



MEMORANDUM FOR: SSgt Jeremy Boldt
36 MDOS/SGOAB
UNIT 40010
JOINT REGION MARIANAS, GUM 9654

2/20/2014 4:12:24 PM

FROM: USAFSAM OE Industrial Hygiene
2510 Fifth Street, Bldg 20840, Room W327
Wright Patterson Air Force Base, OH 45433-7913

REF: Order No.: S1401062

Dear SSgt Jeremy Boldt:

Enclosed are the sample reports from 16 samples received on 1/10/2014.

Samples, not consumed in analysis, will be held according to the appropriate regulatory authority unless you specifically request otherwise. Should you choose to reproduce this report, we recommend you do so in its entirety so that the integrity of the data package is kept intact.

If you have questions, or if we may be of further assistance to you, please do not hesitate to contact us.

Sincerely,

ERIC L WEATHERHOLT, Capt, USAF
Analytical Services Program Manager
Tel: (937) 938-2523 (DSN Prefix: 798)
<https://kx.afms.mil/chemlab>

Note: Sample analysis performed by: USAFSAM/OE Radioanalytical Division

This report is intended solely for the purpose of the person to whom it is addressed. If received in error, please notify the Program Manager listed above.

USAFSAM OE Industrial Hygiene

CLIENT: 36 MDOS/SGOAB

Project:

Lab Work Order: S1401062

CASE NARRATIVE

There were no problems associated with the samples or analysis except where noted below. Unless otherwise noted, sample results are not blank corrected, and all quality control associated with the samples were within acceptable limits.

These results relate only to the items tested.



Radioanalytical Services Laboratory
 2510 Fifth St, Area B Bldg 0840 WPAFB, OH 45433 - (937) 938-2523

Certificate of Analysis

Company: 36 MDOS/SOAB
 Address: UNIT 40010
 Report Date: 2/20/2014 4:12:24 PM
 JOINT REGION MARIANAS GUM, 96543-4010
 Contact: SSgt Jeremy Boldt
 Client Sample ID: WW131201
 Lab Sample ID: S1401062-01A
 Matrix: Wipe/Swipe Client ID: 0664Z
 Collection Date: 12/17/2013
 Receive Date: 1/10/2014
 Collector: Client

Parameter	Qualifier	Activity	Uncertainty	Lc	MDA	Units	Analyst	Date/Time	Batch
LSC Nickel-63									
Ni-63		3.18E+00	1.86E+00	9.23E-01	1.93E+00	pCi/Swipe	TDR	01/29/14 411	7182



Radioanalytical Services Laboratory
2510 Fifth St, Area B Bldg 0840 WPAFB, OH 45433 - (937) 938-2523

Certificate of Analysis

Company: 36 MDOS/SOAB
Address: UNIT 40010
Report Date: 2/20/2014 4:12:24 PM
JOINT REGION MARIANAS GUM, 96543-4010
Contact: SSgt Jeremy Boldt
Client Sample ID: WW131202
Lab Sample ID: S1401062-02A
Matrix: Wipe/Swipe Client ID: 0664Z
Collection Date: 12/17/2013
Receive Date: 1/10/2014
Collector: Client

Parameter	Qualifier	Activity	Uncertainty	Lc	MDA	Units	Analyst	Date/Time	Batch
LSC Nickel-63									
Ni-63		2.55E+00	1.65E+00	9.23E-01	1.93E+00	pCi/Swipe	TDR	01/29/14 433	7182



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Certificate of Analysis

Company: 36 MDOS/SOAB
Address: UNIT 40010
Report Date: 2/20/2014 4:12:24 PM
JOINT REGION MARIANAS GUM, 96543-4010
Contact: SSgt Jeremy Boldt
Client Sample ID: WW131203
Lab Sample ID: S1401062-03A
Matrix: Wipe/Swipe Client ID: 0664Z
Collection Date: 12/17/2013
Receive Date: 1/10/2014
Collector: Client

Parameter	Qualifier	Activity	Uncertainty	Lc	MDA	Units	Analyst	Date/Time	Batch
LSC Nickel-63									
Ni-63		4.84E+00	2.40E+00	9.23E-01	1.93E+00	pCi/Swipe	TDR	01/29/14 456	7182



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Certificate of Analysis

Company: 36 MDOS/SOAB
Address: UNIT 40010
Report Date: 2/20/2014 4:12:24 PM
JOINT REGION MARIANAS GUM, 96543-4010
Contact: SSgt Jeremy Boldt
Client Sample ID: WW131204
Lab Sample ID: S1401062-04A
Matrix: Wipe/Swipe Client ID: 0664Z
Collection Date: 12/17/2013
Receive Date: 1/10/2014
Collector: Client

Parameter	Qualifier	Activity	Uncertainty	Lc	MDA	Units	Analyst	Date/Time	Batch
LSC Nickel-63									
Ni-63		4.00E+00	2.08E+00	9.24E-01	1.93E+00	pCi/Swipe	TDR	01/29/14 519	7182



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Company: 36 MDOS/SOAB
Address: UNIT 40010
Report Date: 2/20/2014 4:12:24 PM
JOINT REGION MARIANAS GUM, 96543-4010
Contact: SSgt Jeremy Boldt
Client Sample ID: WW131205
Lab Sample ID: S1401062-05A
Matrix: Wipe/Swipe Client ID: 0664Z
Collection Date: 12/17/2013
Receive Date: 1/10/2014
Collector: Client

Parameter	Qualifier	Activity	Uncertainty	Lc	MDA	Units	Analyst	Date/Time	Batch
LSC Nickel-63									
Ni-63		4.06E+00	2.12E+00	9.23E-01	1.93E+00	pCi/Swipe	TDR	01/29/14 542	7182



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Company: 36 MDOS/SOAB
Address: UNIT 40010
Report Date: 2/20/2014 4:12:24 PM
JOINT REGION MARIANAS GUM, 96543-4010
Contact: SSgt Jeremy Boldt
Client Sample ID: WW131206
Lab Sample ID: S1401062-06A
Matrix: Wipe/Swipe Client ID: 0664Z
Collection Date: 12/17/2013
Receive Date: 1/10/2014
Collector: Client

Parameter	Qualifier	Activity	Uncertainty	Lc	MDA	Units	Analyst	Date/Time	Batch
LSC Nickel-63									
Ni-63		2.59E+00	1.64E+00	9.23E-01	1.93E+00	pCi/Swipe	TDR	01/29/14 604	7182



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Company: 36 MDOS/SOAB
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Report Date: 2/20/2014 4:12:24 PM
JOINT REGION MARIANAS GUM, 96543-4010
Contact: SSgt Jeremy Boldt
Client Sample ID: WW131207
Lab Sample ID: S1401062-07A
Matrix: Wipe/Swipe Client ID: 0664Z
Collection Date: 12/17/2013
Receive Date: 1/10/2014
Collector: Client

Parameter	Qualifier	Activity	Uncertainty	Lc	MDA	Units	Analyst	Date/Time	Batch
LSC Nickel-63									
Ni-63		1.20E+00	1.26E+00	9.24E-01	1.93E+00	pCi/Swipe	TDR	01/29/14 627	7182



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Company: 36 MDOS/SOAB
 Address: UNIT 40010
 Report Date: 2/20/2014 4:12:24 PM
 JOINT REGION MARIANAS GUM, 96543-4010
 Contact: SSgt Jeremy Boldt
 Client Sample ID: WW131208
 Lab Sample ID: S1401062-08A
 Matrix: Wipe/Swipe Client ID: 0664Z
 Collection Date: 12/17/2013
 Receive Date: 1/10/2014
 Collector: Client

Parameter	Qualifier	Activity	Uncertainty	Lc	MDA	Units	Analyst	Date/Time	Batch
LSC Nickel-63									
Ni-63		2.90E+00	1.71E+00	9.25E-01	1.93E+00	pCi/Swipe	TDR	01/29/14 650	7182



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Certificate of Analysis

Company: 36 MDOS/SOAB
Address: UNIT 40010
Report Date: 2/20/2014 4:12:24 PM
JOINT REGION MARIANAS GUM, 96543-4010
Contact: SSgt Jeremy Boldt
Client Sample ID: WW131209
Lab Sample ID: S1401062-09A
Matrix: Wipe/Swipe Client ID: 0664Z
Collection Date: 12/17/2013
Receive Date: 1/10/2014
Collector: Client

Parameter	Qualifier	Activity	Uncertainty	Lc	MDA	Units	Analyst	Date/Time	Batch
LSC Nickel-63									
Ni-63		2.57E+00	1.64E+00	9.23E-01	1.93E+00	pCi/Swipe	TDR	01/29/14 712	7182



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Report Date: 2/20/2014 4:12:24 PM
JOINT REGION MARIANAS GUM, 96543-4010
Contact: SSgt Jeremy Boldt
Client Sample ID: WW131210
Lab Sample ID: S1401062-10A
Matrix: Wipe/Swipe Client ID: 0664Z
Collection Date: 12/17/2013
Receive Date: 1/10/2014
Collector: Client

Parameter	Qualifier	Activity	Uncertainty	Lc	MDA	Units	Analyst	Date/Time	Batch
Gross Alpha/Beta									
Gross Beta		5.89E-02	3.11E-01	4.98E-01	1.22E+00	pCi/Swipe	TDR	01/28/14 1659	7183
Gross Alph		9.17E-02	1.32E-01	1.21E-01	5.96E-01	pCi/Swipe	TDR	01/28/14 1659	7183



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Company: 36 MDOS/SOAB
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 Report Date: 2/20/2014 4:12:24 PM
 JOINT REGION MARIANAS GUM, 96543-4010
 Contact: SSgt Jeremy Boldt
 Client Sample ID: WW131211
 Lab Sample ID: S1401062-11A
 Matrix: Wipe/Swipe Client ID: 0664Z
 Collection Date: 12/17/2013
 Receive Date: 1/10/2014
 Collector: Client

Parameter	Qualifier	Activity	Uncertainty	Lc	MDA	Units	Analyst	Date/Time	Batch
Gross Alpha/Beta									
Gross Beta		-2.53E-02	2.99E-01	4.98E-01	1.22E+00	pCi/Swipe	TDR	01/28/14 1709	7183
Gross Alph		9.17E-02	1.32E-01	1.21E-01	5.96E-01	pCi/Swipe	TDR	01/28/14 1709	7183



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Company: 36 MDOS/SOAB
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Report Date: 2/20/2014 4:12:24 PM
JOINT REGION MARIANAS GUM, 96543-4010
Contact: SSgt Jeremy Boldt
Client Sample ID: WW131212
Lab Sample ID: S1401062-12A
Matrix: Wipe/Swipe Client ID: 0664Z
Collection Date: 12/17/2013
Receive Date: 1/10/2014
Collector: Client

Parameter	Qualifier	Activity	Uncertainty	Lc	MDA	Units	Analyst	Date/Time	Batch
Gross Alpha/Beta									
Gross Beta		3.11E-01	3.43E-01	4.98E-01	1.22E+00	pCi/Swipe	TDR	01/28/14 1719	7183
Gross Alph		-3.93E-02	1.61E-02	1.21E-01	5.96E-01	pCi/Swipe	TDR	01/28/14 1719	7183



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Company: 36 MDOS/SOAB
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JOINT REGION MARIANAS GUM, 96543-4010
Contact: SSgt Jeremy Boldt
Client Sample ID: WW131213
Lab Sample ID: S1401062-13A
Matrix: Wipe/Swipe Client ID: 0664Z
Collection Date: 12/17/2013
Receive Date: 1/10/2014
Collector: Client

Parameter	Qualifier	Activity	Uncertainty	Lc	MDA	Units	Analyst	Date/Time	Batch
LSC Nickel-63									
Ni-63		7.47E-01	1.18E+00	9.23E-01	1.93E+00	pCi/Swipe	TDR	01/29/14 735	7182



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Company: 36 MDOS/SOAB
Address: UNIT 40010
Report Date: 2/20/2014 4:12:24 PM
JOINT REGION MARIANAS GUM, 96543-4010
Contact: SSgt Jeremy Boldt
Client Sample ID: WW131214
Lab Sample ID: S1401062-14A
Matrix: Wipe/Swipe Client ID: 0664Z
Collection Date: 12/17/2013
Receive Date: 1/10/2014
Collector: Client

Parameter	Qualifier	Activity	Uncertainty	Lc	MDA	Units	Analyst	Date/Time	Batch
LSC Nickel-63									
Ni-63		1.35E+00	1.29E+00	9.23E-01	1.93E+00	pCi/Swipe	TDR	01/29/14 758	7182



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Company: 36 MDOS/SOAB
 Address: UNIT 40010
 Report Date: 2/20/2014 4:12:24 PM
 JOINT REGION MARIANAS GUM, 96543-4010
 Contact: SSgt Jeremy Boldt
 Client Sample ID: WW131215
 Lab Sample ID: S1401062-15A
 Matrix: Wipe/Swipe Client ID: 0664Z
 Collection Date: 12/17/2013
 Receive Date: 1/10/2014
 Collector: Client

Parameter	Qualifier	Activity	Uncertainty	Lc	MDA	Units	Analyst	Date/Time	Batch
LSC Nickel-63									
Ni-63		2.44E+00	1.59E+00	9.23E-01	1.93E+00	pCi/Swipe	TDR	01/29/14 820	7182



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Company: 36 MDOS/SOAB
Address: UNIT 40010
Report Date: 2/20/2014 4:12:24 PM
JOINT REGION MARIANAS GUM, 96543-4010
Contact: SSgt Jeremy Boldt
Client Sample ID: WW131216
Lab Sample ID: S1401062-16A
Matrix: Wipe/Swipe Client ID: 0664Z
Collection Date: 12/17/2013
Receive Date: 1/10/2014
Collector: Client

Parameter	Qualifier	Activity	Uncertainty	Lc	MDA	Units	Analyst	Date/Time	Batch
LSC Nickel-63									
Ni-63		7.49E-01	1.18E+00	9.23E-01	1.93E+00	pCi/Swipe	TDR	01/29/14 951	7182



Radiation Qualifier List

Qualifier	Qualifier Description
A	Identification Rejected
B	(ELAP) Blank Contamination
C	Inconclusive
D	Misidentification
E	False Positive
F	Consistent with False Positive
G	Qualitatively consistent with detector background
H	Quantitatively consistent with detector background
I	Inconsistent energy shift
J	(ELAP) The reported results is an estimated value
N	(ELAP) Non-target analyte
Q	(ELAP) One or more quality control criteria failed
U	(ELAP) Analyte was not detected and is reported as less than the LOD
K	Inconsistent Full Width Half Max (FWHM)
L	Hold time exceeded
M	Results invalid