# ANALABS, INC.

**(304) 255-4821 - FAX (304) 255-2410**
**196 Dayton St., P.O. Box 1235**
**Crab Orchard, WV 25827**
**E-mail: analabs@analabsinc.com**
**www.analabsinc.com**


## - CERTIFICATE OF ANALYSIS -

**Brad Keenan**

PO Box 180
Lochgelly, WV 25866

**Attn:**
**FAX:**
**Phone:** (304) 640-8177
**Report Date:** *08-Oct-13*

**Our Lab#:** 12-10659-001
**Your Sample ID:** Sludge
**Sample Type:**
**Matrix**
**Collection Date:** 9/6/2013 **Time:** 10:30 AM **By:** GT
**Received Date:** 9/6/2013 **Time:** 11:25 AM

| Test | Result | Limit | Units | Method | MDL | PQL | Analysis Date/Time/By |
|---|---|---|---|---|---|---|---|
| Arsenic, Total | 4.99 | | mg/kg | 6020A | 0.070 | 1.99 | 9/20/2013 17:27 JW |
| Chloride | 1520 | | mg/kg | 325.2 | 18.0 | 100 | 9/10/2013 15:11 CR |

J - Value is between MDL and PQL
H - Value is above limit
sub - Analyzed by Subcontract Lab
Y - Sample improperly preserved
Q - Sample rec'd out of hold time
T - Analyzed out of hold time

* - The lfm was above/below the acceptance limits. See lfb.

Referenced Field Methods may be different if not tested by Analabs' personnel.

Drinking Water records retained for 5 years; All other records retained for 3 years.

Submitted By Annissa J. Reiger

**Pace Analytical Services, Inc.**
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

October 08, 2013

Katie Cole
Analabs, Inc
196 Dayton St
Crab Orchard, WV 25827

RE: Project: Brad Keenan
Pace Project No.: 30102642

Dear Katie Cole:
Enclosed are the analytical results for sample(s) received by the laboratory on September 10, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

This project was revised on 10/8/13 in order to correct the sample ID as per the clients request.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Timothy Reed

timothy.reed@pacelabs.com
Project Manager

Enclosures

cc: Annissa Reiger, Analabs, Inc

**Pace Analytical Services, Inc.**
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

# CERTIFICATIONS

Project: Brad Keenan
Pace Project No.: 30102642

**Pennsylvania Certification IDs**
1638 Roseytown Rd Suites 2,3&4 Greensburg, PA 15601
ACLASS DOD-ELAP Accreditation #: ADE-1544
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/TNI Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana/TNI Certification #: LA080002
Louisiana/TNI Certification #: 4086
Maine Certification #: PA0091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nevada Certification
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188
Utah/TNI Certification #: ANTE
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia Certification #: 143
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

**Indiana Certification IDs**
7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana/NELAC Certification #: 04076
Ohio VAP Certification #: 101170-0
Pennsylvania Certification #: 68-04991
West Virginia Certification #: 330

**Pace Analytical Services, Inc.**
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

## SAMPLE ANALYTE COUNT

Project: Brad Keenan
Pace Project No.: 30102642

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| **30102642001** | **Sludge** | EPA 8015 - Alcohol-Glycol | CEM | 2 | PASI-I |
| | | EPA 6010B | RTW | 1 | PASI-PA |
| | | EPA 8260 | DJL | 5 | PASI-PA |
| | | ASTM D2974-87 | NEL | 1 | PASI-PA |
| | | EPA 901.1m | AEH | 1 | PASI-PA |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

# PROJECT NARRATIVE

Project: Brad Keenan
Pace Project No.: 30102642

**Method:** **EPA 8015 - Alcohol-Glycol**
**Description:** 8015M Glycols in solids
**Client:** Analabs, Inc
**Date:** October 08, 2013

**General Information:**
1 sample was analyzed for EPA 8015 - Alcohol-Glycol. All samples were received in acceptable condition with any exceptions noted below.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**
All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**
All criteria were within method requirements with any exceptions noted below.

**Surrogates:**
All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

Pace Analytical Services, Inc.
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Greensburg, PA 15601
(724)850-5600

# PROJECT NARRATIVE

Project: Brad Keenan
Pace Project No.: 30102642

**Method:** **EPA 6010B**
**Description:** 6010 MET ICP
**Client:** Analabs, Inc
**Date:** October 08, 2013

**General Information:**
1 sample was analyzed for EPA 6010B. All samples were received in acceptable condition with any exceptions noted below.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**
The samples were prepared in accordance with EPA 3050 with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**
All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**
All criteria were within method requirements with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MPRP/11481

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30102450001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 631006)
  - Silicon

**Duplicate Sample:**
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: MPRP/11481

D6: The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 631005)
  - Silicon

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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(724)850-5600

# PROJECT NARRATIVE

Project: Brad Keenan
Pace Project No.: 30102642

**Method:** **EPA 8260**
**Description:** 8260 MSV PA UST
**Client:** Analabs, Inc
**Date:** October 08, 2013

**General Information:**
1 sample was analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**
All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**
All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**
All internal standards were within QC limits with any exceptions noted below.

**Surrogates:**
All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

Pace Analytical Services, Inc.
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(724)850-5600

## PROJECT NARRATIVE

Project: Brad Keenan
Pace Project No.: 30102642

**Method:** **EPA 901.1m**
**Description:** 901.1 Gamma Spec
**Client:** Analabs, Inc
**Date:** October 08, 2013

**General Information:**
1 sample was analyzed for EPA 901.1m. All samples were received in acceptable condition with any exceptions noted below.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.

Pace Analytical Services, Inc.
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## ANALYTICAL RESULTS

Project: Brad Keenan
Pace Project No.: 30102642

**Sample: Sludge** **Lab ID: 30102642001** Collected: 09/06/13 10:30 Received: 09/10/13 09:40 Matrix: Solid

***Results reported on a "dry-weight" basis***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **8015M Glycols in solids** | Analytical Method: EPA 8015 - Alcohol-Glycol | | | | | | | |
| Ethylene glycol | ND | mg/kg | 30.8 | 1 | | 09/18/13 13:47 | 107-21-1 | |
| Propylene glycol | ND | mg/kg | 15.4 | 1 | | 09/18/13 13:47 | 57-55-6 | |
| **6010 MET ICP** | Analytical Method: EPA 6010B Preparation Method: EPA 3050 | | | | | | | |
| Silicon | **895** | mg/kg | 10.1 | 1 | 09/16/13 11:01 | 09/17/13 14:45 | 7440-21-3 | |
| **8260 MSV PA UST** | Analytical Method: EPA 8260 | | | | | | | |
| Benzene | ND | ug/kg | 6.6 | 1 | | 09/17/13 10:33 | 71-43-2 | |
| Toluene | ND | ug/kg | 6.6 | 1 | | 09/17/13 10:33 | 108-88-3 | |
| ***Surrogates*** | | | | | | | | |
| Toluene-d8 (S) | 97 | % | 81-117 | 1 | | 09/17/13 10:33 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 98 | % | 74-121 | 1 | | 09/17/13 10:33 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 108 | % | 80-120 | 1 | | 09/17/13 10:33 | 17060-07-0 | |
| **Percent Moisture** | Analytical Method: ASTM D2974-87 | | | | | | | |
| Percent Moisture | **35.1** | % | 0.10 | 1 | | 09/17/13 15:54 | | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

## QUALITY CONTROL DATA

Project: Brad Keenan
Pace Project No.: 30102642

QC Batch: GCSV/11474
QC Batch Method: EPA 8015 - Alcohol-Glycol
Analysis Method: EPA 8015 - Alcohol-Glycol
Analysis Description: EPA 8015 Modified
Associated Lab Samples: 30102642001

METHOD BLANK: 981081 Matrix: Solid
Associated Lab Samples: 30102642001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Ethylene glycol | mg/kg | ND | 20.0 | 09/18/13 13:01 | |
| Propylene glycol | mg/kg | ND | 10.0 | 09/18/13 13:01 | |

LABORATORY CONTROL SAMPLE: 981082

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Ethylene glycol | mg/kg | 500 | 468 | 94 | 79-124 | |
| Propylene glycol | mg/kg | 500 | 520 | 104 | 74-106 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 981083 981084

| Parameter | Units | 30102642001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ethylene glycol | mg/kg | ND | 770 | 770 | 679 | 646 | 88 | 83 | 49-139 | 5 | |
| Propylene glycol | mg/kg | ND | 770 | 770 | 749 | 708 | 97 | 92 | 55-108 | 6 | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Greensburg, PA 15601
(724)850-5600

## QUALITY CONTROL DATA

Project: Brad Keenan
Pace Project No.: 30102642

QC Batch: MPRP/11481
QC Batch Method: EPA 3050
Analysis Method: EPA 6010B
Analysis Description: 6010 MET
Associated Lab Samples: 30102642001

METHOD BLANK: 631003 Matrix: Solid
Associated Lab Samples: 30102642001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Silicon | mg/kg | ND | 10.0 | 09/17/13 14:22 | |

LABORATORY CONTROL SAMPLE: 631004

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Silicon | mg/kg | 250 | 243 | 97 | 80-120 | |

MATRIX SPIKE SAMPLE: 631006

| Parameter | Units | 30102450001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Silicon | mg/kg | 841 | 200 | 879 | 19 | 75-125 | M1 |

SAMPLE DUPLICATE: 631005

| Parameter | Units | 30102450001 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Silicon | mg/kg | 841 | 652 | 25 | D6 |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

## QUALITY CONTROL DATA

Project: Brad Keenan
Pace Project No.: 30102642

QC Batch: MSV/17345
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV UST-SOIL
Associated Lab Samples: 30102642001

METHOD BLANK: 631327
Matrix: Solid
Associated Lab Samples: 30102642001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Benzene | ug/kg | ND | 5.0 | 09/17/13 09:03 | |
| Toluene | ug/kg | ND | 5.0 | 09/17/13 09:03 | |
| 1,2-Dichloroethane-d4 (S) | % | 114 | 80-120 | 09/17/13 09:03 | |
| 4-Bromofluorobenzene (S) | % | 97 | 74-121 | 09/17/13 09:03 | |
| Toluene-d8 (S) | % | 94 | 81-117 | 09/17/13 09:03 | |

LABORATORY CONTROL SAMPLE & LCSD: 631328 631329

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | ug/kg | 20 | 19.3 | 19.6 | 96 | 98 | 61-135 | 1 | 30 | |
| Toluene | ug/kg | 20 | 16.7 | 17.1 | 84 | 85 | 60-123 | 2 | 30 | |
| 1,2-Dichloroethane-d4 (S) | % | | | | 110 | 112 | 80-120 | | | |
| 4-Bromofluorobenzene (S) | % | | | | 98 | 99 | 74-121 | | | |
| Toluene-d8 (S) | % | | | | 94 | 95 | 81-117 | | | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, Inc.**
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

## QUALITY CONTROL DATA

Project: Brad Keenan
Pace Project No.: 30102642

QC Batch: PMST/4048
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 30102642001

SAMPLE DUPLICATE: 631577

| Parameter | Units | 30102703001 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Percent Moisture | % | 11.8 | 13.2 | 11 | |

SAMPLE DUPLICATE: 631578

| Parameter | Units | 30102905001 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Percent Moisture | % | 26.1 | 26.4 | 1 | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, Inc.**
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

## ANALYTICAL RESULTS

Project: Brad Keenan
Pace Project No.: 30102642

**Sample: Sludge** **Lab ID: 30102642001** Collected: 09/06/13 10:30 Received: 09/10/13 09:40 Matrix: Solid
PWS: Site ID: Sample Type:

***Results reported on a "dry-weight" basis***

| Parameters | Method | Act ± Unc (MDC) | Units | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|
| Radium-226 | EPA 901.1m | **3.404 ± 1.614 (1.793)** | pCi/g | 09/23/13 09:42 | 13982-63-3 | |

## REPORT OF LABORATORY ANALYSIS

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(724)850-5600

## QUALITY CONTROL DATA

Project: Brad Keenan
Pace Project No.: 30102642

QC Batch: RADC/16937
QC Batch Method: EPA 901.1m
Analysis Method: EPA 901.1m
Analysis Description: 901.1 Gamma Spec
Associated Lab Samples: 30102642001

METHOD BLANK: 625926
Matrix: Solid
Associated Lab Samples: 30102642001

| Parameter | Act ± Unc (MDC) | Units | Analyzed | Qualifiers |
|---|---|---|---|---|
| Radium-226 | -0.039 ± 2.351 (1.698) | pCi/g | 09/06/13 09:30 | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

# QUALIFIERS

Project: Brad Keenan
Pace Project No.: 30102642

## DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty

(MDC) - Minimum Detectable Concentration

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## LABORATORIES

| | |
|---|---|
| PASI-I | Pace Analytical Services - Indianapolis |
| PASI-PA | Pace Analytical Services - Greensburg |

## ANALYTE QUALIFIERS

| | |
|---|---|
| D6 | The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits. |
| M1 | Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery. |

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Brad Keenan
Pace Project No.: 30102642

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **30102642001** | **Sludge** | EPA 8015 - Alcohol-Glycol | GCSV/11474 | | |
| **30102642001** | **Sludge** | EPA 3050 | MPRP/11481 | EPA 6010B | ICP/10829 |
| **30102642001** | **Sludge** | EPA 8260 | MSV/17345 | | |
| **30102642001** | **Sludge** | ASTM D2974-87 | PMST/4048 | | |
| **30102642001** | **Sludge** | EPA 901.1m | RADC/16937 | | |

Pace Analytical
www.pacelabs.com

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: of

**Section A** — **Required** Client Information:

| | |
|---|---|
| Company: | Analabs Inc |
| Address: | PO Box 1235 |
| | Crab Orchard, WV 25827 |
| Email To: | kcole@analabsinc.com |
| Phone: 304-255-4821 | Fax: 304-255-2410 |
| Requested Due Date/TAT: | |

**Section B** — **Required** Project Information:

| | |
|---|---|
| Report To: | Katie Cole |
| Copy To: | |
| Purchase Order No.: | |
| Project Name: | Mary Rahall |
| Project Number: | |

**Section C** — Invoice Information:

| | |
|---|---|
| Attention: | |
| Company Name: | Analabs Inc |
| Address: | PO Box 1235 Crab Orchard, WV 25827 |
| Pace Quote Reference: | |
| Pace Project Manager: | |
| Pace Profile #: | |

**REGULATORY AGENCY**

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: WV

**Section D** — **Required** Client Information

**SAMPLE ID**
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

**Valid Matrix Codes**

| MATRIX | CODE |
|---|---|
| DRINKING WATER | DW |
| WATER | WT |
| WASTE WATER | WW |
| PRODUCT | P |
| SOIL/SOLID | SL |
| OIL | OL |
| WIPE | WP |
| AIR | AR |
| OTHER | OT |
| TISSUE | TS |

Requested Analysis Filtered (Y/N)

| ITEM # | Sample ID | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED: COMPOSITE START DATE | COLLECTED: COMPOSITE START TIME | COLLECTED: COMPOSITE END/GRAB DATE | COLLECTED: COMPOSITE END/GRAB TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives: Unpreserved | $H_2SO_4$ | $HNO_3$ | HCl | NaOH | $Na_2S_2O_3$ | Methanol | Other | Y/N | Analysis Test: Radium 226 | Toluene | Glycols | Silica | Benzene | Residual Chlorine (Y/N) | Pace Project No./ Lab I.D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Sludge Pit | SL | G | | | 09/06/13 | 10:30 | | | | | | | | | | | | X | X | X | X | X | | 30102642 001 |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS: Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|
| | Katie Cole | 9/9/13 | 14:30 | FEDEX | | | | | | |
| | | | | Alyssa R. Muchaney | 9/10/13 | 0940 | 0.1 | Y | N | Y |
| | | | | | | | | | | |
| | | | | | | | | | | |

**SAMPLER NAME AND SIGNATURE**

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

# Sample Condition Upon Receipt

RAC

Pace Analytical

Client Name: AmLabs

Project # 30102642

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 8004 7545 9307

| Optional |
|---|
| Proj. Due Date: |
| Proj. Name: |

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other Plastic Bags

Thermometer Used 5 (6) 7 Type of Ice: (Wet) Blue None ☑ Samples on ice, cooling process has begun

Cooler Temperature 0.1 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: ARM 9/10/13

Temp should be above freezing to 6°C

Comments:

| | | | | |
|---|---|---|---|---|
| Chain of Custody Present: | ☑Yes | ☐No | ☐N/A | 1. |
| Chain of Custody Filled Out: | ☑Yes | ☐No | ☐N/A | 2. |
| Chain of Custody Relinquished: | ☑Yes | ☐No | ☐N/A | 3. |
| Sampler Name & Signature on COC: | ☐Yes | ☑No | ☐N/A | 4. |
| Samples Arrived within Hold Time: | ☑Yes | ☐No | ☐N/A | 5. |
| **Short Hold Time Analysis (<72hr):** | ☐Yes | ☑No | ☐N/A | 6. |
| **Rush Turn Around Time Requested:** | ☐Yes | ☑No | ☐N/A | 7. |
| Sufficient Volume: | ☑Yes | ☐No | ☐N/A | 8. |
| Correct Containers Used: | ☑Yes | ☐No | ☐N/A | 9. |
| -Pace Containers Used: | ☐Yes | ☑No | ☐N/A | |
| Containers Intact: | ☑Yes | ☐No | ☐N/A | 10. |
| Filtered volume received for Dissolved tests | ☐Yes | ☐No | ☑N/A | 11. |
| Sample Labels match COC: | ☑Yes | ☐No | ☐N/A | 12. |
| -Includes date/time/ID/Analysis Matrix: SL | | | | |
| All containers needing preservation have been checked. | ☐Yes | ☐No | ☑N/A | 13. |
| All containers needing preservation are found to be in compliance with EPA recommendation. | ☐Yes | ☐No | ☑N/A | |
| exceptions: VOA, coliform, TOC, O&G, WI-DRO (water) | ☐Yes | ☑No | | Initial when completed ARM / Lot # of added preservative |
| Samples checked for dechlorination: | ☐Yes | ☐No | ☑N/A | 14. |
| Headspace in VOA Vials ( >6mm): | ☐Yes | ☐No | ☑N/A | 15. |
| Trip Blank Present: | ☐Yes | ☐No | ☑N/A | 16. |
| Trip Blank Custody Seals Present | ☐Yes | ☐No | ☑N/A | |
| Pace Trip Blank Lot # (if purchased): | | | | |

**Client Notification/ Resolution:** Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

**Project Manager Review:** _____ **Date:** 9/13/13

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical

Project Number: 30102647

Client Name: Anatabs

page 2

| Item No. | 001 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Matrix Code | SL | | | | | | | | | | | |
| Glass Jar (120 / 250 / 500 / 1L) | Q | | | | | | | | | | | |
| Soil Kit (2 SB, 1M, soil jar) | | | | | | | | | | | | |
| Chemistry (250 / 500 / 1L) | | | | | | | | | | | | |
| Organics (1L) | | | | | | | | | | | | |
| Nutrient (250 / 500 ) | | | | | | | | | | | | |
| Phenolics (250 ml) | | | | | | | | | | | | |
| TOC (40 ml / 250 ml) | | | | | | | | | | | | |
| TOX (250 ml) | | | | | | | | | | | | |
| Total Metals | | | | | | | | | | | | |
| Dissolved Metals preserved Y N | | | | | | | | | | | | |
| O & G (1L) | | | | | | | | | | | | |
| TPH (1L) | | | | | | | | | | | | |
| VOA (40 ml 30 ml) | | | | | | | | | | | | |
| Cyanide (250 ml) | | | | | | | | | | | | |
| Sulfide (500 ml) | | | | | | | | | | | | |
| Bacteria (120 ml) | | | | | | | | | | | | |
| Wipes / swipe/ smear/ filter | | | | | | | | | | | | |
| Radchem Nalgene (125 / 250 / 500 / 1L) | | | | | | | | | | | | |
| Radchem Nalgene (1/2 gal. / 1 gal.L) | | | | | | | | | | | | |
| Cubitainer (500 ml / 4L) | | | | | | | | | | | | |
| Ziploc | | | | | | | | | | | | |
| Other | | | | | | | | | | | | |
| Other | | | | | | | | | | | | |
| Other | | | | | | | | | | | | |

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