



February 28, 2018

Ms. Orysia Masnyk-Bailey
U.S. Nuclear Regulatory Commission
Region I
2100 Renaissance Blvd., Suite 100
King of Prussia, PA. 19406

**SUBJECT: ORISE CONTRACT NO. DE-SC0014664
LETTER REPORT FOR ANALYTICAL RESULTS FOR 20 SMEARS
ASSOCIATED WITH THE ROBINS AIR FORCE BASE, BUILDING 181,
CELLS 5 & 6
DOCKET NO. 030-28641; DCN: 5322-LR-01-0; SDG: 14214-1**

Dear Ms. Masnyk-Bailey:

The Oak Ridge Institute for Science and Education (ORISE) is pleased to provide the enclosed data package for 20 smears associated with the Robins Air Force Base, Building 181, Cells 5 & 6 in Warner Robins, Georgia.

The smears were counted on a Tennelec NJB low background alpha-beta discriminating instrument. The analytical report is attached, including both alpha and beta disintegrations per minute activities and the associated Minimum Detectable Activities. No measurable activity was found on any of the smears.

Quality control requirements were met for this analysis and are available for your review upon request.

Please feel free to contact me at 865.574.9802 or Erika Bailey at 865.576.6659 with any questions or comments.

Sincerely, 

Forrest Smith
Project Team Lead
ORAU

WFS:lw

Attachments

Electronic distribution: T. Carter, NRC S. Roberts, ORAU
E. Bailey, ORAU D. Hagemeyer, ORAU
File code: 5322 Lab code: 14214

Distribution approval and concurrence:	Initials
Quality Review	YB
Technical Review	ENB

NRC FORM 303 (4-2004)		U.S. NUCLEAR REGULATORY COMMISSION		LABORATORY USE ONLY					
REQUEST FOR ANALYSIS AND CHAIN OF CUSTODY LABORATORY -- ORISE <i>Bids 181</i>				CONTROL NUMBER					
SAMPLE LOCATION (LICENSEE) <i>Warner Robbins Air Force Base Cells 5 & 6</i>				LICENSE NO. 42-23539-01AF		DOCKET NO. 030-28641			
SAMPLE SUBMITTED				DATE SAMPLES SUBMITTED <i>01-23-2018</i>		PRIORITY <input checked="" type="checkbox"/> ROUTINE <input type="checkbox"/> URGENT			
# TOTAL	TYPE	VOLUME	WEIGHT	SAMPLE COLLECTION INTERVAL					
<i>20</i>	<i>smears</i>	<i>100cm2</i>		START	MONTH	DAY	YEAR	TIME	
				<i>01</i>	<i>01</i>	<i>23</i>	<i>18</i>	<i>0850</i>	
INSPECTOR RESPONSIBLE <i>Orysia Masnyk-Bailey</i>				TELEPHONE NUMBER 864-427-1032		<i>01</i>	<i>23</i>	<i>18</i>	<i>1302</i>
ANALYSIS TO BE PERFORMED			LIST DESIRED LLD (Optional)	OTHER TYPE OF ANALYSIS (Specify)				LIST DESIRED LLD (Optional)	
<input checked="" type="checkbox"/> GROSS ALPHA (GA)			<i>20</i>						
<input checked="" type="checkbox"/> GROSS BETA (GB)			<i>1000</i>						
<input type="checkbox"/> GAMMA SPEC (GS)									
<input type="checkbox"/> TRITIUM (H3)									
<input type="checkbox"/> CARBON-14 (C14)									
<input type="checkbox"/> IODINE-125 (I125)									
RELINQUISHED BY	RECEIVED BY	DATE	TIME	REASON FOR CHANGE OF CUSTODY					
<i>Orysia Masnyk Bailey</i>	<i>Forrest Smith</i>	<i>1-23-2018</i>	<i>2:32</i>	<i>shipped to OR by FedEx</i>					
<i>Fed Ex</i>	<i>Forrest Smith</i>	<i>1/25/18</i>	<i>0930</i>	<i>Analysis</i>					
FEE RECOVERABLE		<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES		IF YES TAC NUMBER					
REMARKS									
NOTE: SAMPLES WILL BE DISCARDED AFTER ANALYSIS UNLESS REASONS ARE NOTED IN REMARKS ABOVE.									

Page 1 of 2	Project Name: Warner Robbins	ORAU/ORISE Chain of Custody and Analytical Request	ORAU/ORISE 1299 Bethel Valley Road, Bldg SC-200 Oak Ridge, TN 37831 Phone: (865) 576-9184 Fax: (865) 241-3248
Project #: 201214214	COC # : 1801-006		

Client Name: U.S. Nuclear Regulatory Commission	Phone # : 864-427-1032	Fax # :
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Address: 2100 Renaissance Blvd Suite 100	Email : orysia.masnykbailey@nrc.gov
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Collected By: Client	Send Results To: Masnyk-BaileyOrysia
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Client Sample ID	Date Collected (mm-dd-yy)	Time Collected (military)	Sample Matrix (1)	Field Filtered (2)	ORAU/ORISE Lab Sample ID (Lab Use Only)	Total # of containers	Sample Analysis Requested (3)	Comments
Smear 1	01/23/18	12:00	R	No	14214R0001	1	GAB Smears	
Smear 2	01/23/18	12:00	R	No	14214R0002	1	GAB Smears	
Smear 3	01/23/18	12:00	R	No	14214R0003	1	GAB Smears	
Smear 4	01/23/18	12:00	R	No	14214R0004	1	GAB Smears	
Smear 5	01/23/18	12:00	R	No	14214R0005	1	GAB Smears	
Smear 6	01/23/18	12:00	R	No	14214R0006	1	GAB Smears	
Smear 7	01/23/18	12:00	R	No	14214R0007	1	GAB Smears	
Smear 8	01/23/18	12:00	R	No	14214R0008	1	GAB Smears	
Smear 9	01/23/18	12:00	R	No	14214R0009	1	GAB Smears	
Smear 10	01/23/18	12:00	R	No	14214R0010	1	GAB Smears	
Smear 11	01/23/18	12:00	R	No	14214R0011	1	GAB Smears	
Smear 12	01/23/18	12:00	R	No	14214R0012	1	GAB Smears	
Smear 13	01/23/18	12:00	R	No	14214R0013	1	GAB Smears	
Smear 14	01/23/18	12:00	R	No	14214R0014	1	GAB Smears	
Smear 15	01/23/18	12:00	R	No	14214R0015	1	GAB Smears	
Smear 16	01/23/18	12:00	R	No	14214R0016	1	GAB Smears	
Smear 17	01/23/18	12:00	R	No	14214R0017	1	GAB Smears	
Smear 18	01/23/18	12:00	R	No	14214R0018	1	GAB Smears	
Smear 19	01/23/18	12:00	R	No	14214R0019	1	GAB Smears	
Smear 20	01/23/18	12:00	R	No	14214R0020	1	GAB Smears	

Gamma Isotopes:

Alpha Isotopes:

LSA:

TAT Requested: 28	Rush:	Fax Results	Fax # :
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Page 2 of 2 Project #: 201214214	ORAU/ORISE Chain of Custody and Analytical Request					ORAU/ORISE 1299 Bethel Valley Road, Bldg SC-200 Oak Ridge, TN 37831 Phone: (865) 241-3242 Fax: (865) 241-3248		
COC # : 1801-006								

Client Sample ID	Date Collected (mm-dd-yy)	Time Collected (military)	Sample Matrix (1)	Field Filtered (2)	ORAU/ORISE Lab Sample ID (Lab Use Only)	Total # of containers	Sample Analysis Requested (3)	Comments
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Chain of Custody Signatures						Sample Shipping and Delivery Details		
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Relinquished By (Signed)	Date	Time	Received By (Signed)	Date	Time	ORAU/ORISE PM SmithWilliam Phone #: 865-574-9802	
Fed Ex	1/29/2018	9:30:00AM	SmithWilliam	1/29/2018	9:30:00AM	Method of Shipment:	Date Shipped

EDD Required:	Report Type:	Received in Good Condition:	Yes	Airbill # :
PEMS Project ID :	PEMS SOW ID:			Airbill # :

- 1) Matrix Codes: **S**=Soil, **W**=Water, **M**=Miscellaneous, **A**=Air Filter, **R**=Smear/Wipe
- 2) Field Filtered: For liquid matrices, indicate **-Y-** for yes the sample was field filtered or **-N-** for sample was not field filtered.
- 3) If the integrity of the samples and/or sample packaging are in question, provide details in the CoC comment field.

COC Comments:

GAB-SMEARS
 Low Background Proportional Counting, CP3, Revision 5

2/7/2018

Project 14214 (5322)

SDG 201214214-1

NRC Warner Robbins

Batch GR0662

Lab ID	Client ID	ACPM	BCPM	ADPM	BDPM	CT	Acquisition Date
14214R0001	1	0.50	2.50	1.92	2.75	2	07-Feb-18
14214R0002	2	0.50	1.50	1.92	0.29	2	07-Feb-18
14214R0003	3	0.00	4.00	-0.37	6.42	2	07-Feb-18
14214R0004	4	0.50	2.00	1.92	1.52	2	07-Feb-18
14214R0005	5	0.00	1.50	-0.37	0.29	2	07-Feb-18
14214R0006	6	0.00	1.50	-0.37	0.29	2	07-Feb-18
14214R0007	7	0.00	0.50	-0.37	-2.16	2	07-Feb-18
14214R0008	8	0.00	2.00	-0.37	1.52	2	07-Feb-18
14214R0009	9	0.00	1.00	-0.37	-0.93	2	07-Feb-18
14214R0010	10	0.00	1.00	-0.37	-0.93	2	07-Feb-18
14214R0011	11	0.00	1.50	-0.37	0.29	2	07-Feb-18
14214R0012	12	0.00	2.00	-0.37	1.52	2	07-Feb-18
14214R0013	13	0.00	2.50	-0.37	2.75	2	07-Feb-18
14214R0014	14	1.00	1.00	4.21	-0.93	2	07-Feb-18
14214R0015	15	0.00	1.50	-0.37	0.29	2	07-Feb-18
14214R0016	16	0.00	2.00	-0.37	1.52	2	07-Feb-18
14214R0017	17	0.00	3.00	-0.37	3.97	2	07-Feb-18
14214R0018	18	0.00	5.50	-0.37	10.10	2	07-Feb-18
14214R0019	19	0.00	1.00	-0.37	-0.93	2	07-Feb-18
14214R0020	20	0.00	1.00	-0.37	-0.93	2	07-Feb-18
BKG		0.00	2.00	-0.37	1.52	2	07-Feb-18
14214R0001Dup		0.50	3.00	1.92	3.97	2	07-Feb-18

MDAs (dpm/smear):	
Alpha:	11.1
Beta:	13.14

Smith,
 William
 (Forrest)

Digitally signed by Smith,
 William (Forrest)
 DN: dc=net, dc=orau,
 ou=Standard Accounts,
 ou=UserAccts, cn=Smith, William
 (Forrest),
 email=Forrest.Smith@orau.org
 Date: 2018.02.26 13:53:44 -05'00'