



Laboratory Report Number: L12070328

Mark Lyon
Environmental Waste Solutions
2440 Louisiana Blvd
Albuquerque, NM 87110

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories. Review and compilation of your report was completed by Microbac's Ohio Valley Division (OVD). If you have any questions, comments, or require further assistance regarding this report, please contact your service representative listed below.

Laboratory Contact:
Stephanie Mossburg – Team Chemist/Data Specialist
(740) 373-4071
Stephanie.Mossburg@microbac.com

I certify that all test results meet all of the requirements of the DoD QSM and other applicable contract terms and conditions. Any exceptions are attached to this cover page or addressed in the method narratives presented in the report. All results for soil samples are reported on a 'dry-weight' basis unless specified otherwise. Analytical results for water and wastes are reported on a 'as received' basis unless specified otherwise. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories, DoD ELAP certification number 2936.01. The reported results are related only to the samples analyzed as received.

This report was certified on July 25 2012

David Vandenberg – Managing Director

State of Origin: NM
Accrediting Authority: N/A ID:N/A
QAPP: DOD Ver 4.1



Record of Sample Receipt and Inspection

Comments/Discrepancies

This is the record of the shipment conditions and the inspection records for the samples received and reported as a sample delivery group (SDG). All of the samples were inspected and observed to conform to our receipt policies, except as noted below.

There were no discrepancies.

Discrepancy	Resolution

Coolers

Cooler #	Temperature Gun	Temperature	COC #	Airbill #
0011146	H	0.0		1002239921660004575000873013166791
0012548	H	0.0		1015924621660004575000795546007098

Inspection Checklist

#	Question	Result
1	Were shipping coolers sealed?	Yes
2	Were custody seals intact?	Yes
3	Were cooler temperatures in range of 0-6?	Yes
4	Was ice present?	Yes
5	Were COC's received/information complete/signed and dated?	Yes
6	Were sample containers intact and match COC?	Yes
7	Were sample labels intact and match COC?	Yes
8	Were the correct containers and volumes received?	Yes
9	Were samples received within EPA hold times?	Yes
10	Were correct preservatives used? (water only)	Yes
11	Were pH ranges acceptable? (voa's excluded)	Yes
12	Were VOA samples free of headspace (less than 6mm)?	NA

Samples Received

Client ID	Laboratory ID	Date Collected	Date Received
MPL05-0712-1	L12070328-01	07/11/2012 09:27	07/12/2012 10:33
MPL18-0712-1	L12070328-02	07/11/2012 10:14	07/12/2012 10:33
MPL16-0712-1	L12070328-03	07/11/2012 12:12	07/12/2012 10:33
MPL17-0712-1	L12070328-04	07/11/2012 14:00	07/12/2012 10:33
MPL17-0712-MS	L12070328-05	07/11/2012 14:00	07/12/2012 10:33
MPL17-0712-MSD	L12070328-06	07/11/2012 14:00	07/12/2012 10:33

Microbac REPORT L12070328
PREPARED FOR Environmental Waste Solutions
WORK ID:

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2.2.9.1 Summary Data	1029
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2.2.9.3 Raw Data	1046
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1.0 Summary Data

1.1 Narratives



Login Number: L12070328
Department: Conventionals
Analyst: Justin Hesson

METHOD

Analysis SW846 9040C,9045D/EPA 150.1/SM4500-H B (pH)

HOLDING TIMES

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Matrix Spikes: All acceptance criteria were met.

Duplicates: All acceptance criteria were met.

SAMPLES

Samples: All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Narrative ID: 50495

Approved By: Deanna Hesson

A handwritten signature in cursive script that reads "Deanna Hesson".



Login Number: L12070328
Department: Metals
Analyst: Kim Rhodes

METHOD

Preparation: SW-846 3005

Analysis: SW-846 6010

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Interference Check Standards: All acceptance criteria were met.

Continuing Calibration Verification: All acceptance criteria were met.

Continuing Calibration Blank: WG403481 - The continuing calibration blank analyzed on 17-JUL-2012 at 13:17 yielded a result for calcium that was greater than the LOD but less than the LOQ.

BATCH QA/QC

Method Blank: WG403481 - The method blank analyzed on 17-JUL-2012 at 12:06 yielded a result for calcium that exceeded the LOD. However, the reported sample results exceeded that of the method blank by greater than a factor of ten. The calcium results were reported with a 'B' qualifier to indicate the association with a noncompliant method blank.

Laboratory Control Sample: All acceptance criteria were met.

Serial Dilution/Post Digestion Spikes: WG403481 - Tin was not add to the initial post digestion spike, therefore, the post digestion spike was reanalyzed at 13:49 and met all acceptance criteria.

Matrix Spikes: WG403481 - Sample 04 was chosen by the client for MS/MSD analysis. Samples 05(MS) and 06(MSD) yielded noncompliant recoveries for calcium.

SAMPLES

Samples: All acceptance criteria were met.

Narrative ID: 50104
Approved By: Sheri Pfalzgraf



Login Number: L12070328
Department: Metals
Analyst: Ji Hu

METHOD

Preparation: SW-846 3015

Analysis: SW-846 6020

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Interference Check Standards: All acceptance criteria were met.

Continuing Calibration: WG403681 - Due to continuing calibration verification failure for silver on 18-July-2012 at 12:39, client samples 01, 04, 05(MS), and 06(MSD) were reanalyzed on a later calibration which was compliant for silver. Due to continuing calibration verification failure for silver and selenium on 18-July-2012 at 13:16, client samples 02 and 03 and the batch post spike and serial dilution were reanalyzed on a later calibration which was compliant for silver and selenium.

Continuing Calibration Blank: All acceptance criteria were met.

Low Level Check: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Serial Dilution/Post Digestion Spikes: WG403681 - All acceptance criteria were met.

Matrix Spikes: WG403681 - Sample 04 was chosen by the client for MS/MSD analysis. Samples 05(MS) and 06(MSD) met all acceptance criteria.

SAMPLES

Samples: All acceptance criteria were met.

Narrative ID: 50149

Approved By: Sheri Pfalzgraf



Login Number: L12070328
Department: Metals - AA
Analyst: Pierce Morris

METHOD

Preparation: SW-846 7470

Analysis: SW-846 7470

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Interference Check Standards: All acceptance criteria were met.

Continuing Calibration Verification: All acceptance criteria were met.

Continuing Calibration Blank: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Serial Dilution/Post Digestion Spikes: WG403372 - All acceptance criteria were met.

Matrix Spikes: WG403372 - Sample 04 was chosen by the client for MS/MSD analysis. Samples 05(MS) and 06(MSD) met all acceptance criteria.

SAMPLES

Samples: All acceptance criteria were met.

Narrative ID: 50021

Approved By: Sheri Pfalzgraf

A handwritten signature in black ink that reads "Sheri L. Pfalzgraf".



Login Number: L12070328
Department: General Chromatography
Analyst: Jeremy Kinney

METHOD

Analysis EPA300.0/SW846 9056

HOLDING TIMES

Sample Analysis: Hold times for NO₂ and NO₃ are 48 hours and the hold times for F, Cl, Br, and SO₄ are 28 days. The hold time forms calculate the hold time based on 48 hours. All samples were analyzed in hold.

CALIBRATION

Initial Calibration: All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Continuing Calibration: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Matrix Spikes: Recoveries for chloride marginally exceeded the upper control limit (111% and 113%). The analytical result for the MS and MSD were greater than the calibration range resulting in biased recoveries.

SAMPLES

Samples: All acceptance criteria were met.

MANUAL INTEGRATION: No manual integration was required.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Narrative ID: 49941

Approved By: Mike Cochran

A handwritten signature in black ink, appearing to read "Mike Cochran".



Login Number: L12070328
Department: Conventionals
Analyst: Deanna Hesson

METHOD

Analysis EPA 310.2 (Alkalinity)

HOLDING TIMES

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

BATCH QA/QC

Method Blank: The blank result was greater than the absolute value of the LOD (MDL).

Laboratory Control Sample: All acceptance criteria were met.

Matrix Spikes: Recoveries out of range were observed for the following analytes: Alkalinity, Total (as CaCO₃), Alkalinity, Carbonate (as CaCO₃), Alkalinity, Bicarbonate (as CaCO₃). Please see the applicable QC report for a detailed presentation of the failures.

Duplicates: All acceptance criteria were met.

SAMPLES

Samples: All acceptance criteria were met.

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Narrative ID: 50493

Approved By: Deanna Hesson

A handwritten signature in cursive script that reads "Deanna Hesson".



Login Number: L12070328
Department: Conventionals
Analyst: Holly Reed

METHOD

Analysis SW846 9014/9010C/SM4500-CN-C,E-20th (Cyanide)

HOLDING TIMES

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: Cyanide-Ammonable is the difference between the total cyanide and the treated cyanide. The LCS is analyzed to show that all of the cyanide is ammonable (the treated portion is ND). The LCS forms cannot calculate cyanide ammonable. The LCS is acceptable.

Matrix Spikes: All acceptance criteria were met.

Duplicates: All acceptance criteria were met.

SAMPLES

Samples: All acceptance criteria were met.

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Narrative ID: 50499

Approved By: Deanna Hesson

A handwritten signature in cursive script that reads "Deanna Hesson".



Login Number: L12070328
Department: Conventionals
Analyst: Tammy Morris

METHOD

Analysis EPA 120.1/SM2510 B (Conductivity)

HOLDING TIMES

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Duplicates: All acceptance criteria were met.

Matrix Spikes: Recoveries out of range were observed for the following analytes: Conductivity. Please see the applicable QC report for a detailed presentation of the failures.

SAMPLES

Samples: All acceptance criteria were met.

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Narrative ID: 50494

Approved By: Deanna Hesson

A handwritten signature in cursive script that reads "Deanna Hesson".



Login Number: L12070328
Department: Conventionals
Analyst: Deanna Hesson

METHOD

Analysis EPA 350.1/SM4500-NH3 B(NH3)

HOLDING TIMES

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Duplicates: All acceptance criteria were met.

Matrix Spikes: All acceptance criteria were met.

SAMPLES

Samples: All acceptance criteria were met.

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Narrative ID: 50496

Approved By: Deanna Hesson

A handwritten signature in cursive script that reads "Deanna Hesson".



Login Number: L12070328
Department: Conventionals
Analyst: Deanna Hesson

METHOD

Analysis EPA 353.2/SM4500-NO3 F (Nitrate)

HOLDING TIMES

Sample Analysis: Nitrate is reported as the difference of nitrate-nitrite (28 day hold) and nitrite (48 hour hold). Both analysis were analyzed within the appropriate hold time. The nitrate hold time is within compliance.

PREPARATION

Sample preparation proceeded normally.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Matrix Spikes: Recoveries out of range were observed for the following analytes: Nitrate-Nitrite (as N). Please see the applicable QC report for a detailed presentation of the failures.

Duplicates: All acceptance criteria were met.

SAMPLES

Samples: All acceptance criteria were met.

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Narrative ID: 50497

Approved By: Deanna Hesson

A handwritten signature in cursive script that reads "Deanna Hesson".



Login Number: L12070328
Department: Conventionals
Analyst: Holly Reed

METHOD

Analysis EPA 365.2/SM4500-P E (Orthophosphate)

HOLDING TIMES

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Matrix Spikes: All acceptance criteria were met.

Duplicates: All acceptance criteria were met.

SAMPLES

Samples: All acceptance criteria were met.

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Narrative ID: 50498

Approved By: Deanna Hesson

A handwritten signature in cursive script that reads "Deanna Hesson".



Login Number: L12070328
Department: Conventionals
Analyst: Erin R Porter

METHOD

Analysis EPA 160.1/SM2540 C(Total Dissolved Solids)

HOLDING TIMES

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Duplicates: All acceptance criteria were met.

Matrix Spikes: All acceptance criteria were met.

SAMPLES

Samples: All acceptance criteria were met.

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Narrative ID: 50501

Approved By: Deanna Hesson

A handwritten signature in cursive script that reads "Deanna Hesson".



Login Number: L12070328
Department: Conventionals
Analyst: Deanna Hesson

METHOD

Analysis Water: EPA 415.1/SM5310C/SW846 9060 (Total Organic Carbon)
Soil: Lloyd-Khan Methodology

HOLDING TIMES

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

BATCH QAI/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Duplicates: All acceptance criteria were met.

Matrix Spikes: All acceptance criteria were met.

SAMPLES

Samples: All acceptance criteria were met.

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Narrative ID: 50500

Approved By: Deanna Hesson

A handwritten signature in cursive script that reads "Deanna Hesson".



Login Number: L12070328
Department: Conventionals
Analyst: Erin R Porter

METHOD

Analysis EPA 160.2/SM2540 D (Total Suspended Solids)

HOLDING TIMES

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: The LCS/LCS duplicate had recoveries above the acceptable limit. The sample results could be biased high.

Duplicates: All acceptance criteria were met.

Matrix Spikes: Recoveries out of range were observed for the following analytes: Total Suspended Solids. Please see the applicable QC report for a detailed presentation of the failures.

SAMPLES

Samples: All acceptance criteria were met.

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Narrative ID: 50182

Approved By: Deanna Hesson

A handwritten signature in cursive script that reads "Deanna Hesson".

COC No. A 30682

158 Starlite Drive
Marietta, OH 45750



Phone: 740-373-4071
Fax: 740-373-4835

CHAIN-OF-CUSTODY RECORD

Company Name: **Shaw / Zia**

Project Contact: **Mark Lyon** Contact Phone #: **505-262-8920**

Turn Around Requirements: **Normal** Location: **WSMR STP**

Project ID: **WSMR STP SAMU 82**

Sampler (print): **Allison Jenness** Signature: *[Signature]*

Sample I.D. No.	Comp	Grab	Date	Time	Matrix*
MPL05-0712-1	X	X	7-11-12	0927	W
MPL18-0712-1	X	X	7-11-12	1014	W
MPL16-0712-1	X	X	7-11-12	1212	W

Hold	ANIONS (Cl, F, SO4)	Conductivity	pH	PO4	CN- Total	CN- Amenable	CN- WAD - Free	Metals	TSS - TDS	Alkalinity	NH3	NO3-NO2	TOC	X No, K, Ca, Mg, Mn	TOTAL # (LAB USE)	Program		ADDITIONAL REQUIREMENTS
																<input type="checkbox"/> CWA	<input type="checkbox"/> RCRA	
	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
	X	X	X	X	X	X	X	X	X	X	X	X	X	X				

Relinquished by: *[Signature]* Date: **7-11-12** Time: **1600** Received (Signature): _____ Time: _____

Relinquished by: *[Signature]* Date: _____ Time: _____ Received (Signature): _____ Time: _____

Microbac OVD
Received: 07/12/2012 10:33
By: ROSEMARY SCOTT

221000026688

[Signature]

*Water (W), Soil (S), Solid Waste (SD), Unknown (X)

COC No. A 30683



158 Starlite Drive
Marietta, OH 45750



Phone: 740-373-4071
Fax: 740-373-4835

CHAIN-OF-CUSTODY RECORD

Company Name: **Shaw / Zia**
 Project Contact: **Mark Lyon** Contact Phone #: **505-262-8920**
 Turn Around Requirements: **Normal** Location: **WSMR STP**
 Project ID: **WSMR STP SWMU 82**
 Sampler (print): **Allison Jenness** Signature: *[Signature]*

Sample I.D. No.	Comp	Grab	Date	Time	Matrix*
MPL17-0712-1	X	X	7-11-12	1400	W
MPL17-0712-MS	X	X	7-11-12	1400	W
MPL17-0712-MSD	X	X	7-11-12	1400	W

Hold	ANIONS (Cl, F, SO4)	Conductivity	PH	PO4	CN-Total	CN-Amenable	CN-WAD - Free	Metals	TSS-TDS	Alkalinity	NH3	NO3-NO2	TOC	TOTAL # (LAB USE)	Program
	X	X	X	X	X	X	X	X	X	X	X	X	X		<input type="checkbox"/> CWA <input type="checkbox"/> RCRA <input type="checkbox"/> DOD <input type="checkbox"/> AFCEE <input type="checkbox"/> Other
	X	X	X	X	X	X	X	X	X	X	X	X	X		ADDITIONAL REQUIREMENTS

Date	Time	Received by: (Signature)

Relinquished by: (Signature) *Bundy P. Darr* Date: **7-11-12** Time: **1600**
 Relinquished by: (Signature) _____ Date: _____ Time: _____

Microbac OVD
 Received: 07/12/2012 10:33
 BY: ROSEMARY SCOTT

221000026688

Remarks:

*Water (W), Soil (S), Solid Waste (SD), Unknown (X)