293 | 4      |
| <b>Rad Liquid Scintillation Analysis</b>       |           |        |             |       |      |       |    |         |          |      |        |        |
| <i>Liquid Scint Tc99, Liquid "As Received"</i> |           |        |             |       |      |       |    |         |          |      |        |        |
| Technetium-99                                  | U         | -4.53  | +/-17.0     | 29.3  | 50.0 | pCi/L |    | SXL4    | 01/14/09 | 0429 | 830666 | 5      |
| <b>Rad Total Uranium</b>                       |           |        |             |       |      |       |    |         |          |      |        |        |
| <i>KPA, Total U, Liquid "As Received"</i>      |           |        |             |       |      |       |    |         |          |      |        |        |
| Total Uranium                                  |           | 1.12   | +/-0.533    | 0.267 | 1.00 | ug/L  |    | KXG3    | 01/08/09 | 1419 | 828849 | 6      |

### The following Analytical Methods were performed

| Method | Description                         | Analyst Comments |
|--------|-------------------------------------|------------------|
| 1      | EPA 901.1                           |                  |
| 2      | GL-RAD-A-033                        |                  |
| 3      | EPA 900.0                           |                  |
| 4      | EPA 905.0 Modified                  |                  |
| 5      | DOE EML HASL-300, Tc-02-RC Modified |                  |
| 6      | ASTM D 5174                         |                  |

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Contact: Mr. James Hix  
Project: **Cordilleran Compliance Services, Inc**

Report Date: January 20, 2009

Client Sample ID: 10–22B  
Sample ID: 221664003

Project: CORD00100  
Client ID: CORD001

| Parameter                  | Qualifier                               | Result | Uncertainty | DL      | RL | Units     | DF | Analyst           | Date | Time | Batch | Method |
|----------------------------|-----------------------------------------|--------|-------------|---------|----|-----------|----|-------------------|------|------|-------|--------|
| Surrogate/Tracer recovery  | Test                                    | Result |             | Nominal |    | Recovery% |    | Acceptable Limits |      |      |       |        |
| Potassium Chloride Carrier | GFPC, Chlorine–36 liquid "As Received"  |        |             |         |    | 99        |    | (25%–125%)        |      |      |       |        |
| Strontium Carrier          | GFPC, Sr90, liquid "As Received"        |        |             |         |    | 70        |    | (25%–125%)        |      |      |       |        |
| Technetium–99m Tracer      | Liquid Scint Tc99, Liquid "As Received" |        |             |         |    | 66        |    | (15%–125%)        |      |      |       |        |



# GEL LABORATORIES LLC

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

## Certificate of Analysis

Company : Cordilleran Compliance Services  
Address : 4690 Table Mountain Drive  
Suite 200  
Golden, Colorado 80403  
Contact: Mr. James Hix  
Project: **Cordilleran Compliance Services, Inc**

Report Date: January 20, 2009

Client Sample ID: 6-22B  
Sample ID: 221664004  
Matrix: Water  
Collect Date: 17-DEC-08 10:18  
Receive Date: 19-DEC-08  
Collector: Client

Project: CORD00100  
Client ID: CORD001

| Parameter                                      | Qualifier | Result | Uncertainty | DL   | RL   | Units | DF | Analyst | Date     | Time | Batch  | Method |
|------------------------------------------------|-----------|--------|-------------|------|------|-------|----|---------|----------|------|--------|--------|
| <b>Rad Gamma Spec Analysis</b>                 |           |        |             |      |      |       |    |         |          |      |        |        |
| <i>Gammascpec, Gamma, Liquid "As Received"</i> |           |        |             |      |      |       |    |         |          |      |        |        |
| Actinium-228                                   | U         | 1.50   | +/-9.17     | 14.5 | 20.0 | pCi/L |    | KXG3    | 01/12/09 | 0911 | 830756 | 1      |
| Americium-241                                  | U         | 1.03   | +/-6.63     | 11.2 | 25.0 | pCi/L |    |         |          |      |        |        |
| Antimony-124                                   | U         | 1.41   | +/-5.03     | 8.73 | 5.00 | pCi/L |    |         |          |      |        |        |
| Antimony-125                                   | U         | 2.30   | +/-5.06     | 8.64 | 10.0 | pCi/L |    |         |          |      |        |        |
| Barium-133                                     | U         | 0.705  | +/-2.78     | 4.15 | 5.00 | pCi/L |    |         |          |      |        |        |
| Barium-140                                     | U         | -23.8  | +/-25.4     | 37.9 | 30.0 | pCi/L |    |         |          |      |        |        |
| Beryllium-7                                    | U         | -2.84  | +/-22.0     | 35.6 | 50.0 | pCi/L |    |         |          |      |        |        |
| Bismuth-212                                    | U         | 6.11   | +/-12.6     | 22.3 | 50.0 | pCi/L |    |         |          |      |        |        |
| Bismuth-214                                    | UI        | 0.00   | +/-6.57     | 9.32 | 10.0 | pCi/L |    |         |          |      |        |        |
| Cerium-139                                     | U         | -0.907 | +/-1.82     | 3.08 | 5.00 | pCi/L |    |         |          |      |        |        |
| Cerium-141                                     | U         | -0.689 | +/-4.98     | 8.02 | 10.0 | pCi/L |    |         |          |      |        |        |
| Cerium-144                                     | U         | 6.43   | +/-12.6     | 21.1 | 50.0 | pCi/L |    |         |          |      |        |        |
| Cesium-134                                     | U         | 2.01   | +/-2.31     | 4.21 | 5.00 | pCi/L |    |         |          |      |        |        |
| Cesium-136                                     | U         | -0.244 | +/-9.02     | 15.4 | 15.0 | pCi/L |    |         |          |      |        |        |
| Cesium-137                                     | U         | -1.12  | +/-1.89     | 3.01 | 5.00 | pCi/L |    |         |          |      |        |        |
| Chromium-51                                    | U         | -14.4  | +/-28.3     | 45.7 | 50.0 | pCi/L |    |         |          |      |        |        |
| Cobalt-56                                      | U         | -0.481 | +/-2.10     | 3.39 | 5.00 | pCi/L |    |         |          |      |        |        |
| Cobalt-57                                      | U         | 0.159  | +/-1.64     | 2.70 | 5.00 | pCi/L |    |         |          |      |        |        |
| Cobalt-58                                      | U         | -0.179 | +/-2.26     | 3.74 | 10.0 | pCi/L |    |         |          |      |        |        |
| Cobalt-60                                      | U         | 0.881  | +/-1.82     | 3.28 | 5.00 | pCi/L |    |         |          |      |        |        |
| Europium-152                                   | U         | 3.78   | +/-5.42     | 9.47 | 20.0 | pCi/L |    |         |          |      |        |        |
| Europium-154                                   | U         | -2.33  | +/-5.47     | 8.67 | 20.0 | pCi/L |    |         |          |      |        |        |
| Europium-155                                   | U         | 1.60   | +/-6.35     | 10.6 | 20.0 | pCi/L |    |         |          |      |        |        |
| Iridium-192                                    | U         | 0.187  | +/-2.22     | 3.75 | 10.0 | pCi/L |    |         |          |      |        |        |
| Iron-59                                        | U         | -1.87  | +/-5.08     | 8.28 | 10.0 | pCi/L |    |         |          |      |        |        |
| Krypton-85                                     | U         | -1180  | +/-555      | 838  |      | pCi/L |    |         |          |      |        |        |
| Lead-210                                       | U         | 7.03   | +/-185      | 174  | 750  | pCi/L |    |         |          |      |        |        |
| Lead-212                                       | U         | 2.87   | +/-4.80     | 7.25 | 15.0 | pCi/L |    |         |          |      |        |        |
| Lead-214                                       | U         | 7.87   | +/-6.42     | 8.32 | 10.0 | pCi/L |    |         |          |      |        |        |
| Manganese-54                                   | U         | -2.27  | +/-2.07     | 3.01 | 5.00 | pCi/L |    |         |          |      |        |        |
| Mercury-203                                    | U         | 2.25   | +/-2.65     | 4.69 | 5.00 | pCi/L |    |         |          |      |        |        |
| Neodymium-147                                  | U         | -38.7  | +/-57.8     | 92.9 | 100  | pCi/L |    |         |          |      |        |        |
| Neptunium-239                                  | U         | -3.52  | +/-12.4     | 20.0 | 25.0 | pCi/L |    |         |          |      |        |        |
| Niobium-94                                     | U         | 0.494  | +/-1.87     | 3.22 | 5.00 | pCi/L |    |         |          |      |        |        |
| Niobium-95                                     | U         | 1.62   | +/-3.02     | 5.32 | 5.00 | pCi/L |    |         |          |      |        |        |
| Potassium-40                                   |           | 70.1   | +/-44.1     | 30.7 | 100  | pCi/L |    |         |          |      |        |        |
| Promethium-144                                 | U         | -0.689 | +/-1.95     | 3.17 | 5.00 | pCi/L |    |         |          |      |        |        |
| Promethium-146                                 | U         | 0.887  | +/-2.38     | 4.03 | 5.00 | pCi/L |    |         |          |      |        |        |

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## Certificate of Analysis

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 Address : 4690 Table Mountain Drive  
 Suite 200  
 Golden, Colorado 80403  
 Contact: Mr. James Hix  
 Project: **Cordilleran Compliance Services, Inc**

Report Date: January 20, 2009

Client Sample ID: 6–22B  
 Sample ID: 221664004

Project: CORD00100  
 Client ID: CORD001

| Parameter                                      | Qualifier | Result | Uncertainty | DL    | RL   | Units | DF | Analyst | Date     | Time | Batch  | Method |
|------------------------------------------------|-----------|--------|-------------|-------|------|-------|----|---------|----------|------|--------|--------|
| <b>Rad Gamma Spec Analysis</b>                 |           |        |             |       |      |       |    |         |          |      |        |        |
| <i>Gammascpec, Gamma, Liquid "As Received"</i> |           |        |             |       |      |       |    |         |          |      |        |        |
| Radium–228                                     | U         | 1.50   | +/-9.17     | 14.5  | 20.0 | pCi/L |    |         |          |      |        |        |
| Ruthenium–106                                  | U         | 12.4   | +/-16.1     | 29.4  | 50.0 | pCi/L |    |         |          |      |        |        |
| Silver–110m                                    | U         | 1.11   | +/-1.89     | 3.37  | 5.00 | pCi/L |    |         |          |      |        |        |
| Sodium–22                                      | U         | –0.645 | +/-1.96     | 3.15  | 5.00 | pCi/L |    |         |          |      |        |        |
| Thallium–208                                   | U         | 3.35   | +/-4.33     | 4.36  | 10.0 | pCi/L |    |         |          |      |        |        |
| Thorium–230                                    | U         | 82.3   | +/-772      | 957   | 20.0 | pCi/L |    |         |          |      |        |        |
| Thorium–234                                    | U         | –73.6  | +/-73.7     | 110   | 250  | pCi/L |    |         |          |      |        |        |
| Tin–113                                        | U         | 1.86   | +/-2.47     | 4.33  | 10.0 | pCi/L |    |         |          |      |        |        |
| Uranium–235                                    | U         | 0.0316 | +/-14.1     | 21.8  | 50.0 | pCi/L |    |         |          |      |        |        |
| Uranium–238                                    | U         | –73.6  | +/-73.7     | 110   | 250  | pCi/L |    |         |          |      |        |        |
| Yttrium–88                                     | U         | –0.946 | +/-2.76     | 4.46  | 10.0 | pCi/L |    |         |          |      |        |        |
| Zinc–65                                        | U         | 1.62   | +/-4.21     | 7.48  | 10.0 | pCi/L |    |         |          |      |        |        |
| Zirconium–95                                   | U         | 1.69   | +/-4.30     | 7.48  | 10.0 | pCi/L |    |         |          |      |        |        |
| <b>Rad Gas Flow Proportional Counting</b>      |           |        |             |       |      |       |    |         |          |      |        |        |
| <i>GFPC, Chlorine–36 liquid "As Received"</i>  |           |        |             |       |      |       |    |         |          |      |        |        |
| Chlorine–36                                    | U         | –25.8  | +/-132      | 233   | 100  | pCi/L |    | BXF1    | 01/16/09 | 1813 | 830299 | 2      |
| <i>GFPC, Gross A/B, liquid "As Received"</i>   |           |        |             |       |      |       |    |         |          |      |        |        |
| Alpha                                          | U         | 2.64   | +/-16.9     | 31.6  | 5.00 | pCi/L |    | DXF3    | 01/14/09 | 0417 | 830303 | 3      |
| Beta                                           | U         | –30.9  | +/-32.8     | 57.7  | 5.00 | pCi/L |    |         |          |      |        |        |
| <i>GFPC, Sr90, liquid "As Received"</i>        |           |        |             |       |      |       |    |         |          |      |        |        |
| Strontium–90                                   | U         | –0.448 | +/-0.391    | 1.01  | 2.00 | pCi/L |    | JXC5    | 01/13/09 | 1618 | 830293 | 4      |
| <b>Rad Liquid Scintillation Analysis</b>       |           |        |             |       |      |       |    |         |          |      |        |        |
| <i>Liquid Scint Tc99, Liquid "As Received"</i> |           |        |             |       |      |       |    |         |          |      |        |        |
| Technetium–99                                  | U         | 16.8   | +/-17.1     | 28.6  | 50.0 | pCi/L |    | SXL4    | 01/14/09 | 0532 | 830666 | 5      |
| <b>Rad Total Uranium</b>                       |           |        |             |       |      |       |    |         |          |      |        |        |
| <i>KPA, Total U, Liquid "As Received"</i>      |           |        |             |       |      |       |    |         |          |      |        |        |
| Total Uranium                                  |           | 0.604  | +/-0.220    | 0.267 | 1.00 | ug/L  |    | KXG3    | 01/08/09 | 1421 | 828849 | 6      |

### The following Analytical Methods were performed

| Method | Description                         | Analyst Comments |
|--------|-------------------------------------|------------------|
| 1      | EPA 901.1                           |                  |
| 2      | GL–RAD–A–033                        |                  |
| 3      | EPA 900.0                           |                  |
| 4      | EPA 905.0 Modified                  |                  |
| 5      | DOE EML HASL–300, Tc–02–RC Modified |                  |
| 6      | ASTM D 5174                         |                  |

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## Certificate of Analysis

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Suite 200  
Golden, Colorado 80403  
Contact: Mr. James Hix  
Project: **Cordilleran Compliance Services, Inc**

Report Date: January 20, 2009

Client Sample ID: 6–22B  
Sample ID: 221664004

Project: CORD00100  
Client ID: CORD001

| Parameter                  | Qualifier                               | Result | Uncertainty | DL        | RL                | Units | DF | Analyst | Date | Time | Batch      | Method |
|----------------------------|-----------------------------------------|--------|-------------|-----------|-------------------|-------|----|---------|------|------|------------|--------|
| Surrogate/Tracer recovery  | Test                                    | Result | Nominal     | Recovery% | Acceptable Limits |       |    |         |      |      |            |        |
| Potassium Chloride Carrier | GFPC, Chlorine–36 liquid "As Received"  |        |             |           |                   |       |    |         | 97   |      | (25%–125%) |        |
| Strontium Carrier          | GFPC, Sr90, liquid "As Received"        |        |             |           |                   |       |    |         | 78   |      | (25%–125%) |        |
| Technetium–99m Tracer      | Liquid Scint Tc99, Liquid "As Received" |        |             |           |                   |       |    |         | 68   |      | (15%–125%) |        |

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## Certificate of Analysis

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Address : 4690 Table Mountain Drive  
Suite 200  
Golden, Colorado 80403  
Contact: Mr. James Hix  
Project: **Cordilleran Compliance Services, Inc**

Report Date: January 20, 2009

Client Sample ID: 6-22D  
Sample ID: 221664005  
Matrix: Water  
Collect Date: 17-DEC-08 11:08  
Receive Date: 19-DEC-08  
Collector: Client

Project: CORD00100  
Client ID: CORD001

| Parameter                                      | Qualifier | Result | Uncertainty | DL   | RL   | Units | DF | Analyst | Date     | Time | Batch  | Method |
|------------------------------------------------|-----------|--------|-------------|------|------|-------|----|---------|----------|------|--------|--------|
| <b>Rad Gamma Spec Analysis</b>                 |           |        |             |      |      |       |    |         |          |      |        |        |
| <i>Gammascpec, Gamma, Liquid "As Received"</i> |           |        |             |      |      |       |    |         |          |      |        |        |
| Actinium-228                                   | UI        | 0.00   | +/-12.0     | 16.7 | 20.0 | pCi/L |    | KXG3    | 01/12/09 | 1320 | 830756 | 1      |
| Americium-241                                  | U         | -6.01  | +/-6.77     | 10.9 | 25.0 | pCi/L |    |         |          |      |        |        |
| Antimony-124                                   | U         | 0.918  | +/-5.14     | 8.75 | 5.00 | pCi/L |    |         |          |      |        |        |
| Antimony-125                                   | U         | -1.17  | +/-4.77     | 7.67 | 10.0 | pCi/L |    |         |          |      |        |        |
| Barium-133                                     | U         | 1.90   | +/-2.74     | 4.25 | 5.00 | pCi/L |    |         |          |      |        |        |
| Barium-140                                     | U         | 14.5   | +/-23.4     | 41.5 | 30.0 | pCi/L |    |         |          |      |        |        |
| Beryllium-7                                    | U         | 5.50   | +/-21.1     | 35.2 | 50.0 | pCi/L |    |         |          |      |        |        |
| Bismuth-212                                    | U         | 12.7   | +/-13.0     | 24.2 | 50.0 | pCi/L |    |         |          |      |        |        |
| Bismuth-214                                    | U         | 8.31   | +/-7.87     | 9.18 | 10.0 | pCi/L |    |         |          |      |        |        |
| Cerium-139                                     | U         | -0.689 | +/-1.77     | 3.01 | 5.00 | pCi/L |    |         |          |      |        |        |
| Cerium-141                                     | U         | 1.96   | +/-4.97     | 8.23 | 10.0 | pCi/L |    |         |          |      |        |        |
| Cerium-144                                     | U         | -7.22  | +/-13.1     | 20.7 | 50.0 | pCi/L |    |         |          |      |        |        |
| Cesium-134                                     | U         | 0.543  | +/-2.47     | 4.22 | 5.00 | pCi/L |    |         |          |      |        |        |
| Cesium-136                                     | U         | 1.76   | +/-8.19     | 14.4 | 15.0 | pCi/L |    |         |          |      |        |        |
| Cesium-137                                     | U         | -0.403 | +/-1.93     | 3.19 | 5.00 | pCi/L |    |         |          |      |        |        |
| Chromium-51                                    | U         | -13.2  | +/-26.0     | 42.0 | 50.0 | pCi/L |    |         |          |      |        |        |
| Cobalt-56                                      | U         | 1.50   | +/-2.47     | 4.36 | 5.00 | pCi/L |    |         |          |      |        |        |
| Cobalt-57                                      | U         | -1.33  | +/-1.79     | 2.81 | 5.00 | pCi/L |    |         |          |      |        |        |
| Cobalt-58                                      | U         | 2.10   | +/-2.25     | 4.13 | 10.0 | pCi/L |    |         |          |      |        |        |
| Cobalt-60                                      | U         | 2.50   | +/-1.89     | 3.75 | 5.00 | pCi/L |    |         |          |      |        |        |
| Europium-152                                   | U         | -6.75  | +/-5.89     | 8.61 | 20.0 | pCi/L |    |         |          |      |        |        |
| Europium-154                                   | U         | 1.51   | +/-5.68     | 9.91 | 20.0 | pCi/L |    |         |          |      |        |        |
| Europium-155                                   | U         | 9.49   | +/-6.79     | 11.9 | 20.0 | pCi/L |    |         |          |      |        |        |
| Iridium-192                                    | U         | 1.43   | +/-2.02     | 3.56 | 10.0 | pCi/L |    |         |          |      |        |        |
| Iron-59                                        | U         | -0.676 | +/-4.60     | 7.69 | 10.0 | pCi/L |    |         |          |      |        |        |
| Krypton-85                                     | U         | -663   | +/-599      | 974  |      | pCi/L |    |         |          |      |        |        |
| Lead-210                                       | UI        | 0.00   | +/-215      | 170  | 750  | pCi/L |    |         |          |      |        |        |
| Lead-212                                       | U         | 6.67   | +/-6.90     | 7.57 | 15.0 | pCi/L |    |         |          |      |        |        |
| Lead-214                                       | UI        | 0.00   | +/-8.14     | 8.96 | 10.0 | pCi/L |    |         |          |      |        |        |
| Manganese-54                                   | U         | 1.61   | +/-1.92     | 3.48 | 5.00 | pCi/L |    |         |          |      |        |        |
| Mercury-203                                    | U         | 0.390  | +/-2.68     | 4.56 | 5.00 | pCi/L |    |         |          |      |        |        |
| Neodymium-147                                  | U         | -50.7  | +/-56.9     | 88.9 | 100  | pCi/L |    |         |          |      |        |        |
| Neptunium-239                                  | U         | -6.85  | +/-12.4     | 19.7 | 25.0 | pCi/L |    |         |          |      |        |        |
| Niobium-94                                     | U         | -0.291 | +/-1.86     | 3.09 | 5.00 | pCi/L |    |         |          |      |        |        |
| Niobium-95                                     | U         | -1.85  | +/-2.80     | 4.33 | 5.00 | pCi/L |    |         |          |      |        |        |
| Potassium-40                                   |           | 91.9   | +/-39.9     | 31.5 | 100  | pCi/L |    |         |          |      |        |        |
| Promethium-144                                 | U         | -0.209 | +/-1.91     | 3.18 | 5.00 | pCi/L |    |         |          |      |        |        |
| Promethium-146                                 | U         | -0.273 | +/-2.42     | 3.93 | 5.00 | pCi/L |    |         |          |      |        |        |

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 Contact: Mr. James Hix  
 Project: **Cordilleran Compliance Services, Inc**

Report Date: January 20, 2009

Client Sample ID: 6–22D  
 Sample ID: 221664005

Project: CORD00100  
 Client ID: CORD001

| Parameter                                      | Qualifier | Result  | Uncertainty | DL    | RL   | Units | DF | Analyst | Date     | Time | Batch  | Method |
|------------------------------------------------|-----------|---------|-------------|-------|------|-------|----|---------|----------|------|--------|--------|
| <b>Rad Gamma Spec Analysis</b>                 |           |         |             |       |      |       |    |         |          |      |        |        |
| <i>Gammascpec, Gamma, Liquid "As Received"</i> |           |         |             |       |      |       |    |         |          |      |        |        |
| Radium–228                                     | UI        | 0.00    | +/-12.0     | 16.7  | 20.0 | pCi/L |    |         |          |      |        |        |
| Ruthenium–106                                  | U         | –10.4   | +/-18.0     | 28.9  | 50.0 | pCi/L |    |         |          |      |        |        |
| Silver–110m                                    | U         | 0.276   | +/-1.88     | 3.23  | 5.00 | pCi/L |    |         |          |      |        |        |
| Sodium–22                                      | U         | 0.868   | +/-2.01     | 3.59  | 5.00 | pCi/L |    |         |          |      |        |        |
| Thallium–208                                   | U         | –1.73   | +/-2.57     | 3.85  | 10.0 | pCi/L |    |         |          |      |        |        |
| Thorium–230                                    | U         | 271     | +/-1810     | 944   | 20.0 | pCi/L |    |         |          |      |        |        |
| Thorium–234                                    | U         | 12.6    | +/-73.3     | 117   | 250  | pCi/L |    |         |          |      |        |        |
| Tin–113                                        | U         | –1.6    | +/-2.68     | 4.23  | 10.0 | pCi/L |    |         |          |      |        |        |
| Uranium–235                                    | U         | 2.41    | +/-14.8     | 21.5  | 50.0 | pCi/L |    |         |          |      |        |        |
| Uranium–238                                    | U         | 12.6    | +/-73.3     | 117   | 250  | pCi/L |    |         |          |      |        |        |
| Yttrium–88                                     | U         | 1.22    | +/-2.35     | 4.33  | 10.0 | pCi/L |    |         |          |      |        |        |
| Zinc–65                                        | U         | –0.701  | +/-4.35     | 7.27  | 10.0 | pCi/L |    |         |          |      |        |        |
| Zirconium–95                                   | U         | –2.18   | +/-4.19     | 6.62  | 10.0 | pCi/L |    |         |          |      |        |        |
| <b>Rad Gas Flow Proportional Counting</b>      |           |         |             |       |      |       |    |         |          |      |        |        |
| <i>GFPC, Chlorine–36 liquid "As Received"</i>  |           |         |             |       |      |       |    |         |          |      |        |        |
| Chlorine–36                                    | U         | –101    | +/-197      | 345   | 100  | pCi/L |    | BXF1    | 01/16/09 | 1813 | 830299 | 2      |
| <i>GFPC, Gross A/B, liquid "As Received"</i>   |           |         |             |       |      |       |    |         |          |      |        |        |
| Alpha                                          |           | 61.6    | +/-33.1     | 51.5  | 5.00 | pCi/L |    | DXF3    | 01/14/09 | 0419 | 830303 | 3      |
| Beta                                           |           | 78.7    | +/-33.3     | 53.8  | 5.00 | pCi/L |    |         |          |      |        |        |
| <i>GFPC, Sr90, liquid "As Received"</i>        |           |         |             |       |      |       |    |         |          |      |        |        |
| Strontium–90                                   | U         | –0.0473 | +/-0.548    | 1.12  | 2.00 | pCi/L |    | JXC5    | 01/13/09 | 1618 | 830293 | 4      |
| <b>Rad Liquid Scintillation Analysis</b>       |           |         |             |       |      |       |    |         |          |      |        |        |
| <i>Liquid Scint Tc99, Liquid "As Received"</i> |           |         |             |       |      |       |    |         |          |      |        |        |
| Technetium–99                                  | U         | 4.15    | +/-18.4     | 31.4  | 50.0 | pCi/L |    | SXL4    | 01/14/09 | 0635 | 830666 | 5      |
| <b>Rad Total Uranium</b>                       |           |         |             |       |      |       |    |         |          |      |        |        |
| <i>KPA, Total U, Liquid "As Received"</i>      |           |         |             |       |      |       |    |         |          |      |        |        |
| Total Uranium                                  |           | 0.791   | +/-0.193    | 0.267 | 1.00 | ug/L  |    | KXG3    | 01/08/09 | 1424 | 828849 | 6      |

### The following Analytical Methods were performed

| Method | Description                         | Analyst Comments |
|--------|-------------------------------------|------------------|
| 1      | EPA 901.1                           |                  |
| 2      | GL–RAD–A–033                        |                  |
| 3      | EPA 900.0                           |                  |
| 4      | EPA 905.0 Modified                  |                  |
| 5      | DOE EML HASL–300, Tc–02–RC Modified |                  |
| 6      | ASTM D 5174                         |                  |

# GEL LABORATORIES LLC

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

## Certificate of Analysis

Company : Cordilleran Compliance Services  
Address : 4690 Table Mountain Drive  
Suite 200  
Golden, Colorado 80403  
Contact: Mr. James Hix  
Project: **Cordilleran Compliance Services, Inc**

Report Date: January 20, 2009

Client Sample ID: 6–22D  
Sample ID: 221664005

Project: CORD00100  
Client ID: CORD001

| Parameter                  | Qualifier                               | Result | Uncertainty | DL        | RL                | Units | DF | Analyst | Date | Time | Batch      | Method |
|----------------------------|-----------------------------------------|--------|-------------|-----------|-------------------|-------|----|---------|------|------|------------|--------|
| Surrogate/Tracer recovery  | Test                                    | Result | Nominal     | Recovery% | Acceptable Limits |       |    |         |      |      |            |        |
| Potassium Chloride Carrier | GFPC, Chlorine–36 liquid "As Received"  |        |             |           |                   |       |    |         | 99   |      | (25%–125%) |        |
| Strontium Carrier          | GFPC, Sr90, liquid "As Received"        |        |             |           |                   |       |    |         | 71   |      | (25%–125%) |        |
| Technetium–99m Tracer      | Liquid Scint Tc99, Liquid "As Received" |        |             |           |                   |       |    |         | 62   |      | (15%–125%) |        |

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## Certificate of Analysis

Company : Cordilleran Compliance Services  
Address : 4690 Table Mountain Drive  
Suite 200  
Golden, Colorado 80403  
Contact: Mr. James Hix  
Project: **Cordilleran Compliance Services, Inc**

Report Date: January 20, 2009

Client Sample ID: 16-22D  
Sample ID: 221664006  
Matrix: Water  
Collect Date: 17-DEC-08 12:13  
Receive Date: 19-DEC-08  
Collector: Client

Project: CORD00100  
Client ID: CORD001

| Parameter                                      | Qualifier | Result  | Uncertainty | DL   | RL   | Units | DF | Analyst | Date     | Time | Batch  | Method |
|------------------------------------------------|-----------|---------|-------------|------|------|-------|----|---------|----------|------|--------|--------|
| <b>Rad Gamma Spec Analysis</b>                 |           |         |             |      |      |       |    |         |          |      |        |        |
| <i>Gammascpec, Gamma, Liquid "As Received"</i> |           |         |             |      |      |       |    |         |          |      |        |        |
| Actinium-228                                   | U         | 6.57    | +/-10.1     | 16.6 | 20.0 | pCi/L |    | KXG3    | 01/12/09 | 1321 | 830756 | 1      |
| Americium-241                                  | U         | 10.3    | +/-22.4     | 37.9 | 25.0 | pCi/L |    |         |          |      |        |        |
| Antimony-124                                   | U         | 0.498   | +/-5.76     | 9.76 | 5.00 | pCi/L |    |         |          |      |        |        |
| Antimony-125                                   | U         | -6.79   | +/-5.66     | 8.29 | 10.0 | pCi/L |    |         |          |      |        |        |
| Barium-133                                     | U         | -5.81   | +/-2.79     | 3.75 | 5.00 | pCi/L |    |         |          |      |        |        |
| Barium-140                                     | U         | -30.8   | +/-26.3     | 36.6 | 30.0 | pCi/L |    |         |          |      |        |        |
| Beryllium-7                                    | U         | -26     | +/-24.1     | 35.6 | 50.0 | pCi/L |    |         |          |      |        |        |
| Bismuth-212                                    | U         | -3.97   | +/-20.4     | 29.3 | 50.0 | pCi/L |    |         |          |      |        |        |
| Bismuth-214                                    | U         | 6.13    | +/-6.34     | 9.09 | 10.0 | pCi/L |    |         |          |      |        |        |
| Cerium-139                                     | U         | -1.31   | +/-2.20     | 3.71 | 5.00 | pCi/L |    |         |          |      |        |        |
| Cerium-141                                     | U         | -1.39   | +/-6.31     | 8.90 | 10.0 | pCi/L |    |         |          |      |        |        |
| Cerium-144                                     | U         | -2.9    | +/-16.2     | 25.9 | 50.0 | pCi/L |    |         |          |      |        |        |
| Cesium-134                                     | U         | 2.66    | +/-2.31     | 4.37 | 5.00 | pCi/L |    |         |          |      |        |        |
| Cesium-136                                     | U         | -2.31   | +/-11.2     | 18.0 | 15.0 | pCi/L |    |         |          |      |        |        |
| Cesium-137                                     | U         | -1.74   | +/-1.90     | 2.90 | 5.00 | pCi/L |    |         |          |      |        |        |
| Chromium-51                                    | U         | -19.8   | +/-32.4     | 52.2 | 50.0 | pCi/L |    |         |          |      |        |        |
| Cobalt-56                                      | U         | 1.70    | +/-2.33     | 4.23 | 5.00 | pCi/L |    |         |          |      |        |        |
| Cobalt-57                                      | U         | 0.0278  | +/-1.92     | 3.12 | 5.00 | pCi/L |    |         |          |      |        |        |
| Cobalt-58                                      | U         | 1.50    | +/-2.25     | 4.07 | 10.0 | pCi/L |    |         |          |      |        |        |
| Cobalt-60                                      | U         | 1.43    | +/-1.97     | 3.69 | 5.00 | pCi/L |    |         |          |      |        |        |
| Europium-152                                   | U         | 0.715   | +/-5.84     | 9.84 | 20.0 | pCi/L |    |         |          |      |        |        |
| Europium-154                                   | U         | -6.94   | +/-6.17     | 8.75 | 20.0 | pCi/L |    |         |          |      |        |        |
| Europium-155                                   | U         | 0.437   | +/-8.57     | 14.1 | 20.0 | pCi/L |    |         |          |      |        |        |
| Iridium-192                                    | U         | -1.18   | +/-2.44     | 3.96 | 10.0 | pCi/L |    |         |          |      |        |        |
| Iron-59                                        | U         | -4.79   | +/-7.67     | 8.56 | 10.0 | pCi/L |    |         |          |      |        |        |
| Krypton-85                                     | U         | -2410   | +/-690      | 852  |      | pCi/L |    |         |          |      |        |        |
| Lead-210                                       | U         | -315    | +/-648      | 1070 | 750  | pCi/L |    |         |          |      |        |        |
| Lead-212                                       | U         | 0.140   | +/-5.38     | 7.16 | 15.0 | pCi/L |    |         |          |      |        |        |
| Lead-214                                       | U         | 7.30    | +/-5.73     | 9.15 | 10.0 | pCi/L |    |         |          |      |        |        |
| Manganese-54                                   | U         | 0.566   | +/-2.14     | 3.69 | 5.00 | pCi/L |    |         |          |      |        |        |
| Mercury-203                                    | U         | -0.0842 | +/-2.90     | 4.89 | 5.00 | pCi/L |    |         |          |      |        |        |
| Neodymium-147                                  | U         | 63.1    | +/-59.3     | 111  | 100  | pCi/L |    |         |          |      |        |        |
| Neptunium-239                                  | U         | 10.1    | +/-15.1     | 25.4 | 25.0 | pCi/L |    |         |          |      |        |        |
| Niobium-94                                     | U         | -2.03   | +/-2.06     | 3.16 | 5.00 | pCi/L |    |         |          |      |        |        |
| Niobium-95                                     | U         | 3.15    | +/-3.29     | 6.06 | 5.00 | pCi/L |    |         |          |      |        |        |
| Potassium-40                                   |           | 82.8    | +/-39.1     | 32.2 | 100  | pCi/L |    |         |          |      |        |        |
| Promethium-144                                 | U         | -1.15   | +/-2.59     | 3.66 | 5.00 | pCi/L |    |         |          |      |        |        |
| Promethium-146                                 | U         | -0.113  | +/-2.46     | 4.03 | 5.00 | pCi/L |    |         |          |      |        |        |

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## Certificate of Analysis

Company : Cordilleran Compliance Services  
 Address : 4690 Table Mountain Drive  
 Suite 200  
 Golden, Colorado 80403  
 Contact: Mr. James Hix  
 Project: **Cordilleran Compliance Services, Inc**

Report Date: January 20, 2009

Client Sample ID: 16-22D  
 Sample ID: 221664006

Project: CORD00100  
 Client ID: CORD001

| Parameter                                      | Qualifier | Result | Uncertainty | DL    | RL   | Units | DF | Analyst | Date     | Time | Batch  | Method |
|------------------------------------------------|-----------|--------|-------------|-------|------|-------|----|---------|----------|------|--------|--------|
| <b>Rad Gamma Spec Analysis</b>                 |           |        |             |       |      |       |    |         |          |      |        |        |
| <i>Gammascpec, Gamma, Liquid "As Received"</i> |           |        |             |       |      |       |    |         |          |      |        |        |
| Radium-228                                     | U         | 6.57   | +/-10.1     | 16.6  | 20.0 | pCi/L |    |         |          |      |        |        |
| Ruthenium-106                                  | U         | -6.7   | +/-19.6     | 32.5  | 50.0 | pCi/L |    |         |          |      |        |        |
| Silver-110m                                    | U         | -0.317 | +/-1.82     | 3.04  | 5.00 | pCi/L |    |         |          |      |        |        |
| Sodium-22                                      | U         | -2.18  | +/-2.18     | 3.16  | 5.00 | pCi/L |    |         |          |      |        |        |
| Thallium-208                                   | U         | -0.229 | +/-2.73     | 4.30  | 10.0 | pCi/L |    |         |          |      |        |        |
| Thorium-230                                    | U         | 320    | +/-2430     | 2230  | 20.0 | pCi/L |    |         |          |      |        |        |
| Thorium-234                                    | U         | 115    | +/-182      | 293   | 250  | pCi/L |    |         |          |      |        |        |
| Tin-113                                        | U         | -0.121 | +/-3.01     | 4.98  | 10.0 | pCi/L |    |         |          |      |        |        |
| Uranium-235                                    | U         | 10.6   | +/-20.6     | 23.5  | 50.0 | pCi/L |    |         |          |      |        |        |
| Uranium-238                                    | U         | 115    | +/-182      | 293   | 250  | pCi/L |    |         |          |      |        |        |
| Yttrium-88                                     | U         | 0.554  | +/-2.54     | 4.38  | 10.0 | pCi/L |    |         |          |      |        |        |
| Zinc-65                                        | U         | -4.33  | +/-5.20     | 7.61  | 10.0 | pCi/L |    |         |          |      |        |        |
| Zirconium-95                                   | U         | -0.501 | +/-4.21     | 7.01  | 10.0 | pCi/L |    |         |          |      |        |        |
| <b>Rad Gas Flow Proportional Counting</b>      |           |        |             |       |      |       |    |         |          |      |        |        |
| <i>GFPC, Chlorine-36 liquid "As Received"</i>  |           |        |             |       |      |       |    |         |          |      |        |        |
| Chlorine-36                                    | U         | 195    | +/-210      | 353   | 100  | pCi/L |    | BXF1    | 01/16/09 | 1813 | 830299 | 2      |
| <i>GFPC, Gross A/B, liquid "As Received"</i>   |           |        |             |       |      |       |    |         |          |      |        |        |
| Alpha                                          | U         | -40    | +/-27.6     | 56.2  | 5.00 | pCi/L |    | DXF3    | 01/14/09 | 0419 | 830303 | 3      |
| Beta                                           | U         | 0.428  | +/-30.6     | 52.5  | 5.00 | pCi/L |    |         |          |      |        |        |
| <i>GFPC, Sr90, liquid "As Received"</i>        |           |        |             |       |      |       |    |         |          |      |        |        |
| Strontium-90                                   | U         | -0.727 | +/-0.945    | 1.92  | 2.00 | pCi/L |    | JXC5    | 01/13/09 | 1618 | 830293 | 4      |
| <b>Rad Liquid Scintillation Analysis</b>       |           |        |             |       |      |       |    |         |          |      |        |        |
| <i>Liquid Scint Tc99, Liquid "As Received"</i> |           |        |             |       |      |       |    |         |          |      |        |        |
| Technetium-99                                  | U         | 9.98   | +/-17.6     | 29.8  | 50.0 | pCi/L |    | SXL4    | 01/14/09 | 0738 | 830666 | 5      |
| <b>Rad Total Uranium</b>                       |           |        |             |       |      |       |    |         |          |      |        |        |
| <i>KPA, Total U, Liquid "As Received"</i>      |           |        |             |       |      |       |    |         |          |      |        |        |
| Total Uranium                                  |           | 0.394  | +/-0.0727   | 0.267 | 1.00 | ug/L  |    | KXG3    | 01/08/09 | 1427 | 828849 | 6      |

### The following Analytical Methods were performed

| Method | Description                         | Analyst Comments |
|--------|-------------------------------------|------------------|
| 1      | EPA 901.1                           |                  |
| 2      | GL-RAD-A-033                        |                  |
| 3      | EPA 900.0                           |                  |
| 4      | EPA 905.0 Modified                  |                  |
| 5      | DOE EML HASL-300, Tc-02-RC Modified |                  |
| 6      | ASTM D 5174                         |                  |



# GEL LABORATORIES LLC

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## Certificate of Analysis

Company : Cordilleran Compliance Services

Address : 4690 Table Mountain Drive

Suite 200

Golden, Colorado 80403

Contact: Mr. James Hix

Project: **Cordilleran Compliance Services, Inc**

Report Date: January 20, 2009

Client Sample ID: 16-22D  
Sample ID: 221664006

Project: CORD00100  
Client ID: CORD001

| Parameter                  | Qualifier                               | Result | Uncertainty | DL        | RL                | Units | DF | Analyst | Date | Time | Batch      | Method |
|----------------------------|-----------------------------------------|--------|-------------|-----------|-------------------|-------|----|---------|------|------|------------|--------|
| Surrogate/Tracer recovery  | Test                                    | Result | Nominal     | Recovery% | Acceptable Limits |       |    |         |      |      |            |        |
| Potassium Chloride Carrier | GFPC, Chlorine-36 liquid "As Received"  |        |             |           |                   |       |    |         | 101  |      | (25%–125%) |        |
| Strontium Carrier          | GFPC, Sr90, liquid "As Received"        |        |             |           |                   |       |    |         | 73   |      | (25%–125%) |        |
| Technetium-99m Tracer      | Liquid Scint Tc99, Liquid "As Received" |        |             |           |                   |       |    |         | 65   |      | (15%–125%) |        |

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Address : 4690 Table Mountain Drive  
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Golden, Colorado 80403  
Contact: Mr. James Hix  
Project: **Cordilleran Compliance Services, Inc**

Report Date: January 20, 2009

Client Sample ID: 9-22D  
Sample ID: 221664007  
Matrix: Water  
Collect Date: 17-DEC-08 12:39  
Receive Date: 19-DEC-08  
Collector: Client

Project: CORD00100  
Client ID: CORD001

| Parameter                                      | Qualifier | Result | Uncertainty | DL   | RL   | Units | DF | Analyst | Date     | Time | Batch  | Method |
|------------------------------------------------|-----------|--------|-------------|------|------|-------|----|---------|----------|------|--------|--------|
| <b>Rad Gamma Spec Analysis</b>                 |           |        |             |      |      |       |    |         |          |      |        |        |
| <i>Gammascpec, Gamma, Liquid "As Received"</i> |           |        |             |      |      |       |    |         |          |      |        |        |
| Actinium-228                                   | U         | 15.4   | +/-11.2     | 19.4 | 20.0 | pCi/L |    | KXG3    | 01/12/09 | 1322 | 830756 | 1      |
| Americium-241                                  | U         | 7.39   | +/-18.6     | 32.2 | 25.0 | pCi/L |    |         |          |      |        |        |
| Antimony-124                                   | U         | 2.63   | +/-6.77     | 11.9 | 5.00 | pCi/L |    |         |          |      |        |        |
| Antimony-125                                   | U         | 6.80   | +/-6.15     | 11.1 | 10.0 | pCi/L |    |         |          |      |        |        |
| Barium-133                                     | U         | -0.495 | +/-3.25     | 4.73 | 5.00 | pCi/L |    |         |          |      |        |        |
| Barium-140                                     | U         | -28.6  | +/-29.9     | 41.8 | 30.0 | pCi/L |    |         |          |      |        |        |
| Beryllium-7                                    | U         | -0.985 | +/-22.1     | 36.4 | 50.0 | pCi/L |    |         |          |      |        |        |
| Bismuth-212                                    | U         | 9.07   | +/-15.4     | 27.7 | 50.0 | pCi/L |    |         |          |      |        |        |
| Bismuth-214                                    |           | 13.4   | +/-7.26     | 6.60 | 10.0 | pCi/L |    |         |          |      |        |        |
| Cerium-139                                     | U         | -1.57  | +/-2.30     | 3.61 | 5.00 | pCi/L |    |         |          |      |        |        |
| Cerium-141                                     | U         | -1.26  | +/-5.99     | 9.73 | 10.0 | pCi/L |    |         |          |      |        |        |
| Cerium-144                                     | U         | -5.23  | +/-15.5     | 25.0 | 50.0 | pCi/L |    |         |          |      |        |        |
| Cesium-134                                     | U         | 0.316  | +/-2.35     | 4.03 | 5.00 | pCi/L |    |         |          |      |        |        |
| Cesium-136                                     | U         | -1.06  | +/-11.4     | 17.1 | 15.0 | pCi/L |    |         |          |      |        |        |
| Cesium-137                                     | U         | 1.48   | +/-2.00     | 3.66 | 5.00 | pCi/L |    |         |          |      |        |        |
| Chromium-51                                    | U         | -10.5  | +/-31.9     | 52.9 | 50.0 | pCi/L |    |         |          |      |        |        |
| Cobalt-56                                      | U         | 1.85   | +/-2.60     | 4.68 | 5.00 | pCi/L |    |         |          |      |        |        |
| Cobalt-57                                      | U         | 1.26   | +/-2.03     | 3.46 | 5.00 | pCi/L |    |         |          |      |        |        |
| Cobalt-58                                      | U         | -1.54  | +/-2.57     | 4.04 | 10.0 | pCi/L |    |         |          |      |        |        |
| Cobalt-60                                      | U         | 0.778  | +/-1.94     | 3.49 | 5.00 | pCi/L |    |         |          |      |        |        |
| Europium-152                                   | U         | -3.84  | +/-6.50     | 10.5 | 20.0 | pCi/L |    |         |          |      |        |        |
| Europium-154                                   | U         | -0.105 | +/-5.77     | 9.79 | 20.0 | pCi/L |    |         |          |      |        |        |
| Europium-155                                   | U         | -1.91  | +/-8.39     | 13.8 | 20.0 | pCi/L |    |         |          |      |        |        |
| Iridium-192                                    | U         | -1.12  | +/-2.53     | 4.16 | 10.0 | pCi/L |    |         |          |      |        |        |
| Iron-59                                        | U         | -4.67  | +/-5.25     | 7.38 | 10.0 | pCi/L |    |         |          |      |        |        |
| Krypton-85                                     | U         | -684   | +/-667      | 1030 |      | pCi/L |    |         |          |      |        |        |
| Lead-210                                       | U         | 671    | +/-725      | 1300 | 750  | pCi/L |    |         |          |      |        |        |
| Lead-212                                       | U         | 2.30   | +/-5.49     | 7.41 | 15.0 | pCi/L |    |         |          |      |        |        |
| Lead-214                                       | UI        | 0.00   | +/-8.14     | 10.6 | 10.0 | pCi/L |    |         |          |      |        |        |
| Manganese-54                                   | U         | 0.430  | +/-1.93     | 3.33 | 5.00 | pCi/L |    |         |          |      |        |        |
| Mercury-203                                    | U         | 0.113  | +/-3.06     | 5.23 | 5.00 | pCi/L |    |         |          |      |        |        |
| Neodymium-147                                  | U         | 9.87   | +/-71.5     | 119  | 100  | pCi/L |    |         |          |      |        |        |
| Neptunium-239                                  | U         | 0.0329 | +/-14.2     | 23.6 | 25.0 | pCi/L |    |         |          |      |        |        |
| Niobium-94                                     | U         | -0.935 | +/-2.04     | 3.32 | 5.00 | pCi/L |    |         |          |      |        |        |
| Niobium-95                                     | U         | -1.03  | +/-3.21     | 5.25 | 5.00 | pCi/L |    |         |          |      |        |        |
| Potassium-40                                   |           | 66.5   | +/-40.9     | 28.6 | 100  | pCi/L |    |         |          |      |        |        |
| Promethium-144                                 | U         | 0.827  | +/-2.11     | 3.71 | 5.00 | pCi/L |    |         |          |      |        |        |
| Promethium-146                                 | U         | 0.337  | +/-2.80     | 4.68 | 5.00 | pCi/L |    |         |          |      |        |        |

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Golden, Colorado 80403  
Contact: Mr. James Hix  
Project: **Cordilleran Compliance Services, Inc**

Report Date: January 20, 2009

Client Sample ID: 9-22D  
Sample ID: 221664007

Project: CORD00100  
Client ID: CORD001

| Parameter                                      | Qualifier | Result | Uncertainty | DL    | RL   | Units | DF | Analyst | Date     | Time | Batch  | Method |
|------------------------------------------------|-----------|--------|-------------|-------|------|-------|----|---------|----------|------|--------|--------|
| <b>Rad Gamma Spec Analysis</b>                 |           |        |             |       |      |       |    |         |          |      |        |        |
| <i>Gammascpec, Gamma, Liquid "As Received"</i> |           |        |             |       |      |       |    |         |          |      |        |        |
| Radium-228                                     | U         | 15.4   | +/-11.2     | 19.4  | 20.0 | pCi/L |    |         |          |      |        |        |
| Ruthenium-106                                  | U         | 13.8   | +/-18.0     | 33.0  | 50.0 | pCi/L |    |         |          |      |        |        |
| Silver-110m                                    | U         | -1.22  | +/-1.97     | 3.16  | 5.00 | pCi/L |    |         |          |      |        |        |
| Sodium-22                                      | U         | 0.0207 | +/-2.09     | 3.55  | 5.00 | pCi/L |    |         |          |      |        |        |
| Thallium-208                                   | U         | 0.508  | +/-3.47     | 4.40  | 10.0 | pCi/L |    |         |          |      |        |        |
| Thorium-230                                    | UI        | 0.00   | +/-16900    | 1590  | 20.0 | pCi/L |    |         |          |      |        |        |
| Thorium-234                                    | U         | -54.1  | +/-182      | 244   | 250  | pCi/L |    |         |          |      |        |        |
| Tin-113                                        | U         | 0.049  | +/-2.94     | 4.92  | 10.0 | pCi/L |    |         |          |      |        |        |
| Uranium-235                                    | U         | 1.71   | +/-17.9     | 27.5  | 50.0 | pCi/L |    |         |          |      |        |        |
| Uranium-238                                    | U         | -54.1  | +/-182      | 244   | 250  | pCi/L |    |         |          |      |        |        |
| Yttrium-88                                     | U         | 0.548  | +/-2.35     | 4.06  | 10.0 | pCi/L |    |         |          |      |        |        |
| Zinc-65                                        | U         | 1.99   | +/-5.08     | 7.75  | 10.0 | pCi/L |    |         |          |      |        |        |
| Zirconium-95                                   | U         | -1.87  | +/-4.34     | 6.99  | 10.0 | pCi/L |    |         |          |      |        |        |
| <b>Rad Gas Flow Proportional Counting</b>      |           |        |             |       |      |       |    |         |          |      |        |        |
| <i>GFPC, Chlorine-36 liquid "As Received"</i>  |           |        |             |       |      |       |    |         |          |      |        |        |
| Chlorine-36                                    | U         | -28.2  | +/-153      | 267   | 100  | pCi/L |    | BXF1    | 01/16/09 | 1813 | 830299 | 2      |
| <i>GFPC, Gross A/B, liquid "As Received"</i>   |           |        |             |       |      |       |    |         |          |      |        |        |
| Alpha                                          |           | 63.9   | +/-24.7     | 34.2  | 5.00 | pCi/L |    | DXF3    | 01/14/09 | 0419 | 830303 | 3      |
| Beta                                           |           | 58.0   | +/-32.0     | 52.5  | 5.00 | pCi/L |    |         |          |      |        |        |
| <i>GFPC, Sr90, liquid "As Received"</i>        |           |        |             |       |      |       |    |         |          |      |        |        |
| Strontium-90                                   | U         | 0.111  | +/-0.376    | 0.709 | 2.00 | pCi/L |    | JXC5    | 01/19/09 | 0849 | 830293 | 4      |
| <b>Rad Liquid Scintillation Analysis</b>       |           |        |             |       |      |       |    |         |          |      |        |        |
| <i>Liquid Scint Tc99, Liquid "As Received"</i> |           |        |             |       |      |       |    |         |          |      |        |        |
| Technetium-99                                  | U         | 16.0   | +/-17.2     | 28.9  | 50.0 | pCi/L |    | SXL4    | 01/14/09 | 0841 | 830666 | 5      |
| <b>Rad Total Uranium</b>                       |           |        |             |       |      |       |    |         |          |      |        |        |
| <i>KPA, Total U, Liquid "As Received"</i>      |           |        |             |       |      |       |    |         |          |      |        |        |
| Total Uranium                                  |           | 0.710  | +/-0.239    | 0.267 | 1.00 | ug/L  |    | KXG3    | 01/08/09 | 1429 | 828849 | 6      |

### The following Analytical Methods were performed

| Method | Description                         | Analyst Comments |
|--------|-------------------------------------|------------------|
| 1      | EPA 901.1                           |                  |
| 2      | GL-RAD-A-033                        |                  |
| 3      | EPA 900.0                           |                  |
| 4      | EPA 905.0 Modified                  |                  |
| 5      | DOE EML HASL-300, Tc-02-RC Modified |                  |
| 6      | ASTM D 5174                         |                  |

# GEL LABORATORIES LLC

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

## Certificate of Analysis

Company : Cordilleran Compliance Services  
Address : 4690 Table Mountain Drive  
Suite 200  
Golden, Colorado 80403  
Contact: Mr. James Hix  
Project: **Cordilleran Compliance Services, Inc**

Report Date: January 20, 2009

Client Sample ID: 9–22D  
Sample ID: 221664007

Project: CORD00100  
Client ID: CORD001

| Parameter                  | Qualifier                               | Result | Uncertainty | DL        | RL                | Units | DF | Analyst | Date | Time | Batch      | Method |
|----------------------------|-----------------------------------------|--------|-------------|-----------|-------------------|-------|----|---------|------|------|------------|--------|
| Surrogate/Tracer recovery  | Test                                    | Result | Nominal     | Recovery% | Acceptable Limits |       |    |         |      |      |            |        |
| Potassium Chloride Carrier | GFPC, Chlorine–36 liquid "As Received"  |        |             |           |                   |       |    |         | 94   |      | (25%–125%) |        |
| Strontium Carrier          | GFPC, Sr90, liquid "As Received"        |        |             |           |                   |       |    |         | 76   |      | (25%–125%) |        |
| Technetium–99m Tracer      | Liquid Scint Tc99, Liquid "As Received" |        |             |           |                   |       |    |         | 68   |      | (15%–125%) |        |

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## Certificate of Analysis

Company : Cordilleran Compliance Services  
Address : 4690 Table Mountain Drive  
Suite 200  
Golden, Colorado 80403  
Contact: Mr. James Hix  
Project: **Cordilleran Compliance Services, Inc**

Report Date: January 20, 2009

Client Sample ID: 16-22B  
Sample ID: 221664008  
Matrix: Water  
Collect Date: 17-DEC-08 12:54  
Receive Date: 19-DEC-08  
Collector: Client

Project: CORD00100  
Client ID: CORD001

| Parameter                                      | Qualifier | Result   | Uncertainty | DL   | RL   | Units | DF | Analyst | Date     | Time | Batch  | Method |
|------------------------------------------------|-----------|----------|-------------|------|------|-------|----|---------|----------|------|--------|--------|
| <b>Rad Gamma Spec Analysis</b>                 |           |          |             |      |      |       |    |         |          |      |        |        |
| <i>Gammascpec, Gamma, Liquid "As Received"</i> |           |          |             |      |      |       |    |         |          |      |        |        |
| Actinium-228                                   | U         | 3.91     | +/-15.7     | 15.6 | 20.0 | pCi/L |    | KXG3    | 01/12/09 | 1340 | 830756 | 1      |
| Americium-241                                  | U         | 0.459    | +/-11.6     | 17.3 | 25.0 | pCi/L |    |         |          |      |        |        |
| Antimony-124                                   | U         | 1.22     | +/-4.83     | 8.58 | 5.00 | pCi/L |    |         |          |      |        |        |
| Antimony-125                                   | U         | -1.04    | +/-5.60     | 9.02 | 10.0 | pCi/L |    |         |          |      |        |        |
| Barium-133                                     | U         | -0.923   | +/-3.29     | 4.63 | 5.00 | pCi/L |    |         |          |      |        |        |
| Barium-140                                     | U         | 16.6     | +/-25.1     | 44.1 | 30.0 | pCi/L |    |         |          |      |        |        |
| Beryllium-7                                    | U         | -4.13    | +/-20.1     | 34.0 | 50.0 | pCi/L |    |         |          |      |        |        |
| Bismuth-212                                    | U         | -3.67    | +/-15.9     | 25.9 | 50.0 | pCi/L |    |         |          |      |        |        |
| Bismuth-214                                    | U         | 4.67     | +/-5.23     | 8.60 | 10.0 | pCi/L |    |         |          |      |        |        |
| Cerium-139                                     | U         | 0.590    | +/-2.03     | 3.55 | 5.00 | pCi/L |    |         |          |      |        |        |
| Cerium-141                                     | U         | -0.838   | +/-4.96     | 8.54 | 10.0 | pCi/L |    |         |          |      |        |        |
| Cerium-144                                     | U         | -6.11    | +/-14.1     | 22.2 | 50.0 | pCi/L |    |         |          |      |        |        |
| Cesium-134                                     | U         | 1.19     | +/-2.41     | 4.20 | 5.00 | pCi/L |    |         |          |      |        |        |
| Cesium-136                                     | U         | 11.4     | +/-9.13     | 17.6 | 15.0 | pCi/L |    |         |          |      |        |        |
| Cesium-137                                     | U         | 0.177    | +/-2.18     | 3.41 | 5.00 | pCi/L |    |         |          |      |        |        |
| Chromium-51                                    | U         | 6.72     | +/-31.3     | 52.8 | 50.0 | pCi/L |    |         |          |      |        |        |
| Cobalt-56                                      | U         | -0.858   | +/-2.24     | 3.52 | 5.00 | pCi/L |    |         |          |      |        |        |
| Cobalt-57                                      | U         | 0.0899   | +/-1.78     | 2.90 | 5.00 | pCi/L |    |         |          |      |        |        |
| Cobalt-58                                      | U         | -3.17    | +/-2.47     | 3.47 | 10.0 | pCi/L |    |         |          |      |        |        |
| Cobalt-60                                      | U         | 0.181    | +/-2.39     | 3.54 | 5.00 | pCi/L |    |         |          |      |        |        |
| Europium-152                                   | U         | -5.17    | +/-5.88     | 9.11 | 20.0 | pCi/L |    |         |          |      |        |        |
| Europium-154                                   | U         | -0.406   | +/-5.55     | 9.20 | 20.0 | pCi/L |    |         |          |      |        |        |
| Europium-155                                   | U         | -7.3     | +/-7.85     | 11.3 | 20.0 | pCi/L |    |         |          |      |        |        |
| Iridium-192                                    | U         | -0.128   | +/-2.49     | 4.13 | 10.0 | pCi/L |    |         |          |      |        |        |
| Iron-59                                        | U         | -2.27    | +/-4.80     | 7.62 | 10.0 | pCi/L |    |         |          |      |        |        |
| Krypton-85                                     | U         | -1760    | +/-638      | 928  |      | pCi/L |    |         |          |      |        |        |
| Lead-210                                       | U         | 31.4     | +/-347      | 517  | 750  | pCi/L |    |         |          |      |        |        |
| Lead-212                                       | U         | -3.14    | +/-4.74     | 6.62 | 15.0 | pCi/L |    |         |          |      |        |        |
| Lead-214                                       | U         | 3.30     | +/-6.03     | 8.61 | 10.0 | pCi/L |    |         |          |      |        |        |
| Manganese-54                                   | U         | 0.333    | +/-1.84     | 3.10 | 5.00 | pCi/L |    |         |          |      |        |        |
| Mercury-203                                    | U         | 2.44     | +/-2.87     | 5.04 | 5.00 | pCi/L |    |         |          |      |        |        |
| Neodymium-147                                  | U         | -16.7    | +/-58.5     | 97.2 | 100  | pCi/L |    |         |          |      |        |        |
| Neptunium-239                                  | U         | 3.69     | +/-12.9     | 21.3 | 25.0 | pCi/L |    |         |          |      |        |        |
| Niobium-94                                     | U         | 0.251    | +/-1.97     | 3.33 | 5.00 | pCi/L |    |         |          |      |        |        |
| Niobium-95                                     | U         | -1.36    | +/-3.27     | 5.21 | 5.00 | pCi/L |    |         |          |      |        |        |
| Potassium-40                                   | U         | 27.2     | +/-34.0     | 27.3 | 100  | pCi/L |    |         |          |      |        |        |
| Promethium-144                                 | U         | -0.00461 | +/-2.04     | 3.42 | 5.00 | pCi/L |    |         |          |      |        |        |
| Promethium-146                                 | U         | 0.616    | +/-2.29     | 4.02 | 5.00 | pCi/L |    |         |          |      |        |        |

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## Certificate of Analysis

Company : Cordilleran Compliance Services  
 Address : 4690 Table Mountain Drive  
 Suite 200  
 Golden, Colorado 80403  
 Contact: Mr. James Hix  
 Project: **Cordilleran Compliance Services, Inc**

Report Date: January 20, 2009

Client Sample ID: 16–22B  
 Sample ID: 221664008

Project: CORD00100  
 Client ID: CORD001

| Parameter                                      | Qualifier | Result | Uncertainty | DL    | RL   | Units | DF | Analyst | Date     | Time | Batch  | Method |
|------------------------------------------------|-----------|--------|-------------|-------|------|-------|----|---------|----------|------|--------|--------|
| <b>Rad Gamma Spec Analysis</b>                 |           |        |             |       |      |       |    |         |          |      |        |        |
| <i>Gammascpec, Gamma, Liquid "As Received"</i> |           |        |             |       |      |       |    |         |          |      |        |        |
| Radium–228                                     | U         | 3.91   | +/-15.7     | 15.6  | 20.0 | pCi/L |    |         |          |      |        |        |
| Ruthenium–106                                  | U         | 13.6   | +/-17.4     | 31.4  | 50.0 | pCi/L |    |         |          |      |        |        |
| Silver–110m                                    | U         | -1.81  | +/-1.83     | 2.75  | 5.00 | pCi/L |    |         |          |      |        |        |
| Sodium–22                                      | U         | -0.146 | +/-2.00     | 3.31  | 5.00 | pCi/L |    |         |          |      |        |        |
| Thallium–208                                   | U         | -0.272 | +/-2.57     | 3.92  | 10.0 | pCi/L |    |         |          |      |        |        |
| Thorium–230                                    | U         | 802    | +/-5220     | 1300  | 20.0 | pCi/L |    |         |          |      |        |        |
| Thorium–234                                    | U         | 134    | +/-128      | 140   | 250  | pCi/L |    |         |          |      |        |        |
| Tin–113                                        | U         | -0.35  | +/-2.97     | 4.84  | 10.0 | pCi/L |    |         |          |      |        |        |
| Uranium–235                                    | U         | -19.5  | +/-16.4     | 23.2  | 50.0 | pCi/L |    |         |          |      |        |        |
| Uranium–238                                    | U         | 134    | +/-128      | 140   | 250  | pCi/L |    |         |          |      |        |        |
| Yttrium–88                                     | U         | -0.221 | +/-2.39     | 3.97  | 10.0 | pCi/L |    |         |          |      |        |        |
| Zinc–65                                        | U         | -0.378 | +/-4.28     | 7.16  | 10.0 | pCi/L |    |         |          |      |        |        |
| Zirconium–95                                   | U         | 1.72   | +/-4.19     | 7.26  | 10.0 | pCi/L |    |         |          |      |        |        |
| <b>Rad Gas Flow Proportional Counting</b>      |           |        |             |       |      |       |    |         |          |      |        |        |
| <i>GFPC, Chlorine–36 liquid "As Received"</i>  |           |        |             |       |      |       |    |         |          |      |        |        |
| Chlorine–36                                    | U         | -98.4  | +/-152      | 271   | 100  | pCi/L |    | BXF1    | 01/16/09 | 1813 | 830299 | 2      |
| <i>GFPC, Gross A/B, liquid "As Received"</i>   |           |        |             |       |      |       |    |         |          |      |        |        |
| Alpha                                          | U         | 5.88   | +/-16.8     | 30.4  | 5.00 | pCi/L |    | DXF3    | 01/14/09 | 0419 | 830303 | 3      |
| Beta                                           | U         | 15.9   | +/-27.6     | 46.8  | 5.00 | pCi/L |    |         |          |      |        |        |
| <i>GFPC, Sr90, liquid "As Received"</i>        |           |        |             |       |      |       |    |         |          |      |        |        |
| Strontium–90                                   | U         | 0.817  | +/-0.781    | 1.27  | 2.00 | pCi/L |    | JXC5    | 01/13/09 | 1621 | 830293 | 4      |
| <b>Rad Liquid Scintillation Analysis</b>       |           |        |             |       |      |       |    |         |          |      |        |        |
| <i>Liquid Scint Tc99, Liquid "As Received"</i> |           |        |             |       |      |       |    |         |          |      |        |        |
| Technetium–99                                  | U         | 8.00   | +/-17.5     | 29.7  | 50.0 | pCi/L |    | SXL4    | 01/14/09 | 0944 | 830666 | 5      |
| <b>Rad Total Uranium</b>                       |           |        |             |       |      |       |    |         |          |      |        |        |
| <i>KPA, Total U, Liquid "As Received"</i>      |           |        |             |       |      |       |    |         |          |      |        |        |
| Total Uranium                                  |           | 0.548  | +/-0.116    | 0.267 | 1.00 | ug/L  |    | KXG3    | 01/08/09 | 1432 | 828849 | 6      |

### The following Analytical Methods were performed

| Method | Description                         | Analyst Comments |
|--------|-------------------------------------|------------------|
| 1      | EPA 901.1                           |                  |
| 2      | GL–RAD–A–033                        |                  |
| 3      | EPA 900.0                           |                  |
| 4      | EPA 905.0 Modified                  |                  |
| 5      | DOE EML HASL–300, Tc–02–RC Modified |                  |
| 6      | ASTM D 5174                         |                  |

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## Certificate of Analysis

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Suite 200  
Golden, Colorado 80403  
Contact: Mr. James Hix  
Project: **Cordilleran Compliance Services, Inc**

Report Date: January 20, 2009

Client Sample ID: 16–22B  
Sample ID: 221664008

Project: CORD00100  
Client ID: CORD001

| Parameter                  | Qualifier                               | Result | Uncertainty | DL        | RL                | Units | DF | Analyst | Date | Time | Batch      | Method |
|----------------------------|-----------------------------------------|--------|-------------|-----------|-------------------|-------|----|---------|------|------|------------|--------|
| Surrogate/Tracer recovery  | Test                                    | Result | Nominal     | Recovery% | Acceptable Limits |       |    |         |      |      |            |        |
| Potassium Chloride Carrier | GFPC, Chlorine–36 liquid "As Received"  |        |             |           |                   |       |    |         | 98   |      | (25%–125%) |        |
| Strontium Carrier          | GFPC, Sr90, liquid "As Received"        |        |             |           |                   |       |    |         | 74   |      | (25%–125%) |        |
| Technetium–99m Tracer      | Liquid Scint Tc99, Liquid "As Received" |        |             |           |                   |       |    |         | 65   |      | (15%–125%) |        |

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Golden, Colorado 80403  
Contact: Mr. James Hix  
Project: **Cordilleran Compliance Services, Inc**

Report Date: January 20, 2009

Client Sample ID: 9-22B  
Sample ID: 221664009  
Matrix: Water  
Collect Date: 17-DEC-08 13:10  
Receive Date: 19-DEC-08  
Collector: Client

Project: CORD00100  
Client ID: CORD001

| Parameter                                      | Qualifier | Result  | Uncertainty | DL   | RL   | Units | DF | Analyst | Date     | Time | Batch  | Method |
|------------------------------------------------|-----------|---------|-------------|------|------|-------|----|---------|----------|------|--------|--------|
| <b>Rad Gamma Spec Analysis</b>                 |           |         |             |      |      |       |    |         |          |      |        |        |
| <i>Gammascpec, Gamma, Liquid "As Received"</i> |           |         |             |      |      |       |    |         |          |      |        |        |
| Actinium-228                                   | U         | 3.50    | +/-13.1     | 13.4 | 20.0 | pCi/L |    | KXG3    | 01/12/09 | 1343 | 830756 | 1      |
| Americium-241                                  | U         | -2.04   | +/-14.0     | 23.8 | 25.0 | pCi/L |    |         |          |      |        |        |
| Antimony-124                                   | U         | -1.34   | +/-6.06     | 9.96 | 5.00 | pCi/L |    |         |          |      |        |        |
| Antimony-125                                   | U         | 0.293   | +/-6.02     | 10.0 | 10.0 | pCi/L |    |         |          |      |        |        |
| Barium-133                                     | U         | 2.88    | +/-3.30     | 5.24 | 5.00 | pCi/L |    |         |          |      |        |        |
| Barium-140                                     | U         | -11     | +/-28.0     | 46.2 | 30.0 | pCi/L |    |         |          |      |        |        |
| Beryllium-7                                    | U         | -12.8   | +/-23.2     | 36.0 | 50.0 | pCi/L |    |         |          |      |        |        |
| Bismuth-212                                    | U         | 1.58    | +/-20.9     | 31.4 | 50.0 | pCi/L |    |         |          |      |        |        |
| Bismuth-214                                    | U         | 4.50    | +/-5.64     | 9.50 | 10.0 | pCi/L |    |         |          |      |        |        |
| Cerium-139                                     | U         | -0.0792 | +/-2.39     | 3.89 | 5.00 | pCi/L |    |         |          |      |        |        |
| Cerium-141                                     | U         | 4.82    | +/-5.99     | 10.2 | 10.0 | pCi/L |    |         |          |      |        |        |
| Cerium-144                                     | U         | 0.336   | +/-15.8     | 26.1 | 50.0 | pCi/L |    |         |          |      |        |        |
| Cesium-134                                     | U         | 1.17    | +/-2.56     | 4.50 | 5.00 | pCi/L |    |         |          |      |        |        |
| Cesium-136                                     | U         | 12.3    | +/-11.2     | 21.4 | 15.0 | pCi/L |    |         |          |      |        |        |
| Cesium-137                                     | U         | 0.954   | +/-2.30     | 4.05 | 5.00 | pCi/L |    |         |          |      |        |        |
| Chromium-51                                    | U         | 2.18    | +/-37.9     | 64.2 | 50.0 | pCi/L |    |         |          |      |        |        |
| Cobalt-56                                      | U         | 1.17    | +/-2.93     | 4.77 | 5.00 | pCi/L |    |         |          |      |        |        |
| Cobalt-57                                      | U         | 0.490   | +/-2.05     | 3.44 | 5.00 | pCi/L |    |         |          |      |        |        |
| Cobalt-58                                      | U         | -0.297  | +/-2.40     | 3.95 | 10.0 | pCi/L |    |         |          |      |        |        |
| Cobalt-60                                      | U         | -0.113  | +/-2.54     | 4.21 | 5.00 | pCi/L |    |         |          |      |        |        |
| Europium-152                                   | U         | -2.66   | +/-6.75     | 11.0 | 20.0 | pCi/L |    |         |          |      |        |        |
| Europium-154                                   | U         | -2.0    | +/-6.12     | 9.78 | 20.0 | pCi/L |    |         |          |      |        |        |
| Europium-155                                   | U         | -3.37   | +/-8.43     | 13.8 | 20.0 | pCi/L |    |         |          |      |        |        |
| Iridium-192                                    | U         | 2.01    | +/-2.87     | 5.04 | 10.0 | pCi/L |    |         |          |      |        |        |
| Iron-59                                        | U         | -0.772  | +/-6.13     | 10.3 | 10.0 | pCi/L |    |         |          |      |        |        |
| Krypton-85                                     | U         | -2380   | +/-730      | 917  |      | pCi/L |    |         |          |      |        |        |
| Lead-210                                       | U         | 109     | +/-509      | 730  | 750  | pCi/L |    |         |          |      |        |        |
| Lead-212                                       | U         | 0.895   | +/-6.98     | 8.21 | 15.0 | pCi/L |    |         |          |      |        |        |
| Lead-214                                       | U         | 7.77    | +/-8.22     | 10.2 | 10.0 | pCi/L |    |         |          |      |        |        |
| Manganese-54                                   | U         | -2.48   | +/-2.30     | 3.20 | 5.00 | pCi/L |    |         |          |      |        |        |
| Mercury-203                                    | U         | -0.581  | +/-3.29     | 5.55 | 5.00 | pCi/L |    |         |          |      |        |        |
| Neodymium-147                                  | U         | 38.6    | +/-67.7     | 122  | 100  | pCi/L |    |         |          |      |        |        |
| Neptunium-239                                  | U         | 11.3    | +/-14.9     | 25.6 | 25.0 | pCi/L |    |         |          |      |        |        |
| Niobium-94                                     | U         | -0.86   | +/-1.92     | 3.08 | 5.00 | pCi/L |    |         |          |      |        |        |
| Niobium-95                                     | U         | -0.171  | +/-3.46     | 5.78 | 5.00 | pCi/L |    |         |          |      |        |        |
| Potassium-40                                   | UI        | 0.00    | +/-46.5     | 38.9 | 100  | pCi/L |    |         |          |      |        |        |
| Promethium-144                                 | U         | 0.0241  | +/-2.32     | 3.94 | 5.00 | pCi/L |    |         |          |      |        |        |
| Promethium-146                                 | U         | -2.26   | +/-2.77     | 4.20 | 5.00 | pCi/L |    |         |          |      |        |        |



# GEL LABORATORIES LLC

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

## Certificate of Analysis

Company : Cordilleran Compliance Services  
Address : 4690 Table Mountain Drive  
Suite 200  
Golden, Colorado 80403  
Contact: Mr. James Hix  
Project: **Cordilleran Compliance Services, Inc**

Report Date: January 20, 2009

Client Sample ID: 9–22B  
Sample ID: 221664009

Project: CORD00100  
Client ID: CORD001

| Parameter                                      | Qualifier | Result | Uncertainty | DL    | RL   | Units | DF | Analyst | Date     | Time | Batch  | Method |
|------------------------------------------------|-----------|--------|-------------|-------|------|-------|----|---------|----------|------|--------|--------|
| <b>Rad Gamma Spec Analysis</b>                 |           |        |             |       |      |       |    |         |          |      |        |        |
| <i>Gammascpec, Gamma, Liquid "As Received"</i> |           |        |             |       |      |       |    |         |          |      |        |        |
| Radium–228                                     | U         | 3.50   | +/-13.1     | 13.4  | 20.0 | pCi/L |    |         |          |      |        |        |
| Ruthenium–106                                  | U         | 0.667  | +/-25.4     | 33.5  | 50.0 | pCi/L |    |         |          |      |        |        |
| Silver–110m                                    | U         | -0.745 | +/-2.11     | 3.45  | 5.00 | pCi/L |    |         |          |      |        |        |
| Sodium–22                                      | U         | -0.784 | +/-2.19     | 3.49  | 5.00 | pCi/L |    |         |          |      |        |        |
| Thallium–208                                   | U         | 0.057  | +/-4.36     | 4.99  | 10.0 | pCi/L |    |         |          |      |        |        |
| Thorium–230                                    | U         | -1320  | +/-8490     | 1520  | 20.0 | pCi/L |    |         |          |      |        |        |
| Thorium–234                                    | U         | -134   | +/-130      | 193   | 250  | pCi/L |    |         |          |      |        |        |
| Tin–113                                        | U         | -1.36  | +/-3.23     | 5.20  | 10.0 | pCi/L |    |         |          |      |        |        |
| Uranium–235                                    | U         | 16.5   | +/-15.9     | 27.2  | 50.0 | pCi/L |    |         |          |      |        |        |
| Uranium–238                                    | U         | -134   | +/-130      | 193   | 250  | pCi/L |    |         |          |      |        |        |
| Yttrium–88                                     | U         | 2.53   | +/-2.65     | 5.22  | 10.0 | pCi/L |    |         |          |      |        |        |
| Zinc–65                                        | U         | 5.69   | +/-5.18     | 9.85  | 10.0 | pCi/L |    |         |          |      |        |        |
| Zirconium–95                                   | U         | 1.17   | +/-4.75     | 8.19  | 10.0 | pCi/L |    |         |          |      |        |        |
| <b>Rad Gas Flow Proportional Counting</b>      |           |        |             |       |      |       |    |         |          |      |        |        |
| <i>GFPC, Chlorine–36 liquid "As Received"</i>  |           |        |             |       |      |       |    |         |          |      |        |        |
| Chlorine–36                                    | U         | -106   | +/-176      | 310   | 100  | pCi/L |    | BXF1    | 01/16/09 | 1813 | 830299 | 2      |
| <i>GFPC, Gross A/B, liquid "As Received"</i>   |           |        |             |       |      |       |    |         |          |      |        |        |
| Alpha                                          |           | 18.9   | +/-12.9     | 18.9  | 5.00 | pCi/L |    | DXF3    | 01/14/09 | 0420 | 830303 | 3      |
| Beta                                           |           | 41.4   | +/-24.3     | 39.7  | 5.00 | pCi/L |    |         |          |      |        |        |
| <i>GFPC, Sr90, liquid "As Received"</i>        |           |        |             |       |      |       |    |         |          |      |        |        |
| Strontium–90                                   | U         | 0.046  | +/-0.380    | 0.741 | 2.00 | pCi/L |    | JXC5    | 01/19/09 | 0850 | 830293 | 4      |
| <b>Rad Liquid Scintillation Analysis</b>       |           |        |             |       |      |       |    |         |          |      |        |        |
| <i>Liquid Scint Tc99, Liquid "As Received"</i> |           |        |             |       |      |       |    |         |          |      |        |        |
| Technetium–99                                  | U         | 13.1   | +/-20.0     | 33.8  | 50.0 | pCi/L |    | SXL4    | 01/14/09 | 1047 | 830666 | 5      |
| <b>Rad Total Uranium</b>                       |           |        |             |       |      |       |    |         |          |      |        |        |
| <i>KPA, Total U, Liquid "As Received"</i>      |           |        |             |       |      |       |    |         |          |      |        |        |
| Total Uranium                                  |           | 0.452  | +/-0.0781   | 0.267 | 1.00 | ug/L  |    | KXG3    | 01/08/09 | 1435 | 828849 | 6      |

### The following Analytical Methods were performed

| Method | Description                         | Analyst Comments |
|--------|-------------------------------------|------------------|
| 1      | EPA 901.1                           |                  |
| 2      | GL–RAD–A–033                        |                  |
| 3      | EPA 900.0                           |                  |
| 4      | EPA 905.0 Modified                  |                  |
| 5      | DOE EML HASL–300, Tc–02–RC Modified |                  |
| 6      | ASTM D 5174                         |                  |

# GEL LABORATORIES LLC

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## Certificate of Analysis

Company : Cordilleran Compliance Services  
Address : 4690 Table Mountain Drive  
Suite 200  
Golden, Colorado 80403  
Contact: Mr. James Hix  
Project: **Cordilleran Compliance Services, Inc**

Report Date: January 20, 2009

Client Sample ID: 9–22B  
Sample ID: 221664009

Project: CORD00100  
Client ID: CORD001

| Parameter                  | Qualifier                               | Result | Uncertainty | DL      | RL | Units     | DF | Analyst           | Date | Time | Batch | Method |
|----------------------------|-----------------------------------------|--------|-------------|---------|----|-----------|----|-------------------|------|------|-------|--------|
| Surrogate/Tracer recovery  | Test                                    | Result |             | Nominal |    | Recovery% |    | Acceptable Limits |      |      |       |        |
| Potassium Chloride Carrier | GFPC, Chlorine–36 liquid "As Received"  |        |             |         |    | 97        |    | (25%–125%)        |      |      |       |        |
| Strontium Carrier          | GFPC, Sr90, liquid "As Received"        |        |             |         |    | 74        |    | (25%–125%)        |      |      |       |        |
| Technetium–99m Tracer      | Liquid Scint Tc99, Liquid "As Received" |        |             |         |    | 58        |    | (15%–125%)        |      |      |       |        |

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Company : Cordilleran Compliance Services  
Address : 4690 Table Mountain Drive  
Suite 200  
Golden, Colorado 80403  
Contact: Mr. James Hix  
Project: **Cordilleran Compliance Services, Inc**

Report Date: January 20, 2009

Client Sample ID: 10-22D  
Sample ID: 221664010  
Matrix: Water  
Collect Date: 17-DEC-08 13:43  
Receive Date: 19-DEC-08  
Collector: Client

Project: CORD00100  
Client ID: CORD001

| Parameter                                      | Qualifier | Result  | Uncertainty | DL   | RL   | Units | DF | Analyst | Date     | Time | Batch  | Method |
|------------------------------------------------|-----------|---------|-------------|------|------|-------|----|---------|----------|------|--------|--------|
| <b>Rad Gamma Spec Analysis</b>                 |           |         |             |      |      |       |    |         |          |      |        |        |
| <i>Gammascpec, Gamma, Liquid "As Received"</i> |           |         |             |      |      |       |    |         |          |      |        |        |
| Actinium-228                                   | U         | 4.54    | +/-13.1     | 14.8 | 20.0 | pCi/L |    | KXG3    | 01/12/09 | 1344 | 830756 | 1      |
| Americium-241                                  | U         | -14.2   | +/-10.3     | 16.2 | 25.0 | pCi/L |    |         |          |      |        |        |
| Antimony-124                                   | U         | 1.97    | +/-5.08     | 8.98 | 5.00 | pCi/L |    |         |          |      |        |        |
| Antimony-125                                   | U         | -2.24   | +/-5.10     | 8.33 | 10.0 | pCi/L |    |         |          |      |        |        |
| Barium-133                                     | U         | 0.854   | +/-2.95     | 4.49 | 5.00 | pCi/L |    |         |          |      |        |        |
| Barium-140                                     | U         | 9.44    | +/-25.0     | 43.0 | 30.0 | pCi/L |    |         |          |      |        |        |
| Beryllium-7                                    | U         | -26.6   | +/-20.6     | 30.7 | 50.0 | pCi/L |    |         |          |      |        |        |
| Bismuth-212                                    | U         | -6.36   | +/-15.8     | 25.1 | 50.0 | pCi/L |    |         |          |      |        |        |
| Bismuth-214                                    | UI        | 0.00    | +/-5.82     | 8.60 | 10.0 | pCi/L |    |         |          |      |        |        |
| Cerium-139                                     | U         | -0.999  | +/-2.10     | 3.39 | 5.00 | pCi/L |    |         |          |      |        |        |
| Cerium-141                                     | U         | 4.56    | +/-5.36     | 8.65 | 10.0 | pCi/L |    |         |          |      |        |        |
| Cerium-144                                     | U         | 8.17    | +/-15.1     | 24.8 | 50.0 | pCi/L |    |         |          |      |        |        |
| Cesium-134                                     | U         | 1.89    | +/-2.59     | 4.57 | 5.00 | pCi/L |    |         |          |      |        |        |
| Cesium-136                                     | U         | 2.22    | +/-9.38     | 16.4 | 15.0 | pCi/L |    |         |          |      |        |        |
| Cesium-137                                     | U         | 0.880   | +/-1.98     | 3.43 | 5.00 | pCi/L |    |         |          |      |        |        |
| Chromium-51                                    | U         | -2.33   | +/-27.8     | 47.3 | 50.0 | pCi/L |    |         |          |      |        |        |
| Cobalt-56                                      | U         | -1.11   | +/-2.16     | 3.49 | 5.00 | pCi/L |    |         |          |      |        |        |
| Cobalt-57                                      | U         | -1.69   | +/-1.79     | 2.85 | 5.00 | pCi/L |    |         |          |      |        |        |
| Cobalt-58                                      | U         | -0.475  | +/-3.02     | 4.59 | 10.0 | pCi/L |    |         |          |      |        |        |
| Cobalt-60                                      | U         | 0.614   | +/-2.11     | 3.66 | 5.00 | pCi/L |    |         |          |      |        |        |
| Europium-152                                   | U         | 1.92    | +/-6.46     | 9.84 | 20.0 | pCi/L |    |         |          |      |        |        |
| Europium-154                                   | U         | -0.831  | +/-5.66     | 9.30 | 20.0 | pCi/L |    |         |          |      |        |        |
| Europium-155                                   | U         | -5.61   | +/-7.31     | 11.8 | 20.0 | pCi/L |    |         |          |      |        |        |
| Iridium-192                                    | U         | -0.247  | +/-2.15     | 3.65 | 10.0 | pCi/L |    |         |          |      |        |        |
| Iron-59                                        | U         | -4.25   | +/-5.07     | 7.61 | 10.0 | pCi/L |    |         |          |      |        |        |
| Krypton-85                                     | U         | -1860   | +/-607      | 825  |      | pCi/L |    |         |          |      |        |        |
| Lead-210                                       | U         | 203     | +/-281      | 313  | 750  | pCi/L |    |         |          |      |        |        |
| Lead-212                                       | U         | 2.26    | +/-6.91     | 7.37 | 15.0 | pCi/L |    |         |          |      |        |        |
| Lead-214                                       | U         | 6.08    | +/-8.04     | 8.74 | 10.0 | pCi/L |    |         |          |      |        |        |
| Manganese-54                                   | U         | 1.04    | +/-1.88     | 3.41 | 5.00 | pCi/L |    |         |          |      |        |        |
| Mercury-203                                    | U         | 1.20    | +/-2.83     | 4.98 | 5.00 | pCi/L |    |         |          |      |        |        |
| Neodymium-147                                  | U         | -37.3   | +/-67.5     | 108  | 100  | pCi/L |    |         |          |      |        |        |
| Neptunium-239                                  | U         | 3.23    | +/-13.1     | 22.2 | 25.0 | pCi/L |    |         |          |      |        |        |
| Niobium-94                                     | U         | 0.0473  | +/-1.70     | 2.83 | 5.00 | pCi/L |    |         |          |      |        |        |
| Niobium-95                                     | U         | 0.447   | +/-3.14     | 5.24 | 5.00 | pCi/L |    |         |          |      |        |        |
| Potassium-40                                   | U         | 25.0    | +/-40.3     | 31.7 | 100  | pCi/L |    |         |          |      |        |        |
| Promethium-144                                 | U         | -0.0712 | +/-1.89     | 3.12 | 5.00 | pCi/L |    |         |          |      |        |        |
| Promethium-146                                 | U         | 0.0691  | +/-2.46     | 4.16 | 5.00 | pCi/L |    |         |          |      |        |        |

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## Certificate of Analysis

Company : Cordilleran Compliance Services  
 Address : 4690 Table Mountain Drive  
 Suite 200  
 Golden, Colorado 80403  
 Contact: Mr. James Hix  
 Project: **Cordilleran Compliance Services, Inc**

Report Date: January 20, 2009

Client Sample ID: 10-22D  
 Sample ID: 221664010

Project: CORD00100  
 Client ID: CORD001

| Parameter                                      | Qualifier | Result | Uncertainty | DL    | RL   | Units | DF | Analyst | Date     | Time | Batch  | Method |
|------------------------------------------------|-----------|--------|-------------|-------|------|-------|----|---------|----------|------|--------|--------|
| <b>Rad Gamma Spec Analysis</b>                 |           |        |             |       |      |       |    |         |          |      |        |        |
| <i>Gammascpec, Gamma, Liquid "As Received"</i> |           |        |             |       |      |       |    |         |          |      |        |        |
| Radium-228                                     | U         | 4.54   | +/-13.1     | 14.8  | 20.0 | pCi/L |    |         |          |      |        |        |
| Ruthenium-106                                  | U         | -9.2   | +/-16.1     | 25.1  | 50.0 | pCi/L |    |         |          |      |        |        |
| Silver-110m                                    | U         | 0.543  | +/-1.93     | 3.30  | 5.00 | pCi/L |    |         |          |      |        |        |
| Sodium-22                                      | U         | -0.352 | +/-2.03     | 3.32  | 5.00 | pCi/L |    |         |          |      |        |        |
| Thallium-208                                   | U         | 1.83   | +/-2.79     | 4.39  | 10.0 | pCi/L |    |         |          |      |        |        |
| Thorium-230                                    | U         | 638    | +/-4180     | 1200  | 20.0 | pCi/L |    |         |          |      |        |        |
| Thorium-234                                    | U         | 22.0   | +/-104      | 154   | 250  | pCi/L |    |         |          |      |        |        |
| Tin-113                                        | U         | 1.61   | +/-2.62     | 4.65  | 10.0 | pCi/L |    |         |          |      |        |        |
| Uranium-235                                    | U         | -10.2  | +/-17.2     | 23.2  | 50.0 | pCi/L |    |         |          |      |        |        |
| Uranium-238                                    | U         | 22.0   | +/-104      | 154   | 250  | pCi/L |    |         |          |      |        |        |
| Yttrium-88                                     | U         | -3.52  | +/-2.68     | 3.56  | 10.0 | pCi/L |    |         |          |      |        |        |
| Zinc-65                                        | U         | -0.907 | +/-4.16     | 6.84  | 10.0 | pCi/L |    |         |          |      |        |        |
| Zirconium-95                                   | U         | -1.39  | +/-4.23     | 6.71  | 10.0 | pCi/L |    |         |          |      |        |        |
| <b>Rad Gas Flow Proportional Counting</b>      |           |        |             |       |      |       |    |         |          |      |        |        |
| <i>GFPC, Chlorine-36 liquid "As Received"</i>  |           |        |             |       |      |       |    |         |          |      |        |        |
| Chlorine-36                                    | U         | -143   | +/-154      | 278   | 100  | pCi/L |    | BXF1    | 01/16/09 | 1814 | 830299 | 2      |
| <i>GFPC, Gross A/B, liquid "As Received"</i>   |           |        |             |       |      |       |    |         |          |      |        |        |
| Alpha                                          | U         | 17.7   | +/-21.6     | 36.5  | 5.00 | pCi/L |    | DXF3    | 01/14/09 | 0420 | 830303 | 3      |
| Beta                                           |           | 51.3   | +/-28.2     | 46.2  | 5.00 | pCi/L |    |         |          |      |        |        |
| <i>GFPC, Sr90, liquid "As Received"</i>        |           |        |             |       |      |       |    |         |          |      |        |        |
| Strontium-90                                   | U         | 0.381  | +/-0.971    | 1.73  | 2.00 | pCi/L |    | JXC5    | 01/13/09 | 1621 | 830293 | 4      |
| <b>Rad Liquid Scintillation Analysis</b>       |           |        |             |       |      |       |    |         |          |      |        |        |
| <i>Liquid Scint Tc99, Liquid "As Received"</i> |           |        |             |       |      |       |    |         |          |      |        |        |
| Technetium-99                                  | U         | -8.35  | +/-17.0     | 29.6  | 50.0 | pCi/L |    | SXL4    | 01/14/09 | 1150 | 830666 | 5      |
| <b>Rad Total Uranium</b>                       |           |        |             |       |      |       |    |         |          |      |        |        |
| <i>KPA, Total U, Liquid "As Received"</i>      |           |        |             |       |      |       |    |         |          |      |        |        |
| Total Uranium                                  | U         | 0.00   | +/-0.00     | 0.267 | 1.00 | ug/L  |    | KXG3    | 01/08/09 | 1437 | 828849 | 6      |

### The following Analytical Methods were performed

| Method | Description                         | Analyst Comments |
|--------|-------------------------------------|------------------|
| 1      | EPA 901.1                           |                  |
| 2      | GL-RAD-A-033                        |                  |
| 3      | EPA 900.0                           |                  |
| 4      | EPA 905.0 Modified                  |                  |
| 5      | DOE EML HASL-300, Tc-02-RC Modified |                  |
| 6      | ASTM D 5174                         |                  |

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## Certificate of Analysis

Company : Cordilleran Compliance Services

Address : 4690 Table Mountain Drive

Suite 200

Golden, Colorado 80403

Contact: Mr. James Hix

Project: **Cordilleran Compliance Services, Inc**

Report Date: January 20, 2009

Client Sample ID: 10-22D  
Sample ID: 221664010

Project: CORD00100  
Client ID: CORD001

| Parameter                  | Qualifier                               | Result | Uncertainty | DL        | RL                | Units | DF | Analyst | Date | Time | Batch      | Method |
|----------------------------|-----------------------------------------|--------|-------------|-----------|-------------------|-------|----|---------|------|------|------------|--------|
| Surrogate/Tracer recovery  | Test                                    | Result | Nominal     | Recovery% | Acceptable Limits |       |    |         |      |      |            |        |
| Potassium Chloride Carrier | GFPC, Chlorine-36 liquid "As Received"  |        |             |           |                   |       |    |         | 93   |      | (25%–125%) |        |
| Strontium Carrier          | GFPC, Sr90, liquid "As Received"        |        |             |           |                   |       |    |         | 72   |      | (25%–125%) |        |
| Technetium-99m Tracer      | Liquid Scint Tc99, Liquid "As Received" |        |             |           |                   |       |    |         | 66   |      | (15%–125%) |        |

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Address : 4690 Table Mountain Drive  
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Golden, Colorado 80403  
Contact: Mr. James Hix  
Project: **Cordilleran Compliance Services, Inc**

Report Date: January 20, 2009

Client Sample ID: 15-22B  
Sample ID: 221664011  
Matrix: Water  
Collect Date: 17-DEC-08 13:58  
Receive Date: 19-DEC-08  
Collector: Client

Project: CORD00100  
Client ID: CORD001

| Parameter                                      | Qualifier | Result | Uncertainty | DL   | RL   | Units | DF | Analyst | Date     | Time | Batch  | Method |
|------------------------------------------------|-----------|--------|-------------|------|------|-------|----|---------|----------|------|--------|--------|
| <b>Rad Gamma Spec Analysis</b>                 |           |        |             |      |      |       |    |         |          |      |        |        |
| <i>Gammascpec, Gamma, Liquid "As Received"</i> |           |        |             |      |      |       |    |         |          |      |        |        |
| Actinium-228                                   | U         | 11.6   | +/-13.5     | 15.6 | 20.0 | pCi/L |    | KXG3    | 01/12/09 | 1344 | 830756 | 1      |
| Americium-241                                  | U         | 7.47   | +/-10.9     | 16.8 | 25.0 | pCi/L |    |         |          |      |        |        |
| Antimony-124                                   | U         | -0.702 | +/-4.39     | 7.17 | 5.00 | pCi/L |    |         |          |      |        |        |
| Antimony-125                                   | U         | 3.92   | +/-4.53     | 8.24 | 10.0 | pCi/L |    |         |          |      |        |        |
| Barium-133                                     | U         | -0.491 | +/-2.58     | 3.86 | 5.00 | pCi/L |    |         |          |      |        |        |
| Barium-140                                     | U         | 11.4   | +/-23.0     | 40.0 | 30.0 | pCi/L |    |         |          |      |        |        |
| Beryllium-7                                    | U         | -4.52  | +/-18.9     | 31.4 | 50.0 | pCi/L |    |         |          |      |        |        |
| Bismuth-212                                    | U         | 9.62   | +/-15.4     | 25.6 | 50.0 | pCi/L |    |         |          |      |        |        |
| Bismuth-214                                    | UI        | 0.00   | +/-9.06     | 9.55 | 10.0 | pCi/L |    |         |          |      |        |        |
| Cerium-139                                     | U         | -0.276 | +/-1.82     | 3.05 | 5.00 | pCi/L |    |         |          |      |        |        |
| Cerium-141                                     | U         | -2.44  | +/-4.74     | 7.85 | 10.0 | pCi/L |    |         |          |      |        |        |
| Cerium-144                                     | U         | 0.159  | +/-12.9     | 22.1 | 50.0 | pCi/L |    |         |          |      |        |        |
| Cesium-134                                     | U         | 0.486  | +/-2.26     | 3.96 | 5.00 | pCi/L |    |         |          |      |        |        |
| Cesium-136                                     | U         | 3.53   | +/-7.90     | 14.1 | 15.0 | pCi/L |    |         |          |      |        |        |
| Cesium-137                                     | U         | -0.404 | +/-1.89     | 3.05 | 5.00 | pCi/L |    |         |          |      |        |        |
| Chromium-51                                    | U         | 29.9   | +/-28.9     | 50.1 | 50.0 | pCi/L |    |         |          |      |        |        |
| Cobalt-56                                      | U         | -1.25  | +/-2.00     | 3.17 | 5.00 | pCi/L |    |         |          |      |        |        |
| Cobalt-57                                      | U         | -1.98  | +/-1.65     | 2.66 | 5.00 | pCi/L |    |         |          |      |        |        |
| Cobalt-58                                      | U         | -0.199 | +/-2.21     | 3.77 | 10.0 | pCi/L |    |         |          |      |        |        |
| Cobalt-60                                      | U         | -1.08  | +/-2.05     | 3.10 | 5.00 | pCi/L |    |         |          |      |        |        |
| Europium-152                                   | U         | -0.912 | +/-5.19     | 8.87 | 20.0 | pCi/L |    |         |          |      |        |        |
| Europium-154                                   | U         | 4.68   | +/-4.60     | 8.80 | 20.0 | pCi/L |    |         |          |      |        |        |
| Europium-155                                   | U         | 3.48   | +/-6.44     | 11.4 | 20.0 | pCi/L |    |         |          |      |        |        |
| Iridium-192                                    | U         | -1.46  | +/-2.36     | 3.65 | 10.0 | pCi/L |    |         |          |      |        |        |
| Iron-59                                        | U         | -2.82  | +/-4.51     | 6.85 | 10.0 | pCi/L |    |         |          |      |        |        |
| Krypton-85                                     | U         | -2170  | +/-593      | 765  |      | pCi/L |    |         |          |      |        |        |
| Lead-210                                       | U         | 167    | +/-559      | 402  | 750  | pCi/L |    |         |          |      |        |        |
| Lead-212                                       |           | 10.3   | +/-7.14     | 5.06 | 15.0 | pCi/L |    |         |          |      |        |        |
| Lead-214                                       |           | 9.35   | +/-5.95     | 7.02 | 10.0 | pCi/L |    |         |          |      |        |        |
| Manganese-54                                   | U         | -0.68  | +/-1.87     | 3.08 | 5.00 | pCi/L |    |         |          |      |        |        |
| Mercury-203                                    | U         | -1.68  | +/-2.70     | 4.22 | 5.00 | pCi/L |    |         |          |      |        |        |
| Neodymium-147                                  | U         | 13.0   | +/-54.9     | 94.3 | 100  | pCi/L |    |         |          |      |        |        |
| Neptunium-239                                  | U         | 1.78   | +/-12.0     | 20.7 | 25.0 | pCi/L |    |         |          |      |        |        |
| Niobium-94                                     | U         | 1.51   | +/-1.56     | 2.83 | 5.00 | pCi/L |    |         |          |      |        |        |
| Niobium-95                                     | U         | -0.704 | +/-3.12     | 4.82 | 5.00 | pCi/L |    |         |          |      |        |        |
| Potassium-40                                   |           | 50.2   | +/-34.7     | 28.5 | 100  | pCi/L |    |         |          |      |        |        |
| Promethium-144                                 | U         | -0.953 | +/-1.73     | 2.67 | 5.00 | pCi/L |    |         |          |      |        |        |
| Promethium-146                                 | U         | -0.987 | +/-2.17     | 3.54 | 5.00 | pCi/L |    |         |          |      |        |        |

# GEL LABORATORIES LLC

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

## Certificate of Analysis

Company : Cordilleran Compliance Services  
 Address : 4690 Table Mountain Drive  
 Suite 200  
 Golden, Colorado 80403  
 Contact: Mr. James Hix  
 Project: **Cordilleran Compliance Services, Inc**

Report Date: January 20, 2009

Client Sample ID: 15–22B  
 Sample ID: 221664011

Project: CORD00100  
 Client ID: CORD001

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

### Rad Gamma Spec Analysis

*Gammascpec, Gamma, Liquid "As Received"*

|               |   |        |         |      |      |       |  |  |  |  |  |  |
|---------------|---|--------|---------|------|------|-------|--|--|--|--|--|--|
| Radium–228    | U | 11.6   | +/-13.5 | 15.6 | 20.0 | pCi/L |  |  |  |  |  |  |
| Ruthenium–106 | U | 9.07   | +/-15.5 | 27.2 | 50.0 | pCi/L |  |  |  |  |  |  |
| Silver–110m   | U | 0.491  | +/-1.54 | 2.64 | 5.00 | pCi/L |  |  |  |  |  |  |
| Sodium–22     | U | 1.63   | +/-1.64 | 3.15 | 5.00 | pCi/L |  |  |  |  |  |  |
| Thallium–208  | U | -2.09  | +/-2.68 | 4.06 | 10.0 | pCi/L |  |  |  |  |  |  |
| Thorium–230   | U | 982    | +/-6300 | 1140 | 20.0 | pCi/L |  |  |  |  |  |  |
| Thorium–234   | U | 12.4   | +/-96.8 | 161  | 250  | pCi/L |  |  |  |  |  |  |
| Tin–113       | U | 0.852  | +/-2.49 | 4.38 | 10.0 | pCi/L |  |  |  |  |  |  |
| Uranium–235   | U | -1.93  | +/-15.6 | 22.3 | 50.0 | pCi/L |  |  |  |  |  |  |
| Uranium–238   | U | 12.4   | +/-96.8 | 126  | 250  | pCi/L |  |  |  |  |  |  |
| Yttrium–88    | U | 0.0255 | +/-2.33 | 3.91 | 10.0 | pCi/L |  |  |  |  |  |  |
| Zinc–65       | U | -6.29  | +/-4.14 | 5.42 | 10.0 | pCi/L |  |  |  |  |  |  |
| Zirconium–95  | U | -1.48  | +/-3.67 | 5.66 | 10.0 | pCi/L |  |  |  |  |  |  |

### Rad Gas Flow Proportional Counting

*GFPC, Gross A/B, liquid "As Received"*

|       |   |      |         |      |      |       |  |      |          |      |        |   |
|-------|---|------|---------|------|------|-------|--|------|----------|------|--------|---|
| Alpha | U | 13.0 | +/-18.3 | 31.5 | 5.00 | pCi/L |  | DXF3 | 01/14/09 | 0419 | 830303 | 2 |
| Beta  | U | 9.69 | +/-26.9 | 45.8 | 5.00 | pCi/L |  |      |          |      |        |   |

*GFPC, Sr90, liquid "As Received"*

|              |   |        |          |       |      |       |  |      |          |      |        |   |
|--------------|---|--------|----------|-------|------|-------|--|------|----------|------|--------|---|
| Strontium–90 | U | 0.0102 | +/-0.323 | 0.561 | 2.00 | pCi/L |  | JXC5 | 01/14/09 | 1934 | 830293 | 3 |
|--------------|---|--------|----------|-------|------|-------|--|------|----------|------|--------|---|

### Rad Liquid Scintillation Analysis

*Liquid Scint Tc99, Liquid "As Received"*

|               |   |      |         |      |      |       |  |      |          |      |        |   |
|---------------|---|------|---------|------|------|-------|--|------|----------|------|--------|---|
| Technetium–99 | U | 3.82 | +/-16.9 | 28.9 | 50.0 | pCi/L |  | SXL4 | 01/14/09 | 1253 | 830666 | 4 |
|---------------|---|------|---------|------|------|-------|--|------|----------|------|--------|---|

### Rad Total Uranium

*KPA, Total U, Liquid "As Received"*

|               |   |      |         |       |      |      |  |      |          |      |        |   |
|---------------|---|------|---------|-------|------|------|--|------|----------|------|--------|---|
| Total Uranium | U | 0.00 | +/-0.00 | 0.267 | 1.00 | ug/L |  | KXG3 | 01/08/09 | 1440 | 828849 | 5 |
|---------------|---|------|---------|-------|------|------|--|------|----------|------|--------|---|

### The following Analytical Methods were performed

| Method | Description                         | Analyst Comments |
|--------|-------------------------------------|------------------|
| 1      | EPA 901.1                           |                  |
| 2      | EPA 900.0                           |                  |
| 3      | EPA 905.0 Modified                  |                  |
| 4      | DOE EML HASL–300, Tc–02–RC Modified |                  |
| 5      | ASTM D 5174                         |                  |

| Surrogate/Tracer recovery | Test                                    | Result | Nominal | Recovery% | Acceptable Limits |
|---------------------------|-----------------------------------------|--------|---------|-----------|-------------------|
| Strontium Carrier         | GFPC, Sr90, liquid "As Received"        |        |         | 71        | (25%–125%)        |
| Technetium–99m Tracer     | Liquid Scint Tc99, Liquid "As Received" |        |         | 68        | (15%–125%)        |

# GEL LABORATORIES LLC

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## Certificate of Analysis

Company : Cordilleran Compliance Services  
Address : 4690 Table Mountain Drive  
Suite 200  
Golden, Colorado 80403  
Contact: Mr. James Hix  
Project: **Cordilleran Compliance Services, Inc**

Report Date: January 20, 2009

Client Sample ID: 15-22D  
Sample ID: 221664012  
Matrix: Water  
Collect Date: 17-DEC-08 14:35  
Receive Date: 19-DEC-08  
Collector: Client

Project: CORD00100  
Client ID: CORD001

| Parameter                                      | Qualifier | Result  | Uncertainty | DL   | RL   | Units | DF | Analyst | Date     | Time | Batch  | Method |
|------------------------------------------------|-----------|---------|-------------|------|------|-------|----|---------|----------|------|--------|--------|
| <b>Rad Gamma Spec Analysis</b>                 |           |         |             |      |      |       |    |         |          |      |        |        |
| <i>Gammascpec, Gamma, Liquid "As Received"</i> |           |         |             |      |      |       |    |         |          |      |        |        |
| Actinium-228                                   | U         | 12.0    | +/-11.2     | 20.5 | 20.0 | pCi/L |    | KXG3    | 01/12/09 | 1344 | 830756 | 1      |
| Americium-241                                  | U         | -0.142  | +/-4.48     | 7.02 | 25.0 | pCi/L |    |         |          |      |        |        |
| Antimony-124                                   | U         | -2.69   | +/-6.97     | 10.9 | 5.00 | pCi/L |    |         |          |      |        |        |
| Antimony-125                                   | U         | 4.85    | +/-6.22     | 11.2 | 10.0 | pCi/L |    |         |          |      |        |        |
| Barium-133                                     | U         | -0.0766 | +/-2.98     | 4.49 | 5.00 | pCi/L |    |         |          |      |        |        |
| Barium-140                                     | U         | 2.77    | +/-30.1     | 50.6 | 30.0 | pCi/L |    |         |          |      |        |        |
| Beryllium-7                                    | U         | 20.2    | +/-24.1     | 43.5 | 50.0 | pCi/L |    |         |          |      |        |        |
| Bismuth-212                                    | U         | 26.3    | +/-18.0     | 35.1 | 50.0 | pCi/L |    |         |          |      |        |        |
| Bismuth-214                                    | U         | 9.50    | +/-7.94     | 10.7 | 10.0 | pCi/L |    |         |          |      |        |        |
| Cerium-139                                     | U         | -1.28   | +/-1.91     | 3.07 | 5.00 | pCi/L |    |         |          |      |        |        |
| Cerium-141                                     | U         | -1.79   | +/-4.80     | 7.89 | 10.0 | pCi/L |    |         |          |      |        |        |
| Cerium-144                                     | U         | 5.60    | +/-12.3     | 21.3 | 50.0 | pCi/L |    |         |          |      |        |        |
| Cesium-134                                     | U         | 1.15    | +/-3.03     | 5.38 | 5.00 | pCi/L |    |         |          |      |        |        |
| Cesium-136                                     | U         | -8.74   | +/-11.6     | 17.3 | 15.0 | pCi/L |    |         |          |      |        |        |
| Cesium-137                                     | U         | -0.984  | +/-2.60     | 4.08 | 5.00 | pCi/L |    |         |          |      |        |        |
| Chromium-51                                    | U         | -21.6   | +/-30.3     | 49.7 | 50.0 | pCi/L |    |         |          |      |        |        |
| Cobalt-56                                      | U         | -0.701  | +/-2.79     | 4.62 | 5.00 | pCi/L |    |         |          |      |        |        |
| Cobalt-57                                      | U         | 0.871   | +/-1.60     | 2.79 | 5.00 | pCi/L |    |         |          |      |        |        |
| Cobalt-58                                      | U         | -1.25   | +/-2.60     | 4.17 | 10.0 | pCi/L |    |         |          |      |        |        |
| Cobalt-60                                      | U         | 2.54    | +/-2.68     | 5.02 | 5.00 | pCi/L |    |         |          |      |        |        |
| Europium-152                                   | U         | 0.504   | +/-5.75     | 9.93 | 20.0 | pCi/L |    |         |          |      |        |        |
| Europium-154                                   | U         | -3.87   | +/-7.08     | 10.6 | 20.0 | pCi/L |    |         |          |      |        |        |
| Europium-155                                   | U         | -1.64   | +/-6.89     | 10.9 | 20.0 | pCi/L |    |         |          |      |        |        |
| Iridium-192                                    | U         | 0.779   | +/-2.31     | 4.08 | 10.0 | pCi/L |    |         |          |      |        |        |
| Iron-59                                        | U         | 6.92    | +/-5.60     | 11.0 | 10.0 | pCi/L |    |         |          |      |        |        |
| Krypton-85                                     | U         | -1930   | +/-731      | 1000 |      | pCi/L |    |         |          |      |        |        |
| Lead-210                                       | U         | 12.0    | +/-70.6     | 64.2 | 750  | pCi/L |    |         |          |      |        |        |
| Lead-212                                       | U         | 0.159   | +/-4.85     | 8.08 | 15.0 | pCi/L |    |         |          |      |        |        |
| Lead-214                                       | UI        | 0.00    | +/-8.02     | 6.97 | 10.0 | pCi/L |    |         |          |      |        |        |
| Manganese-54                                   | U         | 0.390   | +/-2.43     | 4.22 | 5.00 | pCi/L |    |         |          |      |        |        |
| Mercury-203                                    | U         | 1.31    | +/-3.31     | 5.50 | 5.00 | pCi/L |    |         |          |      |        |        |
| Neodymium-147                                  | U         | 29.0    | +/-66.7     | 116  | 100  | pCi/L |    |         |          |      |        |        |
| Neptunium-239                                  | U         | 2.15    | +/-11.1     | 18.9 | 25.0 | pCi/L |    |         |          |      |        |        |
| Niobium-94                                     | U         | 0.0469  | +/-2.39     | 3.92 | 5.00 | pCi/L |    |         |          |      |        |        |
| Niobium-95                                     | U         | 1.07    | +/-3.84     | 6.76 | 5.00 | pCi/L |    |         |          |      |        |        |
| Potassium-40                                   |           | 85.9    | +/-38.5     | 43.6 | 100  | pCi/L |    |         |          |      |        |        |
| Promethium-144                                 | U         | -0.672  | +/-2.66     | 4.23 | 5.00 | pCi/L |    |         |          |      |        |        |
| Promethium-146                                 | U         | -0.531  | +/-3.06     | 4.76 | 5.00 | pCi/L |    |         |          |      |        |        |



# GEL LABORATORIES LLC

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## Certificate of Analysis

Company : Cordilleran Compliance Services  
 Address : 4690 Table Mountain Drive  
 Suite 200  
 Golden, Colorado 80403  
 Contact: Mr. James Hix  
 Project: **Cordilleran Compliance Services, Inc**

Report Date: January 20, 2009

Client Sample ID: 15–22D  
 Sample ID: 221664012

Project: CORD00100  
 Client ID: CORD001

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

### Rad Gamma Spec Analysis

*Gammascpec, Gamma, Liquid "As Received"*

|               |   |        |         |      |      |       |  |  |  |  |  |  |
|---------------|---|--------|---------|------|------|-------|--|--|--|--|--|--|
| Radium–228    | U | 12.0   | +/-11.2 | 20.5 | 20.0 | pCi/L |  |  |  |  |  |  |
| Ruthenium–106 | U | 9.98   | +/-22.1 | 38.1 | 50.0 | pCi/L |  |  |  |  |  |  |
| Silver–110m   | U | -0.107 | +/-2.40 | 3.92 | 5.00 | pCi/L |  |  |  |  |  |  |
| Sodium–22     | U | -1.41  | +/-2.55 | 3.80 | 5.00 | pCi/L |  |  |  |  |  |  |
| Thallium–208  | U | 3.03   | +/-4.98 | 5.31 | 10.0 | pCi/L |  |  |  |  |  |  |
| Thorium–230   | U | 171    | +/-1170 | 696  | 20.0 | pCi/L |  |  |  |  |  |  |
| Thorium–234   | U | 19.7   | +/-56.9 | 66.7 | 250  | pCi/L |  |  |  |  |  |  |
| Tin–113       | U | 1.83   | +/-2.92 | 5.21 | 10.0 | pCi/L |  |  |  |  |  |  |
| Uranium–235   | U | -22.2  | +/-15.8 | 20.9 | 50.0 | pCi/L |  |  |  |  |  |  |
| Uranium–238   | U | 19.7   | +/-56.9 | 66.7 | 250  | pCi/L |  |  |  |  |  |  |
| Yttrium–88    | U | -2.24  | +/-3.26 | 4.69 | 10.0 | pCi/L |  |  |  |  |  |  |
| Zinc–65       | U | 2.56   | +/-6.13 | 10.7 | 10.0 | pCi/L |  |  |  |  |  |  |
| Zirconium–95  | U | -1.14  | +/-5.17 | 8.68 | 10.0 | pCi/L |  |  |  |  |  |  |

### Rad Gas Flow Proportional Counting

*GFPC, Gross A/B, liquid "As Received"*

|       |  |      |         |      |      |       |  |      |          |      |        |   |
|-------|--|------|---------|------|------|-------|--|------|----------|------|--------|---|
| Alpha |  | 51.8 | +/-19.9 | 24.6 | 5.00 | pCi/L |  | DXF3 | 01/14/09 | 0419 | 830303 | 2 |
| Beta  |  | 58.9 | +/-26.7 | 43.1 | 5.00 | pCi/L |  |      |          |      |        |   |

*GFPC, Sr90, liquid "As Received"*

|              |   |        |          |      |      |       |  |      |          |      |        |   |
|--------------|---|--------|----------|------|------|-------|--|------|----------|------|--------|---|
| Strontium–90 | U | -0.793 | +/-0.676 | 1.55 | 2.00 | pCi/L |  | JXC5 | 01/13/09 | 1621 | 830293 | 3 |
|--------------|---|--------|----------|------|------|-------|--|------|----------|------|--------|---|

### Rad Liquid Scintillation Analysis

*Liquid Scint Tc99, Liquid "As Received"*

|               |   |      |         |      |      |       |  |      |          |      |        |   |
|---------------|---|------|---------|------|------|-------|--|------|----------|------|--------|---|
| Technetium–99 | U | 3.97 | +/-16.0 | 27.3 | 50.0 | pCi/L |  | SXL4 | 01/14/09 | 1513 | 830666 | 4 |
|---------------|---|------|---------|------|------|-------|--|------|----------|------|--------|---|

### Rad Total Uranium

*KPA, Total U, Liquid "As Received"*

|               |  |       |          |       |      |      |  |      |          |      |        |   |
|---------------|--|-------|----------|-------|------|------|--|------|----------|------|--------|---|
| Total Uranium |  | 0.517 | +/-0.216 | 0.267 | 1.00 | ug/L |  | KXG3 | 01/08/09 | 1443 | 828849 | 5 |
|---------------|--|-------|----------|-------|------|------|--|------|----------|------|--------|---|

### The following Analytical Methods were performed

| Method | Description                         | Analyst Comments |
|--------|-------------------------------------|------------------|
| 1      | EPA 901.1                           |                  |
| 2      | EPA 900.0                           |                  |
| 3      | EPA 905.0 Modified                  |                  |
| 4      | DOE EML HASL–300, Tc–02–RC Modified |                  |
| 5      | ASTM D 5174                         |                  |

| Surrogate/Tracer recovery | Test                                    | Result | Nominal | Recovery% | Acceptable Limits |
|---------------------------|-----------------------------------------|--------|---------|-----------|-------------------|
| Strontium Carrier         | GFPC, Sr90, liquid "As Received"        |        |         | 68        | (25%–125%)        |
| Technetium–99m Tracer     | Liquid Scint Tc99, Liquid "As Received" |        |         | 72        | (15%–125%)        |

# GEL LABORATORIES LLC

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

## QC Summary

Report Date: January 20, 2009

Page 1 of 10

Cordilleran Compliance Services  
4690 Table Mountain Drive  
Suite 200

Golden, Colorado

Contact: Mr. James Hix

Workorder: 221664

| Parmname       | NOM       | Sample  | Qual | QC      | Units | RPD% | REC% | Range | Anlst | Date     | Time  |
|----------------|-----------|---------|------|---------|-------|------|------|-------|-------|----------|-------|
| Rad Gamma Spec |           |         |      |         |       |      |      |       |       |          |       |
| Batch          | 830756    |         |      |         |       |      |      |       |       |          |       |
| QC1201752131   | 221664004 | DUP     |      |         |       |      |      |       |       |          |       |
| Actinium-228   | U         | 1.50    | U    | 11.9    | pCi/L | 155  |      | N/A   | KXG3  | 01/13/09 | 06:37 |
|                |           | +/-9.17 |      | +/-12.8 |       |      |      |       |       |          |       |
| Americium-241  | U         | 1.03    | U    | -1.78   | pCi/L | 750  |      | N/A   |       |          |       |
|                |           | +/-6.63 |      | +/-15.9 |       |      |      |       |       |          |       |
| Antimony-124   | U         | 1.41    | U    | -3.39   | pCi/L | 484  |      | N/A   |       |          |       |
|                |           | +/-5.03 |      | +/-4.88 |       |      |      |       |       |          |       |
| Antimony-125   | U         | 2.30    | U    | -8.07   | pCi/L | 359  |      | N/A   |       |          |       |
|                |           | +/-5.06 |      | +/-5.74 |       |      |      |       |       |          |       |
| Barium-133     | U         | 0.705   | U    | 1.18    | pCi/L | 50   |      | N/A   |       |          |       |
|                |           | +/-2.78 |      | +/-2.96 |       |      |      |       |       |          |       |
| Barium-140     | U         | -23.8   | U    | 27.2    | pCi/L | 2950 |      | N/A   |       |          |       |
|                |           | +/-25.4 |      | +/-28.2 |       |      |      |       |       |          |       |
| Beryllium-7    | U         | -2.84   | U    | 7.24    | pCi/L | 458  |      | N/A   |       |          |       |
|                |           | +/-22.0 |      | +/-23.3 |       |      |      |       |       |          |       |
| Bismuth-212    | U         | 6.11    | U    | -14.5   | pCi/L | 490  |      | N/A   |       |          |       |
|                |           | +/-12.6 |      | +/-19.1 |       |      |      |       |       |          |       |
| Bismuth-214    | UI        | 0.00    | U    | 7.29    | pCi/L | 44   |      | N/A   |       |          |       |
|                |           | +/-6.57 |      | +/-9.07 |       |      |      |       |       |          |       |
| Cerium-139     | U         | -0.907  | U    | -0.0518 | pCi/L | 178  |      | N/A   |       |          |       |
|                |           | +/-1.82 |      | +/-2.18 |       |      |      |       |       |          |       |
| Cerium-141     | U         | -0.689  | U    | 1.24    | pCi/L | 698  |      | N/A   |       |          |       |
|                |           | +/-4.98 |      | +/-5.41 |       |      |      |       |       |          |       |
| Cerium-144     | U         | 6.43    | U    | 1.12    | pCi/L | 141  |      | N/A   |       |          |       |
|                |           | +/-12.6 |      | +/-14.8 |       |      |      |       |       |          |       |
| Cesium-134     | U         | 2.01    | U    | 1.01    | pCi/L | 66   |      | N/A   |       |          |       |
|                |           | +/-2.31 |      | +/-2.66 |       |      |      |       |       |          |       |
| Cesium-136     | U         | -0.244  | U    | -2.55   | pCi/L | 165  |      | N/A   |       |          |       |
|                |           | +/-9.02 |      | +/-11.1 |       |      |      |       |       |          |       |
| Cesium-137     | U         | -1.12   | U    | 1.36    | pCi/L | 2040 |      | N/A   |       |          |       |
|                |           | +/-1.89 |      | +/-3.35 |       |      |      |       |       |          |       |
| Chromium-51    | U         | -14.4   | U    | 3.00    | pCi/L | 305  |      | N/A   |       |          |       |
|                |           | +/-28.3 |      | +/-31.6 |       |      |      |       |       |          |       |
| Cobalt-56      | U         | -0.481  | U    | -0.44   | pCi/L | 9    |      | N/A   |       |          |       |
|                |           | +/-2.10 |      | +/-2.20 |       |      |      |       |       |          |       |
| Cobalt-57      | U         | 0.159   | U    | 0.580   | pCi/L | 114  |      | N/A   |       |          |       |
|                |           | +/-1.64 |      | +/-1.94 |       |      |      |       |       |          |       |
| Cobalt-58      | U         | -0.179  | U    | -0.389  | pCi/L | 74   |      | N/A   |       |          |       |
|                |           | +/-2.26 |      | +/-2.29 |       |      |      |       |       |          |       |
| Cobalt-60      | U         | 0.881   | U    | 0.0715  | pCi/L | 170  |      | N/A   |       |          |       |

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| Parmname                       | NOM | Sample            | Qual | QC                | Units | RPD%  | REC%        | Range | Anlst | Date     | Time  |
|--------------------------------|-----|-------------------|------|-------------------|-------|-------|-------------|-------|-------|----------|-------|
| Rad Gamma Spec<br>Batch 830756 |     |                   |      |                   |       |       |             |       |       |          |       |
| Europium-152                   | U   | +/-1.82<br>3.78   | U    | +/-2.09<br>0.961  | pCi/L | 119   |             | N/A   | KXG3  | 01/13/09 | 06:37 |
| Europium-154                   | U   | +/-5.42<br>-2.33  | U    | +/-5.75<br>0.385  | pCi/L | 279   |             | N/A   |       |          |       |
| Europium-155                   | U   | +/-5.47<br>1.60   | U    | +/-5.36<br>-2.8   | pCi/L | 732   |             | N/A   |       |          |       |
| Iridium-192                    | U   | +/-6.35<br>0.187  | U    | +/-7.86<br>0.499  | pCi/L | 91    |             | N/A   |       |          |       |
| Iron-59                        | U   | +/-2.22<br>-1.87  | U    | +/-2.33<br>-0.649 | pCi/L | 97    |             | N/A   |       |          |       |
| Krypton-85                     | U   | +/-5.08<br>-1180  | U    | +/-6.16<br>-1760  | pCi/L | 40    |             | N/A   |       |          |       |
| Lead-210                       | U   | +/-555<br>7.03    | U    | +/-663<br>-177    | pCi/L | 217   |             | N/A   |       |          |       |
| Lead-212                       | U   | +/-185<br>2.87    | U    | +/-568<br>-0.712  | pCi/L | 332   |             | N/A   |       |          |       |
| Lead-214                       | U   | +/-4.80<br>7.87   | U    | +/-4.35<br>5.94   | pCi/L | 28    |             | N/A   |       |          |       |
| Manganese-54                   | U   | +/-6.42<br>-2.27  | U    | +/-8.05<br>0.969  | pCi/L | 497   |             | N/A   |       |          |       |
| Mercury-203                    | U   | +/-2.07<br>2.25   | U    | +/-2.18<br>0.125  | pCi/L | 179   |             | N/A   |       |          |       |
| Neodymium-147                  | U   | +/-2.65<br>-38.7  | U    | +/-2.83<br>17.3   | pCi/L | 522   |             | N/A   |       |          |       |
| Neptunium-239                  | U   | +/-57.8<br>-3.52  | U    | +/-67.5<br>-4.13  | pCi/L | 16    |             | N/A   |       |          |       |
| Niobium-94                     | U   | +/-12.4<br>0.494  | U    | +/-14.5<br>-0.466 | pCi/L | 7010  |             | N/A   |       |          |       |
| Niobium-95                     | U   | +/-1.87<br>1.62   | U    | +/-1.87<br>2.00   | pCi/L | 21    |             | N/A   |       |          |       |
| Potassium-40                   |     | +/-3.02<br>70.1   |      | +/-3.27<br>74.0   | pCi/L | 5     | (0% - 100%) |       |       |          |       |
| Promethium-144                 | U   | +/-44.1<br>-0.689 | U    | +/-32.6<br>-0.28  | pCi/L | 84    |             | N/A   |       |          |       |
| Promethium-146                 | U   | +/-1.95<br>0.887  | U    | +/-2.04<br>-0.872 | pCi/L | 22100 |             | N/A   |       |          |       |
| Radium-228                     | U   | +/-2.38<br>1.50   | U    | +/-2.50<br>11.9   | pCi/L | 155   |             | N/A   |       |          |       |
| Ruthenium-106                  | U   | +/-9.17<br>12.4   | U    | +/-12.8<br>-5.17  | pCi/L | 488   |             | N/A   |       |          |       |
| Silver-110m                    | U   | +/-16.1<br>1.11   | U    | +/-17.2<br>1.08   | pCi/L | 3     |             | N/A   |       |          |       |
| Sodium-22                      | U   | +/-1.89<br>-0.645 | U    | +/-2.15<br>0.108  | pCi/L | 280   |             | N/A   |       |          |       |

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| Parmname                       | NOM  | Sample            | Qual | QC                | Units | RPD% | REC% | Range      | Anlst | Date     | Time  |
|--------------------------------|------|-------------------|------|-------------------|-------|------|------|------------|-------|----------|-------|
| Rad Gamma Spec<br>Batch 830756 |      |                   |      |                   |       |      |      |            |       |          |       |
| Thallium-208                   | U    | +/-1.96<br>3.35   | U    | +/-1.92<br>-1.05  | pCi/L | 382  |      | N/A        | KXG3  | 01/13/09 | 06:37 |
| Thorium-230                    | U    | +/-4.33<br>82.3   | U    | +/-2.63<br>164    | pCi/L | 66   |      | N/A        |       |          |       |
| Thorium-234                    | U    | +/-772<br>-73.6   | U    | +/-1430<br>-45.1  | pCi/L | 48   |      | N/A        |       |          |       |
| Tin-113                        | U    | +/-73.7<br>1.86   | U    | +/-152<br>-0.123  | pCi/L | 228  |      | N/A        |       |          |       |
| Uranium-235                    | U    | +/-2.47<br>0.0316 | U    | +/-2.77<br>-10.4  | pCi/L | 201  |      | N/A        |       |          |       |
| Uranium-238                    | U    | +/-14.1<br>-73.6  | U    | +/-16.7<br>-45.1  | pCi/L | 48   |      | N/A        |       |          |       |
| Yttrium-88                     | U    | +/-73.7<br>-0.946 | U    | +/-152<br>-0.689  | pCi/L | 31   |      | N/A        |       |          |       |
| Zinc-65                        | U    | +/-2.76<br>1.62   | U    | +/-2.75<br>-4.38  | pCi/L | 434  |      | N/A        |       |          |       |
| Zirconium-95                   | U    | +/-4.21<br>1.69   | U    | +/-5.17<br>1.82   | pCi/L | 7    |      | N/A        |       |          |       |
| QC1201752133<br>Actinium-228   | LCS  | +/-4.30           |      | +/-4.47<br>-16.5  | pCi/L |      |      |            |       | 01/12/09 | 15:17 |
| Americium-241                  | 1240 |                   | U    | +/-32.4<br>1450   | pCi/L |      | 117  | (75%-125%) |       |          |       |
| Antimony-124                   |      |                   | U    | +/-145<br>0.953   | pCi/L |      |      |            |       |          |       |
| Antimony-125                   |      |                   | U    | +/-9.29<br>0.0147 | pCi/L |      |      |            |       |          |       |
| Barium-133                     |      |                   | U    | +/-19.7<br>-6.62  | pCi/L |      |      |            |       |          |       |
| Barium-140                     |      |                   | U    | +/-9.18<br>14.4   | pCi/L |      |      |            |       |          |       |
| Beryllium-7                    |      |                   | U    | +/-31.6<br>-21.5  | pCi/L |      |      |            |       |          |       |
| Bismuth-212                    |      |                   | U    | +/-68.0<br>-41.7  | pCi/L |      |      |            |       |          |       |
| Bismuth-214                    |      |                   | U    | +/-57.0<br>-1.96  | pCi/L |      |      |            |       |          |       |
| Cerium-139                     |      |                   | U    | +/-12.9<br>-1.64  | pCi/L |      |      |            |       |          |       |
| Cerium-141                     |      |                   | U    | +/-5.88<br>7.38   | pCi/L |      |      |            |       |          |       |
| Cerium-144                     |      |                   | U    | +/-10.2<br>-35.5  | pCi/L |      |      |            |       |          |       |
|                                |      |                   |      | +/-41.7           |       |      |      |            |       |          |       |

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| Parmname                       | NOM | Sample | Qual | QC               | Units | RPD% | REC% | Range      | Anlst | Date     | Time  |
|--------------------------------|-----|--------|------|------------------|-------|------|------|------------|-------|----------|-------|
| Rad Gamma Spec<br>Batch 830756 |     |        |      |                  |       |      |      |            |       |          |       |
| Cesium-134                     |     |        | U    | -4.32<br>+/-8.61 | pCi/L |      |      |            |       |          |       |
| Cesium-136                     |     |        | U    | 7.16<br>+/-15.2  | pCi/L |      |      |            | KXG3  | 01/12/09 | 15:17 |
| Cesium-137                     | 443 |        |      | 452<br>+/-37.7   | pCi/L |      | 102  | (75%-125%) |       |          |       |
| Chromium-51                    |     |        | U    | -18.8<br>+/-60.1 | pCi/L |      |      |            |       |          |       |
| Cobalt-56                      |     |        | U    | 2.39<br>+/-8.14  | pCi/L |      |      |            |       |          |       |
| Cobalt-57                      |     |        |      | 52.0<br>+/-12.1  | pCi/L |      |      |            |       |          |       |
| Cobalt-58                      |     |        | U    | -2.57<br>+/-7.80 | pCi/L |      |      |            |       |          |       |
| Cobalt-60                      | 574 |        |      | 584<br>+/-51.6   | pCi/L |      | 102  | (75%-125%) |       |          |       |
| Europium-152                   |     |        | U    | 9.57<br>+/-20.9  | pCi/L |      |      |            |       |          |       |
| Europium-154                   |     |        | U    | 1.61<br>+/-11.6  | pCi/L |      |      |            |       |          |       |
| Europium-155                   |     |        | U    | -4.08<br>+/-23.3 | pCi/L |      |      |            |       |          |       |
| Iridium-192                    |     |        | U    | -6.91<br>+/-6.63 | pCi/L |      |      |            |       |          |       |
| Iron-59                        |     |        | U    | -7.2<br>+/-18.8  | pCi/L |      |      |            |       |          |       |
| Krypton-85                     |     |        | U    | 935<br>+/-1680   | pCi/L |      |      |            |       |          |       |
| Lead-210                       |     |        | U    | 447<br>+/-821    | pCi/L |      |      |            |       |          |       |
| Lead-212                       |     |        | U    | -5.69<br>+/-12.5 | pCi/L |      |      |            |       |          |       |
| Lead-214                       |     |        | U    | 5.47<br>+/-14.3  | pCi/L |      |      |            |       |          |       |
| Manganese-54                   |     |        | U    | 6.39<br>+/-7.59  | pCi/L |      |      |            |       |          |       |
| Mercury-203                    |     |        | U    | 5.15<br>+/-6.83  | pCi/L |      |      |            |       |          |       |
| Neodymium-147                  |     |        | U    | 1.37<br>+/-56.5  | pCi/L |      |      |            |       |          |       |
| Neptunium-239                  |     |        | U    | 10.9<br>+/-47.2  | pCi/L |      |      |            |       |          |       |
| Niobium-94                     |     |        | U    | -7.39<br>+/-6.28 | pCi/L |      |      |            |       |          |       |
| Niobium-95                     |     |        | U    | 0.197            | pCi/L |      |      |            |       |          |       |

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| Parmname       | NOM    | Sample | Qual | QC               | Units | RPD% | REC% | Range | Anlst | Date     | Time  |
|----------------|--------|--------|------|------------------|-------|------|------|-------|-------|----------|-------|
| Rad Gamma Spec |        |        |      |                  |       |      |      |       |       |          |       |
| Batch          | 830756 |        |      |                  |       |      |      |       |       |          |       |
| Potassium-40   |        |        | U    | +/-7.42<br>-33.2 | pCi/L |      |      |       | KXG3  | 01/12/09 | 15:17 |
| Promethium-144 |        |        | U    | +/-49.1<br>3.66  | pCi/L |      |      |       |       |          |       |
| Promethium-146 |        |        | U    | +/-6.16<br>-1.54 | pCi/L |      |      |       |       |          |       |
| Radium-228     |        |        | U    | +/-10.2<br>-16.5 | pCi/L |      |      |       |       |          |       |
| Ruthenium-106  |        |        | U    | +/-32.4<br>11.1  | pCi/L |      |      |       |       |          |       |
| Silver-110m    |        |        | U    | +/-63.8<br>1.16  | pCi/L |      |      |       |       |          |       |
| Sodium-22      |        |        | U    | +/-8.41<br>0.482 | pCi/L |      |      |       |       |          |       |
| Thallium-208   |        |        | U    | +/-4.11<br>-2.45 | pCi/L |      |      |       |       |          |       |
| Thorium-230    |        |        | U    | +/-7.24<br>3730  | pCi/L |      |      |       |       |          |       |
| Thorium-234    |        |        | U    | +/-23900<br>-157 | pCi/L |      |      |       |       |          |       |
| Tin-113        |        |        | U    | +/-344<br>7.47   | pCi/L |      |      |       |       |          |       |
| Uranium-235    |        |        | U    | +/-9.64<br>11.3  | pCi/L |      |      |       |       |          |       |
| Uranium-238    |        |        | U    | +/-42.9<br>-157  | pCi/L |      |      |       |       |          |       |
| Yttrium-88     |        |        | U    | +/-344<br>10.1   | pCi/L |      |      |       |       |          |       |
| Zinc-65        |        |        | U    | +/-5.80<br>1.86  | pCi/L |      |      |       |       |          |       |
| Zirconium-95   |        |        | U    | +/-17.4<br>5.72  | pCi/L |      |      |       |       |          |       |
| Actinium-228   |        |        | U    | +/-13.2<br>-7.02 | pCi/L |      |      |       |       | 01/12/09 | 13:45 |
| Americium-241  |        |        | U    | +/-8.45<br>0.549 | pCi/L |      |      |       |       |          |       |
| Antimony-124   |        |        | U    | +/-3.49<br>1.66  | pCi/L |      |      |       |       |          |       |
| Antimony-125   |        |        | U    | +/-4.79<br>-2.65 | pCi/L |      |      |       |       |          |       |
| Barium-133     |        |        | U    | +/-4.99<br>-2.64 | pCi/L |      |      |       |       |          |       |
|                |        |        |      | +/-2.56          |       |      |      |       |       |          |       |

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| Parmname       | NOM    | Sample | Qual | QC                | Units | RPD% | REC% | Range | Anlst | Date     | Time  |
|----------------|--------|--------|------|-------------------|-------|------|------|-------|-------|----------|-------|
| Rad Gamma Spec |        |        |      |                   |       |      |      |       |       |          |       |
| Batch          | 830756 |        |      |                   |       |      |      |       |       |          |       |
| Barium-140     |        |        | U    | -2.37<br>+/-8.14  | pCi/L |      |      |       |       |          |       |
| Beryllium-7    |        |        | U    | -1.88<br>+/-15.3  | pCi/L |      |      |       | KXG3  | 01/12/09 | 13:45 |
| Bismuth-212    |        |        | U    | 5.10<br>+/-16.7   | pCi/L |      |      |       |       |          |       |
| Bismuth-214    |        |        | U    | 4.03<br>+/-5.05   | pCi/L |      |      |       |       |          |       |
| Cerium-139     |        |        | U    | -1.38<br>+/-1.41  | pCi/L |      |      |       |       |          |       |
| Cerium-141     |        |        | U    | -1.19<br>+/-2.78  | pCi/L |      |      |       |       |          |       |
| Cerium-144     |        |        | U    | -6.71<br>+/-8.70  | pCi/L |      |      |       |       |          |       |
| Cesium-134     |        |        | U    | -0.214<br>+/-2.54 | pCi/L |      |      |       |       |          |       |
| Cesium-136     |        |        | U    | -1.88<br>+/-3.69  | pCi/L |      |      |       |       |          |       |
| Cesium-137     |        |        | U    | 2.20<br>+/-2.16   | pCi/L |      |      |       |       |          |       |
| Chromium-51    |        |        | U    | 10.4<br>+/-15.3   | pCi/L |      |      |       |       |          |       |
| Cobalt-56      |        |        | U    | -0.849<br>+/-2.05 | pCi/L |      |      |       |       |          |       |
| Cobalt-57      |        |        | U    | 0.0996<br>+/-1.11 | pCi/L |      |      |       |       |          |       |
| Cobalt-58      |        |        | U    | -0.582<br>+/-1.86 | pCi/L |      |      |       |       |          |       |
| Cobalt-60      |        |        | U    | 0.867<br>+/-2.21  | pCi/L |      |      |       |       |          |       |
| Europium-152   |        |        | U    | -0.301<br>+/-4.99 | pCi/L |      |      |       |       |          |       |
| Europium-154   |        |        | U    | 0.906<br>+/-5.17  | pCi/L |      |      |       |       |          |       |
| Europium-155   |        |        | U    | 0.371<br>+/-4.23  | pCi/L |      |      |       |       |          |       |
| Iridium-192    |        |        | U    | -0.846<br>+/-1.68 | pCi/L |      |      |       |       |          |       |
| Iron-59        |        |        | U    | -0.581<br>+/-3.81 | pCi/L |      |      |       |       |          |       |
| Krypton-85     |        |        | U    | -1170<br>+/-610   | pCi/L |      |      |       |       |          |       |
| Lead-210       |        |        | U    | 1.35<br>+/-64.0   | pCi/L |      |      |       |       |          |       |
| Lead-212       |        |        | U    | 4.44              | pCi/L |      |      |       |       |          |       |

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| Parmname       | NOM    | Sample | Qual | QC      | Units | RPD% | REC% | Range | Anlst | Date     | Time  |
|----------------|--------|--------|------|---------|-------|------|------|-------|-------|----------|-------|
| Rad Gamma Spec |        |        |      |         |       |      |      |       |       |          |       |
| Batch          | 830756 |        |      |         |       |      |      |       |       |          |       |
|                |        |        |      | +/-5.98 |       |      |      |       |       |          |       |
| Lead-214       |        |        | U    | -1.72   | pCi/L |      |      |       | KXG3  | 01/12/09 | 13:45 |
|                |        |        |      | +/-4.88 |       |      |      |       |       |          |       |
| Manganese-54   |        |        | U    | -1.34   | pCi/L |      |      |       |       |          |       |
|                |        |        |      | +/-1.94 |       |      |      |       |       |          |       |
| Mercury-203    |        |        | U    | -0.217  | pCi/L |      |      |       |       |          |       |
|                |        |        |      | +/-1.74 |       |      |      |       |       |          |       |
| Neodymium-147  |        |        | U    | 11.8    | pCi/L |      |      |       |       |          |       |
|                |        |        |      | +/-18.1 |       |      |      |       |       |          |       |
| Neptunium-239  |        |        | U    | -7.45   | pCi/L |      |      |       |       |          |       |
|                |        |        |      | +/-8.01 |       |      |      |       |       |          |       |
| Niobium-94     |        |        | U    | 1.34    | pCi/L |      |      |       |       |          |       |
|                |        |        |      | +/-1.91 |       |      |      |       |       |          |       |
| Niobium-95     |        |        | U    | -0.977  | pCi/L |      |      |       |       |          |       |
|                |        |        |      | +/-2.05 |       |      |      |       |       |          |       |
| Potassium-40   |        |        | U    | 41.2    | pCi/L |      |      |       |       |          |       |
|                |        |        |      | +/-23.5 |       |      |      |       |       |          |       |
| Promethium-144 |        |        | U    | -0.23   | pCi/L |      |      |       |       |          |       |
|                |        |        |      | +/-2.03 |       |      |      |       |       |          |       |
| Promethium-146 |        |        | U    | -2.25   | pCi/L |      |      |       |       |          |       |
|                |        |        |      | +/-2.45 |       |      |      |       |       |          |       |
| Radium-228     |        |        | U    | -7.02   | pCi/L |      |      |       |       |          |       |
|                |        |        |      | +/-8.45 |       |      |      |       |       |          |       |
| Ruthenium-106  |        |        | U    | -5.32   | pCi/L |      |      |       |       |          |       |
|                |        |        |      | +/-18.4 |       |      |      |       |       |          |       |
| Silver-110m    |        |        | U    | -0.0574 | pCi/L |      |      |       |       |          |       |
|                |        |        |      | +/-1.91 |       |      |      |       |       |          |       |
| Sodium-22      |        |        | U    | 0.406   | pCi/L |      |      |       |       |          |       |
|                |        |        |      | +/-1.85 |       |      |      |       |       |          |       |
| Thallium-208   |        |        | U    | 1.74    | pCi/L |      |      |       |       |          |       |
|                |        |        |      | +/-2.46 |       |      |      |       |       |          |       |
| Thorium-230    |        |        | U    | -233    | pCi/L |      |      |       |       |          |       |
|                |        |        |      | +/-1520 |       |      |      |       |       |          |       |
| Thorium-234    |        |        | U    | 4.87    | pCi/L |      |      |       |       |          |       |
|                |        |        |      | +/-53.9 |       |      |      |       |       |          |       |
| Tin-113        |        |        | U    | 0.794   | pCi/L |      |      |       |       |          |       |
|                |        |        |      | +/-2.35 |       |      |      |       |       |          |       |
| Uranium-235    |        |        | U    | 3.89    | pCi/L |      |      |       |       |          |       |
|                |        |        |      | +/-11.5 |       |      |      |       |       |          |       |
| Uranium-238    |        |        | U    | 4.87    | pCi/L |      |      |       |       |          |       |
|                |        |        |      | +/-53.9 |       |      |      |       |       |          |       |
| Yttrium-88     |        |        | U    | -0.644  | pCi/L |      |      |       |       |          |       |
|                |        |        |      | +/-2.08 |       |      |      |       |       |          |       |
| Zinc-65        |        |        | U    | -1.67   | pCi/L |      |      |       |       |          |       |



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## QC Summary

Workorder: 221664

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| Parmname              | NOM       | Sample | Qual                | QC                          | Units               | RPD%  | REC%  | Range | Anlst       | Date     | Time           |
|-----------------------|-----------|--------|---------------------|-----------------------------|---------------------|-------|-------|-------|-------------|----------|----------------|
| <b>Rad Gamma Spec</b> |           |        |                     |                             |                     |       |       |       |             |          |                |
| Batch                 | 830756    |        |                     |                             |                     |       |       |       |             |          |                |
| Zirconium-95          |           |        | U                   | +/-4.10<br>-3.41<br>+/-3.69 | pCi/L               |       |       |       | KXG3        | 01/12/09 | 13:45          |
| <b>Rad Gas Flow</b>   |           |        |                     |                             |                     |       |       |       |             |          |                |
| Batch                 | 830293    |        |                     |                             |                     |       |       |       |             |          |                |
| QC1201750959          | 221664005 | DUP    |                     |                             |                     |       |       |       |             |          |                |
| Strontium-90          |           | U      | -0.0473<br>+/-0.548 | U                           | -0.435<br>+/-0.433  | pCi/L | 0     |       | N/A         | JXC5     | 01/13/09 16:21 |
| QC1201750961          | LCS       |        |                     |                             |                     |       |       |       |             |          |                |
| Strontium-90          | 65.8      |        |                     |                             | 65.2<br>+/-3.60     | pCi/L |       | 99    | (75%-125%)  |          | 01/13/09 16:22 |
| QC1201750958          | MB        |        |                     |                             |                     |       |       |       |             |          |                |
| Strontium-90          |           |        |                     | U                           | -0.0645<br>+/-0.681 | pCi/L |       |       |             |          | 01/13/09 16:21 |
| QC1201750960          | 221664005 | MS     |                     |                             |                     |       |       |       |             |          |                |
| Strontium-90          | 132       | U      | -0.0473<br>+/-0.548 |                             | 77.9<br>+/-5.15     | pCi/L |       | 59 *  | (75%-125%)  |          | 01/15/09 08:45 |
| Batch                 | 830299    |        |                     |                             |                     |       |       |       |             |          |                |
| QC1201750977          | 221664010 | DUP    |                     |                             |                     |       |       |       |             |          |                |
| Chlorine-36           |           | U      | -143<br>+/-154      | U                           | 51.2<br>+/-126      | pCi/L | 0     |       | N/A         | BXF1     | 01/16/09 18:11 |
| QC1201750979          | LCS       |        |                     |                             |                     |       |       |       |             |          |                |
| Chlorine-36           | 47900     |        |                     |                             | 39900<br>+/-2060    | pCi/L |       | 83    | (75%-125%)  |          | 01/16/09 14:37 |
| QC1201750976          | MB        |        |                     |                             |                     |       |       |       |             |          |                |
| Chlorine-36           |           |        |                     | U                           | 128<br>+/-116       | pCi/L |       |       |             |          | 01/16/09 18:11 |
| QC1201750978          | 221664010 | MS     |                     |                             |                     |       |       |       |             |          |                |
| Chlorine-36           | 47900     | U      | -143<br>+/-154      |                             | 55700<br>+/-2350    | pCi/L |       | 116   | (75%-125%)  |          | 01/15/09 16:48 |
| Batch                 | 830303    |        |                     |                             |                     |       |       |       |             |          |                |
| QC1201750989          | 221664003 | DUP    |                     |                             |                     |       |       |       |             |          |                |
| Alpha                 |           | U      | 13.6<br>+/-23.1     |                             | 56.5<br>+/-22.8     | pCi/L | 122 * |       | (0% - 100%) | DXF3     | 01/14/09 04:19 |
| Beta                  |           | U      | 8.61<br>+/-29.5     | U                           | 22.5<br>+/-29.8     | pCi/L | 0     |       | N/A         |          |                |
| QC1201750992          | LCS       |        |                     |                             |                     |       |       |       |             |          |                |
| Alpha                 | 2280      |        |                     |                             | 2090<br>+/-227      | pCi/L |       | 92    | (75%-125%)  |          | 01/13/09 18:30 |
| Beta                  | 7900      |        |                     |                             | 7030<br>+/-293      | pCi/L |       | 89    | (75%-125%)  |          |                |
| QC1201750988          | MB        |        |                     |                             |                     |       |       |       |             |          |                |
| Alpha                 |           |        |                     | U                           | -20.1<br>+/-15.7    | pCi/L |       |       |             |          | 01/14/09 04:19 |
| Beta                  |           |        |                     | U                           | -3.42<br>+/-23.6    | pCi/L |       |       |             |          |                |

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## QC Summary

Workorder: 221664

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| Parmname                        | NOM       | Sample | Qual      | QC       | Units | RPD% | REC% | Range       | Anlst | Date     | Time  |
|---------------------------------|-----------|--------|-----------|----------|-------|------|------|-------------|-------|----------|-------|
| <b>Rad Gas Flow</b>             |           |        |           |          |       |      |      |             |       |          |       |
| Batch                           | 830303    |        |           |          |       |      |      |             |       |          |       |
| QC1201750990                    | 221664003 | MS     |           |          |       |      |      |             |       |          |       |
| Alpha                           | 2280      | U      | 13.6      | 1880     | pCi/L |      | 83   | (75%-125%)  | DXF3  | 01/13/09 | 18:33 |
|                                 |           |        | +/-23.1   | +/-296   |       |      |      |             |       |          |       |
| Beta                            | 7900      | U      | 8.61      | 4540     | pCi/L |      | 58 * | (75%-125%)  |       |          |       |
|                                 |           |        | +/-29.5   | +/-266   |       |      |      |             |       |          |       |
| QC1201750991                    | 221664003 | MSD    |           |          |       |      |      |             |       |          |       |
| Alpha                           | 2280      | U      | 13.6      | 1560     | pCi/L | 19   | 69 * | (0%-20%)    |       | 01/13/09 | 18:30 |
|                                 |           |        | +/-23.1   | +/-239   |       |      |      |             |       |          |       |
| Beta                            | 7900      | U      | 8.61      | 4440     | pCi/L | 2    | 56 * | (0%-20%)    |       |          |       |
|                                 |           |        | +/-29.5   | +/-239   |       |      |      |             |       |          |       |
| <b>Rad Liquid Scintillation</b> |           |        |           |          |       |      |      |             |       |          |       |
| Batch                           | 830666    |        |           |          |       |      |      |             |       |          |       |
| QC1201751891                    | 221664012 | DUP    |           |          |       |      |      |             |       |          |       |
| Technetium-99                   |           | U      | 3.97      | 26.1     | pCi/L | 0    |      | N/A         | SXL4  | 01/14/09 | 17:18 |
|                                 |           |        | +/-16.0   | +/-18.8  |       |      |      |             |       |          |       |
| QC1201751893                    | LCS       |        |           |          |       |      |      |             |       |          |       |
| Technetium-99                   | 1370      |        |           | 1400     | pCi/L |      | 102  | (75%-125%)  |       | 01/14/09 | 19:23 |
|                                 |           |        |           | +/-30.8  |       |      |      |             |       |          |       |
| QC1201751890                    | MB        |        |           |          |       |      |      |             |       |          |       |
| Technetium-99                   |           | U      |           | -1.37    | pCi/L |      |      |             |       | 01/14/09 | 16:16 |
|                                 |           |        |           | +/-12.0  |       |      |      |             |       |          |       |
| QC1201751892                    | 221664012 | MS     |           |          |       |      |      |             |       |          |       |
| Technetium-99                   | 2740      | U      | 3.97      | 2830     | pCi/L |      | 103  | (75%-125%)  |       | 01/14/09 | 18:21 |
|                                 |           |        | +/-16.0   | +/-90.7  |       |      |      |             |       |          |       |
| <b>Rad Total U</b>              |           |        |           |          |       |      |      |             |       |          |       |
| Batch                           | 828849    |        |           |          |       |      |      |             |       |          |       |
| QC1201747665                    | 221664002 | DUP    |           |          |       |      |      |             |       |          |       |
| Total Uranium                   |           |        | 0.454     | 0.478    | ug/L  | 5    |      | (0% - 100%) | KXG3  | 01/08/09 | 14:51 |
|                                 |           |        | +/-0.0998 | +/-0.191 |       |      |      |             |       |          |       |
| QC1201747667                    | LCS       |        |           |          |       |      |      |             |       |          |       |
| Total Uranium                   | 25.0      |        |           | 29.2     | ug/L  |      | 117  | (80%-120%)  |       | 01/08/09 | 15:00 |
|                                 |           |        |           | +/-3.01  |       |      |      |             |       |          |       |
| QC1201747668                    | LCS       |        |           |          |       |      |      |             |       |          |       |
| Total Uranium                   | 2.50      |        |           | 2.80     | ug/L  |      | 112  | (80%-120%)  |       | 01/08/09 | 15:01 |
|                                 |           |        |           | +/-0.178 |       |      |      |             |       |          |       |
| QC1201747664                    | MB        |        |           |          |       |      |      |             |       |          |       |
| Total Uranium                   |           | U      |           | 0.0536   | ug/L  |      |      |             |       | 01/08/09 | 14:49 |
|                                 |           |        |           | +/-0.054 |       |      |      |             |       |          |       |
| QC1201747666                    | 221664002 | MS     |           |          |       |      |      |             |       |          |       |
| Total Uranium                   | 25.0      |        | 0.454     | 25.6     | ug/L  |      | 100  | (75%-125%)  |       | 01/08/09 | 14:56 |
|                                 |           |        | +/-0.0998 | +/-2.85  |       |      |      |             |       |          |       |

Notes:

The Qualifiers in this report are defined as follows:

\*\* Analyte is a surrogate compound

< Result is less than value reported

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## QC Summary

Workorder: 221664

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| Parmname | NOM                                                                                                                            | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date | Time |
|----------|--------------------------------------------------------------------------------------------------------------------------------|--------|------|----|-------|------|------|-------|-------|------|------|
| >        | Result is greater than value reported                                                                                          |        |      |    |       |      |      |       |       |      |      |
| A        | The TIC is a suspected aldol-condensation product                                                                              |        |      |    |       |      |      |       |       |      |      |
| B        | For General Chemistry and Organic analysis the target analyte was detected in the associated blank.                            |        |      |    |       |      |      |       |       |      |      |
| BD       | Results are either below the MDC or tracer recovery is low                                                                     |        |      |    |       |      |      |       |       |      |      |
| C        | Analyte has been confirmed by GC/MS analysis                                                                                   |        |      |    |       |      |      |       |       |      |      |
| D        | Results are reported from a diluted aliquot of the sample                                                                      |        |      |    |       |      |      |       |       |      |      |
| F        | Estimated Value                                                                                                                |        |      |    |       |      |      |       |       |      |      |
| H        | Analytical holding time was exceeded                                                                                           |        |      |    |       |      |      |       |       |      |      |
| J        | Value is estimated                                                                                                             |        |      |    |       |      |      |       |       |      |      |
| M        | M if above MDC and less than LLD                                                                                               |        |      |    |       |      |      |       |       |      |      |
| M        | Matrix Related Failure                                                                                                         |        |      |    |       |      |      |       |       |      |      |
| N/A      | RPD or %Recovery limits do not apply.                                                                                          |        |      |    |       |      |      |       |       |      |      |
| ND       | Analyte concentration is not detected above the detection limit                                                                |        |      |    |       |      |      |       |       |      |      |
| NJ       | Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier                                     |        |      |    |       |      |      |       |       |      |      |
| R        | Sample results are rejected                                                                                                    |        |      |    |       |      |      |       |       |      |      |
| U        | Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.                                                         |        |      |    |       |      |      |       |       |      |      |
| UI       | Gamma Spectroscopy--Uncertain identification                                                                                   |        |      |    |       |      |      |       |       |      |      |
| X        | Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier                                     |        |      |    |       |      |      |       |       |      |      |
| Y        | QC Samples were not spiked with this compound                                                                                  |        |      |    |       |      |      |       |       |      |      |
| ^        | 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                                                                          |        |      |    |       |      |      |       |       |      |      |

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

^ 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.

\* Indicates that a Quality Control parameter was not within specifications.

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.

### COMPANY – WIDE NONCONFORMANCE REPORT

|                                                                                                                                                                                                                                         |                                     |                                            |                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|--------------------------------------------|-----------------------------------|
| <b>Mo.Day Yr.</b><br>13-JAN-09                                                                                                                                                                                                          | <b>Division:</b><br>Radiochemistry  | <b>Quality Criteria:</b><br>Specifications | <b>Type:</b><br>Process           |
| <b>Instrument Type:</b><br>GAMMA SPECTROMETER                                                                                                                                                                                           | <b>Test / Method:</b><br>EPA 901.1  | <b>Matrix Type:</b><br>Liquid              | <b>Client Code:</b><br>CORD, GELC |
| <b>Batch ID:</b><br>830756                                                                                                                                                                                                              | <b>Sample Numbers:</b><br>See Below |                                            |                                   |
| <b>Potentially affected work order(s)(SDG): 221469,221664</b><br><br><b>Application Issues:</b><br>Sample improperly preserved                                                                                                          |                                     |                                            |                                   |
| <b>Specification and Requirements</b>                                                                                                                                                                                                   |                                     | <b>NRG Disposition:</b>                    |                                   |
| <b>Nonconformance Description:</b><br><br>1. Samples 221469001, 221664 001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011, 012, and 1201752131 received an incorrect preservation and the aliquot was acidified per project manager. |                                     | 1. Reporting results                       |                                   |

**Originator's Name:**

Kenshalla Oston 13-JAN-09

**Data Validator/Group Leader:**

Shenise Euland 14-JAN-09

**Quality Review:**

**Director:**

| COMPANY – WIDE NONCONFORMANCE REPORT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                     |                                                                                 |                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|---------------------------------------------------------------------------------|-----------------------------|
| <b>Mo.Day Yr.</b><br>16–JAN–09                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Division:</b><br>Radiochemistry  | <b>Quality Criteria:</b><br>Specifications                                      | <b>Type:</b><br>Process     |
| <b>Instrument Type:</b><br>GFPC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Test / Method:</b><br>EPA 900.0  | <b>Matrix Type:</b><br>Liquid                                                   | <b>Client Code:</b><br>CORD |
| <b>Batch ID:</b><br>830303                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Sample Numbers:</b><br>See Below |                                                                                 |                             |
| <b>Potentially affected work order(s)(SDG): 221664</b><br><b>Application Issues:</b><br>RDL less than MDA<br>Failed Recovery for MS/PS<br>Failed Recovery for MSD/PSD                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                     |                                                                                 |                             |
| <b>Specification and Requirements</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                     | <b>NRG Disposition:</b>                                                         |                             |
| <b>Nonconformance Description:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                     |                                                                                 |                             |
| 1. Samples 221664001, 221664002, 221664003, 221664004, 221664006, 221664008, 221664010, 221664011 and duplicate 1201750989 did not meet the alpha and/or beta required detection limit. Sample aliquots were reduced due to the matrix being non–homogeneous.<br><br>2. Matrix spike, 1201750990, and matrix spike duplicate, 1201750991, did not meet the beta recovery requirements due to matrix interference.<br><br>3. The matrix spike duplicate, 1201750991, did not meet the alpha recovery requirements. However, the matrix spike recovery requirement was met. The samples are similar in results. |                                     | 1. Reporting results.<br><br>2. Reporting results.<br><br>3. Reporting results. |                             |

**Originator's Name:**  
Layota Yom 16–JAN–09

**Data Validator/Group Leader:**  
Lesley Anderson 19–JAN–09

**Quality Review:**

**Director:**

### COMPANY – WIDE NONCONFORMANCE REPORT

|                                                                                                                                                                                                                                                                                                 |                                       |                                            |                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|--------------------------------------------|-----------------------------|
| <b>Mo.Day Yr.</b><br>19-JAN-09                                                                                                                                                                                                                                                                  | <b>Division:</b><br>Radiochemistry    | <b>Quality Criteria:</b><br>Specifications | <b>Type:</b><br>Process     |
| <b>Instrument Type:</b><br>GFPC                                                                                                                                                                                                                                                                 | <b>Test / Method:</b><br>GL-RAD-A-033 | <b>Matrix Type:</b><br>Liquid              | <b>Client Code:</b><br>CORD |
| <b>Batch ID:</b><br>830299                                                                                                                                                                                                                                                                      | <b>Sample Numbers:</b><br>See Below   |                                            |                             |
| <b>Potentially affected work order(s)(SDG): 221664</b><br><br><b>Application Issues:</b><br>RDL less than MDA                                                                                                                                                                                   |                                       |                                            |                             |
| <b>Specification and Requirements</b>                                                                                                                                                                                                                                                           |                                       | <b>NRG Disposition:</b>                    |                             |
| <b>Nonconformance Description:</b><br><br>1. Samples 221664001, 221664002, 221664003, 221664004, 221664005, 221664006, 221664007, 221664008, 221664009, and 221664010 did not meet the required detection limit due to reduced aliquots. Aliquots were reduced due to the matrix of the sample. |                                       | 1. Reporting results                       |                             |

**Originator's Name:**

Nat Long 19-JAN-09

**Data Validator/Group Leader:**

Angela Johnson 19-JAN-09

**Quality Review:**

**Director:**

### COMPANY – WIDE NONCONFORMANCE REPORT

|                                                                                                                              |                                             |                                            |                             |
|------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|--------------------------------------------|-----------------------------|
| <b>Mo.Day Yr.</b><br>19-JAN-09                                                                                               | <b>Division:</b><br>Radiochemistry          | <b>Quality Criteria:</b><br>Specifications | <b>Type:</b><br>Process     |
| <b>Instrument Type:</b><br>GFPC                                                                                              | <b>Test / Method:</b><br>EPA 905.0 Modified | <b>Matrix Type:</b><br>Liquid              | <b>Client Code:</b><br>CORD |
| <b>Batch ID:</b><br>830293                                                                                                   | <b>Sample Numbers:</b><br>See Below         |                                            |                             |
| <b>Potentially affected work order(s)(SDG): 221664</b><br><br><b>Application Issues:</b><br>Failed Recovery for MS/PS        |                                             |                                            |                             |
| <b>Specification and Requirements</b><br><b>Nonconformance Description:</b>                                                  |                                             | <b>NRG Disposition:</b>                    |                             |
| 1. Method spike 1201750960 did not meet the recovery requirement due to the matrix of the sample. Samples were oily liquids. |                                             | 1. Reporting results.                      |                             |

**Originator's Name:**

Layota Yom 19-JAN-09

**Data Validator/Group Leader:**

Angela Johnson 20-JAN-09

**Quality Review:**

**Director:**

**List of current GEL Certifications as of 20 January 2009**

| <b>State</b>              | <b>Certification</b> |
|---------------------------|----------------------|
| Arizona                   | AZ0668               |
| Arkansas                  | 88-0651              |
| CLIA                      | 42D0904046           |
| California – NELAP        | 01151CA              |
| Colorado                  | GEL                  |
| Connecticut               | PH-0169              |
| Dept. of Navy             | NFESC 413            |
| EPA Region 5              | WG-15J               |
| Florida – NELAP           | E87156               |
| Georgia                   | E87156 (FL/NELAP)    |
| Georgia DW                | 967                  |
| Hawaii                    | N/A                  |
| ISO 17025                 | 2567.01              |
| Idaho                     | SC00012              |
| Illinois – NELAP          | 200029               |
| Indiana                   | C-SC-01              |
| Kansas – NELAP            | E-10332              |
| Kentucky                  | 90129                |
| Louisiana – NELAP         | 03046                |
| Maryland                  | 270                  |
| Massachusetts             | M-SC012              |
| Nevada                    | SC00012              |
| New Jersey – NELAP        | SC002                |
| New Mexico                | FL NELAP E87156      |
| New York – NELAP          | 11501                |
| North Carolina            | 233                  |
| North Carolina DW         | 45709                |
| Oklahoma                  | 9904                 |
| Pennsylvania – NELAP      | 68-00485             |
| South Carolina            | 10120001/10120002    |
| Tennessee                 | TN 02934             |
| Texas – NELAP             | T104704235-07B-TX    |
| U.S. Dept. of Agriculture | S-52597              |
| Utah – NELAP              | GEL                  |
| Vermont                   | VT87156              |
| Virginia                  | 00151                |
| Washington                | C1641                |