

1 Final

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3 Permittee-Initiated Interim Measures Report
4 Parcel 4A, Area of Concern 29

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6 Fort Wingate Depot Activity
7 McKinley County, New Mexico
8

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10 April 15, 2014
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13 Contract No. W9126G-11-D-0040
14 Task Order No. 0002
15

16
17 Prepared for:
18



20 **US Army Corps**
21 **of Engineers**®
22

23 United States Army Corps of Engineers
24 Fort Worth District
25 P.O. Box 17300
26 Fort Worth, Texas 76102
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29 Prepared by:
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34 Phoenix, Arizona 85034
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REPORT DOCUMENTATION PAGE

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This Report summarizes the Permittee-Initiated Interim Measures completed in October 2013 for Area of Concern (AOC) Block C of Parcel 4A, as outlined in the Notification of Permittee-Initiated Interim Measures dated September 10, 2013 and notice-to-proceed by the New Mexico Environment Department on September 24, 2013 via email correspondence.

15. SUBJECT TERMS
Fort Wingate Depot Activity, Permittee-Initiated Interim Measures Report, Parcel 4A, Area of Concern 29

16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT SAR	18. NUMBER OF PAGES 120	19a. NAME OF RESPONSIBLE PERSON Mark Patterson
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**NMED APPROVAL
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Final

Permittee-Initiated Interim Measures Report Parcel 4A, Area of Concern 29

Fort Wingate Depot Activity
McKinley County, New Mexico

April 15, 2014

Contract No. W9126G-11-D-0040
Task Order No. 0002

Prepared for:

United States Army Corps of Engineers
Fort Worth District
P.O. Box 17300
Fort Worth, Texas 76102

Prepared by:

AMEC Environment & Infrastructure, Inc.
4600 E. Washington Street, Ste. 600
Phoenix, Arizona 85034

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DOCUMENT CERTIFICATION
40 CFR 270.11
APRIL 2014

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Mr. Steven W. Smith, P.E.
Fort Wingate Program Manager

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PREFACE

This Permittee-Initiated Interim Measures Report summarizes the Permittee-Initiated Interim Measures completed in October 2013 for Area of Concern (AOC) Block C of Parcel 4A, as outlined in the Notification of Permittee-Initiated Interim Measures dated September 10, 2013 and approved by the New Mexico Environment Department on September 24, 2013 via email correspondence. This report addresses the requirements of the U.S. Army Corps of Engineers Statement of Work dated August 11, 2011.

This Report was prepared by AMEC Environment & Infrastructure, Inc. in January 2014. Mr. Mark Patterson served as the FWDA Base Realignment and Closure (BRAC) Environmental Coordinator and Mr. Steve Smith served as the USACE Project Manager.

Julie Hamilton, PG
Program Manager

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BEC = Base Realignment and Closure Environmental Coordinator
 BIA-NR = Bureau of Indian Affairs – Navajo Representative
 BRACD = U. S. Army Base Realignment and Closure Division
 FWDA = Fort Wingate Depot Activity
 NMED = New Mexico Environmental Department
 NN = Navajo Nation
 POZ = Pueblo of Zuni
 USACE SWF = U. S. Army Corps of Engineers – Fort Worth District
 USAEC = U. S. Army Environmental Command
 USEPA = U. S. Environmental Protection Agency

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TABLE OF CONTENTS

Section	Page
NMED APPROVAL	iii
DOCUMENT CERTIFICATION	i
PREFACE	iii
DOCUMENT DISTRIBUTION LIST	v
LIST OF ACRONYMS AND ABBREVIATIONS	ix
SECTION 1.0 INTRODUCTION	1-1
SECTION 2.0 PARCEL 4A INTERIM MEASURES	2-1
2.1 Drain Pipe Removal	2-1
2.2 Soil Removal	2-1
2.3 Confirmation Sampling	2-1
2.4 Waste Profile and Disposal	2-2
SECTION 3.0 PARCEL 2 TRANSFORMER I-25 SAMPLING AND RESULTS	3-1
SECTION 4.0 SUMMARY AND CONCLUSIONS	4-1

LIST OF TABLES

Table 1	Post Excavation Confirmation: C-1105, C-1109, C-1124, C-1128
Table 2	Soil Sampling Results
Table 3	Polychlorinated Biphenols Analytical Soil Results

LIST OF FIGURES

Figure 1	Sample Locations, AOC 29 – Block C Igloo and Revetment
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PHOTOGRAPHIC LOG

LIST OF APPENDICIES

Appendix A	Permittee Initiated Interim Measures Notification and NMED Notice-to-Proceed
Appendix B	Analytical Laboratory Report Summaries
Appendix C	Waste Disposal Documentation
Appendix D	Transformer I-25 Analytical Report Summary

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LIST OF ACRONYMS AND ABBREVIATIONS

1		
2	AOC	Area of Concern
3		
4	BRACD	U.S. Army Base Realignment and Closure Division
5		
6	FWDA	Fort Wingate Depot Activity
7		
8	mg/kg	milligrams per kilogram
9		
10	NMED	New Mexico Environment Department
11		
12	PCB	polychlorinated biphenols
13		
14	RCRA	Resource Conservation and Recovery Act
15		
16	SSL	Soil Screening Levels
17		
18	USACE	U.S. Army Corps of Engineers

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1 **SECTION 1.0 INTRODUCTION**

2 The Department of the Army, Fort Wingate Depot Activity (FWDA) has completed the Permittee-
3 Initiated Interim Measures per the Resource Conservation and Recovery Act (RCRA) Permit
4 NM6213820974 Section VII.G.3 for Area of Concern (AOC) 29, Block C of Parcel 4A. The
5 interim measures were outlined in the Notification of Permittee-Initiated Interim Measures dated
6 September 10, 2013 and approved by the New Mexico Environment Department (NMED) on
7 September 24, 2013 via email correspondence. The notification and corresponding approval is
8 included in Appendix A.

9 The Permittee-Initiated Interim Measures included the following:

- 10 · Removal of igloo drain pipes on Block C igloos.
- 11 · Excavation of soil where previous investigations indicated the presence of lead in the
12 soil above the NMED Soil Screening Level (SSL). This included both the left and right
13 drain pipes at Igloos C-1105, C-1109, and C-1128, and right drain pipe of Igloo C-1124.
14 Confirmation sampling was completed following the removal activities.
- 15 · Drain pipes and associated subsurface concrete from Igloos C-1551 and C-1552 were
16 removed. Soil sampling was conducted immediately below the former drain pipes to
17 evaluate whether there was any potential impact to the underlying soil.

18 Included with this letter report are the results of soil sampling conducted near former
19 transformer I-25 located in Parcel 2. This transformer is part of AOC 75 and was included in this
20 report due to its proximity to Parcel 4A.

21 Figure 1 depicts the location of the Block C igloos, sampling locations, and former transformer
22 I-25. A Photographic Log of the various site activities is included with this report.

1 **SECTION 2.0 PARCEL 4A INTERIM MEASURES**

2 The following sections describe the interim measures procedures and results for activities
3 performed at Parcel 4A.

4 **2.1 Drain Pipe Removal**

5 In preparation for drain pipe removal, plastic sheeting was placed below each pipe and the
6 piping was wrapped in tape to prevent any paint coating from being disturbed. The drain pipes
7 at each igloo were then cut at the wall with a Sawzall. Following the piping removal, the holes
8 were backfilled with a non-shrink grout. The drain pipe removal activities occurred during the
9 period of October 14 through 17, 2013.

10 The same procedure was generally performed for the drain pipes at C-1551 and C-1552.
11 However, since these drain pipes extended into the ground through a concrete pad, the
12 concrete was broken up and removed.

13 **2.2 Soil Removal**

14 Soil removal was performed below both the former left and right drain pipes at Igloos C-1105, C-
15 1109, and C-1128, and former right drain pipe of Igloo C-1124. The removal activities included
16 the removal of several inches of soil immediately surrounding each of the former igloo drain
17 outfalls. The excavated soil, totaling approximately 2 cubic yards, was placed into 55-gallon
18 drums and stored on the site pending waste characterization.

19 **2.3 Confirmation Sampling**

20 Following removal of soil beneath C-1105, C-1109, C-1124 and C-1128, a confirmation soil
21 sample was collected and submitted for analysis of total lead.

22 The results indicate that the Pb concentrations ranged from 11.9 milligrams per kilogram
23 (mg/kg) at 04A29-C-1128R to 157 mg/kg at 04A29-C-1109R. None of the confirmation samples
24 had concentrations that exceed the NMED SSL of 400 mg/kg for lead. The analytical results are
25 summarized on Table 1 and the laboratory report summary is included in Appendix B.

26 Samples were also collected beneath each drain at C-1551 and C-1552 to evaluate whether soil
27 was impacted. Soil below all igloo drain outfalls was sampled in June 2008 for lead (SW846
28 6010C/7471B) and Explosives (8330B) with the exception of Igloos C-1551 and C-1552, which
29 were not sampled during the original sampling event because the drain pipes were encased in
30 concrete. Therefore, upon removal of drains and concrete, igloos C-1551 and C-1552 were
31 sampled for explosives as well as metals to address the intent of the original sampling plan.

32 The results of the analyses are presented on Table 2. No metals were detected at
33 concentrations exceeding the NMED SSLs. Explosives were not detected. The laboratory report
34 summary is included in Appendix B.

1 All confirmation soil sampling activities were performed on November 16, 2013.

2 **2.4 Waste Profile and Disposal**

3 Waste characterization included the collection of one composite sample of the excavated soil.
4 Upon receipt of the results, a waste profile form was completed and submitted for approval to
5 the Waste Management San Juan County Landfill. Upon approval, the waste was shipped
6 under proper manifest for disposal as a nonhazardous solid waste. Waste characterization
7 results and disposal documentation is included as Appendix C.

8 The steel igloo drain pipes were removed and transported to American Metal Recycling in
9 Gallup, New Mexico for recycling.

1 **SECTION 3.0 PARCEL 2 TRANSFORMER I-25 SAMPLING AND RESULTS**

2 AOC 75 includes several former transformers at FWDA. Former transformer I-25 is located in
3 Parcel 2, adjacent to Parcel 4A. Due to its proximity to Parcel 4A, the results have been
4 included as part of this Permittee-Initiated Interim Measures Report. A soil sample was collected
5 directly below the former pole-mounted transformer. This sample was collected on August 15,
6 2013 and submitted for analysis of polychlorinated biphenols (PCBs). No PCBs were detected
7 at or above the analytical reporting limit. The results are summarized on Table 3 and the
8 laboratory report summary is included in Appendix D.

1 **SECTION 4.0 SUMMARY AND CONCLUSIONS**

2 Permittee-Initiated Interim Measures were completed for Parcel 4A, AOC 29. Activities included
3 drain pipe removal and plugging, limited soil excavation, confirmation sampling, and waste
4 profile and disposal. Based upon the analytical results of the confirmation sampling, this
5 concludes the interim measures for Parcel 4A. No further investigation or corrective measures
6 are warranted in Parcel 4A, AOC 29 with the potential exception of the igloo interiors. The status
7 of the igloo interiors in AOC 29 remains under discussion between the Army and NMED. The
8 Army is recommending no further investigation or corrective action for the soils within C-Block
9 (AOC 29).

10 Based upon the results of the PCB testing beneath Transformer I-25 and a visual inspection, it
11 does not appear that the transformer has leaked and/or impacted the underlying soil. As such,
12 no further investigation is warranted for this portion of AOC 75.

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TABLES

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TABLE 1
Confirmation Soil Sample Results
Igloos C-1105, C-1109, C-1124, C-1128
Parcel 4A, Area of Concern 29
Fort Wingate Depot Activity

Sample ID	Sample Date	Depth (feet)	Lead ¹ (mg/kg)
04A29-C-1105L-EC-0.0-0.5-D-SO	11/16/2013	0 - 0.5	15.9
04A29-C-1105R-EC-0.0-0.5-D-SO	11/16/2013	0 - 0.5	38.1
04A29-C-1109L-EC-0.0-0.5-D-SO	11/16/2013	0 - 0.5	157
04A29-C-1109R-EC-0.0-0.5-D-SO	11/16/2013	0 - 0.5	13
04A29-C-1109R-EC-0.0-0.5-D-SO-DUP	11/16/2013	0 - 0.5	13.3
04A29-C-1124R-EC-0.0-0.5-D-SO	11/16/2013	0 - 0.5	20.1
04A29-C-1128L-EC-0.0-0.5-D-SO	11/16/2013	0 - 0.5	126
04A29-C-1128R-EC-0.0-0.5-D-SO	11/16/2013	0 - 0.5	11.9

Notes:

¹ New Mexico Environmental Department Soil Screening Level for lead is 400 (Feb 2012).

Lead by USEPA Method 6010.

Nondetected results are reported as the Limit of Detection.

mg/kg = milligrams per kilogram

Sample ID Nomenclature:

Example: 04A29-C-1551L-EC-0.0-0.5-D-SO

Parcel: 4A

AOC: 29

Site Identifier: C-1551 (in this case it's igloo block C number 1551)

Source of Sample: L (left side of igloo)

Purpose of Sample: EC (excavation confirmation)

Sample Depth: 0.X-0.X (in this case it's 0.0-0.5 feet)

Sample Type: D (discrete)

Sample Matrix: SO (soil)

TABLE 3
Soil Sample Results
Former Transformer I-25
Parcel 4A, Area of Concern 29
Fort Wingate Depot Activity

			PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260
NMED SSLs			3.93	1.49	1.49	2.22	2.22	1.12	2.22
EPA RSLs			-	-	-	-	-	-	-
Sample ID	Sample Date	Depth (feet)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
0275TRI25SS001DSO	8/15/2013	0 - 0.5	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U

Notes:

Polychlorinated Biphenols (PCB) by USEPA Method 6270SIM.

Nondetected results are reported as the Limit of Detection.

J=estimated

U=not detected at or above the laboratory detection limit

mg/kg=milligrams per kilogram

NMED SSLs = New Mexico Environmental Department Soil Screening Levels (Feb 2012).

EPA RSLs = US Environmental Protection Agency Regional Screening Levels;

EPA RSLs are only present in the table when there is no NMED screening level.

Sample ID Nomenclature:

Example: 0275TRI25SS001DSO

Parcel: 2

AOC: 75

Site Identifier: TRI25 (in this case it's Transformer I-25)

Source of Sample: SS (surface sample)

Increment Number: 001

Sample Type: D (discrete)

Sample Matrix: SO (soil)

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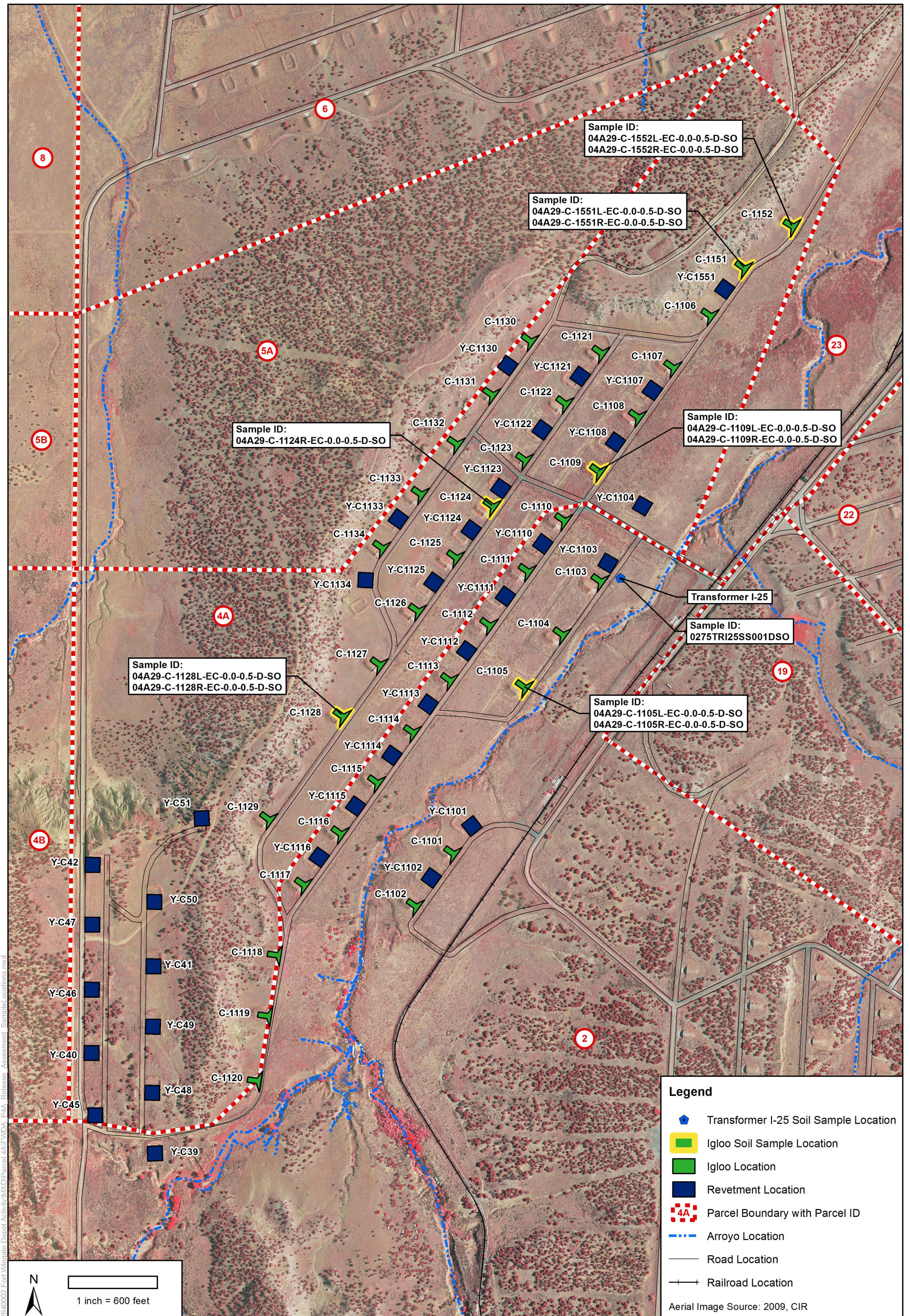
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FIGURE

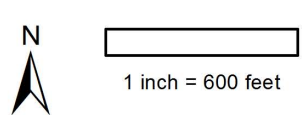
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U.S. ARMY CORPS OF ENGINEERS
FORT WORTH DISTRICT

AMEC
Environment & Infrastructure, Inc.

DWN BY:	EAC
CHK'D BY:	TO
DATUM:	NAD 1983
PROJECTION:	STATE PLANE NM WEST
SCALE:	1:7,200

FORT WINGATE DEPOT ACTIVITY
PARCEL 4A PERMITTEE-INITIATED
INTERIM MEASURES REPORT

SAMPLE LOCATIONS
AOC 29 - BLOCK C IGLOO AND REVETMENT

DATE:	February 2014
PROJECT NO.:	912640002.0012.02
FIGURE NO.:	1

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PHOTOGRAPHIC LOG

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Permittee-Initiated Interim Measures Report
Parcel 4A – Area of Concern 29
Fort Wingate Depot Activity, New Mexico

PHOTOGRAPHIC LOG



Photograph No. 1
A view of Igloo C-1105.



Photograph No. 2
A view of a drain pipe at Igloo C-1105.

Permittee-Initiated Interim Measures Report
Parcel 4A – Area of Concern 29
Fort Wingate Depot Activity, New Mexico

PHOTOGRAPHIC LOG



Photograph No. 3

A view of excavated soil beneath the removed drain pipe at Igloo C-1105.



Photograph No. 4

A view of Igloo C-1124.

Permittee-Initiated Interim Measures Report
Parcel 4A – Area of Concern 29
Fort Wingate Depot Activity, New Mexico

PHOTOGRAPHIC LOG



Photograph No. 5

A view of excavated soil beneath a drain pipe at Igloo C-1124.



Photograph No. 6

A view of Igloo C-1116.

Permittee-Initiated Interim Measures Report
Parcel 4A – Area of Concern 29
Fort Wingate Depot Activity, New Mexico

PHOTOGRAPHIC LOG



Photograph No. 7
A view of the removed drain pipe at Igloo C-1116.



Photograph No. 8
A view of Igloo C-1551.

Permittee-Initiated Interim Measures Report
Parcel 4A – Area of Concern 29
Fort Wingate Depot Activity, New Mexico

PHOTOGRAPHIC LOG



Photograph No. 9

A view of a drain pipe and excavated soil around the drain pipe at Igloo C-1551.



Photograph No. 10

A view of the removed drain pipe and concrete at Igloo C-1551.

Permittee-Initiated Interim Measures Report
Parcel 4A – Area of Concern 29
Fort Wingate Depot Activity, New Mexico

PHOTOGRAPHIC LOG



Photograph No. 11

A view of excavated soil beneath a drain pipe at Igloo C-1551.



Photograph No. 12

A view of a plugged drain pipe at Igloo C-1551.

Permittee-Initiated Interim Measures Report
Parcel 4A – Area of Concern 29
Fort Wingate Depot Activity, New Mexico

PHOTOGRAPHIC LOG



Photograph No. 13
A view of Igloo C-1552.



Photograph No. 14
A view of excavated soil beneath a drain pipe at Igloo C-1552.

Permittee-Initiated Interim Measures Report
Parcel 4A – Area of Concern 29
Fort Wingate Depot Activity, New Mexico

PHOTOGRAPHIC LOG



Photograph No. 15

A view of a plugged drain pipe at Igloo C-1552.



Photograph No. 16

A view of the base of the pole for Transformer I25 with Igloo C-1103 in the background.

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APPENDIX A

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**PERMITTEE INITIATED INTERIM MEASURES NOTIFICATION AND
NMED NOTICE-TO-PROCEED**

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DEPARTMENT OF THE ARMY
FORT WINGATE DEPOT ACTIVITY
P.O BOX 268
FORT WINGATE, NM 87316

REPLY TO
ATTENTION OF

September 10, 2013

Mr. John Kieling
Chief, Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, New Mexico 87505-6303

RE: Parcel 4A
Notification of Permittee-Initiated Interim Measures
Fort Wingate Army Depot, New Mexico
EPA ID #NM62138209074

Dear Mr. Kieling:

The Department of the Army respectfully submits this notification to implement Permittee-Initiated Interim Measures per the Resource Conservation and Recovery Act (RCRA) permit section VII.G.3 for the removal of soil below igloo drain outfalls and igloo drain pipes that contain lead-based paint in Block C of Parcel 4A. It is our intention to perform the measures in the September/October time frame while our contractor is onsite performing other RCRA Facility Investigation activities at several other parcels.

As documented in the Final Release Assessment Report (RAR), Parcel 4A (Revision 2), dated October 11, 2012, the Army recommended soil removal from under both drains at C-1105, C-1109, and C-1128 based on initial June 2008 data and September 2010 X-ray fluorescence (XRF) readings over the New Mexico Environment Department (NMED) soil screening criteria for lead or arsenic. Due to the inconsistencies found in data comparison between the lab data and XRF data, the Army has elected to remove soil from both drains on the three igloos. In addition, based on a September 2010 XRF reading for lead over the NMED soil screening criteria, soil would be removed on the right side of C-1124.

The Army will remove a few inches of soil from each of these igloo drain outfalls, estimated to be approximately $\frac{1}{4}$ cubic yard per drain. Soil will be disposed in accordance with applicable local, state, and federal regulations. Confirmation samples will be collected at each location and analyzed for lead to ensure concentrations are below NMED cleanup standards. If standards are exceeded, additional soil will be removed until the standard is met. If a safety hazard exists after soil removal, soil will be replaced with soil from one of the nearby revetment berms which have already been tested for lead and explosives and found to have concentrations below cleanup standards.

During the same time frame as the soil removal, the Army will also remove drain pipes and plug holes from all igloos in block C. The pipes will be recycled. Igloos C-1551 and C-1552 each have two drains that extend down to approximately 2 feet below grade into concrete. The Army will remove and properly dispose the piping and concrete below the surface. Soil samples will be collected at each of the four locations and analyzed for RCRA metals and explosives. Upon receipt of analytical results, the holes will be backfilled if results confirm the samples are below the Soil Screening Levels.

As discussed in the RAR, the Army has decided to include transformer I-25 in the Parcel 4A RAR so that all issues within Area of Concern 29 are addressed in one document and because Parcel 4A is ahead of Parcel 2 in the Permit schedule. The Army will collect one soil sample under the former I-25 transformer location for analysis of polychlorinated biphenyls. All chemical testing for the proposed work will be done by a Corps approved lab. XRF will not be used.

Following completion of the interim measures, a brief letter report documenting our findings will be submitted for your approval.

Sincerely,



Mark Patterson
BRAC Environmental Coordinator

CF:

Shannon Duran, NMED HWB
Dave Cobrain, NMED HWB
Laurie King, U.S. EPA Region 6
Chuck Hendrickson, U.S. EPA Region 6
Tony Perry, Navajo Nation
Eugenia Quintana, Navajo Nation
Darrell Tsabetsaye, Zuni Pueblo
Steve Beran, Zuni Pueblo
Clayton Seoutewa, Southwest Region BIA
Rose Duwyenie, Navajo BIA
Judith Wilson, BIA
Eldine Stevens, BIA
Ben Burshia, BIA
Julie Hamilton, AMEC

Hamilton, Julie

From: Smith, Steve W SWF [Steve.W.Smith@usace.army.mil]
Sent: Tuesday, September 24, 2013 11:37 AM
To: Hamilton, Julie
Cc: Scoville, Michael G SWF
Subject: FW: Interim Measure at Ft. Wingate (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Julie,

We got NMED's ok via this email with the interim measure at 4A. The date matched the 4A letter and this is the only one we've recently sent so this 'ok' has to be for 4A. Keep this and include in your report.

Steve

-----Original Message-----

From: Wear, Benjamin, NMENV [<mailto:Benjamin.Wear@state.nm.us>]
Sent: Tuesday, September 24, 2013 11:43 AM
To: Smith, Steve W SWF; Patterson, Mark C Mr CIV USA OSA
Cc: Cobrain, Dave, NMENV
Subject: [EXTERNAL] Interim Measure at Ft. Wingate

Steve and Mark,

The NMED Hazardous Waste Bureau has received and reviewed your letter titled, "Notification of Permittee-Initiated Interim Measure at Fort Wingate Depot Activity, McKinley County, New Mexico", dated September 10, 2013.

Please proceed with the activities as described in the letter.

Thank you,

Ben Wear

Environmental Scientist

Hazardous Waste Bureau

New Mexico Environment Department

2905 Rodeo Park Dr. East, Bldg. 1

Santa Fe, NM 87505

1

2
3
4
5
6

APPENDIX B
ANALYTICAL LABORATORY REPORT SUMMARIES
(Full Lab Report on CD)

1

2

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3

TABLE OF CONTENTS

CLIENT: AMEC
PROJECT: FORT WINGATE DEPOT ACTIVITY
SDG: 13K132

SECTION		PAGE
Cover Letter, COC/Sample Receipt Form		1000 – 1007
GC/MS-VOA	**	2000 –
GC/MS-SVOA	**	3000 –
GC-VOA	**	4000 –
GC-SVOA	**	5000 –
HPLC	METHOD 8330A METHOD 8332	6000 – 6047 6048 – 6100
METALS	METHOD SW3050B/6010B METHOD SW7471A	7000 – 7193 7194 – 7215
WET	**	8000 –
OTHERS	**	9000 –

** - Not Requested



LABORATORIES, INC.
1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 12-04-2013
EMAX Batch No.: 13K132

Attn: Marie Bevier

AMEC
7376 SW Durham Road
Portland OR 97224

Subject: Laboratory Report
Project: Fort Wingate Depot Activity

Enclosed is the Laboratory report for samples received on 11/19/13.
The data reported relate only to samples listed below :

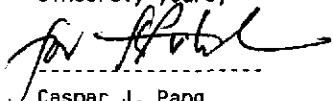
Sample ID	Control #	Col Date	Matrix	Analysis
04A29-C-1551L-EC-0.0-0.5-D-SO	K132-01	11/16/13	SOIL	METALS RCRA MERCURY NITROAROMATICS & NITRAMINES NITROGLYCERINE AND PETN
04A29-C-1551R-EC-0.0-0.5-D-SO	K132-02	11/16/13	SOIL	METALS RCRA MERCURY NITROAROMATICS & NITRAMINES NITROGLYCERINE AND PETN
04A29-C-1552L-EC-0.0-0.5-D-SO	K132-03	11/16/13	SOIL	METALS RCRA MERCURY NITROAROMATICS & NITRAMINES NITROGLYCERINE AND PETN
04A29-C-1552R-EC-0.0-0.5-D-SO	K132-04	11/16/13	SOIL	METALS RCRA MERCURY NITROAROMATICS & NITRAMINES NITROGLYCERINE AND PETN
04A29-C-1105R-EC-0.0-0.5-D-SO	K132-05	11/16/13	SOIL	LEAD
04A29-C-1105L-EC-0.0-0.5-D-SO	K132-06	11/16/13	SOIL	LEAD
04A29-C-1109R-EC-0.0-0.5-D-SO	K132-07	11/16/13	SOIL	LEAD

Sample ID	Control #	Col Date	Matrix	Analysis
04A29-C-1109R-EC-0.0-0.5-D-SO-DUP	K132-08	11/16/13	SOIL	LEAD
04A29-C-1109L-EC-0.0-0.5-D-SO	K132-09	11/16/13	SOIL	LEAD
04A29-C-1128R-EC-0.0-0.5-D-SO	K132-10	11/16/13	SOIL	LEAD
04A29-C-1128L-EC-0.0-0.5-D-SO	K132-11	11/16/13	SOIL	LEAD
04A29-C-1124R-EC-0.0-0.5-D-SO	K132-12	11/16/13	SOIL	LEAD
04A29-C-1552R-EC-0.0-0.5-D-SOMS	K132-04M	11/16/13	SOIL	METALS RCRA MERCURY NITROAROMATICS & NITRAMINES NITROGLYCERINE AND PETN
04A29-C-1552R-EC-0.0-0.5-D-SOMSD	K132-04S	11/16/13	SOIL	METALS RCRA MERCURY NITROAROMATICS & NITRAMINES NITROGLYCERINE AND PETN

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,



Caspar J. Pang
Laboratory Director

This report is confidential and intended solely for the use of the individual or entity to whom it is addressed. This report shall not be reproduced except in full or without the written approval of EMAX.

EMAX certifies that results included in this report meets all NELAC & DOD requirements unless noted in the Case Narrative.

NELAC Accredited Certificate Number 02116CA
L-A-B Accredited DoD ELAP and ISO/IEC 17025 Certificate Number L2278 Testing



SAMPLE RECEIPT FORM 1

Type of Delivery		Airbill / Tracking Number		ECN 13 K132
<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> UPS	<input type="checkbox"/> GSO	<input type="checkbox"/> Others	Recipient <u>J. Patel</u>
<input type="checkbox"/> EMAX Courier		<input type="checkbox"/> Client Delivery		Date <u>11/19/13</u> Time <u>0930</u>

COC Inspection

<input checked="" type="checkbox"/> Client Name	<input checked="" type="checkbox"/> Client PM/FC	<input checked="" type="checkbox"/> Sampler Name	<input type="checkbox"/> Sampling Date/Time/Location	<input checked="" type="checkbox"/> Sample ID	<input type="checkbox"/> Matrix
<input checked="" type="checkbox"/> Address	<input checked="" type="checkbox"/> Tel # / Fax #	<input type="checkbox"/> Courier Signature	<input checked="" type="checkbox"/> Analysis Required	<input type="checkbox"/> Preservative (if any)	<input checked="" type="checkbox"/> MAT
Safety Issues (if any)	<input type="checkbox"/> High concentrations expected	<input type="checkbox"/> Superfund Site samples	<input type="checkbox"/> Rad screening required		

Comments:

Packaging Inspection

Container	<input checked="" type="checkbox"/> Cooler	<input type="checkbox"/> Box	<input type="checkbox"/> Other
Condition	<input checked="" type="checkbox"/> Custody Seal *	<input checked="" type="checkbox"/> Intact	<input type="checkbox"/> Damaged
Packaging	<input checked="" type="checkbox"/> Bubble Pack	<input type="checkbox"/> Styrofoam	<input type="checkbox"/> Popcorn
Temperatures	<input checked="" type="checkbox"/> Cooler 1 <u>4.5</u> °C	<input checked="" type="checkbox"/> Cooler 2 <u>4.9</u> °C	<input type="checkbox"/> Cooler 3 _____ °C
(Cool, ≤6 °C but not frozen)	<input type="checkbox"/> Cooler 6 _____ °C	<input type="checkbox"/> Cooler 7 _____ °C	<input type="checkbox"/> Cooler 8 _____ °C
Thermometer:	A - S/N 101541371	B - S/N 101541382	<input checked="" type="checkbox"/> Sufficient
		<input checked="" type="checkbox"/> S/N 122091701	<input type="checkbox"/> Cooler 4 _____ °C
			<input type="checkbox"/> Cooler 9 _____ °C
			<input type="checkbox"/> Cooler 5 _____ °C
			<input type="checkbox"/> Cooler 10 _____ °C

Comments: Temperature is out of range. PM was informed IMMEDIATELY.

Note: pH holding time requirement for water samples is 15 mins. Water samples for pH analysis are received beyond 15 minutes from sampling time.

DISCREPANCIES				
LSID	LSCID	Description Code	Sample Label ID / Information	Corrective Action Code
<u>1-4</u>		<u>A3</u>	<u>Label requests Metals only -</u>	<u>R2</u>

Continue to next page.

REVIEWS

Sample Labeling <u>J. Patel</u>	SRF <u>Caplan</u>	PM <u>Am</u>
Date <u>11-19-13</u>	Date <u>11/19/13</u>	Date <u>11/19/13</u>

LEGEND:

Code	Description-Sample Management	Code	Description-Sample Management	Code	Description-Project Management
A1	Analysis is not indicated in COC.	G1	Sample indicated in COC is not received.	R1	Hold sample(s), wait for further instructions
A2	Analysis is not indicated in label.	G2	MS/MSD is not indicated in COC.	R2	Proceed as indicated in COC and inform client.
A3	Analysis is inconsistent in COC vis-à-vis label.	G3	No identified trip blank, proceed as indicated in COC.	R3	Refer to attached instruction
B1	Sample ID is not indicated in COC.	G4	Trip Blank is designated in SDG _____	R4	Cancel the analysis
B2	Sample ID is not indicated in label.	G5	Trip Blank has no sampling date & time. Log-in with latest sampling date and 1 minute past the time of the last sample collected on the same date.	R5	Inform client.
B3	Sample ID is inconsistent in COC vis-à-vis label.	H1	_____	R6	Proceed as indicated in COC
C1	Improper container				
C2	Broken container				
C3	Leaking container				
D1	Date and/or time is not indicated in COC.				
D2	Date and/or time is not indicated in label.				
D3	Date and/or time is inconsistent in COC vis-à-vis label.				
F1	Improper preservation				
F2	Insufficient Sample				
F3	Bubble is > 6mm. Use vial with smallest bubble first.				
F4	Bubble is > 6mm in all vials.				
F5	>20 % solid particle				
F6	Out of Holding Time				

METHOD SW8330A
EXPLOSIVES

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=====
Client      : AMEC E & I           Date   Collected: 11/16/13
Project    : FORT WINGATE DEPOT ACTIVITY Date   Received: 11/19/13
Batch No.  : 13K132                Date   Extracted: 11/26/13 20:52
Sample ID: 04A29-C-1551L-EC-0.0-0.5-D-SO Date   Analyzed: 12/02/13 20:07
Lab Samp ID: K132-01              Dilution Factor: 1
Lab File ID: XL02014A            Matrix      : SOIL
Ext Btch ID: EXK026S             % Moisture  : NA
Calib. Ref.: XL02010A           Instrument ID : T-081
=====

```

PARAMETERS	RESULTS (mg/kg)	LOQ (mg/kg)	DL (mg/kg)	LOD (mg/kg)
HMX	ND	0.40	0.050	0.20
RDX	ND	0.40	0.050	0.20
1,3,5-TNB	ND	0.40	0.050	0.20
1,3-DNB	ND	0.40	0.050	0.20
TETRYL	ND	0.40	0.057	0.20
NITROBENZENE	ND	0.40	0.050	0.20
2,4,6-TNT	ND	0.40	0.050	0.20
4-AM-2,6-DNT	ND	0.40	0.050	0.20
2-AM-4,6-DNT	ND	0.40	0.050	0.20
2,6-DNT	ND	0.40	0.056	0.20
2,4-DNT	ND	0.40	0.055	0.20
2-NITROTOLUENE	ND	0.40	0.076	0.20
3-NITROTOLUENE	ND	0.40	0.095	0.20
4-NITROTOLUENE	ND	0.40	0.099	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DINITROBENZENE	1.94	2.000	97.0	70-140

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD SW8330A
EXPLOSIVES

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=====
Client      : AMEC E & I           Date Collected: 11/16/13
Project    : FORT WINGATE DEPOT ACTIVITY Date Received: 11/19/13
Batch No.  : 13K132              Date Extracted: 11/26/13 20:52
Sample ID: 04A29-C-1551R-EC-0.0-0.5-D-SO Date Analyzed: 12/02/13 20:43
Lab Samp ID: K132-02            Dilution Factor: 1
Lab File ID: XL02015A          Matrix       : SOIL
Ext Btch ID: EXK026S          % Moisture   : NA
Calib. Ref.: XL02010A        Instrument ID : T-081
=====

```

PARAMETERS	RESULTS (mg/kg)	LOQ (mg/kg)	DL (mg/kg)	LOD (mg/kg)
HMX	ND	0.40	0.050	0.20
RDX	ND	0.40	0.050	0.20
1,3,5-TNB	ND	0.40	0.050	0.20
1,3-DNB	ND	0.40	0.050	0.20
TETRYL	ND	0.40	0.057	0.20
NITROBENZENE	ND	0.40	0.050	0.20
2,4,6-TNT	ND	0.40	0.050	0.20
4-AM-2,6-DNT	ND	0.40	0.050	0.20
2-AM-4,6-DNT	ND	0.40	0.050	0.20
2,6-DNT	ND	0.40	0.056	0.20
2,4-DNT	ND	0.40	0.055	0.20
2-NITROTOLUENE	ND	0.40	0.076	0.20
3-NITROTOLUENE	ND	0.40	0.095	0.20
4-NITROTOLUENE	ND	0.40	0.099	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DINITROBENZENE	1.91	2.000	95.7	70-140

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD SW8330A
EXPLOSIVES

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=====
Client      : AMEC E & I           Date Collected: 11/16/13
Project    : FORT WINGATE DEPOT ACTIVITY Date Received: 11/19/13
Batch No.  : 13K132              Date Extracted: 11/26/13 20:52
Sample ID: 04A29-C-1552L-EC-0.0-0.5-D-SO Date Analyzed: 12/02/13 21:19
Lab Samp ID: K132-03            Dilution Factor: 1
Lab File ID: XL02016A          Matrix       : SOIL
Ext Btch ID: EXK026S           % Moisture   : NA
Calib. Ref.: XL02010A         Instrument ID : T-081
=====

```

PARAMETERS	RESULTS (mg/kg)	LOQ (mg/kg)	DL (mg/kg)	LOD (mg/kg)
-----	-----	-----	-----	-----
HMX	ND	0.40	0.050	0.20
RDX	ND	0.40	0.050	0.20
1,3,5-TNB	ND	0.40	0.050	0.20
1,3-DNB	ND	0.40	0.050	0.20
TETRYL	ND	0.40	0.057	0.20
NITROBENZENE	ND	0.40	0.050	0.20
2,4,6-TNT	ND	0.40	0.050	0.20
4-AM-2,6-DNT	ND	0.40	0.050	0.20
2-AM-4,6-DNT	ND	0.40	0.050	0.20
2,6-DNT	ND	0.40	0.056	0.20
2,4-DNT	ND	0.40	0.055	0.20
2-NITROTOLUENE	ND	0.40	0.076	0.20
3-NITROTOLUENE	ND	0.40	0.095	0.20
4-NITROTOLUENE	ND	0.40	0.099	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
-----	-----	-----	-----	-----
1,2-DINITROBENZENE	1.93	2.000	96.4	70-140

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD SW8330A
EXPLOSIVES

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=====
Client      : AMEC E & I           Date Collected: 11/16/13
Project    : FORT WINGATE DEPOT ACTIVITY Date Received: 11/19/13
Batch No.  : 13K132              Date Extracted: 11/26/13 20:52
Sample ID: 04A29-C-1552R-EC-0.0-0.5-D-SO Date Analyzed: 12/02/13 21:55
Lab Samp ID: K132-04            Dilution Factor: 1
Lab File ID: XL02017A          Matrix       : SOIL
Ext Btch ID: EXK026S           % Moisture   : NA
Calib. Ref.: XL02010A         Instrument ID : T-081
=====

```

PARAMETERS	RESULTS (mg/kg)	LOQ (mg/kg)	DL (mg/kg)	LOD (mg/kg)
HMX	ND	0.40	0.050	0.20
RDX	ND	0.40	0.050	0.20
1,3,5-TNB	ND	0.40	0.050	0.20
1,3-DNB	ND	0.40	0.050	0.20
TETRYL	ND	0.40	0.057	0.20
NITROBENZENE	ND	0.40	0.050	0.20
2,4,6-TNT	ND	0.40	0.050	0.20
4-AM-2,6-DNT	ND	0.40	0.050	0.20
2-AM-4,6-DNT	ND	0.40	0.050	0.20
2,6-DNT	ND	0.40	0.056	0.20
2,4-DNT	ND	0.40	0.055	0.20
2-NITROTOLUENE	ND	0.40	0.076	0.20
3-NITROTOLUENE	ND	0.40	0.095	0.20
4-NITROTOLUENE	ND	0.40	0.099	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DINITROBENZENE	1.97	2.000	98.7	70-140

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD SW8330A
EXPLOSIVES

```

=====
Client      : AMEC E & I           Date Collected: NA
Project    : FORT WINGATE DEPOT ACTIVITY Date Received: 11/26/13
Batch No.  : 13K132              Date Extracted: 11/26/13 20:52
Sample ID: MBLK1S               Date Analyzed: 12/02/13 18:19
Lab Samp ID: EXK026SB          Dilution Factor: 1
Lab File ID: XL02011A         Matrix       : SOIL
Ext Btch ID: EXK026S         % Moisture   : NA
Calib. Ref.: XL02010A       Instrument ID : T-081
=====

```

PARAMETERS	RESULTS (mg/kg)	LOQ (mg/kg)	DL (mg/kg)	LOD (mg/kg)
HMX	ND	0.40	0.050	0.20
RDX	ND	0.40	0.050	0.20
1,3,5-TNB	ND	0.40	0.050	0.20
1,3-DNB	ND	0.40	0.050	0.20
TETRYL	ND	0.40	0.057	0.20
NITROBENZENE	ND	0.40	0.050	0.20
2,4,6-TNT	ND	0.40	0.050	0.20
4-AM-2,6-DNT	ND	0.40	0.050	0.20
2-AM-4,6-DNT	ND	0.40	0.050	0.20
2,6-DNT	ND	0.40	0.056	0.20
2,4-DNT	ND	0.40	0.055	0.20
2-NITROTOLUENE	ND	0.40	0.076	0.20
3-NITROTOLUENE	ND	0.40	0.095	0.20
4-NITROTOLUENE	ND	0.40	0.099	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DINITROBENZENE	1.94	2.000	97.0	70-140

Note: All positive results are confirmed by Phenyl-Hexyl column

CLIENT: AMEC E & I
 PROJECT: FORT WINGATE DEPOT ACTIVITY
 BATCH NO. : 13K132
 METHOD: SW8330A

=====

MATRIX: SOIL % MOISTURE: NA
 DILUTION FACTOR: 1 1
 SAMPLE ID: MBLK1S
 LAB SAMP ID: EXK026SB EXK026SL EXK026SC
 LAB FILE ID: XL02011A XL02012A XL02013A
 DATE EXTRACTED: 11/26/1320:52 11/26/1320:52 11/26/1320:52 DATE COLLECTED: NA
 DATE ANALYZED: 12/02/1318:19 12/02/1318:55 12/02/1319:31 DATE RECEIVED: 11/26/13
 PREP. BATCH: EXK026S EXK026S EXK026S
 CALIB. REF: XL02010A XL02010A XL02010A

ACCESSION:

PARAMETER	(mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
-----	ND	2.00	2.04	102	2.00	2.01	100	1	75-125	30
HMX	ND	2.00	1.91	96	2.00	1.92	96	0	70-135	30
-----	ND	2.00	2.13	107	2.00	2.17	109	2	75-125	30
1,3,5-TNB	ND	2.00	2.12	106	2.00	2.16	108	2	80-125	30
1,3-DNB	ND	2.00	1.82	91	2.00	1.84	92	1	60-140	30
Tetryl	ND	2.00	2.12	106	2.00	2.18	109	3	75-125	30
-----	ND	2.00	1.95	97	2.00	1.96	98	0	55-140	30
2,4,6-TNT	ND	2.00	2.30	115	2.00	2.36	118	3	80-125	30
4-AM-2,6-DNT	ND	2.00	2.15	108	2.00	2.15	108	0	80-125	30
2-AM-4,6-DNT	ND	2.00	2.20	110	2.00	2.19	109	1	80-120	30
2,6-DNT	ND	2.00	2.20	110	2.00	2.29	114	4	80-125	30
2,4-DNT	ND	2.00	2.08	104	2.00	2.06	103	1	80-125	30
2-Nitrotoluene	ND	2.00	2.17	109	2.00	2.00	100	8	75-120	30
3-Nitrotoluene	ND	2.00	1.81	90	2.00	2.02	101	11	75-125	30
4-Nitrotoluene	ND	2.00	1.81	90	2.00	2.02	101	11	75-125	30

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SURROGATE PARAMETER	(mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT (%)
-----	2.00	2.26	113	2.00	2.13	106	70-140
1,2-Dinitrobenzene							

SPIKE AMT

CLIENT: AMEC E & I
 PROJECT: FORT WINGATE DEPOT ACTIVITY
 BATCH NO. : 13K132
 METHOD: SW8330A

=====

MATRIX: SOIL % MOISTURE: NA
 DILUTION FACTOR: 1 1 1
 SAMPLE ID: 04A29-C-1552R-EC-0.0-0.5-D-SO
 LAB SAMP ID: K132-04 K132-04M K132-04S
 LAB FILE ID: XL02017A XL02018A XL02019A
 DATE EXTRACTED: 11/26/1320:52 11/26/1320:52 11/26/1320:52 DATE COLLECTED: 11/16/13
 DATE ANALYZED: 12/02/1321:55 12/02/1322:31 12/02/1323:07 DATE RECEIVED: 11/19/13
 PREP. BATCH: EXK026S EXK026S EXK026S
 CALIB. REF: XL02010A XL02010A XL02010A

ACCESSION:

PARAMETER	(mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
HMX	ND	2.00	1.92	96	2.00	1.91	96	0	75-125	30
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MAXX QUALITY CONTROL DATA	ND	2.00	1.82	91	2.00	1.82	91	0	70-135	30
1,3,5-TNB	ND	2.00	2.01	101	2.00	2.11	105	4	75-125	30
1,3-DNB	ND	2.00	2.10	105	2.00	2.12	106	1	80-125	30
Tetryl	ND	2.00	1.58	79	2.00	1.56	78	1	60-140	30
MSD Benzene	ND	2.00	2.09	105	2.00	2.06	103	2	75-125	30
MSD Benzene	ND	2.00	1.97	99	2.00	1.99	100	1	55-140	30
2,4,6-TNT	ND	2.00	2.34	117	2.00	2.36	118	1	80-125	30
4-AM-2,6-DNT	ND	2.00	2.13	107	2.00	2.15	107	1	80-125	30
2-AM-4,6-DNT	ND	2.00	2.14	107	2.00	2.17	108	1	80-120	30
2,6-DNT	ND	2.00	2.20	110	2.00	2.20	110	0	80-125	30
2,4-DNT	ND	2.00	2.08	104	2.00	1.98	99	5	80-125	30
2-Nitrotoluene	ND	2.00	2.02	101	2.00	1.99	99	2	75-120	30
3-Nitrotoluene	ND	2.00	2.00	100	2.00	1.92	96	4	75-125	30
4-Nitrotoluene	ND	2.00	2.00	100	2.00	1.92	96	4	75-125	30

=====

SURROGATE PARAMETER	(mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT (%)
-----	-----	-----	-----	-----	-----	-----	-----
1,2-Dinitrobenzene	2.00	2.18	109	2.00	2.16	108	70-140

SPIKE AMT

METHOD 8332
Nitroglycerin and PETN

```

=====
Client      : AMEC E & I           Date Collected: 11/16/13
Project     : FORT WINGATE DEPOT ACTIVITY Date Received: 11/19/13
Batch No.   : 13K132              Date Extracted: 11/26/13 20:52
Sample ID: 04A29-C-1551L-EC-0.0-0.5-D-SO Date Analyzed: 12/02/13 19:27
Lab Samp ID: K132-01             Dilution Factor: 1
Lab File ID: PL02040A           Matrix          : SOIL
Ext Btch ID: EXK026S            % Moisture     : NA
Calib. Ref.: PL02035A          Instrument ID   : T-017
=====

```

PARAMETERS	RESULTS (mg/kg)	LOQ (mg/kg)	DL (mg/kg)	LOD (mg/kg)
NITROGLYCERINE	ND	1.0	0.25	0.50
PETN	ND	1.0	0.25	0.50

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DINITROBENZENE	2.17	2.000	109	70-140

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

```

=====
Client      : AMEC E & I           Date Collected: 11/16/13
Project    : FORT WINGATE DEPOT ACTIVITY Date Received: 11/19/13
Batch No.  : 13K132              Date Extracted: 11/26/13 20:52
Sample ID: 04A29-C-1551R-EC-0.0-0.5-D-SO Date Analyzed: 12/02/13 19:41
Lab Samp ID: K132-02            Dilution Factor: 1
Lab File ID: PL02041A          Matrix          : SOIL
Ext Btch ID: EXK026S           % Moisture     : NA
Calib. Ref.: PL02035A          Instrument ID  : T-017
=====

```

PARAMETERS	RESULTS (mg/kg)	LOQ (mg/kg)	DL (mg/kg)	LOD (mg/kg)
NITROGLYCERINE	ND	1.0	0.25	0.50
PETN	ND	1.0	0.25	0.50

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DINITROBENZENE	2.13	2.000	106	70-140

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

```

=====
Client       : AMEC E & I           Date Collected: 11/16/13
Project      : FORT WINGATE DEPOT ACTIVITY Date Received: 11/19/13
Batch No.    : 13K132              Date Extracted: 11/26/13 20:52
Sample ID: 04A29-C-1552L-EC-0.0-0.5-D-SO Date Analyzed: 12/02/13 19:54
Lab Samp ID: K132-03              Dilution Factor: 1
Lab File ID: PL02042A            Matrix         : SOIL
Ext Btch ID: EXK026S             % Moisture    : NA
Calib. Ref.: PL02035A           Instrument ID  : T-017
=====

```

PARAMETERS	RESULTS (mg/kg)	LOQ (mg/kg)	DL (mg/kg)	LOD (mg/kg)
NITROGLYCERINE	ND	1.0	0.25	0.50
PETN	ND	1.0	0.25	0.50

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DINITROBENZENE	2.16	2.000	108	70-140

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

```

=====
Client       : AMEC E & I           Date Collected: 11/16/13
Project      : FORT WINGATE DEPOT ACTIVITY Date Received: 11/19/13
Batch No.    : 13K132              Date Extracted: 11/26/13 20:52
Sample ID: 04A29-C-1552R-EC-0.0-0.5-D-SO Date Analyzed: 12/02/13 20:08
Lab Samp ID: K132-04              Dilution Factor: 1
Lab File ID: PL02043A             Matrix          : SOIL
Ext Btch ID: EXK026S              % Moisture     : NA
Calib. Ref.: PL02035A             Instrument ID   : T-017
=====

```

PARAMETERS	RESULTS (mg/kg)	LOQ (mg/kg)	DL (mg/kg)	LOD (mg/kg)
NITROGLYCERINE	ND	1.0	0.25	0.50
PETN	ND	1.0	0.25	0.50

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DINITROBENZENE	2.16	2.000	108	70-140

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

```

=====
Client      : AMEC E & I           Date Collected: NA
Project    : FORT WINGATE DEPOT ACTIVITY Date Received: 11/26/13
Batch No.  : 13K132              Date Extracted: 11/26/13 20:52
Sample ID: MBLK1S               Date Analyzed: 12/02/13 16:41
Lab Samp ID: EXK026SB          Dilution Factor: 1
Lab File ID: PL02028A         Matrix       : SOIL
Ext Btch ID: EXK026S          % Moisture   : NA
Calib. Ref.: PL02024A         Instrument ID : T-017
=====

```

PARAMETERS	RESULTS (mg/kg)	LOQ (mg/kg)	DL (mg/kg)	LOD (mg/kg)
NITROGLYCERINE	ND	1.0	0.25	0.50
PETN	ND	1.0	0.25	0.50

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DINITROBENZENE	2.20	2.000	110	70-140

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

CLIENT: AMEC E & I
 PROJECT: FORT WINGATE DEPOT ACTIVITY
 BATCH NO.: 13K132
 METHOD: Method 8332

=====

MATRIX: SOIL % MOISTURE: NA
 DILUTION FACTOR: 1 1
 SAMPLE ID: MBLK1S
 LAB SAMP ID: EXK026SB EXK026SX EXK026SY
 LAB FILE ID: PL02028A PL02029A PL02030A
 DATE EXTRACTED: 11/26/1320:52 11/26/1320:52 11/26/1320:52 DATE COLLECTED: NA
 DATE ANALYZED: 12/02/1316:41 12/02/1316:55 12/02/1317:09 DATE RECEIVED: 11/26/13
 PREP. BATCH: EXK026S EXK026S EXK026S
 CALIB. REF: PL02024A PL02024A PL02024A

ACCESSION:

PARAMETER	(mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Nitroglycerine	ND	7.50	6.21	83	7.50	6.39	85	3	70-130	50
PMMA QUALITY CONTROL DATA	ND	7.50	6.17	82	7.50	6.25	83	1	30-160	50

=====

LCS/LCD ANALYSIS

SURROGATE PARAMETER	(mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT (%)
1,2-Dinitrobenzene	2.00	2.20	110	2.00	2.22	111	70-140

BLNK RSLT

SPIKE AMT

CLIENT: AMEC E & I
 PROJECT: FORT WINGATE DEPOT ACTIVITY
 BATCH NO.: 13K132
 METHOD: Method 8332

=====

MATRIX: SOIL % MOISTURE: NA
 DILUTION FACTOR: 1 1 1
 SAMPLE ID: 04A29-C-1552R-EC-0.0-0.5-D-SO
 LAB SAMP ID: K132-04 K132-04M K132-04S
 LAB FILE ID: PL02043A PL02044A PL02045A
 DATE EXTRACTED: 11/26/1320:52 11/26/1320:52 11/26/1320:52 DATE COLLECTED: 11/16/13
 DATE ANALYZED: 12/02/1320:08 12/02/1320:22 12/02/1320:36 DATE RECEIVED: 11/19/13
 PREP. BATCH: EXK026S EXK026S EXK026S
 CALIB. REF: PL02035A PL02035A PL02035A

ACCESSION:

PARAMETER	(mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Nitroglycerine	ND	7.50	6.44	86	7.50	6.41	85	0	70-130	50
PMMA QUALITY CONTROL DATA	ND	7.50	6.41	85	7.50	6.37	85	1	30-160	50

=====

MS/MSD ANALYSIS

SURROGATE PARAMETER	(mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT (%)
1,2-Dinitrobenzene	2.00	2.14	107	2.00	2.12	106	70-140

SMPL RSLT

SPIKE AMT

METHOD SW3050B/6010B
RCRA METALS BY TRACE ICP

```

=====
Client      : AMEC E & I           Date Collected: 11/16/13 09:10
Project    : FORT WINGATE DEPOT ACTIVITY Date Received: 11/19/13
SDG NO.    : 13K132              Date Extracted: 11/21/13 16:45
Sample ID: 04A29-C-1551L-EC-0.0-0.5-D-SO Date Analyzed: 11/22/13 22:28
Lab Samp ID: K132-01             Dilution Factor: 0.943
Lab File ID: ID8K030150         Matrix          : SOIL
Ext Btch ID: IPK030S           % Moisture     : 5.5
Calib. Ref.: ID8K030140        Instrument ID  : EMAXTID8
=====

```

PARAMETERS	RESULTS (mg/kg)	LOQ (mg/kg)	DL (mg/kg)	LOD (mg/kg)
Arsenic	1.74	0.998	0.200	0.399
Barium	520	0.998	0.0998	0.200
Cadmium	ND	0.998	0.0998	0.200
Chromium	10.9	0.998	0.150	0.299
Lead	20.0	0.998	0.150	0.299
Selenium	ND	0.998	0.269	0.499
Silver	ND	0.998	0.150	0.299

METHOD SW3050B/6010B
 RCRA METALS BY TRACE ICP

```

=====
Client      : AMEC E & I           Date Collected: 11/16/13 08:40
Project    : FORT WINGATE DEPOT ACTIVITY Date Received: 11/19/13
SDG NO.    : 13K132              Date Extracted: 11/21/13 16:45
Sample ID: 04A29-C-1551R-EC-0.0-0.5-D-SO Date Analyzed: 11/22/13 22:31
Lab Samp ID: K132-02            Dilution Factor: 0.980
Lab File ID: ID8K030151        Matrix       : SOIL
Ext Btch ID: IPK030S          % Moisture   : 7.1
Calib. Ref.: ID8K030140       Instrument ID : EMAXTID8
=====
  
```

PARAMETERS	RESULTS (mg/kg)	LOQ (mg/kg)	DL (mg/kg)	LOD (mg/kg)
Arsenic	2.25	1.05	0.211	0.422
Barium	414	1.05	0.105	0.211
Cadmium	ND	1.05	0.105	0.211
Chromium	14.6	1.05	0.158	0.316
Lead	42.7	1.05	0.158	0.316
Selenium	ND	1.05	0.285	0.527
Silver	ND	1.05	0.158	0.316

METHOD SW3050B/6010B
RCRA METALS BY TRACE ICP

```

=====
Client      : AMEC E & I           Date Collected: 11/16/13 08:00
Project     : FORT WINGATE DEPOT ACTIVITY Date Received: 11/19/13
SDG NO.    : 13K132              Date Extracted: 11/21/13 16:45
Sample ID: 04A29-C-1552L-EC-0.0-0.5-D-SO Date Analyzed: 11/25/13 14:19
Lab Samp ID: K132-03N           Dilution Factor: 1.00
Lab File ID: ID8K031022        Matrix      : SOIL
Ext Btch ID: IPK030S           % Moisture  : 8.8
Calib. Ref.: ID8K031020       Instrument ID : EMAXTID8
=====

```

PARAMETERS	RESULTS (mg/kg)	LOQ (mg/kg)	DL (mg/kg)	LOD (mg/kg)
Arsenic	2.42	1.10	0.219	0.439
Barium	419	1.10	0.110	0.219
Cadmium	0.337J	1.10	0.110	0.219
Chromium	9.53	1.10	0.164	0.329
Lead	22.9	1.10	0.164	0.329
Selenium	ND	1.10	0.296	0.548
Silver	ND	1.10	0.164	0.329

METHOD SW3050B/6010B
RCRA METALS BY TRACE ICP

```

=====
Client      : AMEC E & I           Date Collected: 11/16/13 08:06
Project    : FORT WINGATE DEPOT ACTIVITY Date Received: 11/19/13
SDG NO.    : 13K132              Date Extracted: 11/21/13 16:45
Sample ID: 04A29-C-1552R-EC-0.0-0.5-D-SO Date Analyzed: 11/22/13 22:15
Lab Samp ID: K132-04             Dilution Factor: 1.00
Lab File ID: ID8K030146         Matrix          : SOIL
Ext Btch ID: IPK030S           % Moisture     : 11.0
Calib. Ref.: ID8K030140       Instrument ID  : EMAXTID8
=====

```

PARAMETERS	RESULTS (mg/kg)	LOQ (mg/kg)	DL (mg/kg)	LOD (mg/kg)
Arsenic	3.54	1.12	0.225	0.449
Barium	1140	1.12	0.112	0.225
Cadmium	0.373J	1.12	0.112	0.225
Chromium	12.1	1.12	0.169	0.337
Lead	92.6	1.12	0.169	0.337
Selenium	ND	1.12	0.303	0.562
Silver	ND	1.12	0.169	0.337

METHOD SW3050B/6010B
 RCRA METALS BY TRACE ICP

```

=====
Client      : AMEC E & I           Date Collected: NA
Project     : FORT WINGATE DEPOT ACTIVITY Date Received: 11/21/13
SDG NO.    : 13K132              Date Extracted: 11/21/13 16:45
Sample ID: MBLK1S                Date Analyzed: 11/22/13 22:03
Lab Samp ID: IPK030SB           Dilution Factor: 1
Lab File ID: ID8K030142        Matrix      : SOIL
Ext Btch ID: IPK030S           % Moisture  : NA
Calib. Ref.: ID8K030140       Instrument ID : EMAXTID8
=====
  
```

PARAMETERS	RESULTS (mg/kg)	LOQ (mg/kg)	DL (mg/kg)	LOD (mg/kg)
Arsenic	ND	1.00	0.200	0.400
Barium	ND	1.00	0.100	0.200
Cadmium	ND	1.00	0.100	0.200
Chromium	ND	1.00	0.150	0.300
Lead	ND	1.00	0.150	0.300
Selenium	ND	1.00	0.270	0.500
Silver	ND	1.00	0.150	0.300

CLIENT: AMEC E & I
 PROJECT: FORT WINGATE DEPOT ACTIVITY
 SDG NO.: 13K132
 METHOD: SW3050B/6010B

=====

MATRIX: SOIL % MOISTURE: NA
 DILTN FACTR: 1 1 1
 SAMPLE ID: MBLK1S
 CONTROL NO.: IPK030SB IPK030SL IPK030SC
 LAB FILE ID: ID8K030142 ID8K030143 ID8K030144
 DATIME EXTRCTD: 11/21/1316:45 11/21/1316:45 11/21/1316:45 DATE COLLECTED: NA
 DATIME ANALYZD: 11/22/1322:03 11/22/1322:06 11/22/1322:09 DATE RECEIVED: 11/21/13
 PREP. BATCH: IPK030S IPK030S IPK030S
 CALIB. REF: ID8K030140 ID8K030140 ID8K030140

ACCESSION:

PARAMETER	mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
-----	ND	50	49.7	99	50	48.9	98	2	80-120	20
Arsenic	ND	50	51.3	103	50	49.9	100	3	80-120	20
-----	ND	50	50.2	100	50	49.3	99	2	80-120	20
Maximum QUALITY CONTROL DATA	ND	50	50.5	101	50	49.3	99	2	80-120	20
Cadmium	ND	50	51.1	102	50	50.1	100	2	80-120	20
Chromium	ND	50	50.7	101	50	49.7	99	2	80-120	20
Lead	ND	50	48.9	98	50	47.7	95	2	75-125	20
Mercury ANALYSIS	ND	50								
Selenium										
Silver										

BLNK RSLT

CLIENT: AMEC E & I
 PROJECT: FORT WINGATE DEPOT ACTIVITY
 SDG NO.: 13K132
 METHOD: SW3050B/6010B

=====

MATRIX: SOIL % MOISTURE: 11.0
 DILTN FACTR: 1.00 0.971 0.952
 SAMPLE ID: 04A29-C-1552R-EC-0.0-0.5-D-SO
 CONTROL NO.: K132-04 K132-04M K132-04S
 LAB FILE ID: ID8K030146 ID8K030148 ID8K030149
 DATIME EXTRCTD: 11/21/1316:45 11/21/1316:45 11/21/1316:45 DATE COLLECTED: 11/16/13 08:06
 DATIME ANALYZD: 11/22/1322:15 11/22/1322:22 11/22/1322:25 DATE RECEIVED: 11/19/13
 PREP. BATCH: IPK030S IPK030S IPK030S
 CALIB. REF: ID8K030140 ID8K030140 ID8K030140

ACCESSION:

PARAMETER	mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Arsenic	3.54	54.6	58.6	101	53.5	56.8	100	3	80-120	20
Maximum QUALITY CONTROL DATA	1140	54.6	361	-1428*	53.5	325	-1524*	10	80-120	20
Cadmium	.373J	54.6	52.8	96	53.5	50.8	94	4	80-120	20
Chromium	12.1	54.6	69.6	105	53.5	65.1	99	7	80-120	20
Lead	92.6	54.6	162	127*	53.5	140	89	15	80-120	20
MSD ANALYSIS	ND	54.6	57	104	53.5	54.7	102	4	80-120	20
Selenium	ND	54.6	56.8	104	53.5	54.8	102	4	75-125	20
Silver										

SMPL RSLT

METHOD SW3050B/6010B
LEAD BY TRACE ICP

```
=====  
Client      : AMEC E & I           Date Collected: 11/16/13 10:20  
Project     : FORT WINGATE DEPOT ACTIVITY Date Received: 11/19/13  
SDG NO.    : 13K132              Date Extracted: 11/22/13 15:45  
Sample ID: 04A29-C-1105R-EC-0.0-0.5-D-SO Date Analyzed: 11/25/13 15:12  
Lab Samp ID: K132-05             Dilution Factor: 0.943  
Lab File ID: ID8K031039         Matrix          : SOIL  
Ext Btch ID: IPK031S           % Moisture     : 6.4  
Calib. Ref.: ID8K031029        Instrument ID  : EMAXTID8  
=====
```

PARAMETERS	RESULTS (mg/kg)	LOQ (mg/kg)	DL (mg/kg)	LOD (mg/kg)
----- Lead	38.1	1.01	0.151	0.302

METHOD SW3050B/6010B
LEAD BY TRACE ICP

=====
Client : AMEC E & I Date Collected: 11/16/13 10:16
Project : FORT WINGATE DEPOT ACTIVITY Date Received: 11/19/13
SDG NO. : 13K132 Date Extracted: 11/22/13 15:45
Sample ID: 04A29-C-1105L-EC-0.0-0.5-D-SO Date Analyzed: 11/25/13 15:15
Lab Samp ID: K132-06 Dilution Factor: 0.990
Lab File ID: ID8K031040 Matrix : SOIL
Ext Btch ID: IPK031S % Moisture : 9.4
Calib. Ref.: ID8K031029 Instrument ID : EMAXTID8
=====

PARAMETERS	RESULTS (mg/kg)	LOQ (mg/kg)	DL (mg/kg)	LOD (mg/kg)
----- Lead	15.9	1.09	0.164	0.328

METHOD SW3050B/6010B
LEAD BY TRACE ICP

```
=====  
Client      : AMEC E & I           Date   Collected: 11/16/13 09:43  
Project     : FORT WINGATE DEPOT ACTIVITY Date   Received: 11/19/13  
SDG NO.    : 13K132              Date   Extracted: 11/22/13 15:45  
Sample ID: 04A29-C-1109R-EC-0.0-0.5-D-SO Date   Analyzed: 11/25/13 15:24  
Lab Samp ID: K132-07             Dilution Factor: 0.990  
Lab File ID: ID8K031043         Matrix      : SOIL  
Ext Btch ID: IPK031S           % Moisture   : 3.2  
Calib. Ref.: ID8K031041        Instrument ID : EMAXTID8  
=====
```

PARAMETERS	RESULTS (mg/kg)	LOQ (mg/kg)	DL (mg/kg)	LOD (mg/kg)
----- Lead	13.0	1.02	0.153	0.307

METHOD SW3050B/6010B
LEAD BY TRACE ICP

=====
Client : AMEC E & I Date Collected: 11/16/13 09:45
Project : FORT WINGATE DEPOT ACTIVITY Date Received: 11/19/13
SDG NO. : 13K132 Date Extracted: 11/22/13 15:45
Sample ID: 04A29-C-1109R-EC-0.0-0.5-D-SO-DUP Date Analyzed: 11/25/13 15:27
Lab Samp ID: K132-08 Dilution Factor: 0.990
Lab File ID: ID8K031044 Matrix : SOIL
Ext Btch ID: IPK031S % Moisture : 3.3
Calib. Ref.: ID8K031041 Instrument ID : EMAXTID8
=====

PARAMETERS	RESULTS (mg/kg)	LOQ (mg/kg)	DL (mg/kg)	LOD (mg/kg)
----- Lead	13.3	1.02	0.154	0.307

METHOD SW3050B/6010B
LEAD BY TRACE ICP

```
=====  
Client      : AMEC E & I           Date Collected: 11/16/13 09:47  
Project     : FORT WINGATE DEPOT ACTIVITY Date Received: 11/19/13  
SDG NO.    : 13K132             Date Extracted: 11/22/13 15:45  
Sample ID: 04A29-C-1109L-EC-0.0-0.5-D-SO Date Analyzed: 11/25/13 15:30  
Lab Samp ID: K132-09           Dilution Factor: 0.962  
Lab File ID: ID8K031045       Matrix          : SOIL  
Ext Btch ID: IPK031S          % Moisture     : 3.1  
Calib. Ref.: ID8K031041       Instrument ID  : EMAXTID8  
=====
```

PARAMETERS	RESULTS (mg/kg)	LOQ (mg/kg)	DL (mg/kg)	LOD (mg/kg)
----- Lead	157	0.993	0.149	0.298

METHOD SW3050B/6010B
LEAD BY TRACE ICP

=====
Client : AMEC E & I Date Collected: 11/16/13 09:28
Project : FORT WINGATE DEPOT ACTIVITY Date Received: 11/19/13
SDG NO. : 13K132 Date Extracted: 11/22/13 15:45
Sample ID: 04A29-C-1128R-EC-0.0-0.5-D-SO Date Analyzed: 11/25/13 15:33
Lab Samp ID: K132-10 Dilution Factor: 0.962
Lab File ID: ID8K031046 Matrix : SOIL
Ext Btch ID: IPK031S % Moisture : 12.8
Calib. Ref.: ID8K031041 Instrument ID : EMAXTID8
=====

PARAMETERS	RESULTS (mg/kg)	LOQ (mg/kg)	DL (mg/kg)	LOD (mg/kg)
----- Lead	11.9	1.10	0.165	0.331

METHOD SW3050B/6010B
LEAD BY TRACE ICP

=====
Client : AMEC E & I Date Collected: 11/16/13 09:35
Project : FORT WINGATE DEPOT ACTIVITY Date Received: 11/19/13
SDG NO. : 13K132 Date Extracted: 11/22/13 15:45
Sample ID: 04A29-C-1128L-EC-0.0-0.5-D-SO Date Analyzed: 11/25/13 15:36
Lab Samp ID: K132-11 Dilution Factor: 0.990
Lab File ID: ID8K031047 Matrix : SOIL
Ext Btch ID: IPK031S % Moisture : 12.1
Calib. Ref.: ID8K031041 Instrument ID : EMAXTID8
=====

PARAMETERS	RESULTS (mg/kg)	LOQ (mg/kg)	DL (mg/kg)	LOD (mg/kg)
----- Lead	126	1.13	0.169	0.338

METHOD SW3050B/6010B
LEAD BY TRACE ICP

```
=====  
Client      : AMEC E & I           Date Collected: 11/16/13 09:18  
Project     : FORT WINGATE DEPOT ACTIVITY Date Received: 11/19/13  
SDG NO.    : 13K132              Date Extracted: 11/22/13 15:45  
Sample ID: 04A29-C-1124R-EC-0.0-0.5-D-SO Date Analyzed: 11/25/13 15:00  
Lab Samp ID: K132-12             Dilution Factor: 0.943  
Lab File ID: ID8K031035         Matrix          : SOIL  
Ext Btch ID: IPK031S           % Moisture     : 8.2  
Calib. Ref.: ID8K031029        Instrument ID  : EMAXTID8  
=====
```

PARAMETERS	RESULTS (mg/kg)	LOQ (mg/kg)	DL (mg/kg)	LOD (mg/kg)
----- Lead	20.1	1.03	0.154	0.308

METHOD SW3050B/6010B
LEAD BY TRACE ICP

```
=====  
Client      : AMEC E & I           Date   Collected: NA  
Project     : FORT WINGATE DEPOT ACTIVITY Date   Received: 11/22/13  
SDG NO.    : 13K132              Date   Extracted: 11/22/13 15:45  
Sample ID: MBLK1S                Date   Analyzed: 11/25/13 14:48  
Lab Samp ID: IPK031SB            Dilution Factor: 1  
Lab File ID: ID8K031031         Matrix   : SOIL  
Ext Btch ID: IPK031S            % Moisture : NA  
Calib. Ref.: ID8K031029        Instrument ID : EMAXTID8  
=====
```

PARAMETERS	RESULTS (mg/kg)	LOQ (mg/kg)	DL (mg/kg)	LOD (mg/kg)
----- Lead	ND	1.00	0.150	0.300

CLIENT: AMEC E & I
 PROJECT: FORT WINGATE DEPOT ACTIVITY
 SDG NO.: 13K132
 METHOD: SW3050B/6010B

=====

MATRIX: SOIL % MOISTURE: NA
 DILTN FACTR: 1 1 1
 SAMPLE ID: MBLK1S
 CONTROL NO.: IPK031SB IPK031SL IPK031SC
 LAB FILE ID: ID8K031031 ID8K031032 ID8K031033
 DATIME EXTRCTD: 11/22/1315:45 11/22/1315:45 11/22/1315:45 DATE COLLECTED: NA
 DATIME ANALYZD: 11/25/1314:48 11/25/1314:51 11/25/1314:54 DATE RECEIVED: 11/22/13
 PREP. BATCH: IPK031S IPK031S IPK031S
 CALIB. REF: ID8K031029 ID8K031029 ID8K031029

ACCESSION:

PARAMETER	mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Lead	ND	50	52.4	105	50	51.9	104	1	80-120	20

EMAX QUALITY CONTROL DATA

LCS/LCD ANALYSIS

BLNK RSLT

CLIENT: AMEC E & I
 PROJECT: FORT WINGATE DEPOT ACTIVITY
 SDG NO.: 13K132
 METHOD: SW3050B/6010B

=====

MATRIX: SOIL % MOISTURE: 8.2
 DILTN FACTR: 0.943 0.935 1.00
 SAMPLE ID: 04A29-C-1124R-EC-0.0-0.5-D-SO
 CONTROL NO.: K132-12 K132-12M K132-12S
 LAB FILE ID: ID8K031035 ID8K031037 ID8K031038
 DATIME EXTRCTD: 11/22/1315:45 11/22/1315:45 11/22/1315:45 DATE COLLECTED: 11/16/13 09:18
 DATIME ANALYZD: 11/25/1315:00 11/25/1315:06 11/25/1315:09 DATE RECEIVED: 11/19/13
 PREP. BATCH: IPK031S IPK031S IPK031S
 CALIB. REF: ID8K031029 ID8K031029 ID8K031029

ACCESSION:

PARAMETER	mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Lead	20.1	50.9	72	102	54.5	81.7	113	13	80-120	20

EMAX QUALITY CONTROL DATA

MS/MSD ANALYSIS

SMPL RSLT

=====
 : AMEC E & I
 : FORT WINGATE DEPOT ACTIVITY
 Client : 13K132
 Project
 Batch No.

: SOIL
 : 47

CLIENT	EMAX	RESULTS	DIL'N	MOIST	LOQ	DL	LOD	ANALYSIS	PREPARATION	DATA	CAL	PREP	COLLECTION	RECEIVED
SAMPLE ID	SAMPLE ID	(mg/Kg)	FACTOR	(%)	(mg/Kg)	(mg/Kg)	(mg/Kg)	DATETIME	DATETIME	FILE ID	REF	BATCH	DATETIME	DATETIME
HGK016SB	HGK016SB	ND	1	NA	0.1	0.01	0.02	11/21/1317:28	11/21/1314:10	M47K010043	M47K010	HGK016S	NA	NA
HGK016SL	HGK016SL	0.438	1	NA	0.1	0.01	0.02	11/21/1317:30	11/21/1314:10	M47K010044	M47K010	HGK016S	NA	NA
MBLK1S	HGK016SC	0.437	1	NA	0.1	0.01	0.02	11/21/1317:33	11/21/1314:10	M47K010045	M47K010	HGK016S	NA	NA
LCS1S	K132-01	0.0131J	1	NA	0.0984	0.00984	0.0197	11/21/1318:16	11/21/1314:10	M47K010065	M47K010	HGK016S	11/16/1309:10	11/19/13
LCD1S	K132-02	ND	1	NA	0.0984	0.00984	0.0197	11/21/1318:19	11/21/1314:10	M47K010065	M47K010	HGK016S	11/16/1308:40	11/19/13
04A29-C-1551L-EC-0.0-0.5-D-SO	K132-03	0.0110J	1	NA	0.1	0.01	0.02	11/21/1318:21	11/21/1314:10	M47K010066	M47K010	HGK016S	11/16/1308:00	11/19/13
04A29-C-1551R-EC-0.0-0.5-D-SO	K132-04	ND	1	NA	0.102	0.0102	0.0203	11/21/1318:25	11/21/1314:10	M47K010068	M47K010	HGK016S	11/16/1308:06	11/19/13
04A29-C-1552L-EC-0.0-0.5-D-SO	K132-04M	0.477	1	NA	0.1	0.01	0.02	11/21/1318:34	11/21/1314:10	M47K010072	M47K010	HGK016S	11/16/1308:06	11/19/13
04A29-C-1552R-EC-0.0-0.5-D-SO	K132-04S	0.460	1	NA	0.1	0.01	0.02	11/21/1318:36	11/21/1314:10	M47K010073	M47K010	HGK016S	11/16/1308:06	11/19/13
04A29-C-1552R-EC-0.0-0.5-D-SOMS														
04A29-C-1552R-EC-0.0-0.5-D-SOMSD														

METHOD SW7471A

MERCURY

: AMEC E & I
 : FORT WINGATE DEPOT ACTIVITY
 CLIENT : 13K132
 PROJECT : SW7471A
 BATCH NO.
 METHOD

=====SOIL===== % MOISTURE: N/A=====

MATRIX	: MBLK1S	LCS1S	LCD1S
DILUTION FACTOR: 1	: HGK016SB	HGK016SL	HGK016SC
SAMPLE ID	: M47K010043	M47K010044	M47K010045
LAB SAMPLE ID	: 11/21/1314:10	11/21/1314:10	11/21/1314:10
LAB FILE ID	: 11/21/1317:28	11/21/1317:30	11/21/1317:33
DATE PREPARED	: HGK016S	HGK016S	HGK016S
DATE ANALYZED		M47K010	M47K010
PREP BATCH			
CALIBRATION REF:	M47K010		

ACCESSION:	(mg/Kg)	(mg/Kg)	(mg/Kg)	BS REC (%)	SPIKE AMT (mg/Kg)	BSD RESULT (mg/Kg)	BSD REC (%)	RPD (%)	QC LIMIT (%)	MAX RPD (%)
PARAMETER	ND	0.417	0.438	105	0.417	0.437	105	0	80-120	20
PARAMETER										
Mercury										

MB RESULT SPIKE AMT BS RESULT

: AMEC E & I
 : FORT WINGATE DEPOT ACTIVITY
 CLIENT : 13K132
 PROJECT : SW7471A
 BATCH NO.
 METHOD

-----SOIL-----% MOISTURE: NA-----

MATRIX	: 04A29-C-1552R-EC-0.0-0.5-D-SO	1	04A29-C-1552R-EC-0.0-0.5-D-SOMS	1	04A29-C-1552R-EC-0.0-0.5-D-SOMSD
DILUTION FACTOR: 1	: K132-04		K132-04M		K132-04S
SAMPLE ID	: M47K010068		M47K010072		M47K010073
LAB SAMPLE ID	: 11/21/1314:10		11/21/1314:10		11/21/1314:10
LAB FILE ID	: 11/21/1318:25		11/21/1318:34		11/21/1318:36
DATE PREPARED	: HGK016S		HGK016S		HGK016S
DATE ANALYZED			M47K010		M47K010
PREP BATCH					
CALIBRATION REF:	M47K010				

ACCESSION:	(mg/Kg)	SPIKE AMT (mg/Kg)	MS RESULT (mg/Kg)	MS REC (%)	SPIKE AMT (mg/Kg)	MSD RESULT (mg/Kg)	MSD REC (%)	RPD (%)	QC LIMIT (%)	MAX RPD (%)
PARAMETER	ND	0.417	0.477	114	0.417	0.460	110	4	80-120	20
EMAX-QUALITY CONTROL DATA										
Mercury										

MS/MSD ANALYSIS

PARENT RESULT

1

2
3
4
5

APPENDIX C
WASTE DISPOSAL DOCUMENTATION

1

2

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3

TABLE OF CONTENTS

CLIENT: AMEC E & I
PROJECT: FORT WINGATE DEPOT ACTIVITY
SDG: 13J174

SECTION		PAGE
Cover Letter, COC/Sample Receipt Form		1000 – 1006
GC/MS-VOA	METHOD 5035A/8260B	2000 – 2101
GC/MS-SVOA	METHOD 3550B/8270C	3000 – 3215
	METHOD 3550B/8270C SIM	3216 – 3314
GC-VOA	METHOD 5035A/8015B	4000 – 4043
GC-SVOA	METHOD 3550B/8015B	5000 – 5055
	METHOD 3550B/8081A	5056 – 5163
	METHDO 3550B/8082A	5164 – 5230
HPLC	METHOD 8330A	6000 – 6036
	METHOD 8332	6037 – 6073
METALS	METHOD 3050B/6010B	7000 – 7098
	METHOD 1311/3010A/6010B	7099 – 7184
	METHOD 7471A	7185 – 7200
WET	**	8000 –
OTHERS	**	9000 –

** - Not Requested



LABORATORIES, INC.
1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 11-06-2013
EMAX Batch No.: 13J174

Attn: Marie Bevier

AMEC E & I
7376 SW Durham Road
Portland OR 97224

Subject: Laboratory Report
Project: Fort Wingate Depot Activity

Enclosed is the Laboratory report for samples received on 10/22/13.
The data reported relate only to samples listed below :

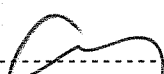
Sample ID	Control #	Col Date	Matrix	Analysis
0700-BERM-SS01-0000-C-SO	J174-01	10/21/13	SOIL	PESTICIDES ORGANOCHLORINE METALS RCRA MERCURY GASOLINE RANGE ORGANICS DIESEL RANGE ORGANICS POLYCHLORINATED BIPHENYLS (PCBS) SEMIVOLATILE ORGANICS BY GCMS VOLATILE ORGANICS BY GC/MS PAH BY 8270C SIM
0700-BERM-SS02-0000-C-SO	J174-02	10/21/13	SOIL	PESTICIDES ORGANOCHLORINE METALS RCRA MERCURY GASOLINE RANGE ORGANICS DIESEL RANGE ORGANICS POLYCHLORINATED BIPHENYLS (PCBS) SEMIVOLATILE ORGANICS BY GCMS VOLATILE ORGANICS BY GC/MS PAH BY 8270C SIM
04A29-00-WP01-0000-C-SO	J174-03	10/21/13	SOIL	METALS RCRA

Sample ID	Control #	Col Date	Matrix	Analysis
-----	-----	-----	-----	-----
				MERCURY NITROAROMATICS & NITRAMINES NITROGLYCERINE AND PETN LEAD TCLP

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,



Caspar J. Pang
Laboratory Director

This report is confidential and intended solely for the use of the individual or entity to whom it is addressed. This report shall not be reproduced except in full or without the written approval of EMAX.

EMAX certifies that results included in this report meets all NELAC & DOD requirements unless noted in the Case Narrative.

NELAC Accredited Certificate Number 02116CA
L-A-B Accredited DoD ELAP and ISO/IEC 17025 Certificate Number L2278 Testing



SHIP TO: **EMAX Laboratories, Inc.**
 1835 W. 205th Street
 Torrance, CA 90501
 Attn: Sample Receiving
 (310) 618-8889

CHAIN OF CUSTODY

13J174

DATE: 10/21/13

COC #: 1

PAGE: 1 OF 1

Project Name: Fort Wingate Depot Activity	Project Contact: Marie Bevier	Bill To:	Disposal Instructions: LAB
Project Number: 912640002.0013.01	Phone Number: 503-639-3400		Shipment Method: COURIER
Project Manager: Julie Hamilton	Project Phase: Parcel 18		Waybill Number: N/A

Sample Information					Methods for Analysis										RUSH									
No.	Sample ID	Date Sampled	Time Sampled	Matrix	VOCs (8260B)	SVOCs (8270D)	PAHs (8310)	PCBs (8082A)	TPH (8015B)	DRO (8015B)	GRO (8260B)	ORO	RCRA 8 Metals	Pesticides (8081)	Explosives (8330B)	TCLP Lead	MS/MSD	24 Hour	48 Hour	72 Hour	5 Days	QC (MS/MSD)	TOTAL BOTTLES	HOLD All Analyses
1	① 0700BermSS010000CSO	10/21/13	11:05	SOIL	/	/	/	/	/	/	/	/	/	/	/	/							1	
2	② 0700BermSS020000CSO	10/21/13	11:05	SOIL	/	/	/	/	/	/	/	/	/	/	/	/							1	
3	③ 04A2900WP010000CSO	10/21/13	12:15	SOIL																			1	
4	③ 04A2900WP020000CSO	10/21/13	12:15	SOIL																			1	
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

Sampler's Signature:	Date: 10/21/13	Time: 12:30 PM	For Lab Use	Comments: H=Hold Analysis Request X=Analyze
Relinquished By/Affiliation:	Date:	Time:	Does COC match samples: Y or N	
Received By:	Date:	Time:	Broken Container: Y or N	
Relinquished By/Affiliation:	Date:	Time:	COC seal intact: Y or N	
Received By:	Date:	Time:	Other problems: Y or N	
Relinquished By/Affiliation:	Date:	Time:	AMEC contacted: Y or N	
Received By:	Date:	Time:	Date contacted: _____	NUMBER OF COOLERS SENT:
Relinquished By/Affiliation:	Date:	Time:	Cooler Temperature at receipt: <u>2.7</u> C	
Received By (LAB):	Date: 10/22/13	Time: 0945		



SAMPLE RECEIPT FORM 1

Type of Delivery <input checked="" type="checkbox"/> Fedex <input type="checkbox"/> UPS <input type="checkbox"/> GSO <input type="checkbox"/> Others <input type="checkbox"/> EMAX Courier <input type="checkbox"/> Client Delivery	Airbill / Tracking Number 8034 5909 9455	ECN 13 J174 Recipient J. PATOL Date 10/22/13 Time 0945
---	--	--

COC Inspection

<input checked="" type="checkbox"/> Client Name	<input checked="" type="checkbox"/> Client PM/FC	<input checked="" type="checkbox"/> Sampler Name	<input checked="" type="checkbox"/> Sampling Date/Time/Location	<input checked="" type="checkbox"/> Sample ID	<input checked="" type="checkbox"/> Matrix
<input type="checkbox"/> Address	<input checked="" type="checkbox"/> Tel # / Fax #	<input type="checkbox"/> Courier Signature	<input checked="" type="checkbox"/> Analysis Required	<input type="checkbox"/> Preservative (if any)	<input type="checkbox"/> TAT
<input type="checkbox"/> Safety Issues (if any)	<input type="checkbox"/> High concentrations expected	<input type="checkbox"/> Superfund Site samples	<input type="checkbox"/> Rad screening required		

Comments:

Packaging Inspection

Container <input checked="" type="checkbox"/> Cooler <input type="checkbox"/> Box <input type="checkbox"/> Other	Condition <input checked="" type="checkbox"/> Custody Seal <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Damaged
Packaging <input checked="" type="checkbox"/> Bubble Pack <input type="checkbox"/> Styrofoam <input type="checkbox"/> Popcorn <input checked="" type="checkbox"/> Sufficient plastic bag	Temperatures (Cool, ≤6 °C but not frozen) <input checked="" type="checkbox"/> Cooler 1 2.7 °C <input type="checkbox"/> Cooler 2 _____ °C <input type="checkbox"/> Cooler 3 _____ °C <input type="checkbox"/> Cooler 4 _____ °C <input type="checkbox"/> Cooler 5 _____ °C <input type="checkbox"/> Cooler 6 _____ °C <input type="checkbox"/> Cooler 7 _____ °C <input type="checkbox"/> Cooler 8 _____ °C <input type="checkbox"/> Cooler 9 _____ °C <input type="checkbox"/> Cooler 10 _____ °C Thermometer: A - S/N 101541371 B - S/N 101541382 C - S/N 122091701 D - S/N 122091758

Comments: Temperature is out of range. PM was informed IMMEDIATELY.

Note: pH holding time requirement for water samples is 15 mins. Water samples for pH analysis are received beyond 15 minutes from sampling time.

DISCREPANCIES				
LSID	LSCID	Description Code	Sample Label ID / Information	Corrective Action Code
1-43 <i>9/10/2012</i>	001-004	A2		R2
3	003, 004	H1		R5, R3
<i>10/22/13</i>				

Continue to next page.

REVIEWS

Sample Labeling <i>J. Patol</i>	SRF <i>Client</i>	PM <i>J. Patol</i>
Date 10/22/13	Date 10/23/13	Date 10/23/13

LEGEND:

Code Description-Sample Management	Code Description-Sample Management	Code Description-Project Management
A1 Analysis is not indicated in COC.	G1 Sample indicated in COC is not received.	R1 Hold sample(s); wait for further instructions
A2 Analysis is not indicated in label.	G2 MS/MSD is not indicated in COC.	R2 Proceed as indicated in COC and inform client.
A3 Analysis is inconsistent in COC vis-à-vis label.	G3 No identified trip blank, proceed as indicated in COC.	R3 Refer to attached instruction
B1 Sample ID is not indicated in COC.	G4 Trip Blank is designated in SDG _____	R4 Cancel the analysis
B2 Sample ID is not indicated in label.	G5 Trip Blank has no sampling date & time. Log-in with latest sampling date and 1 minute past the time of the last sample collected on the same date.	R5 Inform client.
B3 Sample ID is inconsistent in COC vis-à-vis label.		R6 Proceed as indicated in COC
C1 Improper container	H1 <u>Sample ID's Different on vial But Same on label; sent sample per client see client email.</u>	
C2 Broken container		
C3 Leaking container		
D1 Date and/or time is not indicated in COC.		
D2 Date and/or time is not indicated in label.		
D3 Date and/or time is inconsistent in COC vis-à-vis label.		
F1 Improper preservation		
F2 Insufficient Sample		
F3 Bubble is > 6mm. Use vial with smallest bubble first.		
F4 Bubble is > 6mm in all vials.		
F5 >20 % solid particle		
F6 Out of Holding Time		

METHOD SW8330A
EXPLOSIVES

```

=====
Client      : AMEC E & I           Date Collected: 10/21/13
Project    : FORT WINGATE DEPOT ACTIVITY Date Received: 10/22/13
Batch No.  : 13J174              Date Extracted: 10/29/13 18:13
Sample ID: 04A29-00-WP01-0000-C-SO Date Analyzed: 10/31/13 02:01
Lab Samp ID: J174-03            Dilution Factor: 1
Lab File ID: XJ30031A          Matrix       : SOIL
Ext Btch ID: EXJ018S           % Moisture   : NA
Calib. Ref.: XJ30027A         Instrument ID : T-081
=====

```

PARAMETERS	RESULTS (mg/kg)	LOQ (mg/kg)	DL (mg/kg)	LOD (mg/kg)
HMX	ND	0.40	0.050	0.20
RDX	ND	0.40	0.050	0.20
1,3,5-TNB	ND	0.40	0.050	0.20
1,3-DNB	ND	0.40	0.050	0.20
TETRYL	ND	0.40	0.057	0.20
NITROBENZENE	ND	0.40	0.050	0.20
2,4,6-TNT	ND	0.40	0.050	0.20
4-AM-2,6-DNT	ND	0.40	0.050	0.20
2-AM-4,6-DNT	ND	0.40	0.050	0.20
2,6-DNT	ND	0.40	0.056	0.20
2,4-DNT	ND	0.40	0.055	0.20
2-NITROTOLUENE	ND	0.40	0.076	0.20
3-NITROTOLUENE	ND	0.40	0.095	0.20
4-NITROTOLUENE	ND	0.40	0.099	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DINITROBENZENE	1.99	2.000	99.4	70-140

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD SW8330A
EXPLOSIVES

```

=====
Client       : AMEC E & I           Date Collected: NA
Project      : FORT WINGATE DEPOT ACTIVITY Date Received: 10/29/13
Batch No.    : 13J174              Date Extracted: 10/29/13 18:13
Sample ID    : MBLK1S              Date Analyzed: 10/31/13 00:21
Lab Samp ID  : EXJ018SB            Dilution Factor: 1
Lab File ID  : XJ30028A           Matrix         : SOIL
Ext Btch ID  : EXJ018S            % Moisture    : NA
Calib. Ref.  : XJ30027A           Instrument ID   : T-081
=====

```

PARAMETERS	RESULTS (mg/kg)	LOQ (mg/kg)	DL (mg/kg)	LOD (mg/kg)
-----	-----	-----	-----	-----
HMX	ND	0.40	0.050	0.20
RDX	ND	0.40	0.050	0.20
1,3,5-TNB	ND	0.40	0.050	0.20
1,3-DNB	ND	0.40	0.050	0.20
TETRYL	ND	0.40	0.057	0.20
NITROBENZENE	ND	0.40	0.050	0.20
2,4,6-TNT	ND	0.40	0.050	0.20
4-AM-2,6-DNT	ND	0.40	0.050	0.20
2-AM-4,6-DNT	ND	0.40	0.050	0.20
2,6-DNT	ND	0.40	0.056	0.20
2,4-DNT	ND	0.40	0.055	0.20
2-NITROTOLUENE	ND	0.40	0.076	0.20
3-NITROTOLUENE	ND	0.40	0.095	0.20
4-NITROTOLUENE	ND	0.40	0.099	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
-----	-----	-----	-----	-----
1,2-DINITROBENZENE	1.94	2.000	97.2	70-140

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

```

=====
Client       : AMEC E & I           Date Collected: 10/21/13
Project      : FORT WINGATE DEPOT ACTIVITY Date Received: 10/22/13
Batch No.    : 13J174              Date Extracted: 10/29/13 18:13
Sample ID: 04A29-00-WP01-0000-C-SO Date Analyzed: 10/31/13 10:33
Lab Samp ID: J174-03              Dilution Factor: 1
Lab File ID: PJ31006A            Matrix          : SOIL
Ext Btch ID: EXJ018S             % Moisture     : NA
Calib. Ref.: PJ31002A            Instrument ID   : T-017
=====

```

PARAMETERS	RESULTS (mg/kg)	LOQ (mg/kg)	DL (mg/kg)	LOD (mg/kg)
NITROGLYCERINE	ND	1.0	0.25	0.50
PETN	ND	1.0	0.25	0.50

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DINITROBENZENE	2.29	2.000	114	70-140

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

```

=====
Client      : AMEC E & I           Date Collected: NA
Project    : FORT WINGATE DEPOT ACTIVITY Date Received: 10/29/13
Batch No.  : 13J174              Date Extracted: 10/29/13 18:13
Sample ID  : MBLK1S              Date Analyzed: 10/31/13 09:51
Lab Samp ID: EXJ018SB           Dilution Factor: 1
Lab File ID: PJ31003A          Matrix       : SOIL
Ext Btch ID: EXJ018S           % Moisture   : NA
Calib. Ref.: PJ31002A         Instrument ID : T-017
=====

```

PARAMETERS	RESULTS (mg/kg)	LOQ (mg/kg)	DL (mg/kg)	LOD (mg/kg)
NITROGLYCERINE	ND	1.0	0.25	0.50
PETN	ND	1.0	0.25	0.50

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DINITROBENZENE	2.20	2.000	110	70-140

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

=====
 : AMEC E & I
 : FORT WINGATE DEPOT ACTIVITY
 Client : 13J174
 Project
 Batch No.

: SOIL
 : 47

CLIENT	EMAX	RESULTS	DIL'N	MOIST	LOQ	DL	LOD	ANALYSIS	PREPARATION	DATA	CAL	PREP	COLLECTION	RECEIVED
SAMPLE ID	SAMPLE ID	(mg/Kg)	FACTOR	(%)	(mg/Kg)	(mg/Kg)	(mg/Kg)	DATETIME	DATETIME	FILE ID	REF	BATCH	DATETIME	DATETIME
HGJ032SB	HGJ032SB	ND	1	NA	0.1	0.01	0.02	10/31/1318:14	10/31/1312:45	M47J024028	M47J024	HGJ032S	NA	NA
HGJ032SL	HGJ032SL	0.373	1	NA	0.1	0.01	0.02	10/31/1318:16	10/31/1312:45	M47J024029	M47J024	HGJ032S	NA	NA
MBLK1S	HGJ032SC	0.368	1	NA	0.1	0.01	0.02	10/31/1318:18	10/31/1312:45	M47J024030	M47J024	HGJ032S	NA	NA
LCS1S	J174-01A	0.500	1	6.7	0.107	0.0107	0.0214	10/31/1318:20	10/31/1312:45	M47J024031	M47J024	HGJ032S	10/21/1311:05	10/22/13
LCD1S	J174-01	0.0114J	1	6.7	0.107	0.0107	0.0214	10/31/1318:23	10/31/1312:45	M47J024032	M47J024	HGJ032S	10/21/1311:05	10/22/13
0700-BERM-SS01-0000-C-SO	J174-01J	ND	5	6.7	0.536	0.0536	0.107	10/31/1318:30	10/31/1312:45	M47J024035	M47J024	HGJ032S	10/21/1311:05	10/22/13
0700-BERM-SS01-0000-C-SO	J174-02	ND	1	6.8	0.106	0.0106	0.0211	10/31/1318:32	10/31/1312:45	M47J024036	M47J024	HGJ032S	10/21/1311:10	10/22/13
0700-BERM-SS01-0000-C-SO	J174-03	ND	1	4.4	0.105	0.0105	0.0209	10/31/1318:34	10/31/1312:45	M47J024037	M47J024	HGJ032S	10/21/1312:15	10/22/13
0700-BERM-SS02-0000-C-SO														
04A29-00-WP01-0000-C-SO														

METHOD SW7471A

MERCURY

METHOD SW3050B/6010B
 RCRA METALS BY TRACE ICP

```

=====
Client      : AMEC E & I           Date Collected: 10/21/13 12:15
Project    : FORT WINGATE DEPOT ACTIVITY Date Received: 10/22/13
SDG NO.    : 13J174              Date Extracted: 10/25/13 16:00
Sample ID: 04A29-00-WP01-0000-C-SO Date Analyzed: 10/28/13 21:54
Lab Samp ID: J174-03            Dilution Factor: 1.00
Lab File ID: ID8J026110        Matrix          : SOIL
Ext Btch ID: IPJ064S           % Moisture     : 4.4
Calib. Ref.: ID8J026105       Instrument ID  : EMAXTID8
=====
  
```

PARAMETERS	RESULTS (mg/kg)	LOQ (mg/kg)	DL (mg/kg)	LOD (mg/kg)
Arsenic	2.35	1.05	0.209	0.418
Barium	300	1.05	0.105	0.209
Cadmium	ND	1.05	0.105	0.209
Chromium	9.26	1.05	0.157	0.314
Lead	44.4	1.05	0.157	0.314
Selenium	ND	1.05	0.282	0.523
Silver	ND	1.05	0.157	0.314

METHOD SW3050B/6010B
RCRA METALS BY TRACE ICP

=====
Client : AMEC E & I Date Collected: NA
Project : FORT WINGATE DEPOT ACTIVITY Date Received: 10/25/13
SDG NO. : 13J174 Date Extracted: 10/25/13 16:00
Sample ID: MBLK1S Date Analyzed: 10/28/13 20:32
Lab Samp ID: IPJ064SB Dilution Factor: 1
Lab File ID: ID8J026083 Matrix : SOIL
Ext Btch ID: IPJ064S % Moisture : NA
Calib. Ref.: ID8J026081 Instrument ID : EMAXTID8
=====

PARAMETERS	RESULTS (mg/kg)	LOQ (mg/kg)	DL (mg/kg)	LOD (mg/kg)
-----	-----	-----	-----	-----
Arsenic	ND	1.00	0.200	0.400
Barium	ND	1.00	0.100	0.200
Cadmium	ND	1.00	0.100	0.200
Chromium	ND	1.00	0.150	0.300
Lead	ND	1.00	0.150	0.300
Selenium	ND	1.00	0.270	0.500
Silver	ND	1.00	0.150	0.300

METHOD SW1311/3010A/6010B
TCLP LEAD BY TRACE ICP

```
=====
Client      : AMEC E & I           Date Collected: 10/21/13 12:15
Project     : FORT WINGATE DEPOT ACTIVITY Date Received: 10/22/13
SDG NO.    : 13J174              Date Extracted: 10/31/13 10:15
Sample ID: 04A29-00-WP01-0000-C-SO Date Analyzed: 10/31/13 19:53
Lab Samp ID: J174-03             Dilution Factor: 5
Lab File ID: ID8J031120         Matrix          : LEACHATE
Ext Btch ID: IPJ077W           % Moisture     : NA
Calib. Ref.: ID8J031112       Instrument ID  : EMAXTID8
=====
```

PARAMETERS	RESULTS (mg/L)	LOQ (mg/L)	DL (mg/L)	LOD (mg/L)
-----	-----	-----	-----	-----
Lead	0.0482J	0.0500	0.00850	0.0150

TCLP EXTRATION: 10/29/13 18:00

METHOD SW1311/3010A/6010B
TCLP LEAD BY TRACE ICP

=====
Client : AMEC E & I Date Collected: NA
Project : FORT WINGATE DEPOT ACTIVITY Date Received: 10/31/13
SDG NO. : 13J174 Date Extracted: 10/31/13 10:15
Sample ID: MBLK1W Date Analyzed: 10/31/13 19:20
Lab Samp ID: IPJ077WB Dilution Factor: 1
Lab File ID: ID8J031109 Matrix : WATER
Ext Btch ID: IPJ077W % Moisture : NA
Calib. Ref.: ID8J031107 Instrument ID : EMAXTID8
=====

PARAMETERS	RESULTS (mg/L)	LOQ (mg/L)	DL (mg/L)	LOD (mg/L)
----- Lead	ND	0.0100	0.00170	0.00300

METHOD SW1311/3010A/6010B
TCLP LEAD BY TRACE ICP

```
=====  
Client      : AMEC E & I           Date Collected: NA  
Project     : FORT WINGATE DEPOT ACTIVITY Date Received: 10/31/13  
SDG NO.    : 13J174              Date Extracted: 10/31/13 10:15  
Sample ID: MBLK2W                Date Analyzed: 10/31/13 19:35  
Lab Samp ID: TXJ006SB           Dilution Factor: 5  
Lab File ID: ID8J031114        Matrix          : LEACHATE  
Ext Btch ID: IPJ077W           % Moisture     : NA  
Calib. Ref.: ID8J031112       Instrument ID  : EMAXTID8  
=====
```

PARAMETERS	RESULTS (mg/L)	LOQ (mg/L)	DL (mg/L)	LOD (mg/L)
----- Lead	ND	0.0500	0.00850	0.0150

TCLP EXTRATION: 10/29/13 18:00



Waste Management Profile

Requested Facility: San Juan County Landfill Unsure Profile Number: _____

Check if there are multiple generator locations. Attach locations. Renewal? Original Profile Number: _____

A. GENERATOR INFORMATION (MATERIAL ORIGIN)

- 1. Generator Name: Fort Wingate Army Depot
- 2. Site Address: 7 Miles East of Gallup
(City, State, ZIP) Fort Wingate, NM 87316
- 3. County: McKinley County
- 4. Contact Name: Richard Cruz
- 5. Email: richard.cruz2@us.army.mil
- 6. Phone: (505) 862-2416 7. Fax: (505) 905-6110
- 8. Generator EPA ID: NM6213820974 N/A
- 9. State ID: NM6213820974 N/A

B. BILLING INFORMATION

SAME AS GENERATOR

- 1. Billing Name: MP Environmental Services, Inc.
- 2. Billing Address: 3045 South 51st Avenue
(City, State, ZIP) Phoenix, AZ 85043
- 3. Contact Name: Matt Hoffman
- 4. Email: mhoffman@mpenviro.com
- 5. Phone: 602-278-6233 6. Fax: 602-278-2884
- 7. WM Hauled? Yes No
- 8. P.O. Number: n/a

C. MATERIAL INFORMATION

- 1. Common Name: Non-Regulated Solid Waste

Describe Process Generating Material: See Attached

Removal of surface soil surrounding 3" floor drain pipes from Igloos C-1105, C-1109, C-1124 & C-1128 at Parcel 4a at Fort Wingate Depot Activity, Gallup, New Mexico. This non-regulated soil was suspected of impact from paint chips on steel drain pipes.

- 2. Material Composition and Contaminants: See Attached

1. Soil	100%
2. Paint Chips	Trace
3.	
4.	
≥100%	

- 3. State Waste Codes: _____ N/A
- 4. Color: Brown
- 5. Physical State at 70°F: Solid Liquid Other: _____
- 6. Free Liquid Range Percentage: _____ to _____ N/A (Solid)
- 7. pH: _____ to _____ N/A (Solid)
- 8. Strong Odor: Yes No Describe: _____
- 9. Flash Point: <140°F 140°-199°F ≥200° N/A (Solid)

D. REGULATORY INFORMATION

- 1. EPA Hazardous Waste? Yes* No
Code: _____
 - 2. State Hazardous Waste? Yes No
Code: _____
 - 3. Excluded waste under 40 CFR 261.4 (a) or (b)? Yes* No
 - 4. Contains Underlying Hazardous Constituents? Yes* No
 - 5. Contains benzene and subject to Benzene NESHAP? Yes* No
 - 6. Facility remediation subject to 40 CFR 63 GGGGG? Yes* No
 - 7. CERCLA or State-mandated clean-up? Yes* No
 - 8. NRC or State-regulated radioactive or NORM waste? Yes* No
- *If Yes, see Addendum (page 2) for additional questions and space.**
- 9. Contains PCBs? → If Yes, answer a, b and c. Yes No
 - a. Regulated by 40 CFR 761? Yes No
 - b. Remediation under 40 CFR 761.61 (a)? Yes No
 - c. Were PCB imported into the US? Yes No
 - 10. Regulated and/or Untreated Medical/Infectious Waste? Yes No
 - 11. Contains Asbestos? Yes: Friable Yes: Non-Friable No

E. ANALYTICAL AND OTHER REPRESENTATIVE INFORMATION

- 1. Analytical attached Yes

Please identify applicable samples and/or lab reports:
EMAX Laboratories, Inc., 4a29-00WP01-0000-C-SO, MBLK1S, Explosives, Total 8 RCRA Metals & TCLP Lead.

- 2. Other information attached (such as MSDS)? Yes

F. SHIPPING AND DOT INFORMATION

- 1. One-Time Event Repeat Event/Ongoing Business
- 2. Estimated Quantity/Unit of Measure: 2
 Tons Yards Drums Gallons Other: _____
- 3. Container Type and Size: 18-wheel End-dump Truck
- 4. USDOT Proper Shipping Name: _____ N/A
Non-Regulated Solid Waste

G. GENERATOR CERTIFICATION (PLEASE READ AND CERTIFY BY SIGNATURE)

By signing this Waste Management Profile, I hereby certify that all information submitted in this and all attached documents contain true and accurate descriptions of this material, and that all relevant information necessary for proper material characterization and to identify known and suspected hazards has been provided. Any analytical data attached was derived from a sample that is representative as defined in 40 CFR 261 - Appendix 1 or by using an equivalent method. All changes occurring in the character of the material (i.e., changes in the process or new analytical) will be identified by the Generator and be disclosed to Waste Management prior to providing the material to Waste Management.

If I am an agent signing on behalf of the Generator, I have confirmed with the Generator that information contained in this Profile is accurate and complete.

Name (Print): Shannon Jackson Date: 11-7-13

Title: BRAC Field Representative

Company: Fort Wingate Army Depot

Certification Signature

THINK GREEN!

QUESTIONS? CALL 800 963 4776 FOR ASSISTANCE

Last Revised March 20, 2012
©2011 Waste Management, Inc.

ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

This Memorandum

is an acknowledgment that a Bill of Lading has been issued and is not Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

Shipper No. 12589

Carrier No. _____

Page 1 of 1

MP ENVIRONMENTAL

(Name of carrier)

(SCAC)

Date 10-17-13

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO: Consignee AMERICAN METAL RECYCLING

FROM: Shipper MPE-AMEC FT WINGATE PARCEL 4A

Street HWY 118

Street PARCEL 4A

City GALLUP State NM Zip Code _____

City FT WINGATE State NM Zip Code _____

24 hr. Emergency Contact Tel. No. 602-717-2637

Route		Vehicle Number				
No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class or UN or NA Number, Packing Group or UN or NA Number, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
<u>1 LOAD</u>		<u>STEEL PIPES (RECYCLE)</u>	<u>1 TON</u>			

PLACARDS TENDERED: YES NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____"

(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.

(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Signature _____

REMIT C.O.D. TO: ADDRESS _____

COD Amt: \$ _____

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

C.O.D. FEE: PREPAID COLLECT \$ _____

TOTAL CHARGES \$ _____

FREIGHT CHARGES
FREIGHT PREPAID except when box at right is checked Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER <u>MASMA...</u>	CARRIER <u>RUFINO ORTIZ</u>
PER <u>MPE-AMEC FT WINGATE</u>	PER <u>MPE</u>
	DATE <u>10-17-13</u>

4



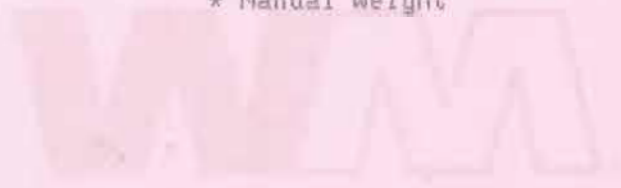
WM of NM - San Juan County
 78 County Road 3140
 Aztec, NM, 87410
 Ph: (505) 334-1121

Original
 Ticket# 1584380

Customer Name MP ENVIRONMENTAL MP Environment Carrier mpe MP ENVIRONMENTAL
 Ticket Date 11/13/2013 Vehicle# 54 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Hauling Ticket# Check#
 Route Billing # 0000443
 State Waste Code Gen EPA ID NME213820974
 Manifest 7044A
 Destination Grid
 PO
 Profile 101573NM (NON REGULATED SOLID WASTE)
 Generator 153-FORT WINGATE ARMY DEPOT FORT WINGATE ARMY DEPOT EASTERN LANDFILL

Time	Scale	Operator	Inbound	Gross	80360 lb*
In 11/13/2013 10:15:01	Inbound 301	njohnson		Tare	79860 lb*
Out 11/13/2013 10:15:41	Outbound 301	njohnson		Net	500 lb
		* Manual Weight		Tons	0.25

Comments



Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 SpwasteSolidOth-Cu 100		2.00	Yards				MCKC

Total Tax
 Total Ticket

Driver's Signature

11/13/2013





NON-HAZARDOUS MANIFEST

2-11-13 11-13-13 1584380

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No. Manifest Doc No. NM6213820974		2. Page 1 of 704-4A						
3. Generator's Mailing Address: FORT WINGATE ARMY DEPOT P.O. BOX 268 FORT WINGATE, NM 87316-0268		Generator's Site Address (If different than mailing): FORT WINGATE ARMY DEPOT EASTERN LANDFILL PARCEL 18 FORT WINGATE, NM 87316		A. Manifest Number WMNA 2144084						
4. Generator's Phone (505) 862-2416				B. State Generator's ID NM6213820974						
5. Transporter 1 Company Name MP ENVIRONMENTAL 154		6. US EPA ID Number CAT000624247		C. State Transporter's ID N/A						
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone 602-278-6233						
9. Designated Facility Name and Site Address SAN JUAN COUNTY REGIONAL LANDFILL P.O. BOX 1402 AZTEC, NM 87410		10. US EPA ID Number N/A		E. State Transporter's ID						
				F. Transporter's Phone						
				G. State Facility ID N/A						
				H. State Facility Phone 505-334-1121						
GENERATOR	11. Description of Waste Materials		12. Containers		13. Total Quantity	14. Unit Wt./Vol.	1. Misc. Comments			
	a. NON-REGULATED SOLID WASTE		No.	Type						
	WM Profile # 102882NM 101573NM		001	DT				17	Y	Comments
	b.									
	WM Profile #									
c.										
WM Profile #										
d.										
WM Profile #										
J. Additional Descriptions for Materials Listed Above			K. Disposal Location							
			Cell		Level					
			Grid							
15. Special Handling Instructions and Additional Information MPE #12235										
Purchase Order # N/A		EMERGENCY CONTACT / PHONE NO.: 602-717-2637								
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.										
Printed Name		Signature "On behalf of"			Month	Day	Year			
					11	12	13			
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials									
	Printed Name		Signature			Month	Day	Year		
							13			
18. Transporter 2 Acknowledgement of Receipt of Materials										
Printed Name		Signature			Month	Day	Year			
FACILITY	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.									
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.									
	Printed Name		Signature			Month	Day	Year		
					11	13	13			

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
 Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

EW 5859 N36.415.847 N115.01 S05
 (b) date signed different than date delivered

1

APPENDIX D

2
3
4
5

**TRANSFORMER I-25 ANALYTICAL REPORT SUMMARY
(Full Lab Report on CD)**

1

2

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3

TABLE OF CONTENTS

CLIENT: AMEC E & I
PROJECT: FORT WINGATE DEPOT ACTIVITY
SDG: 13H150

SECTION		PAGE
Cover Letter, COC/Sample Receipt Form		1000 – 1006
GC/MS-VOA	**	2000 –
GC/MS-SVOA	**	3000 –
GC-VOA	**	4000 –
GC-SVOA	METHOD 3520C/3550B/8082A	5000 – 5263
HPLC	**	6000 –
METALS	METHOD 3050B/6010B (CHROMIUM III)	7000 – 7015
	METHOD 3050B/6010B	7016 – 7225
WET	METHOD 3060/7196A	8000 – 8009
OTHERS	**	9000 –

** - Not Requested



LABORATORIES, INC.
1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 09-05-2013
EMAX Batch No.: 13H150

Attn: Marie Bevier

AMEC E & I
7376 SW Durham Road
Portland OR 97224

Subject: Laboratory Report
Project: Fort Wingate Depot Activity

Enclosed is the Laboratory report for samples received on 08/16/13.
The data reported relate only to samples listed below :

Sample ID	Control #	Col Date	Matrix	Analysis
1300ST53SS-087D02-SO	H150-01	08/15/13	SOIL	POLYCHLORINATED BIPHENYLS (PCBS) LEAD CHROMIUM III BY CALCULATION CHROMIUM HEXAVALENT CADMIUM
1300ST53SS-088D02-SO	H150-02	08/15/13	SOIL	POLYCHLORINATED BIPHENYLS (PCBS) LEAD CHROMIUM III BY CALCULATION CHROMIUM HEXAVALENT CADMIUM
1300ST53SS-089D02-SO	H150-03	08/15/13	SOIL	POLYCHLORINATED BIPHENYLS (PCBS) LEAD CHROMIUM III BY CALCULATION CHROMIUM HEXAVALENT CADMIUM
1300ST53SS-090D02-SO	H150-04	08/15/13	SOIL	POLYCHLORINATED BIPHENYLS (PCBS) LEAD CHROMIUM III BY CALCULATION CHROMIUM HEXAVALENT

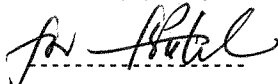
Sample ID	Control #	Col Date	Matrix	Analysis
1300ST53SS-090D02-SO-DUP	H150-05	08/15/13	SOIL	CADMIUM POLYCHLORINATED BIPHENYLS (PCBS) LEAD CHROMIUM III BY CALCULATION CHROMIUM HEXAVALENT
1300ST53SS-091D02-SO	H150-06	08/15/13	SOIL	CADMIUM POLYCHLORINATED BIPHENYLS (PCBS) LEAD CHROMIUM III BY CALCULATION CHROMIUM HEXAVALENT
1300ST53SS-092D02-SO	H150-07	08/15/13	SOIL	CADMIUM POLYCHLORINATED BIPHENYLS (PCBS) LEAD CHROMIUM III BY CALCULATION CHROMIUM HEXAVALENT
1300ST53SS-093D02-SO	H150-08	08/15/13	SOIL	CADMIUM POLYCHLORINATED BIPHENYLS (PCBS) LEAD CHROMIUM III BY CALCULATION CHROMIUM HEXAVALENT
1300ST53SS-094D02-SO	H150-09	08/15/13	SOIL	CADMIUM POLYCHLORINATED BIPHENYLS (PCBS) LEAD CHROMIUM III BY CALCULATION CHROMIUM HEXAVALENT
1300ST53SS-095D02-SO	H150-10	08/15/13	SOIL	CADMIUM POLYCHLORINATED BIPHENYLS (PCBS) LEAD CHROMIUM III BY CALCULATION CHROMIUM HEXAVALENT
1300ST53SS-096D02-SO	H150-11	08/15/13	SOIL	CADMIUM POLYCHLORINATED BIPHENYLS (PCBS) LEAD CHROMIUM III BY CALCULATION CHROMIUM HEXAVALENT
1300ST53SS-097D02-SO	H150-12	08/15/13	SOIL	CADMIUM POLYCHLORINATED BIPHENYLS (PCBS) LEAD CHROMIUM III BY CALCULATION CHROMIUM HEXAVALENT

Sample ID	Control #	Col Date	Matrix	Analysis
1375WTASS001DSO	H150-13	08/15/13	SOIL	POLYCHLORINATED BIPHENYLS (PCBS)
1375WTASS002DSO	H150-14	08/15/13	SOIL	POLYCHLORINATED BIPHENYLS (PCBS)
1375WTASS003DSO	H150-15	08/15/13	SOIL	POLYCHLORINATED BIPHENYLS (PCBS)
1375WTASS004DSO	H150-16	08/15/13	SOIL	POLYCHLORINATED BIPHENYLS (PCBS)
1375WTASS005DSO	H150-17	08/15/13	SOIL	POLYCHLORINATED BIPHENYLS (PCBS)
1375WTASS006DSO	H150-18	08/15/13	SOIL	POLYCHLORINATED BIPHENYLS (PCBS)
1375WTASS006DSO-DUP	H150-19	08/15/13	SOIL	POLYCHLORINATED BIPHENYLS (PCBS)
1375WTASS007DSO	H150-20	08/15/13	SOIL	POLYCHLORINATED BIPHENYLS (PCBS)
0275TR125SS001DSO	H150-21	08/15/13	SOIL	POLYCHLORINATED BIPHENYLS (PCBS)
1375-EB01-D	H150-22	08/15/13	WATER	POLYCHLORINATED BIPHENYLS (PCBS)
1300ST53SS-088D02-SOMS	H150-02M	08/15/13	SOIL	POLYCHLORINATED BIPHENYLS (PCBS) LEAD CHROMIUM III BY CALCULATION CHROMIUM HEXAVALENT CADMIUM
1300ST53SS-088D02-SOMSD	H150-02S	08/15/13	SOIL	POLYCHLORINATED BIPHENYLS (PCBS) LEAD CHROMIUM III BY CALCULATION CHROMIUM HEXAVALENT CADMIUM
1375WTASS003DSOMS	H150-15M	08/15/13	SOIL	POLYCHLORINATED BIPHENYLS (PCBS)
1375WTASS003DSOMSD	H150-15S	08/15/13	SOIL	POLYCHLORINATED BIPHENYLS (PCBS)

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,



Caspar J. Pang
Laboratory Director

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EMAX certifies that results included in this report meets all NELAC & DOD requirements unless noted in the Case Narrative.

NELAC Accredited Certificate Number 02116CA

L-A-B Accredited DoD ELAP and ISO/IEC 17025 Certificate Number L2278 Testing



SHIP TO: **EMAX Laboratories, Inc.**
 1835 W. 205th Street
 Torrance, CA 90501
 Attn: Sample Receiving
 (310) 618-8889

13 H 150

CHAIN OF CUSTODY

DATE: 08/15/13
 COC #: 10
 PAGE: 7 OF 9

Project Name: Fort Wingate Depot Activity	Project Contact: Marie Bevier	Bill To: AMEC	Disposal Instructions: LAB
Project Number: 912640002.0022	Phone Number: 503-639-3400	4600 E Washington St	Shipment Method: COURIER
Project Manager: Julie Hamilton	Project Phase: Water Tanks Site	Phoenix, AZ 85034	Waybill Number: N/A

Sample Information				Methods for Analysis								RUSH						
No.	Sample ID	Date Sampled	Time Sampled	Matrix	Cr III/ Cr VI	Cadmium	Lead (6010B)	PCBs (8082A)										
1	1300ST53SS-087D02-SO	8/15/2013	9:02	soil	x	x	x	x										
2	1300ST53SS-088D02-SO	8/15/2013	9:12	soil	x	x	x	x										
3	1300ST53SS-089D02-SO	8/15/2013	7:25	soil	x	x	x	x										
4	1300ST53SS-090D02-SO	8/15/2013	7:50	soil	x	x	x	x										
5	1300ST53SS-090D02-SO-DUP	8/15/2013	7:52	soil	x	x	x	x										
6	1300ST53SS-091D02-SO	8/15/2013	8:16	soil	x	x	x	x										
7	1300ST53SS-092D02-SO	8/15/2013	9:04	soil	x	x	x	x										
8	1300ST53SS-093D02-SO	8/15/2013	9:10	soil	x	x	x	x										
9	1300ST53SS-094D02-SO	8/15/2013	7:40	soil	x	x	x	x										
10	1300ST53SS-095D02-SO	8/15/2013	7:48	soil	x	x	x	x										
11	1300ST53SS-096D02-SO	8/15/2013	8:20	soil	x	x	x	x										
12	1300ST53SS-097D02-SO	8/15/2013	9:06	soil	x	x	x	x										

Sampler's Signature: <i>all jr</i>	Date: 08/15/13	Time: 1205	For Lab Use		Comments: H=Hold Analysis Request X=Analyze Cooler #1 T = 2.8 C Cooler #2 T = 2.3 C Cooler #3 T = 3.1 C Cooler #5 T = 3.0 C Cooler #6 T = 3.2 C NUMBER OF COOLERS SENT:
Relinquished By/Affiliation: <i>all jr AMEC</i>	Date: 8/15/13	Time: 1600	Does COC match samples:	Y or N	
Received By: FEDEX	Date:	Time:	Broken Container:	Y or N	
Relinquished By/Affiliation:	Date:	Time:	COC seal intact:	Y or N	
Received By:	Date:	Time:	Other problems:	Y or N	
Received By (LAB): <i>JJ Baker</i>	Date: 8/16/13	Time: 0915	AMEC contacted:	Y or N	
			Date contacted:		
			Cooler Temperature at receipt:	_____ C	



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13 H150

CHAIN OF CUSTODY

DATE: 08/15/13

COC #: 11

PAGE: 1 OF 1

Project Name: Fort Wingate Depot Activity	Project Contact: Marie Bevier	Bill To: AMEC	Disposal Instructions: LAB
Project Number: 912640002.0022	Phone Number: 503-639-3400	4600 E Washington St	Shipment Method: COURIER
Project Manager: Julie Hamilton	Project Phase: Water Tanks Site	Phoenix, AZ 85034	Waybill Number: N/A

Sample Information					Methods for Analysis								RUSH										
No.	Sample ID	Date Sampled	Time Sampled	Matrix	Cr III/ Cr VI	Cadmium	Lead (6010B)	PCBs (8082A)							MS/MSD	24 Hour	48 Hour	72 Hour	5 Days	QC (MS/MSD)	TOTAL BOTTLES	HOLD All Analyses	
1	13	1375WTASS001DSO	8/15/2013	1404	soil			x															
2	14	1375WTASS002DSO	8/15/2013	1407	soil			x															
3	15	1375WTASS003DSO	8/15/2013	1353	soil			x							x								
4	16	1375WTASS004DSO	8/15/2013	1358	soil			x															
5	17	1375WTASS005DSO	8/15/2013	1412	soil			x															
6	18	1375WTASS006DSO	8/15/2013	1420	soil			x															
7	19	1375WTASS006DSO-DUP	8/15/2013	1422	soil			x															
8	20	1375WTASS007DSO	8/15/2013	1430	soil			x															
9	21	0275TRI25SS001DSO	8/15/2013	1325	soil			x															
10	22	1375-EB01-D	8/15/2013	1440	water			x															
11																							
12																							

Sampler's Signature: <i>[Signature]</i> AMEC	Date: 08/15/13	Time: 1500	For Lab Use		Comments: H=Hold Analysis Request X=Analyze
Relinquished By/Affiliation: <i>[Signature]</i> AMEC	Date: 8/15/13	Time: 1600	Does COC match samples:	Y or N	
Received By: FEDEX	Date:	Time:	Broken Container:	Y or N	
Relinquished By/Affiliation:	Date:	Time:	COC seal intact:	Y or N	
Received By:	Date:	Time:	Other problems:	Y or N	
Received By (LAB): <i>[Signature]</i>	Date: 8/16/13	Time: 0915	AMEC contacted:	Y or N	NUMBER OF COOLERS SENT:
			Date contacted:		
			Cooler Temperature at receipt: _____ C		



SAMPLE RECEIPT FORM 1

Type of Delivery	Airbill / Tracking Number	ECN 13 H150
<input checked="" type="checkbox"/> Fedex <input type="checkbox"/> UPS <input type="checkbox"/> GSO <input type="checkbox"/> Others		Recipient I LATER
<input type="checkbox"/> EMAX Courier <input type="checkbox"/> Client Delivery		Date 8/16/13 Time 0915

COC Inspection

Client Name Client PM/FC Sampler Name Sampling Date/Time/Location Sample ID Matrix

Address Tel # / Fax # Courier Signature Analysis Required Preservative (if any) TAT

Safety Issues (if any) High concentrations expected Superfund Site samples Rad screening required

Comments:

Packaging Inspection

Container Cooler Box Other

Condition Custody Seal Intact Damaged

Packaging Bubble Pack Styrofoam Popcorn Sufficient **Plastic Bag**

Temperatures (Cool, ≤6 °C but not frozen)

Cooler 1 **2.8** °C Cooler 2 **2.3** °C Cooler 3 **3.1** °C Cooler 4 _____ °C Cooler 5 **3.0** °C

Cooler 6 **3.2** °C Cooler 7 _____ °C Cooler 8 _____ °C Cooler 9 _____ °C Cooler 10 _____ °C

Thermometer: A - S/N 101541371 B - S/N 101541382 C - S/N 122091701 D - S/N 122091758

Comments: Temperature is out of range. PM was informed IMMEDIATELY.

Note: pH holding time requirement for water samples is 15 mins. Water samples for pH analysis are received beyond 15 minutes from sampling time.

DISCREPANCIES				
LSID	LSCID	Description Code	Sample Label ID / Information	Corrective Action Code
F		A1		R2

Continue to next page.

REVIEWS

Sample Labeling **[Signature]** SRF **[Signature]** PM **[Signature]**

Date **8/16/13** Date **8/16/13** Date **8/16/13**

LEGEND:

Code	Description- Sample Management	Code	Description-Sample Management	Code	Description-Project Management
A1	Analysis is not indicated in COC.	G1	Sample indicated in COC is not received.	R1	Hold sample(s); wait for further instructions
A2	Analysis is not indicated in label.	G2	MS/MSD is not indicated in COC.	R2	Proceed as indicated in COC and inform client.
A3	Analysis is inconsistent in COC vis-à-vis label.	G3	No identified trip blank, proceed as indicated in COC.	R3	Refer to attached instruction
B1	Sample ID is not indicated in COC.	G4	Trip Blank is designated in SDG _____	R4	Cancel the analysis
B2	Sample ID is not indicated in label.	G5	Trip Blank has no sampling date & time. Log-in with latest sampling date and 1 minute past the time of the last sample collected on the same date.	R5	Inform client.
B3	Sample ID is inconsistent in COC vis-à-vis label.			R6	Proceed as indicated in COC
C1	Improper container				
C2	Broken container				
C3	Leaking container				
D1	Date and/or time is not indicated in COC.				
D2	Date and/or time is not indicated in label.				
D3	Date and/or time is inconsistent in COC vis-à-vis label.				
F1	Improper preservation				
F2	Insufficient Sample				
F3	Bubble is > 6mm. Use vial with smallest bubble first.				
F4	Bubble is > 6mm in all vials.				
F5	>20 % solid particle				
F6	Out of Holding Time				

HI **has layer of water**

METHOD SW3550B/8082A
PCBs

```

=====
Client      : AMEC E & I                      Date Collected: 08/15/13
Project     : FORT WINGATE DEPOT ACTIVITY     Date Received: 08/16/13
Batch No.   : 13H150                          Date Extracted: 08/24/13 14:40
Sample ID   : 0275TRI25SS001DSO             Date Analyzed: 08/26/13 21:42
Lab Samp ID : H150-21                        Dilution Factor: 1
Lab File ID : KH26028A                      Matrix          : SOIL
Ext Btch ID : CPH032S                       % Moisture      : 10.0
Calib. Ref.: KH26016A                      Instrument ID   : GCT071
=====

```

PARAMETERS	RESULTS (ug/kg)	LOQ (ug/kg)	DL (ug/kg)	LOD (ug/kg)
PCB-1016	(ND) ND	56	14	19
PCB-1221	(ND) ND	56	9.2	19
PCB-1232	(ND) ND	56	10	19
PCB-1242	(ND) ND	56	10	19
PCB-1248	(ND) ND	56	9.2	19
PCB-1254	(ND) ND	56	9.2	19
PCB-1260	(ND) ND	56	11	19

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(18.01) 14.08	14.81	(122) 95.1	50-150
DECACHLOROBIPHENYL	(18.64) 17.00	14.81	(126) 115	50-150

Left of | is related to first column ; Right of | related to second column

Final result indicated by ()

* Out side of QC Limit