

Received 12/17/14

REM 8817

Document 2313411

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12/12/2014

Maralex Resources, Inc.  
864 20 Road  
Unit A  
Fruita, CO 81521  
Attn: Jim Graves

Work Order #: B1411079  
Date: 12/12/2014  
Work ID: USA 1-14 HC  
Date Received: 11/14/2014  
Proj #: Soils

### Sample Identification

Lab Sample Number	Client Description	Lab Sample Number	Client Description
B1411079-01	1-14 HC		

Enclosed are the analytical results for the submitted sample(s). Please review the CASE NARRATIVE for a discussion of any data and/or quality control issues. Listings of data qualifiers, analytical codes, key dates, and QC relationships are provided at the end of the report.

Sincerely,

Carissa Cumine  
Project Manager

*"The Science of Analysis, The Art of Service"*

## Case Narrative

Analytica Group, LLC - Thornton

Work Order: B1411079

Samples were prepared and analyzed according to EPA or equivalent methods outlined in the following references:

Standard Method for Laboratory Determination of Water (Moisture) Content of Soil, Rock, and Soil-Aggregate Mixtures, ASTM D 2216-80, July 1980.

Test Methods for Evaluating Solid Waste, USEPA SW-846, Third Edition, Revision 4, December 1996.

### SAMPLE RECEIPT:

Three (3) samples were received on 11/14/2014 11:30:00 AM at a temperature of 3.1°C at Analytica-Thornton. The samples were received in good condition and in order per chain of custody.

### REVIEW FOR COMPLIANCE WITH ANALYTICA QA PLAN

A summary of our review is shown below.

All analytical results contained in this report have been reviewed under Analytica's internal quality assurance and quality control program. Any deviations in quality control parameters for specific analyses are noted in the following text. A complete quality assurance report, including laboratory control, matrix spike, and sample duplicate recoveries, is kept on file in our office and is available upon request.

All method specifications were met for the following tests, unless otherwise noted:

Test Method: ASTM D2216 - Pmoist - Soil

Test Method: SW8270C - Semivolatile Organics by GC/MS - Std - Soil

#### LCS OUTLIERS:

The LCS recovery for the target below was slightly below the lower control limit. The recovery in the CCVs was acceptable. All results were confirmed by reanalysis and no further corrective action was taken.

Type	BatchNumber	Analyte	Recovery	LCL	UCL	Status
LCS	T141121002	Dibenzo(a,h)anthracene	49.1	50	129	Complete

# Detailed Analytical Report

Analytica Group, LLC - Thornton

Workorder (SDG): B1411079

Project: USA 1-14 HC

Client: Maralex Resources, Inc.

Client Project Number: Soils

## Report Section: Client Sample Report

Client Sample Name: 1-14 HC

Matrix: Soil

Collection Date: 11/13/2014 12:37:00PM

The following test was conducted by: Analytica - Thornton

Lab Sample Number: B1411079-01A

Prep Date: 11-21-2014 10:11

Analytical Method ID: SW8270C - Semivolatile Organics by GC/MS - Std

Prep Method ID: 3550B

Prep Batch Number: T141121002

Report Basis: Dry Weight Basis

Sample prep wt./vol: 30.04 g

Analysis Date: 12/9/2014 10:54:00PM

Instrument: MS1BNA

File Name: 14120913.D

Dilution Factor: 1

Percent Moisture: 22

Analyst Initials: jk

Prep Extract Vol: 1.00 ml

<u>Analyte</u>	<u>CASNo</u>	<u>Result</u>	<u>Flags</u>	<u>Units</u>	<u>PQL</u>	<u>MDL</u>					<u>run #:</u>
Benzo(a)pyrene	50-32-8	ND		ug/Kg	210	31					2
Dibenzo(a,h)anthracene	53-70-3	ND		ug/Kg	210	29					
<u>Surrogate</u>	<u>CASNo</u>	<u>Result</u>	<u>Flags</u>	<u>Units</u>	<u>PQL</u>	<u>MDL</u>	<u>Spike</u>	<u>% Recov</u>	<u>LCL</u>	<u>UCL</u>	<u>run #:</u>
2,4,6-Tribromophenol	118-79-6	3,000		ug/Kg	160	45	6,400	46.5	34	155	2
2-Fluorobiphenyl	321-60-8	2,000		ug/Kg	110	13	4,300	46.1	36	121	
2-Fluorophenol	367-12-4	2,200		ug/Kg	110	22	6,400	34.9	30	122	
D14-Terphenyl	92-94-4D	2,300		ug/Kg	110	13	4,300	54.5	30	134	
D5-Nitrobenzene	98-95-3D	1,900		ug/Kg	110	16	4,300	44.5	30	122	
D6-Phenol	108-95-2D	2,500		ug/Kg	110	21	6,400	39.4	30	117	

# Detailed Analytical Report

Analytica Group, LLC - Thornton

Workorder (SDG): B1411079

Project: USA 1-14 HC

Client: Maralex Resources, Inc.

Client Project Number: Soils

## Report Section: Method Blank Report

Client Sample Name: MB

Matrix: Solid

Collection Date: 11/21/2014 10:30:00AM

The following test was conducted by: Analytica - Thornton

Lab Sample Number: T141121002-MB

Prep Date: 11-21-2014 10:11

Analytical Method ID: SW8270C - Semivolatile Organics by GC/MS - Std

Prep Method ID: 3550B

Prep Batch Number: T141121002

Report Basis: As Received

Sample prep wt./vol: 30.01 g

Analysis Date: 12/9/2014 6:47:00PM

Instrument: MS1BNA

File Name: 14120906.D

Dilution Factor: 1

Percent Moisture: NA

Analyst Initials: jk

Prep Extract Vol: 1.00 ml

<u>Analyte</u>	<u>CASNo</u>	<u>Result</u>	<u>Flags</u>	<u>Units</u>	<u>PQL</u>	<u>MDL</u>					<u>run #:</u>
Benzo(a)pyrene	50-32-8	ND		ug/Kg	160	24					1
Dibenzo(a,h)anthracene	53-70-3	ND		ug/Kg	160	22					
<u>Surrogate</u>	<u>CASNo</u>	<u>Result</u>	<u>Flags</u>	<u>Units</u>	<u>PQL</u>	<u>MDL</u>	<u>Spike</u>	<u>% Recov</u>	<u>LCL</u>	<u>UCL</u>	<u>run #:</u>
2,4,6-Tribromophenol	118-79-6	3,000		ug/Kg	120	35	5,000	60.4	34	155	1
2-Fluorobiphenyl	321-60-8	1,600		ug/Kg	83	9.9	3,300	47.1	36	121	
2-Fluorophenol	367-12-4	2,500		ug/Kg	83	17	5,000	49.2	30	122	
D14-Terphenyl	92-94-4D	2,300		ug/Kg	83	9.9	3,300	68.0	30	134	
D5-Nitrobenzene	98-95-3D	1,700		ug/Kg	83	12	3,300	49.6	30	122	
D6-Phenol	108-95-2D	2,600		ug/Kg	83	16	5,000	53.0	30	117	

## Detailed Analytical Report

Analytica Group, LLC - Thornton

Workorder (SDG): B1411079

Project: USA 1-14 HC

Client: Maralex Resources, Inc.

Client Project Number: Soils

Tests Run at: Analytica Environmental Laboratories - Thornton, Colorado

Workorder (SDG): B1411079

Project: USA 1-14 HC

Project Number:

Prep Batch: T141121002

### QUALITY CONTROL REPORT

#### LCS REPORT

Analysis: SW8270C - Semivolatile Organics by GC/MS - Std

MB: T141121002-MB

Prep Date: 11/21/2014

MB Anal. Date: 12/9/2014 6:47:00PM

Units: ug/Kg

LCS Anal. Date: 12/9/2014 7:58:00PM

Matrix: Solid

<u>Analyte Name</u>	<u>SampResult</u>	<u>LCSRes.</u>	<u>SPLev</u>	<u>Recov.</u>	<u>Recov Lim</u>	<u>RPDLim</u>	<u>Flag</u>
Benzo(a)pyrene	ND	917	1,660	55.1	40 - 138		
Dibenzo(a,h)anthracene	ND	818	1,660	49.2	50 - 129		low

#### MS/MSD REPORT

Analysis: SW8270C - Semivolatile Organics by GC/MS - Std

Parent: B1411079-01A

Prep Date: 11/21/2014

Samp. Anal. Date: 12/9/2014 10:54:00PM

Units: ug/Kg

MS Anal. Date: 12/10/2014 12:04:00AMMSD Anal. Date: 12/10/2014 1:15:00AM

Matrix: Soil

<u>Analyte Name</u>	<u>SampResult</u>	<u>MSRes.</u>	<u>MSDRes</u>	<u>SPLev</u>	<u>SPDLev</u>	<u>Recov.</u>	<u>MSD Rec.</u>	<u>RPD</u>	<u>Recov Lim</u>	<u>RPDLim</u>	<u>Flag</u>
Benzo(a)pyrene	ND	1,130	1,290	2,130	2,130	53.0	60.5	13.2	40 - 138	40	
Dibenzo(a,h)anthracene	ND	1,620	1,870	2,130	2,130	76.0	87.7	14.3	50 - 129	40	

#### FOOTNOTES TO QC REPORT

Note 1: Results are shown to three significant figures to avoid rounding errors in calculations.

Note 2: If the sample concentration is greater than 4 times the spike level, a recovery is not meaningful, and the result should be used as a replicate. In such cases the spike is not as high as expected random measurement variability of the sample result itself.

Note 3: For sample duplicates, if the result is less than the PQL, the duplicate RPD is not applicable. If the sample and duplicate results are not five times the PQL or greater, then the RPD is not expected to fall within the window shown and the comparison should be made on the basis of the absolute difference. Analytica uses the criterion that the absolute difference should be less than the PQL for water or less than 2XPQL for other matrices.

Note 4: For serial dilutions, if the result is less than the PQL, the duplicate RPD is not applicable. If the sample result is not 50 times the MDL or greater, then the fact that the RPD does not meet the 10% criterion has little significance. Otherwise it indicates that a matrix bias may exist at the analytical step.

## Detailed Analytical Report

Analytica Group, LLC - Thornton

Workorder (SDG): B1411079

Project: USA 1-14 HC

Client: Maralex Resources, Inc.

Client Project Number: Soils

Tests Run at: Analytica Environmental Laboratories - Thornton, Colorado

Workorder (SDG): B1411079

Project: USA 1-14 HC

Project Number:

Prep Batch: T141121001

### QUALITY CONTROL REPORT

#### SAMPLE DUPLICATE REPORT

Analysis: ASTM D2216 - Pmoist

Base Sample: B1411079-01A

Prep Date: 11/21/2014

Samp. Anal. Date: 11/24/2014 3:57:10PM

Units: %

DUP Anal. Date: 11/24/2014 3:57:10PM

Matrix: Soil

<u>Analyte Name</u>	<u>SampResult</u>	<u>DUPRes.</u>	<u>RPD</u>	<u>RPDLim</u>	<u>Flag</u>
Moisture	22.0	19.5	12.0	20	

#### FOOTNOTES TO QC REPORT

Note 1: Results are shown to three significant figures to avoid rounding errors in calculations.

Note 2: If the sample concentration is greater than 4 times the spike level, a recovery is not meaningful, and the result should be used as a replicate. In such cases the spike is not as high as expected random measurement variability of the sample result itself.

Note 3: For sample duplicates, if the result is less than the PQL, the duplicate RPD is not applicable. If the sample and duplicate results are not five times the PQL or greater, then the RPD is not expected to fall within the window shown and the comparison should be made on the basis of the absolute difference. Analytica uses the criterion that the absolute difference should be less than the PQL for water or less than 2XPQL for other matrices.

Note 4: For serial dilutions, if the result is less than the PQL, the duplicate RPD is not applicable. If the sample result is not 50 times the MDL or greater, then the fact that the RPD does not meet the 10% criterion has little significance. Otherwise it indicates that a matrix bias may exist at the analytical step.

## **Detailed Analytical Report**

Analytica Group, LLC - Thornton

Workorder (SDG): B1411079

**Project:** USA 1-14 HC

**Client:** Maralex Resources, Inc.

**Client Project Number:** Soils

### **SURROGATE RECOVERY SUMMARY REPORT**

## Detailed Analytical Report

Analytica Group, LLC - Thornton

Workorder (SDG): B1411079

Project: USA 1-14 HC

Client: Maralex Resources, Inc.

Client Project Number: Soils

Test Method: SW8270C - Semivolatile Organics by GC/MS - Std

Lab Sample #: B1411079-01A Dilution: 10  
Analysis Date: 12/9/2014 10:19:00PM Client Sample: **1-14 HC**  
Batch Number: T141121002 Data File: 14120912.D

<u>AnalyteName</u>	<u>SSRecov</u>	<u>LCL</u>	<u>UCL</u>	<u>SSFlag</u>	<u>Result Status</u>
2,4,6-Tribromophenol	39	34	155		Rrun
2-Fluorobiphenyl	69	36	121		Rrun
2-Fluorophenol	42	30	122		Rrun
D14-Terphenyl	103	30	134		Rrun
D5-Nitrobenzene	61	30	122		Rrun
D6-Phenol	53	30	117		Rrun

Lab Sample #: B1411079-01A Dilution: 1  
Analysis Date: 12/9/2014 10:54:00PM Client Sample: **1-14 HC**  
Batch Number: T141121002 Data File: 14120913.D

<u>AnalyteName</u>	<u>SSRecov</u>	<u>LCL</u>	<u>UCL</u>	<u>SSFlag</u>	<u>Result Status</u>
2,4,6-Tribromophenol	47	34	155		Complete
2-Fluorobiphenyl	46	36	121		Complete
2-Fluorophenol	35	30	122		Complete
D14-Terphenyl	55	30	134		Complete
D5-Nitrobenzene	45	30	122		Complete
D6-Phenol	39	30	117		Complete

Lab Sample #: T141121002-MB Dilution: 1  
Analysis Date: 12/9/2014 6:47:00PM Client Sample: **MB**  
Batch Number: T141121002 Data File: 14120906.D

<u>AnalyteName</u>	<u>SSRecov</u>	<u>LCL</u>	<u>UCL</u>	<u>SSFlag</u>	<u>Result Status</u>
2,4,6-Tribromophenol	60	34	155		Complete
2-Fluorobiphenyl	47	36	121		Complete
2-Fluorophenol	49	30	122		Complete
D14-Terphenyl	68	30	134		Complete
D5-Nitrobenzene	50	30	122		Complete
D6-Phenol	53	30	117		Complete

Lab Sample #: T141121002-LCS Dilution: 1  
Analysis Date: 12/9/2014 7:58:00PM Client Sample: **LCS**  
Batch Number: T141121002 Data File: 14120908.D

<u>AnalyteName</u>	<u>SSRecov</u>	<u>LCL</u>	<u>UCL</u>	<u>SSFlag</u>	<u>Result Status</u>
2,4,6-Tribromophenol	76	34	155		Complete
2-Fluorobiphenyl	52	36	121		Complete
2-Fluorophenol	54	30	122		Complete
D14-Terphenyl	79	30	134		Complete
D5-Nitrobenzene	55	30	122		Complete
D6-Phenol	59	30	117		Complete

Lab Sample #: B1411079-01A-MS Dilution: 10  
Analysis Date: 12/9/2014 11:29:00PM Client Sample: **MS**  
Batch Number: T141121002 Data File: 14120914.D

<u>AnalyteName</u>	<u>SSRecov</u>	<u>LCL</u>	<u>UCL</u>	<u>SSFlag</u>	<u>Result Status</u>
2,4,6-Tribromophenol	69	34	155		Rrun



## Detailed Analytical Report

Analytica Group, LLC - Thornton

Workorder (SDG): B1411079

Project: USA 1-14 HC

Client: Maralex Resources, Inc.

Client Project Number: Soils

Test Method: SW8270C - Semivolatile Organics by GC/MS - Std

Lab Sample #: B1411079-01A-MS

Dilution: 10

Analysis Date: 12/9/2014 11:29:00PM

Client Sample: MS

Batch Number: T141121002

Data File: 14120914.D

<u>AnalyteName</u>	<u>SSRecov</u>	<u>LCL</u>	<u>UCL</u>	<u>SSFlag</u>	<u>Result Status</u>
2-Fluorobiphenyl	75	36	121		Rrun
2-Fluorophenol	66	30	122		Rrun
D14-Terphenyl	89	30	134		Rrun
D5-Nitrobenzene	71	30	122		Rrun
D6-Phenol	73	30	117		Rrun

Lab Sample #: B1411079-01A-MS

Dilution: 1

Analysis Date: 12/10/2014 12:04:00AM

Client Sample: MS

Batch Number: T141121002

Data File: 14120915.D

<u>AnalyteName</u>	<u>SSRecov</u>	<u>LCL</u>	<u>UCL</u>	<u>SSFlag</u>	<u>Result Status</u>
2,4,6-Tribromophenol	83	34	155		Complete
2-Fluorobiphenyl	60	36	121		Complete
2-Fluorophenol	53	30	122		Complete
D14-Terphenyl	52	30	134		Complete
D5-Nitrobenzene	59	30	122		Complete
D6-Phenol	63	30	117		Complete

Lab Sample #: B1411079-01A-MSD

Dilution: 10

Analysis Date: 12/10/2014 12:39:00AM

Client Sample: MSD

Batch Number: T141121002

Data File: 14120916.D

<u>AnalyteName</u>	<u>SSRecov</u>	<u>LCL</u>	<u>UCL</u>	<u>SSFlag</u>	<u>Result Status</u>
2,4,6-Tribromophenol	92	34	155		Rrun
2-Fluorobiphenyl	95	36	121		Rrun
2-Fluorophenol	88	30	122		Rrun
D14-Terphenyl	107	30	134		Rrun
D5-Nitrobenzene	91	30	122		Rrun
D6-Phenol	95	30	117		Rrun

Lab Sample #: B1411079-01A-MSD

Dilution: 1

Analysis Date: 12/10/2014 1:15:00AM

Client Sample: MSD

Batch Number: T141121002

Data File: 14120917.D

<u>AnalyteName</u>	<u>SSRecov</u>	<u>LCL</u>	<u>UCL</u>	<u>SSFlag</u>	<u>Result Status</u>
2,4,6-Tribromophenol	94	34	155		Complete
2-Fluorobiphenyl	65	36	121		Complete
2-Fluorophenol	55	30	122		Complete
D14-Terphenyl	62	30	134		Complete
D5-Nitrobenzene	64	30	122		Complete
D6-Phenol	63	30	117		Complete

## Detailed Analytical Report

Analytica Group, LLC - Thornton

Workorder (SDG): B1411079

Project: USA 1-14 HC

Client: Maralex Resources, Inc.

Client Project Number: Soils

### QC BATCH ASSOCIATIONS - BY METHOD BLANK

Lab Project ID: 166,051 Lab Project Number: B1411079

Prep Date: 11/21/2014

Lab Method Blank Id: T141121001-MB

Prep Batch ID: T141121001

Method: ASTM D2216 - Pmoist

This Method blank and sample preparation batch are associated with the following samples, spikes, and duplicates:

<u>SampleNum</u>	<u>ClientSampleName</u>	<u>DataFile</u>	<u>AnalysisDate</u>
B1411079-01A	1-14 HC		11/24/2014 3:57:10PM
B1411079-01A-DUP	DUP		11/24/2014 3:57:10PM

Prep Date: 11/21/2014

Lab Method Blank Id: T141121002-MB

Prep Batch ID: T141121002

Method: SW8270C - Semivolatile Organics by GC/MS - Std

This Method blank and sample preparation batch are associated with the following samples, spikes, and duplicates:

<u>SampleNum</u>	<u>ClientSampleName</u>	<u>DataFile</u>	<u>AnalysisDate</u>
T141121002-LCS	LCS	14120908.D	12/9/2014 7:58:00PM
B1411079-01A	1-14 HC	14120913.D	12/9/2014 10:54:00PM
B1411079-01A-MS	MS	14120915.D	12/10/2014 12:04:00AM
B1411079-01A-MSD	MSD	14120917.D	12/10/2014 1:15:00AM

## Detailed Analytical Report

Analytica Group, LLC - Thornton

Workorder (SDG): B1411079

**Project:** USA 1-14 HC

**Client:** Maralex Resources, Inc.

**Client Project Number:** Soils

### DATA FLAGS AND DEFINITIONS

The PQL is the Method Quantitation Limit as defined by USACE.

Reporting Limit: Limit below which results are shown as "ND". This may be the PQL, MDL, or a value between. See the report conventions below.

#### Result Field:

ND = Not Detected at or above the Reporting Limit

NA = Analyte not applicable (see Case Narrative for discussion)

#### Qualifier Fields:

LOW = Recovery is below Lower Control Limit

HIGH = Recovery, RPD, or other parameter is above Upper Control Limit

E = Reported concentration is above the instrument calibration upper range

#### Organic Analysis Flags:

B = Analyte was detected in the laboratory method blank

J = Analyte was detected above MDL or Reporting Limit but below the Quant Limit (PQL)

#### Inorganic Analysis Flags:

J = Analyte was detected above the Reporting Limit but below the Quant Limit (PQL)

W = Post digestion spike did not meet criteria

S = Reported value determined by the Method of Standard Additions (MSA)

Several ways of defining the limit of detection and quantitation are prevalent in the laboratory industry and may appear in Analytica reports. These include the following:

MRL = "minimum reporting level", from the EPA Safe Drinking Water program (SDW)

PQL = "practical quantitation limit", from SW-846

EQL = "estimated quantitation limit", from SW-846

LOQ = "limit of quantitation", from a number of authoritative sources

In Analytica's work, all of these terms have the same meaning, equivalent to the EPA definition of the MRL. This reporting level is supported by a satisfactory calibration data point which is at that level or lower, and also is supported by a method detection limit (MDL) determined by the procedure in 40CFR. The MDL is lower than the MRL and represents an estimate of the level where positive detections have a 99% probability of being real, but where quantitation accuracy is unknown.

The MRL as defined by Analytica is the lowest demonstrated point of known quantitation accuracy.

The MRL should not be confused with the MCL, which is the EPA-defined "maximum contaminant level" allowed for certain regulated targets under specific regulations, such as the National Primary Drinking Water Regulations. Normally, the MRL is set at a level which is much lower than the MCL in order to ensure that levels are well below those limits. Not all target analytes have MCL levels established.

Other Flags may be applied. See Case Narrative for Description

# Detailed Analytical Report

Analytica Group, LLC - Thornton

Workorder (SDG): B1411079

Project: USA 1-14 HC

Client: Maralex Resources, Inc.

Client Project Number: Soils

## REPORTING CONVENTIONS FOR THIS REPORT

B1411079

<u>TestPkgName</u>	<u>Basis</u>	<u># Sig Figs</u>	<u>Reporting Limit</u>
8270C/3550B (Solid) - Std	Dry Weight Basis	2	Report to MDL, J qual below PQL
ASTMD2216/ASTMD2216 (Solid) - Pmoist	As Received	3	Report to MDL, J qual below PQL



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(907) 456-3125 fax

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Wasilla, AK 99654  
(907) 373-5440

Chain of Custody No:

088746

# Analytica Chain of Custody Form

Page 1 of 5

## Client Name & Address:

Environmental Services

## Public Water System (PWS) ID#:

## Project Name:

1-14 HCH

## Section to be Completed by Analytica

Quote ID:

LGN:

Account #:

Check

Credit Card

Invoice to Name & Address:

a report

Mar 21st

## Turnaround Time for Results (TAT)

A Standard Routine

Expedited (< 10 days, prior authorization required)  
Non-Routine (please specify due date below; add'l charges may apply)

Requested Due Date for Results:

Special Instructions/Comments:

P.O. or Contract No:

## Requested Analysis/Method

8270

Kit Prep/Shipping Charge: \$

Client Sample Identification / Location

1-14 HCH

Date Sampled

Time Sampled

Matrix (S-DW-WW-Other)

No. of Containers

Lot #:

Pres:

Lot #:

Pres:

Lot #:

Pres:

Lot #:

Pres:

Lot #:

Pres:

Lot #:

Pres:

Field Preserved

Field Filtered

MS/MSD ?

Relinquished by:

Date

Time

Received by:

Date

Time

Section to be completed by Analytica

Relinquished by:

Date

Time

Received by:

Date

Time

Condition of Custody Seal?

THO

ANC

FBKS

WAS

Relinquished by:

Date

Time

Received by:

Date

Time

Initiated by:

Temp/Loc:

3.10C

11/14/14

11/14/14

Name of Sampler: (printed)

Heydenberg