

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

TestAmerica Job ID: 500-57765-1  
Client Project/Site: MadisonKipp WI001283.0008.00006

For:  
ARCADIS U.S., Inc.  
126 North Jefferson Street  
Suite 400  
Milwaukee, Wisconsin 53202

Attn: Rebecca Robbennolt



Authorized for release by:  
6/11/2013 10:35:28 AM

Sandie Fredrick, Project Manager I  
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Have a Question?



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[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Case Narrative

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001283.0008.00006

TestAmerica Job ID: 500-57765-1

**Job ID: 500-57765-1**

**Laboratory: TestAmerica Chicago**

## Narrative

**Job Narrative**  
**500-57765-1**

### Comments

No additional comments.

### Receipt

The samples were received on 6/7/2013 10:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.0° C.

### GC Semi VOA

Method(s) 8082: The following sample was diluted to bring the concentration of target analytes within the calibration range: MKC-16D-Base (500-57765-1). Elevated reporting limits (RLs) are provided.

Method(s) 8082: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch recovered outside control limits for the following analytes: AR1016. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. Equipment Blank 5 (500-57765-2)

No other analytical or quality issues were noted.

### Metals

No analytical or quality issues were noted.

### Organic Prep

No analytical or quality issues were noted.

# Detection Summary

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001283.0008.00006

TestAmerica Job ID: 500-57765-1

## Client Sample ID: MKC-16D-Base

Lab Sample ID: 500-57765-1

| Analyte  | Result | Qualifier | RL  | MDL | Unit  | Dil Fac | D | Method | Prep Type |
|----------|--------|-----------|-----|-----|-------|---------|---|--------|-----------|
| PCB-1254 | 1100   |           | 100 | 22  | ug/Kg | 5       | ☼ | 8082   | Total/NA  |

## Client Sample ID: Equipment Blank 5

Lab Sample ID: 500-57765-2

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

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# Method Summary

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001283.0008.00006

TestAmerica Job ID: 500-57765-1

| Method   | Method Description                                     | Protocol | Laboratory |
|----------|--|----------|------------|
| 8082     | Polychlorinated Biphenyls (PCBs) by Gas Chromatography | SW846    | TAL CHI    |
| Moisture | Percent Moisture                                       | EPA      | TAL CHI    |

**Protocol References:**

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



# Sample Summary

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001283.0008.00006

TestAmerica Job ID: 500-57765-1

| Lab Sample ID | Client Sample ID  | Matrix | Collected      | Received       |
|---------------|-------------------|--------|----------------|----------------|
| 500-57765-1   | MKC-16D-Base      | Solid  | 06/06/13 11:50 | 06/07/13 10:20 |
| 500-57765-2   | Equipment Blank 5 | Water  | 06/06/13 12:45 | 06/07/13 10:20 |

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# Client Sample Results

Client: ARCADIS U.S., Inc.  
 Project/Site: MadisonKipp WI001283.0008.00006

TestAmerica Job ID: 500-57765-1

**Client Sample ID: MKC-16D-Base**

**Lab Sample ID: 500-57765-1**

Date Collected: 06/06/13 11:50

Matrix: Solid

Date Received: 06/07/13 10:20

Percent Solids: 80.2

**Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

| Analyte         | Result      | Qualifier | RL  | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------|-------------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| PCB-1016        | <36         |           | 100 | 36  | ug/Kg | ☼ | 06/07/13 16:57 | 06/10/13 11:43 | 5       |
| PCB-1221        | <44         |           | 100 | 44  | ug/Kg | ☼ | 06/07/13 16:57 | 06/10/13 11:43 | 5       |
| PCB-1232        | <44         |           | 100 | 44  | ug/Kg | ☼ | 06/07/13 16:57 | 06/10/13 11:43 | 5       |
| PCB-1242        | <33         |           | 100 | 33  | ug/Kg | ☼ | 06/07/13 16:57 | 06/10/13 11:43 | 5       |
| PCB-1248        | <40         |           | 100 | 40  | ug/Kg | ☼ | 06/07/13 16:57 | 06/10/13 11:43 | 5       |
| <b>PCB-1254</b> | <b>1100</b> |           | 100 | 22  | ug/Kg | ☼ | 06/07/13 16:57 | 06/10/13 11:43 | 5       |
| PCB-1260        | <50         |           | 100 | 50  | ug/Kg | ☼ | 06/07/13 16:57 | 06/10/13 11:43 | 5       |

| Surrogate              | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|----------------|----------------|---------|
| Tetrachloro-m-xylene   | 65        |           | 50 - 116 | 06/07/13 16:57 | 06/10/13 11:43 | 5       |
| DCB Decachlorobiphenyl | 87        |           | 48 - 142 | 06/07/13 16:57 | 06/10/13 11:43 | 5       |

**Client Sample ID: Equipment Blank 5**

**Lab Sample ID: 500-57765-2**

Date Collected: 06/06/13 12:45

Matrix: Water

Date Received: 06/07/13 10:20

**Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| PCB-1016 | <0.063 | *         | 0.38 | 0.063 | ug/L |   | 06/07/13 14:08 | 06/08/13 03:19 | 1       |
| PCB-1221 | <0.19  |           | 0.38 | 0.19  | ug/L |   | 06/07/13 14:08 | 06/08/13 03:19 | 1       |
| PCB-1232 | <0.19  |           | 0.38 | 0.19  | ug/L |   | 06/07/13 14:08 | 06/08/13 03:19 | 1       |
| PCB-1242 | <0.19  |           | 0.38 | 0.19  | ug/L |   | 06/07/13 14:08 | 06/08/13 03:19 | 1       |
| PCB-1248 | <0.19  |           | 0.38 | 0.19  | ug/L |   | 06/07/13 14:08 | 06/08/13 03:19 | 1       |
| PCB-1254 | <0.19  |           | 0.38 | 0.19  | ug/L |   | 06/07/13 14:08 | 06/08/13 03:19 | 1       |
| PCB-1260 | <0.066 |           | 0.38 | 0.066 | ug/L |   | 06/07/13 14:08 | 06/08/13 03:19 | 1       |

| Surrogate              | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|----------------|----------------|---------|
| Tetrachloro-m-xylene   | 82        |           | 50 - 120 | 06/07/13 14:08 | 06/08/13 03:19 | 1       |
| DCB Decachlorobiphenyl | 84        |           | 29 - 126 | 06/07/13 14:08 | 06/08/13 03:19 | 1       |

# Definitions/Glossary

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001283.0008.00006

TestAmerica Job ID: 500-57765-1

## Qualifiers

### GC Semi VOA

| Qualifier | Qualifier Description                  |
|-----------|--|
| *         | LCS or LCSD exceeds the control limits |

## Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|---|
| □              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery  |
| CNF            | Contains no Free Liquid   |
| DER            | Duplicate error ratio (normalized absolute difference)  |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision level concentration  |
| MDA            | Minimum detectable activity   |
| EDL            | Estimated Detection Limit   |
| MDC            | Minimum detectable concentration  |
| MDL            | Method Detection Limit  |
| ML             | Minimum Level (Dioxin)  |
| ND             | Not detected at the reporting limit (or MDL or EDL if shown)  |
| PQL            | Practical Quantitation Limit  |
| QC             | Quality Control   |
| RER            | Relative error ratio  |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)   |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)   |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)   |



# QC Association Summary

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001283.0008.00006

TestAmerica Job ID: 500-57765-1

## GC Semi VOA

### Analysis Batch: 188778

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 500-57765-2         | Equipment Blank 5      | Total/NA  | Water  | 8082   | 189022     |
| LCS 500-189022/2-A  | Lab Control Sample     | Total/NA  | Water  | 8082   | 189022     |
| LCSD 500-189022/3-A | Lab Control Sample Dup | Total/NA  | Water  | 8082   | 189022     |
| MB 500-189022/1-A   | Method Blank           | Total/NA  | Water  | 8082   | 189022     |

### Analysis Batch: 188993

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 500-57765-1        | MKC-16D-Base       | Total/NA  | Solid  | 8082   | 189046     |
| LCS 500-189046/2-A | Lab Control Sample | Total/NA  | Solid  | 8082   | 189046     |
| MB 500-189046/1-A  | Method Blank       | Total/NA  | Solid  | 8082   | 189046     |

### Prep Batch: 189022

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 500-57765-2         | Equipment Blank 5      | Total/NA  | Water  | 3510C  |            |
| LCS 500-189022/2-A  | Lab Control Sample     | Total/NA  | Water  | 3510C  |            |
| LCSD 500-189022/3-A | Lab Control Sample Dup | Total/NA  | Water  | 3510C  |            |
| MB 500-189022/1-A   | Method Blank           | Total/NA  | Water  | 3510C  |            |

### Prep Batch: 189046

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 500-57765-1        | MKC-16D-Base       | Total/NA  | Solid  | 3541   |            |
| LCS 500-189046/2-A | Lab Control Sample | Total/NA  | Solid  | 3541   |            |
| MB 500-189046/1-A  | Method Blank       | Total/NA  | Solid  | 3541   |            |

## General Chemistry

### Analysis Batch: 188941

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method   | Prep Batch |
|---------------|------------------|-----------|--------|----------|------------|
| 500-57765-1   | MKC-16D-Base     | Total/NA  | Solid  | Moisture |            |

# Surrogate Summary

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001283.0008.00006

TestAmerica Job ID: 500-57765-1

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID      | Client Sample ID   | TCX1<br>(50-116) | DCB1<br>(48-142) |
|--------------------|--------------------|------------------|------------------|
| 500-57765-1        | MKC-16D-Base       | 65               | 87               |
| LCS 500-189046/2-A | Lab Control Sample | 79               | 87               |
| MB 500-189046/1-A  | Method Blank       | 74               | 77               |

#### Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID       | Client Sample ID       | TCX2<br>(50-120) | DCB2<br>(29-126) |
|---------------------|------------------------|------------------|------------------|
| 500-57765-2         | Equipment Blank 5      | 82               | 84               |
| LCS 500-189022/2-A  | Lab Control Sample     | 89               | 85               |
| LCSD 500-189022/3-A | Lab Control Sample Dup | 82               | 80               |
| MB 500-189022/1-A   | Method Blank           | 87               | 88               |

#### Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

# QC Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001283.0008.00006

TestAmerica Job ID: 500-57765-1

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Lab Sample ID: MB 500-189022/1-A**  
**Matrix: Water**  
**Analysis Batch: 188778**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 189022**

| Analyte  | MB Result | MB Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|-----------|--------------|------|-------|------|---|----------------|----------------|---------|
| PCB-1016 | <0.067    |              | 0.40 | 0.067 | ug/L |   | 06/07/13 14:08 | 06/08/13 02:22 | 1       |
| PCB-1221 | <0.20     |              | 0.40 | 0.20  | ug/L |   | 06/07/13 14:08 | 06/08/13 02:22 | 1       |
| PCB-1232 | <0.20     |              | 0.40 | 0.20  | ug/L |   | 06/07/13 14:08 | 06/08/13 02:22 | 1       |
| PCB-1242 | <0.20     |              | 0.40 | 0.20  | ug/L |   | 06/07/13 14:08 | 06/08/13 02:22 | 1       |
| PCB-1248 | <0.20     |              | 0.40 | 0.20  | ug/L |   | 06/07/13 14:08 | 06/08/13 02:22 | 1       |
| PCB-1254 | <0.20     |              | 0.40 | 0.20  | ug/L |   | 06/07/13 14:08 | 06/08/13 02:22 | 1       |
| PCB-1260 | <0.070    |              | 0.40 | 0.070 | ug/L |   | 06/07/13 14:08 | 06/08/13 02:22 | 1       |

| Surrogate              | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------------|--------------|----------|----------------|----------------|---------|
| Tetrachloro-m-xylene   | 87           |              | 50 - 120 | 06/07/13 14:08 | 06/08/13 02:22 | 1       |
| DCB Decachlorobiphenyl | 88           |              | 29 - 126 | 06/07/13 14:08 | 06/08/13 02:22 | 1       |

**Lab Sample ID: LCS 500-189022/2-A**  
**Matrix: Water**  
**Analysis Batch: 188778**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 189022**

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| PCB-1016 | 4.02        | 4.55       | *             | ug/L |   | 113  | 64 - 110     |
| PCB-1260 | 4.02        | 4.14       |               | ug/L |   | 103  | 51 - 110     |

| Surrogate              | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------|---------------|---------------|----------|
| Tetrachloro-m-xylene   | 89            |               | 50 - 120 |
| DCB Decachlorobiphenyl | 85            |               | 29 - 126 |

**Lab Sample ID: LCSD 500-189022/3-A**  
**Matrix: Water**  
**Analysis Batch: 188778**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 189022**

| Analyte  | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|-------------|-------------|----------------|------|---|------|--------------|-----|-----------|
| PCB-1016 | 4.02        | 4.50        | *              | ug/L |   | 112  | 64 - 110     | 1   | 20        |
| PCB-1260 | 4.02        | 4.18        |                | ug/L |   | 104  | 51 - 110     | 1   | 20        |

| Surrogate              | LCSD %Recovery | LCSD Qualifier | Limits   |
|------------------------|----------------|----------------|----------|
| Tetrachloro-m-xylene   | 82             |                | 50 - 120 |
| DCB Decachlorobiphenyl | 80             |                | 29 - 126 |

**Lab Sample ID: MB 500-189046/1-A**  
**Matrix: Solid**  
**Analysis Batch: 188993**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 189046**

| Analyte  | MB Result | MB Qualifier | RL | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|-----------|--------------|----|-----|-------|---|----------------|----------------|---------|
| PCB-1016 | <5.9      |              | 17 | 5.9 | ug/Kg |   | 06/07/13 16:57 | 06/08/13 01:53 | 1       |
| PCB-1221 | <7.3      |              | 17 | 7.3 | ug/Kg |   | 06/07/13 16:57 | 06/08/13 01:53 | 1       |
| PCB-1232 | <7.3      |              | 17 | 7.3 | ug/Kg |   | 06/07/13 16:57 | 06/08/13 01:53 | 1       |
| PCB-1242 | <5.5      |              | 17 | 5.5 | ug/Kg |   | 06/07/13 16:57 | 06/08/13 01:53 | 1       |
| PCB-1248 | <6.6      |              | 17 | 6.6 | ug/Kg |   | 06/07/13 16:57 | 06/08/13 01:53 | 1       |
| PCB-1254 | <3.6      |              | 17 | 3.6 | ug/Kg |   | 06/07/13 16:57 | 06/08/13 01:53 | 1       |

TestAmerica Chicago

# QC Sample Results

Client: ARCADIS U.S., Inc.  
 Project/Site: MadisonKipp WI001283.0008.00006

TestAmerica Job ID: 500-57765-1

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

**Lab Sample ID: MB 500-189046/1-A**

**Matrix: Solid**

**Analysis Batch: 188993**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 189046**

| Analyte  | MB Result | MB Qualifier | RL | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|-----------|--------------|----|-----|-------|---|----------------|----------------|---------|
| PCB-1260 | <8.2      |              | 17 | 8.2 | ug/Kg |   | 06/07/13 16:57 | 06/08/13 01:53 | 1       |

| Surrogate              | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------------|--------------|----------|----------------|----------------|---------|
| Tetrachloro-m-xylene   | 74           |              | 50 - 116 | 06/07/13 16:57 | 06/08/13 01:53 | 1       |
| DCB Decachlorobiphenyl | 77           |              | 48 - 142 | 06/07/13 16:57 | 06/08/13 01:53 | 1       |

**Lab Sample ID: LCS 500-189046/2-A**

**Matrix: Solid**

**Analysis Batch: 188993**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 189046**

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|-------|---|------|--------------|
| PCB-1016 | 167         | 144        |               | ug/Kg |   | 86   | 59 - 110     |
| PCB-1260 | 167         | 147        |               | ug/Kg |   | 88   | 69 - 120     |

| Surrogate              | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------|---------------|---------------|----------|
| Tetrachloro-m-xylene   | 79            |               | 50 - 116 |
| DCB Decachlorobiphenyl | 87            |               | 48 - 142 |

# Lab Chronicle

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001283.0008.00006

TestAmerica Job ID: 500-57765-1

## Client Sample ID: MKC-16D-Base

Date Collected: 06/06/13 11:50

Date Received: 06/07/13 10:20

## Lab Sample ID: 500-57765-1

Matrix: Solid

Percent Solids: 80.2

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3541         |     |                 | 189046       | 06/07/13 16:57       | DEA     | TAL CHI |
| Total/NA  | Analysis   | 8082         |     | 5               | 188993       | 06/10/13 11:43       | PG      | TAL CHI |
| Total/NA  | Analysis   | Moisture     |     | 1               | 188941       | 06/07/13 08:13       | CMV     | TAL CHI |

## Client Sample ID: Equipment Blank 5

Date Collected: 06/06/13 12:45

Date Received: 06/07/13 10:20

## Lab Sample ID: 500-57765-2

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3510C        |     |                 | 189022       | 06/07/13 14:08       | SCH     | TAL CHI |
| Total/NA  | Analysis   | 8082         |     | 1               | 188778       | 06/08/13 03:19       | PG      | TAL CHI |

### Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

# Certification Summary

Client: ARCADIS U.S., Inc.  
 Project/Site: MadisonKipp WI001283.0008.00006

TestAmerica Job ID: 500-57765-1

## Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority           | Program       | EPA Region | Certification ID | Expiration Date |
|---------------------|---------------|------------|------------------|-----------------|
| Alabama             | State Program | 4          | 40461            | 06-30-13 *      |
| California          | NELAP         | 9          | 01132CA          | 04-30-14        |
| Georgia             | State Program | 4          | N/A              | 04-30-14        |
| Georgia             | State Program | 4          | 939              | 04-30-14        |
| Hawaii              | State Program | 9          | N/A              | 04-30-14        |
| Illinois            | NELAP         | 5          | 100201           | 04-30-14        |
| Indiana             | State Program | 5          | C-IL-02          | 04-30-14        |
| Iowa                | State Program | 7          | 82               | 05-01-14        |
| Kansas              | NELAP         | 7          | E-10161          | 10-31-13        |
| Kentucky            | State Program | 4          | 90023            | 12-31-13        |
| Kentucky (UST)      | State Program | 4          | 66               | 04-30-14        |
| Louisiana           | NELAP         | 6          | 30720            | 06-30-13        |
| Massachusetts       | State Program | 1          | M-IL035          | 06-30-13        |
| Mississippi         | State Program | 4          | N/A              | 04-30-14        |
| North Carolina DENR | State Program | 4          | 291              | 12-31-13        |
| North Dakota        | State Program | 8          | R-194            | 04-30-14        |
| Oklahoma            | State Program | 6          | 8908             | 08-31-13        |
| South Carolina      | State Program | 4          | 77001            | 06-30-13 *      |
| Texas               | NELAP         | 6          | T104704252-09-TX | 02-28-14        |
| USDA                | Federal       |            | P330-12-00038    | 02-06-15        |
| Virginia            | NELAP         | 3          | 460142           | 06-14-13        |
| Wisconsin           | State Program | 5          | 999580010        | 08-31-13        |
| Wyoming             | State Program | 8          | 8TMS-Q           | 07-15-13        |

\* Expired certification is currently pending renewal and is considered valid.

ID#: \_\_\_\_\_

# CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Page 1 of 1

Lab Work Order #  
**500-57765**

|                  |   |   |  |          |          |  |  |  |  |  |  |
|------------------|---|---|--|----------|----------|--|--|--|--|--|--|
| Send Results to: | Contact & Company Name:<br><b>Rebecca Robbennolt / ARCADIS</b>  | Telephone:<br><b>414-276-7742</b>                           | Preservative<br>Filtered (✓)           | <b>E</b> | <b>E</b> |  |  |  |  |  |  |
|                  | Address:<br><b>126 N. Jefferson St. Suite 400</b>               | Fax:  | # of Containers                        | <b>1</b> | <b>1</b> |  |  |  |  |  |  |
|                  | City State Zip<br><b>Milwaukee WI 53202</b>                     | E-mail Address:<br><b>Rebecca.Robbennolt@arcadis-us.com</b> | Container Information                  | <b>7</b> | <b>4</b> |  |  |  |  |  |  |
|                  | Project Name/Location (City, State):<br><b>mcc / Madison WI</b> | Project #:<br><b>WI001283,0008,00006</b>                    | <b>PARAMETER ANALYSIS &amp; METHOD</b> |          |          |  |  |  |  |  |  |
|                  | Sampler's Printed Name:<br><b>David Hahn</b>                    | Sampler's Signature:<br><i>DH</i>                           |  |          |          |  |  |  |  |  |  |

- Keys**
- |                                   |                                   |
|-----------------------------------|-----------------------------------|
| <b>Preservation Key:</b>          | <b>Container Information Key:</b> |
| A. H <sub>2</sub> SO <sub>4</sub> | 1. 40 ml Vial                     |
| B. HCL                            | 2. 1 L Amber                      |
| C. HNO <sub>3</sub>               | 3. 250 ml Plastic                 |
| D. NaOH                           | 4. 500 ml Plastic                 |
| E. None                           | 5. Encore                         |
| F. Other: _____                   | 6. 2 oz. Glass                    |
| G. Other: _____                   | 7. 4 oz. Glass                    |
| H. Other: _____                   | 8. 8 oz. Glass                    |
|                                   | 9. Other: <b>250ml Amber</b>      |
|                                   | 10. Other: _____                  |
- Matrix Key:**
- |            |               |                  |
|------------|---------------|------------------|
| SO - Soil  | SE - Sediment | NL - NAPL/Oil    |
| W - Water  | SL - Sludge   | SW - Sample Wipe |
| T - Tissue | A - Air       | Other: _____     |

| Sample ID                | Collection    |             | Type (✓) |          | Matrix   | PCBs     | PCBs     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------------|---------------|-------------|----------|----------|----------|----------|----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                          | Date          | Time        | Comp     | Grab     |          |          |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>mkc-16D-Base</b>      | <b>6/6/13</b> | <b>1150</b> |          | <b>\</b> | <b>S</b> | <b> </b> | <b> </b> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Equipment Blank 5</b> | <b>6/6/13</b> | <b>1245</b> |          | <b>\</b> | <b>w</b> | <b> </b> | <b> </b> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**REMARKS**

Special Instructions/Comments: \_\_\_\_\_  Special QA/QC Instructions (✓): \_\_\_\_\_

| Laboratory Information and Receipt                             |  | Relinquished By                    |                                    | Received By   |            | Relinquished By |            | Laboratory Received By                |                                    |
|--|--|------------------------------------|------------------------------------|---------------|------------|-----------------|------------|---------------------------------------|------------------------------------|
| Lab Name:<br><b>Test America</b>                               | Cooler Custody Seal (✓)<br><input type="checkbox"/> Intact <input type="checkbox"/> Not Intact | Printed Name:<br><b>David Hahn</b> | Signature:<br><i>DH</i>            | Printed Name: | Signature: | Printed Name:   | Signature: | Printed Name:<br><b>Sherrin Scott</b> | Signature:<br><i>Sherrin Scott</i> |
| <input checked="" type="checkbox"/> Cooler packed with Ice (✓) | Sample Receipt:  | Firm:<br><b>ARCADIS</b>            | Date/Time:<br><b>6/6/13 - 1430</b> | Firm/Courier: | Date/Time: | Firm/Courier:   | Date/Time: | Firm:<br><b>TA-CHE</b>                | Date/Time:<br><b>6/7/13 1020</b>   |
| Specify Turnaround Requirements:<br><b>2 Day TAT</b>           | Condition/Cooler Temp: <b>2.0</b>  |                                    |                                    |               |            |                 |            |                                       |                                    |
| Shipping Tracking #:<br><b>80P2088 6773</b>                    |  |                                    |                                    |               |            |                 |            |                                       |                                    |

## Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 500-57765-1

**Login Number: 57765**

**List Source: TestAmerica Chicago**

**List Number: 1**

**Creator: Scott, Sherri L**

| Question   | Answer | Comment |
|--|--------|---------|
| Radioactivity wasn't checked or is <=/ background as measured by a survey meter. | True   |         |
| The cooler's custody seal, if present, is intact.                                | True   |         |
| Sample custody seals, if present, are intact.                                    | True   |         |
| The cooler or samples do not appear to have been compromised or tampered with.   | True   |         |
| Samples were received on ice.  | True   |         |
| Cooler Temperature is acceptable.  | True   |         |
| Cooler Temperature is recorded.  | True   | 2.0     |
| COC is present.  | True   |         |
| COC is filled out in ink and legible.  | True   |         |
| COC is filled out with all pertinent information.                                | True   |         |
| Is the Field Sampler's name present on COC?                                      | True   |         |
| There are no discrepancies between the containers received and the COC.          | True   |         |
| Samples are received within Holding Time.  | True   |         |
| Sample containers have legible labels.   | True   |         |
| Containers are not broken or leaking.  | True   |         |
| Sample collection date/times are provided.                                       | True   |         |
| Appropriate sample containers are used.  | True   |         |
| Sample bottles are completely filled.  | True   |         |
| Sample Preservation Verified.  | True   |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |         |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").  | N/A    |         |
| Multiphasic samples are not present.   | True   |         |
| Samples do not require splitting or compositing.                                 | True   |         |
| Residual Chlorine Checked.   | N/A    |         |