



Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAU 1312-Golf Road at Harms Road Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

Golf Road (Westbound) IDOT STA 370+00 to 371+10 and 373+15 to 374+10 (ISGS Site 2409V-1)

City: Morton Grove State: IL Zip Code: 60077

County: Cook Township: Niles

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 42.05542 Longitude: -87.76638
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Zip Code: 60196 Phone: 847-705-4122

Contact: Kristine Kutscher

Contact: Kristine Kutscher

Email, if available: kristine.kutscher@illinois.gov

Email, if available: kristine.kutscher@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAU 1312-Golf Road at Harms Road

Latitude: 42.05542 Longitude: -87.76638

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

Soil from borings B01 and B04 were sampled adjacent to ISGS Site No 2409V-1. See Exhibits 2, 2A, 2B, and Table 1 of the Preliminary Site Investigation Report prepared by Terracon.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TestAmerica Lab Report No J146450-1. Also see Preliminary Site Investigation Report prepared by Terracon. CCDD/USFO facility in MSA County.

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Matt Weiss (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Terracon Consultants, Inc

Street Address: 135 Ambassador Drive

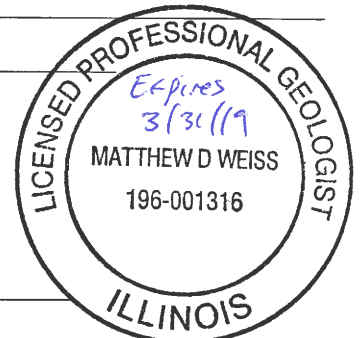
City: Naperville State: IL Zip Code: 60540

Phone: 630-717-4263

Matt Weiss
Printed Name:

[Signature]

8/3/18
Date:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:



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Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

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This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAU 1312-Golf Road at Harms Road Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

Harms Road (Southbound) IDOT STA 58+00 to 62+05.8 (ISGS Site 2409V-1)

City: Morton Grove State: IL Zip Code: 60077

County: Cook Township: Niles

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 42.05542 Longitude: -87.76638
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Zip Code: 60196 Phone: 847-705-4122

Contact: Kristine Kutscher

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Project Name: FAU 1312-Golf Road at Harms Road

Latitude: 42.05542 Longitude: -87.76638

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a)]:

Soil from borings B07, B08, and B09 were sampled adjacent to ISGS Site No 2409V-1. See Exhibits 2, 2A, 2B, and Table 1 of the Preliminary Site Investigation Report prepared by Terracon.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TestAmerica Lab Report No J146393-1. Also see Preliminary Site Investigation Report prepared by Terracon. CCDD/USFO facility in MSA County.

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Matt Weiss (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Terracon Consultants, Inc

Street Address: 135 Ambassador Drive

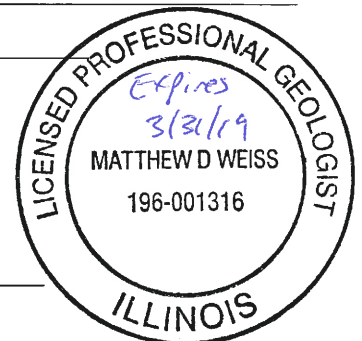
City: Naperville State: IL Zip Code: 60540

Phone: 630-717-4263

Matt Weiss
Printed Name:

[Signature]
Licensed Professional Engineer or
Licensed Professional Geologist Signature:

8/3/18
Date:



Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:049A

Preliminary Site Investigation

FAU 1312 -Golf Rd at Harms Rd (PESA #2409V-1)

Morton Grove, Cook County, IL

Terracon Project No. 11187007J

Page 1 of 8

| Analyte | Units | Background | | Maximum Allowed Concentration | Sample Identification | 2409V-1-B01 (0-3) | 2409V-1-B04 (0-3) | 2409V-1-B07 (0-5) |
|---------------------------------------------------|-------|------------|--------|-------------------------------|-----------------------|-------------------|-------------------|-------------------|
| | | | | CCDD | Sample Depth (feet) | (0-3) | (0-3) | (0-5) |
| | | Chicago | MSAs | mg/kg pH 6.25-9.0 | Date Collected | 06/05/2018 | 06/05/2018 | 06/04/2018 |
| Volatile Organic Analytical Parameters | | | | | | | | |
| Acetone | mg/kg | --- | --- | 25 | | <0.0073 | 0.0087 | 0.012 |
| Semivolatile Organic Analytical Parameters | | | | | | | | |
| Acenaphthene | mg/kg | 0.09 | 0.13 | 570 | | <0.0072 | <0.0072 | <0.0070 |
| Acenaphthylene | mg/kg | 0.03 | 0.07 | 85 | | <0.0053 | <0.0053 | <0.0051 |
| Anthracene | mg/kg | 0.25 | 0.4 | 12000 | | <0.0067 | <0.0067 | <0.0065 |
| Benzo(a)anthracene | mg/kg | 1.1 | 1.8 | 0.9 | | 0.036 | <0.0054 | <0.0052 |
| Benzo(a)pyrene | mg/kg | 1.3 | 2.1 | 0.09 | | 0.045 | <0.0077 | <0.0075 |
| Benzo(b)fluoranthene | mg/kg | 1.5 | 2.1 | 0.9 | | 0.06 | <0.0086 | <0.0084 |
| Benzo(g,h,i)perylene | mg/kg | 0.68 | 1.7 | 2300 | | 0.025 | <0.013 | <0.013 |
| Benzo(k)fluoranthene | mg/kg | 0.99 | 1.7 | 9 | | 0.018 | <0.012 | <0.011 |
| Chrysene | mg/kg | 1.2 | 2.7 | 88 | | 0.049 | <0.011 | <0.011 |
| Dibenzo(a,h)anthracene | mg/kg | 0.2 | 0.42 | 0.09 | | <0.0077 | <0.0077 | <0.0075 |
| Fluoranthene | mg/kg | 2.7 | 4.1 | 3100 | | 0.07 | <0.0074 | <0.0072 |
| Fluorene | mg/kg | 0.1 | 0.18 | 560 | | <0.0056 | <0.0056 | <0.0055 |
| Indeno(1,2,3-c,d)pyrene | mg/kg | 0.86 | 1.6 | 0.9 | | 0.022 | <0.010 | <0.010 |
| Phenanthrene | mg/kg | 1.3 | 2.5 | 210 | | 0.03 | <0.0056 | <0.0054 |
| Pyrene | mg/kg | 1.9 | 3.0 | 2300 | | 0.065 | <0.0079 | <0.0077 |
| Carbazole | mg/kg | --- | --- | 0.6 | | 0.12 | <0.10 | <0.097 |
| Inorganic Analytical Parameters | | | | | | | | |
| Arsenic | mg/kg | --- | 13 | 11.3 | | 5.2 | 5.1 | 4 |
| Barium | mg/kg | --- | 110 | 1500 | | 56 | 70 | 52 |
| Cadmium | mg/kg | --- | 0.6 | 5.2 | | 0.36 | 0.21 | 0.14 |
| Chromium, total | mg/kg | --- | 16.2 | 21 | | 17 | 20 | 15 |
| Lead | mg/kg | --- | 36 | 107 | | 47 | 16 | 12 |
| Mercury | mg/kg | --- | 0.06 | 0.89 | | 0.083 | 0.032 | 0.026 |
| Selenium | mg/kg | --- | 0.48 | 1.3 | | 0.68 | 1.1 | 0.97 |
| Silver | mg/kg | --- | 0.55 | 4.4 | | 0.24 | 0.32 | 0.23 |
| Antimony | mg/kg | --- | 4.0 | 5 | | <0.22 | <0.23 | <0.22 |
| Beryllium | mg/kg | --- | 0.59 | 22 | | 0.65 | 0.79 | 0.64 |
| Calcium | mg/kg | --- | 9,300 | --- | | 3900 | 2600 | 3600 |
| Cobalt | mg/kg | --- | 8.9 | 20 | | 9 | 12 | 7.1 |
| Copper | mg/kg | --- | 19.6 | 2900 | | 23 | 17 | 17 |
| Cyanide | mg/kg | --- | 0.51 | --- | | <0.19 | <0.20 | <0.18 |
| Iron | mg/kg | --- | 15,900 | 15000 | | 16000 | 20000 | 18000 |
| Magnesium | mg/kg | --- | 4,820 | 325000 | | 4400 | 4400 | 4200 |
| Manganese | mg/kg | --- | 636 | 630 | | 300 | 410 | 190 |
| Nickel | mg/kg | --- | 18 | 100 | | 25 | 27 | 21 |
| Potassium | mg/kg | --- | 1,268 | --- | | 1700 | 2000 | 910 |
| Sodium | mg/kg | --- | 130 | --- | | 390 | 550 | 410 |
| Thallium | mg/kg | --- | 0.32 | 2.6 | | <0.28 | <0.29 | <0.28 |
| Vanadium | mg/kg | --- | 25.2 | 550 | | 25 | 31 | 21 |
| Zinc | mg/kg | --- | 95 | 5100 | | 64 | 60 | 54 |
| pH | | | 6.25 | 9 | | 7.6 | 8 | 8.3 |

Preliminary Site Investigation

FAU 1312 -Golf Rd at Harms Rd (PESA #2409V-1)

Morton Grove, Cook County, IL

Terracon Project No. 11187007J

| Analyte | Units | Background | | Maximum Allowed Concentration | Sample Identification | 2409V-1-B01 (0-3) | 2409V-1-B04 (0-3) | 2409V-1-B07 (0-5) |
|-----------------------------------------------|-------|------------|------|-------------------------------|-----------------------|-------------------|-------------------|-------------------|
| | | | | CCDD | Sample Depth (feet) | (0-3) | (0-3) | (0-5) |
| | | Chicago | MSAs | mg/kg pH 6.25-9.0 | Date Collected | 06/05/2018 | 06/05/2018 | 06/04/2018 |
| Inorganic Analytical Parameters (SPLP) | | | | | | | | |
| Antimony,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Arsenic,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Barium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Beryllium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Cadmium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Calcium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Chromium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Cobalt,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Copper,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Iron,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Lead,SPLP | mg/L | --- | --- | --- | | 0.32 | -- | -- |
| Magnesium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Manganese,SPLP | mg/L | --- | --- | --- | | 0.78 | -- | 0.25 |
| Mercury,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Nickel,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Potassium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Selenium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Silver,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Sodium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Thallium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Vanadium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Zinc,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Cyanide,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Inorganic Analytical Parameters (TCLP) | | | | | | | | |
| Arsenic,TCLP | mg/L | --- | --- | --- | | <0.010 | <0.010 | <0.010 |
| Barium,TCLP | mg/L | --- | --- | --- | | 0.27 | 0.14 | 0.21 |
| Cadmium,TCLP | mg/L | --- | --- | --- | | 0.0046 | 0.002 | 0.002 |
| Chromium,TCLP | mg/L | --- | --- | --- | | <0.010 | <0.010 | <0.010 |
| Lead,TCLP | mg/L | --- | --- | --- | | 0.016 | <0.0075 | <0.0075 |
| Mercury,TCLP | mg/L | --- | --- | --- | | <0.00020 | <0.00020 | <0.00020 |
| Selenium,TCLP | mg/L | --- | --- | --- | | <0.020 | <0.020 | <0.020 |
| Silver,TCLP | mg/L | --- | --- | --- | | <0.010 | <0.010 | <0.010 |
| Antimony,TCLP | mg/L | --- | --- | --- | | <0.0060 | <0.0060 | <0.0060 |
| Beryllium,TCLP | mg/L | --- | --- | --- | | <0.0040 | <0.0040 | <0.0040 |
| Calcium,TCLP | mg/L | --- | --- | --- | | 110 | 49 | 100 |
| Cobalt,TCLP | mg/L | --- | --- | --- | | <0.010 | <0.010 | <0.010 |
| Copper,TCLP | mg/L | --- | --- | --- | | 0.014 | <0.010 | <0.010 |
| Cyanide,TCLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Iron,TCLP | mg/L | --- | --- | --- | | 0.38 | 0.59 | 0.23 |
| Magnesium,TCLP | mg/L | --- | --- | --- | | 46 | 14 | 43 |
| Manganese,TCLP | mg/L | --- | --- | --- | | 0.3 | 0.014 | 0.21 |
| Nickel,TCLP | mg/L | --- | --- | --- | | 0.015 | <0.010 | 0.02 |
| Potassium,TCLP | mg/L | --- | --- | --- | | 1.3 | 0.67 | 0.71 |
| Sodium,TCLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Thallium,TCLP | mg/L | --- | --- | --- | | <0.0020 | <0.0020 | <0.0020 |
| Vanadium,TCLP | mg/L | --- | --- | --- | | <0.010 | <0.010 | <0.010 |
| Zinc,TCLP | mg/L | --- | --- | --- | | 0.073 | <0.020 | <0.020 |

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:049A

Preliminary Site Investigation

FAU 1312 -Golf Rd at Harms Rd (PESA #2409V-1)

Morton Grove, Cook County, IL

Terracon Project No. 11187007J

Page 3 of 8

| Analyte | Units | Background | | Maximum Allowed Concentration | Sample Identification | 2409V-1-B07 (5-10) | 2409V-1-B07 (10-13) | 2409V-1-B08 (0-5) |
|---------------------------------------------------|-------|------------|--------|-------------------------------|-----------------------|--------------------|---------------------|-------------------|
| | | | | CCDD | Sample Depth (feet) | (5-10) | (10-13) | (0-5) |
| | | | | mg/kg pH 6.25-9.0 | Date Collected | 06/04/2018 | 06/04/2018 | 06/04/2018 |
| | | Chicago | MSAs | | | | | |
| Volatile Organic Analytical Parameters | | | | | | | | |
| Acetone | mg/kg | --- | --- | 25 | | 0.011 | 0.021 | <0.0073 |
| Semivolatile Organic Analytical Parameters | | | | | | | | |
| Acenaphthene | mg/kg | 0.09 | 0.13 | 570 | | <0.0067 | <0.0066 | <0.0070 |
| Acenaphthylene | mg/kg | 0.03 | 0.07 | 85 | | <0.0049 | <0.0048 | <0.0051 |
| Anthracene | mg/kg | 0.25 | 0.4 | 12000 | | <0.0062 | <0.0061 | <0.0065 |
| Benzo(a)anthracene | mg/kg | 1.1 | 1.8 | 0.9 | | <0.0050 | <0.0049 | 0.018 |
| Benzo(a)pyrene | mg/kg | 1.3 | 2.1 | 0.09 | | <0.0072 | <0.0071 | 0.018 |
| Benzo(b)fluoranthene | mg/kg | 1.5 | 2.1 | 0.9 | | <0.0080 | <0.0079 | <0.0084 |
| Benzo(g,h,i)perylene | mg/kg | 0.68 | 1.7 | 2300 | | <0.012 | <0.012 | 0.013 |
| Benzo(k)fluoranthene | mg/kg | 0.99 | 1.7 | 9 | | <0.011 | <0.011 | <0.012 |
| Chrysene | mg/kg | 1.2 | 2.7 | 88 | | <0.010 | <0.010 | 0.019 |
| Dibenzo(a,h)anthracene | mg/kg | 0.2 | 0.42 | 0.09 | | <0.0072 | <0.0071 | <0.0075 |
| Fluoranthene | mg/kg | 2.7 | 4.1 | 3100 | | <0.0069 | <0.0068 | 0.027 |
| Fluorene | mg/kg | 0.1 | 0.18 | 560 | | <0.0052 | <0.0052 | <0.0055 |
| Indeno(1,2,3-c,d)pyrene | mg/kg | 0.86 | 1.6 | 0.9 | | <0.0096 | <0.0095 | 0.011 |
| Phenanthrene | mg/kg | 1.3 | 2.5 | 210 | | 0.019 | 0.037 | 0.012 |
| Pyrene | mg/kg | 1.9 | 3.0 | 2300 | | <0.0074 | 0.01 | 0.029 |
| Carbazole | mg/kg | --- | --- | 0.6 | | <0.093 | <0.092 | <0.098 |
| Inorganic Analytical Parameters | | | | | | | | |
| Arsenic | mg/kg | --- | 13 | 11.3 | | 5.7 | 6.1 | 6.6 |
| Barium | mg/kg | --- | 110 | 1500 | | 32 | 26 | 52 |
| Cadmium | mg/kg | --- | 0.6 | 5.2 | | 0.19 | 0.19 | 0.22 |
| Chromium, total | mg/kg | --- | 16.2 | 21 | | 13 | 11 | 14 |
| Lead | mg/kg | --- | 36 | 107 | | 11 | 10 | 28 |
| Mercury | mg/kg | --- | 0.06 | 0.89 | | 0.016 | 0.018 | 0.036 |
| Selenium | mg/kg | --- | 0.48 | 1.3 | | 0.91 | 1.1 | 1.1 |
| Silver | mg/kg | --- | 0.55 | 4.4 | | 0.18 | 0.18 | 0.25 |
| Antimony | mg/kg | --- | 4.0 | 5 | | <0.21 | <0.21 | <0.22 |
| Beryllium | mg/kg | --- | 0.59 | 22 | | 0.61 | 0.57 | 0.63 |
| Calcium | mg/kg | --- | 9,300 | --- | | 82000 | 110000 | 3700 |
| Cobalt | mg/kg | --- | 8.9 | 20 | | 10 | 9.7 | 7.4 |
| Copper | mg/kg | --- | 19.6 | 2900 | | 24 | 24 | 16 |
| Cyanide | mg/kg | --- | 0.51 | --- | | <0.16 | <0.18 | <0.18 |
| Iron | mg/kg | --- | 15,900 | 15000 | | 16000 | 15000 | 15000 |
| Magnesium | mg/kg | --- | 4,820 | 325000 | | 28000 | 41000 | 3400 |
| Manganese | mg/kg | --- | 636 | 630 | | 380 | 430 | 220 |
| Nickel | mg/kg | --- | 18 | 100 | | 27 | 24 | 20 |
| Potassium | mg/kg | --- | 1,268 | --- | | 2200 | 1900 | 1000 |
| Sodium | mg/kg | --- | 130 | --- | | 140 | 210 | 100 |
| Thallium | mg/kg | --- | 0.32 | 2.6 | | <0.26 | <0.26 | <0.28 |
| Vanadium | mg/kg | --- | 25.2 | 550 | | 15 | 13 | 20 |
| Zinc | mg/kg | --- | 95 | 5100 | | 46 | 41 | 57 |
| pH | | | 6.25 | 9 | | 7.8 | 8 | 7.8 |

Preliminary Site Investigation

FAU 1312 -Golf Rd at Harms Rd (PESA #2409V-1)

Morton Grove, Cook County, IL

Terracon Project No. 11187007J

| Analyte | Units | Background | | Maximum Allowed Concentration | Sample Identification | 2409V-1-B07 (5-10) | 2409V-1-B07 (10-13) | 2409V-1-B08 (0-5) |
|-----------------------------------------------|-------|------------|-----|-------------------------------|-----------------------|--------------------|---------------------|-------------------|
| | | | | CCDD | Sample Depth (feet) | (5-10) | (10-13) | (0-5) |
| | | | | mg/kg pH 6.25-9.0 | Date Collected | 06/04/2018 | 06/04/2018 | 06/04/2018 |
| Chicago | MSAs | | | | | | | |
| Inorganic Analytical Parameters (SPLP) | | | | | | | | |
| Antimony,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Arsenic,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Barium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Beryllium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Cadmium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Calcium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Chromium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Cobalt,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Copper,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Iron,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Lead,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Magnesium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Manganese,SPLP | mg/L | --- | --- | --- | | 0.049 | 0.043 | -- |
| Mercury,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Nickel,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Potassium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Selenium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Silver,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Sodium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Thallium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Vanadium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Zinc,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Cyanide,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Inorganic Analytical Parameters (TCLP) | | | | | | | | |
| Arsenic,TCLP | mg/L | --- | --- | --- | | <0.010 | <0.010 | <0.010 |
| Barium,TCLP | mg/L | --- | --- | --- | | 0.58 | 0.54 | 0.18 |
| Cadmium,TCLP | mg/L | --- | --- | --- | | <0.0020 | 0.0021 | <0.0020 |
| Chromium,TCLP | mg/L | --- | --- | --- | | <0.010 | <0.010 | <0.010 |
| Lead,TCLP | mg/L | --- | --- | --- | | <0.0075 | <0.0075 | <0.0075 |
| Mercury,TCLP | mg/L | --- | --- | --- | | <0.00020 | <0.00020 | <0.00020 |
| Selenium,TCLP | mg/L | --- | --- | --- | | <0.020 | <0.020 | <0.020 |
| Silver,TCLP | mg/L | --- | --- | --- | | <0.010 | <0.010 | <0.010 |
| Antimony,TCLP | mg/L | --- | --- | --- | | <0.0060 | <0.0060 | <0.0060 |
| Beryllium,TCLP | mg/L | --- | --- | --- | | <0.0040 | <0.0040 | <0.0040 |
| Calcium,TCLP | mg/L | --- | --- | --- | | 570 | 540 | 74 |
| Cobalt,TCLP | mg/L | --- | --- | --- | | 0.026 | 0.03 | <0.010 |
| Copper,TCLP | mg/L | --- | --- | --- | | 0.014 | 0.015 | <0.010 |
| Cyanide,TCLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Iron,TCLP | mg/L | --- | --- | --- | | <0.20 | <0.20 | 0.52 |
| Magnesium,TCLP | mg/L | --- | --- | --- | | 45 | 55 | 22 |
| Manganese,TCLP | mg/L | --- | --- | --- | | 2.6 | 2.3 | 0.061 |
| Nickel,TCLP | mg/L | --- | --- | --- | | 0.054 | 0.073 | 0.018 |
| Potassium,TCLP | mg/L | --- | --- | --- | | 4.8 | 4.8 | 1.3 |
| Sodium,TCLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Thallium,TCLP | mg/L | --- | --- | --- | | <0.0020 | <0.0020 | <0.0020 |
| Vanadium,TCLP | mg/L | --- | --- | --- | | <0.010 | <0.010 | <0.010 |
| Zinc,TCLP | mg/L | --- | --- | --- | | <0.020 | <0.020 | <0.020 |

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:049A

Preliminary Site Investigation

FAU 1312 -Golf Rd at Harms Rd (PESA #2409V-1)

Morton Grove, Cook County, IL

Terracon Project No. 11187007J

Page 5 of 8

| Analyte | Units | Background | | Maximum Allowed Concentration | Sample Identification | 2409V-1-B08 (0-5) Dup | 2409V-1-B08 (5-8) | 2409V-1-B09 (0-5) |
|---------------------------------------------------|-------|------------|--------|-------------------------------|-----------------------|-----------------------|-------------------|-------------------|
| | | | | CCDD | Sample Depth (feet) | (0-5) | (5-8) | (0-5) |
| | | Chicago | MSAs | mg/kg pH 6.25-9.0 | Date Collected | 06/04/2018 | 06/04/2018 | 06/04/2018 |
| Volatile Organic Analytical Parameters | | | | | | | | |
| Acetone | mg/kg | --- | --- | 25 | | <0.0074 | 0.013 | <0.0071 |
| Semivolatile Organic Analytical Parameters | | | | | | | | |
| Acenaphthene | mg/kg | 0.09 | 0.13 | 570 | | <0.0072 | <0.0064 | 0.016 |
| Acenaphthylene | mg/kg | 0.03 | 0.07 | 85 | | <0.0053 | <0.0047 | 0.012 |
| Anthracene | mg/kg | 0.25 | 0.4 | 12000 | | <0.0067 | <0.0060 | 0.061 |
| Benzo(a)anthracene | mg/kg | 1.1 | 1.8 | 0.9 | | 0.028 | <0.0048 | 0.27 |
| Benzo(a)pyrene | mg/kg | 1.3 | 2.1 | 0.09 | | 0.035 | <0.0069 | 0.29 |
| Benzo(b)fluoranthene | mg/kg | 1.5 | 2.1 | 0.9 | | 0.041 | <0.0077 | 0.41 |
| Benzo(g,h,i)perylene | mg/kg | 0.68 | 1.7 | 2300 | | 0.018 | <0.012 | 0.11 |
| Benzo(k)fluoranthene | mg/kg | 0.99 | 1.7 | 9 | | 0.012 | <0.011 | 0.13 |
| Chrysene | mg/kg | 1.2 | 2.7 | 88 | | 0.033 | 0.018 | 0.3 |
| Dibenzo(a,h)anthracene | mg/kg | 0.2 | 0.42 | 0.09 | | <0.0078 | <0.0069 | 0.035 |
| Fluoranthene | mg/kg | 2.7 | 4.1 | 3100 | | 0.048 | <0.0066 | 0.55 |
| Fluorene | mg/kg | 0.1 | 0.18 | 560 | | <0.0056 | <0.0050 | 0.015 |
| Indeno(1,2,3-c,d)pyrene | mg/kg | 0.86 | 1.6 | 0.9 | | 0.017 | <0.0093 | 0.1 |
| Phenanthrene | mg/kg | 1.3 | 2.5 | 210 | | 0.021 | 0.03 | 0.25 |
| Pyrene | mg/kg | 1.9 | 3.0 | 2300 | | 0.049 | <0.0071 | 0.45 |
| Carbazole | mg/kg | --- | --- | 0.6 | | 0.12 | <0.090 | 0.14 |
| Inorganic Analytical Parameters | | | | | | | | |
| Arsenic | mg/kg | --- | 13 | 11.3 | | 6.9 | 6.8 | 2.8 |
| Barium | mg/kg | --- | 110 | 1500 | | 74 | 31 | 33 |
| Cadmium | mg/kg | --- | 0.6 | 5.2 | | 0.28 | 0.19 | 0.34 |
| Chromium, total | mg/kg | --- | 16.2 | 21 | | 16 | 12 | 10 |
| Lead | mg/kg | --- | 36 | 107 | | 25 | 21 | 98 |
| Mercury | mg/kg | --- | 0.06 | 0.89 | | 0.041 | 0.018 | 0.021 |
| Selenium | mg/kg | --- | 0.48 | 1.3 | | 1.3 | 0.71 | 0.43 |
| Silver | mg/kg | --- | 0.55 | 4.4 | | 0.29 | 0.18 | 0.12 |
| Antimony | mg/kg | --- | 4.0 | 5 | | <0.22 | <0.22 | 0.32 |
| Beryllium | mg/kg | --- | 0.59 | 22 | | 0.72 | 0.58 | 0.42 |
| Calcium | mg/kg | --- | 9,300 | --- | | 3800 | 80000 | 110000 |
| Cobalt | mg/kg | --- | 8.9 | 20 | | 12 | 11 | 3.7 |
| Copper | mg/kg | --- | 19.6 | 2900 | | 18 | 23 | 15 |
| Cyanide | mg/kg | --- | 0.51 | --- | | <0.18 | <0.16 | <0.19 |
| Iron | mg/kg | --- | 15,900 | 15000 | | 18000 | 16000 | 8500 |
| Magnesium | mg/kg | --- | 4,820 | 325000 | | 4100 | 29000 | 45000 |
| Manganese | mg/kg | --- | 636 | 630 | | 530 | 390 | 230 |
| Nickel | mg/kg | --- | 18 | 100 | | 29 | 27 | 9.5 |
| Potassium | mg/kg | --- | 1,268 | --- | | 1200 | 2000 | 790 |
| Sodium | mg/kg | --- | 130 | --- | | 110 | 150 | 690 |
| Thallium | mg/kg | --- | 0.32 | 2.6 | | <0.28 | <0.28 | <0.26 |
| Vanadium | mg/kg | --- | 25.2 | 550 | | 23 | 14 | 14 |
| Zinc | mg/kg | --- | 95 | 5100 | | 66 | 40 | 57 |
| pH | | | 6.25 | 9 | | 7.5 | 7.9 | 8.9 |

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:049A

Preliminary Site Investigation

FAU 1312 -Golf Rd at Harms Rd (PESA #2409V-1)

Morton Grove, Cook County, IL

Terracon Project No. 11187007J

Page 6 of 8

| Analyte | Units | Background | | Maximum Allowed Concentration | Sample Identification | 2409V-1-B08 (0-5) Dup | 2409V-1-B08 (5-8) | 2409V-1-B09 (0-5) |
|-----------------------------------------------|-------|------------|------|-------------------------------|-----------------------|-----------------------|-------------------|-------------------|
| | | | | CCDD | Sample Depth (feet) | (0-5) | (5-8) | (0-5) |
| | | | | mg/kg pH 6.25-9.0 | Date Collected | 06/04/2018 | 06/04/2018 | 06/04/2018 |
| | | Chicago | MSAs | | | | | |
| Inorganic Analytical Parameters (SPLP) | | | | | | | | |
| Antimony,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Arsenic,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Barium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Beryllium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Cadmium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Calcium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Chromium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Cobalt,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Copper,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Iron,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Lead,SPLP | mg/L | --- | --- | --- | | -- | -- | 0.23 |
| Magnesium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Manganese,SPLP | mg/L | --- | --- | --- | | -- | 0.066 | 0.39 |
| Mercury,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Nickel,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Potassium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Selenium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Silver,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Sodium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Thallium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Vanadium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Zinc,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Cyanide,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Inorganic Analytical Parameters (TCLP) | | | | | | | | |
| Arsenic,TCLP | mg/L | --- | --- | --- | | <0.010 | <0.010 | <0.010 |
| Barium,TCLP | mg/L | --- | --- | --- | | 0.19 | 0.56 | 0.37 |
| Cadmium,TCLP | mg/L | --- | --- | --- | | 0.002 | 0.0022 | 0.0047 |
| Chromium,TCLP | mg/L | --- | --- | --- | | <0.010 | <0.010 | <0.010 |
| Lead,TCLP | mg/L | --- | --- | --- | | <0.0075 | <0.0075 | 0.011 |
| Mercury,TCLP | mg/L | --- | --- | --- | | <0.00020 | <0.00020 | <0.00020 |
| Selenium,TCLP | mg/L | --- | --- | --- | | <0.020 | <0.020 | <0.020 |
| Silver,TCLP | mg/L | --- | --- | --- | | <0.010 | <0.010 | <0.010 |
| Antimony,TCLP | mg/L | --- | --- | --- | | <0.0060 | <0.0060 | <0.0060 |
| Beryllium,TCLP | mg/L | --- | --- | --- | | <0.0040 | <0.0040 | <0.0040 |
| Calcium,TCLP | mg/L | --- | --- | --- | | 78 | 540 | 410 |
| Cobalt,TCLP | mg/L | --- | --- | --- | | <0.010 | 0.034 | <0.010 |
| Copper,TCLP | mg/L | --- | --- | --- | | <0.010 | 0.014 | <0.010 |
| Cyanide,TCLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Iron,TCLP | mg/L | --- | --- | --- | | 0.63 | <0.20 | <0.20 |
| Magnesium,TCLP | mg/L | --- | --- | --- | | 24 | 42 | 120 |
| Manganese,TCLP | mg/L | --- | --- | --- | | 0.067 | 3.3 | 0.9 |
| Nickel,TCLP | mg/L | --- | --- | --- | | 0.033 | 0.062 | 0.039 |
| Potassium,TCLP | mg/L | --- | --- | --- | | 1.4 | 4.6 | 2.4 |
| Sodium,TCLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Thallium,TCLP | mg/L | --- | --- | --- | | <0.0020 | <0.0020 | <0.0020 |
| Vanadium,TCLP | mg/L | --- | --- | --- | | <0.010 | <0.010 | <0.010 |
| Zinc,TCLP | mg/L | --- | --- | --- | | <0.020 | <0.020 | 0.072 |

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:049A

Preliminary Site Investigation

FAU 1312 -Golf Rd at Harms Rd (PESA #2409V-1)

Morton Grove, Cook County, IL

Terracon Project No. 11187007J

| Analyte | Units | Background | | Maximum Allowed Concentration | Sample Identification | 2409V-1-B09 (5-8) |
|---------------------------------------------------|-------|------------|--------|-------------------------------|-----------------------|-------------------|
| | | | | CCDD | Sample Depth (feet) | (5-8) |
| | | Chicago | MSAs | mg/kg pH 6.25-9.0 | Date Collected | 06/04/2018 |
| Volatile Organic Analytical Parameters | | | | | | |
| Acetone | mg/kg | --- | --- | 25 | | 0.022 |
| Semivolatile Organic Analytical Parameters | | | | | | |
| Acenaphthene | mg/kg | 0.09 | 0.13 | 570 | | <0.0066 |
| Acenaphthylene | mg/kg | 0.03 | 0.07 | 85 | | <0.0048 |
| Anthracene | mg/kg | 0.25 | 0.4 | 12000 | | <0.0061 |
| Benzo(a)anthracene | mg/kg | 1.1 | 1.8 | 0.9 | | <0.0049 |
| Benzo(a)pyrene | mg/kg | 1.3 | 2.1 | 0.09 | | <0.0071 |
| Benzo(b)fluoranthene | mg/kg | 1.5 | 2.1 | 0.9 | | <0.0079 |
| Benzo(g,h,i)perylene | mg/kg | 0.68 | 1.7 | 2300 | | <0.012 |
| Benzo(k)fluoranthene | mg/kg | 0.99 | 1.7 | 9 | | <0.011 |
| Chrysene | mg/kg | 1.2 | 2.7 | 88 | | 0.01 |
| Dibenzo(a,h)anthracene | mg/kg | 0.2 | 0.42 | 0.09 | | <0.0071 |
| Fluoranthene | mg/kg | 2.7 | 4.1 | 3100 | | <0.0068 |
| Fluorene | mg/kg | 0.1 | 0.18 | 560 | | <0.0051 |
| Indeno(1,2,3-c,d)pyrene | mg/kg | 0.86 | 1.6 | 0.9 | | <0.0095 |
| Phenanthrene | mg/kg | 1.3 | 2.5 | 210 | | <0.0051 |
| Pyrene | mg/kg | 1.9 | 3.0 | 2300 | | 0.013 |
| Carbazole | mg/kg | --- | --- | 0.6 | | <0.091 |
| Inorganic Analytical Parameters | | | | | | |
| Arsenic | mg/kg | --- | 13 | 11.3 | | 5.1 |
| Barium | mg/kg | --- | 110 | 1500 | | 27 |
| Cadmium | mg/kg | --- | 0.6 | 5.2 | | 0.23 |
| Chromium, total | mg/kg | --- | 16.2 | 21 | | 14 |
| Lead | mg/kg | --- | 36 | 107 | | 14 |
| Mercury | mg/kg | --- | 0.06 | 0.89 | | 0.017 |
| Selenium | mg/kg | --- | 0.48 | 1.3 | | 0.88 |
| Silver | mg/kg | --- | 0.55 | 4.4 | | 0.19 |
| Antimony | mg/kg | --- | 4.0 | 5 | | <0.22 |
| Beryllium | mg/kg | --- | 0.59 | 22 | | 0.66 |
| Calcium | mg/kg | --- | 9,300 | --- | | 80000 |
| Cobalt | mg/kg | --- | 8.9 | 20 | | 9.5 |
| Copper | mg/kg | --- | 19.6 | 2900 | | 25 |
| Cyanide | mg/kg | --- | 0.51 | --- | | <0.18 |
| Iron | mg/kg | --- | 15,900 | 15000 | | 17000 |
| Magnesium | mg/kg | --- | 4,820 | 325000 | | 31000 |
| Manganese | mg/kg | --- | 636 | 630 | | 350 |
| Nickel | mg/kg | --- | 18 | 100 | | 30 |
| Potassium | mg/kg | --- | 1,268 | --- | | 2200 |
| Sodium | mg/kg | --- | 130 | --- | | 270 |
| Thallium | mg/kg | --- | 0.32 | 2.6 | | 0.38 |
| Vanadium | mg/kg | --- | 25.2 | 550 | | 16 |
| Zinc | mg/kg | --- | 95 | 5100 | | 56 |
| pH | | | 6.25 | 9 | | 8.4 |

Preliminary Site Investigation

FAU 1312 -Golf Rd at Harms Rd (PESA #2409V-1)

Morton Grove, Cook County, IL

Terracon Project No. 11187007J

| Analyte | Units | Background | | Maximum Allowed Concentration | Sample Identification | 2409V-1-B09 (5-8) |
|-----------------------------------------------|-------|------------|-----|-------------------------------|-----------------------|-------------------|
| | | | | CCDD | Sample Depth (feet) | (5-8) |
| | | | | mg/kg pH 6.25-9.0 | Date Collected | 06/04/2018 |
| Chicago | MSAs | | | | | |
| Inorganic Analytical Parameters (SPLP) | | | | | | |
| Antimony,SPLP | mg/L | --- | --- | --- | | -- |
| Arsenic,SPLP | mg/L | --- | --- | --- | | -- |
| Barium,SPLP | mg/L | --- | --- | --- | | -- |
| Beryllium,SPLP | mg/L | --- | --- | --- | | -- |
| Cadmium,SPLP | mg/L | --- | --- | --- | | -- |
| Calcium,SPLP | mg/L | --- | --- | --- | | -- |
| Chromium,SPLP | mg/L | --- | --- | --- | | -- |
| Cobalt,SPLP | mg/L | --- | --- | --- | | -- |
| Copper,SPLP | mg/L | --- | --- | --- | | -- |
| Iron,SPLP | mg/L | --- | --- | --- | | -- |
| Lead,SPLP | mg/L | --- | --- | --- | | -- |
| Magnesium,SPLP | mg/L | --- | --- | --- | | -- |
| Manganese,SPLP | mg/L | --- | --- | --- | | 0.2 |
| Mercury,SPLP | mg/L | --- | --- | --- | | -- |
| Nickel,SPLP | mg/L | --- | --- | --- | | -- |
| Potassium,SPLP | mg/L | --- | --- | --- | | -- |
| Selenium,SPLP | mg/L | --- | --- | --- | | -- |
| Silver,SPLP | mg/L | --- | --- | --- | | -- |
| Sodium,SPLP | mg/L | --- | --- | --- | | -- |
| Thallium,SPLP | mg/L | --- | --- | --- | | -- |
| Vanadium,SPLP | mg/L | --- | --- | --- | | -- |
| Zinc,SPLP | mg/L | --- | --- | --- | | -- |
| Cyanide,SPLP | mg/L | --- | --- | --- | | -- |
| Inorganic Analytical Parameters (TCLP) | | | | | | |
| Arsenic,TCLP | mg/L | --- | --- | --- | | <0.010 |
| Barium,TCLP | mg/L | --- | --- | --- | | 0.42 |
| Cadmium,TCLP | mg/L | --- | --- | --- | | 0.0044 |
| Chromium,TCLP | mg/L | --- | --- | --- | | <0.010 |
| Lead,TCLP | mg/L | --- | --- | --- | | <0.0075 |
| Mercury,TCLP | mg/L | --- | --- | --- | | <0.00020 |
| Selenium,TCLP | mg/L | --- | --- | --- | | <0.020 |
| Silver,TCLP | mg/L | --- | --- | --- | | <0.010 |
| Antimony,TCLP | mg/L | --- | --- | --- | | <0.0060 |
| Beryllium,TCLP | mg/L | --- | --- | --- | | <0.0040 |
| Calcium,TCLP | mg/L | --- | --- | --- | | 490 |
| Cobalt,TCLP | mg/L | --- | --- | --- | | 0.016 |
| Copper,TCLP | mg/L | --- | --- | --- | | <0.010 |
| Cyanide,TCLP | mg/L | --- | --- | --- | | -- |
| Iron,TCLP | mg/L | --- | --- | --- | | <0.20 |
| Magnesium,TCLP | mg/L | --- | --- | --- | | 120 |
| Manganese,TCLP | mg/L | --- | --- | --- | | 2.6 |
| Nickel,TCLP | mg/L | --- | --- | --- | | 0.023 |
| Potassium,TCLP | mg/L | --- | --- | --- | | 2.7 |
| Sodium,TCLP | mg/L | --- | --- | --- | | -- |
| Thallium,TCLP | mg/L | --- | --- | --- | | <0.0020 |
| Vanadium,TCLP | mg/L | --- | --- | --- | | <0.010 |
| Zinc,TCLP | mg/L | --- | --- | --- | | <0.020 |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

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University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-146450-1

Client Project/Site: IDOT - Morton Grove - WO 049

For:

Terracon Consulting Eng & Scientists

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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: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Job ID: 500-146450-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-146450-1

Receipt

The samples were received on 6/5/2018 6:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 2.3° C, 5.1° C, 5.4° C and 5.6° C.

GC/MS VOA

Method(s) 8260B: The following analyte recovered outside control limits for the LCS/LCSD associated with 437354: Bromomethane. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method(s) 8260B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch 437354 recovered outside control limits for the following analytes: Chloroethane.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: The laboratory control sample (LCS) for preparation batch 500-436422 and analytical batch 500-436747 recovered outside control limits for 3,3'-Dichlorobenzidine. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data has been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B05 (0-3)

Lab Sample ID: 500-146450-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil | Fac | D | Method | Prep Type |
|----------------------|--------|-----------|--------|--------|-------|-----|-----|-------|-----------|-----------|
| Benzo[a]anthracene | 0.016 | J | 0.039 | 0.0053 | mg/Kg | 1 | ☼ | 8270D | Total/NA | |
| Benzo[a]pyrene | 0.018 | J | 0.039 | 0.0076 | mg/Kg | 1 | ☼ | 8270D | Total/NA | |
| Benzo[b]fluoranthene | 0.020 | J | 0.039 | 0.0084 | mg/Kg | 1 | ☼ | 8270D | Total/NA | |
| Benzo[g,h,i]perylene | 0.014 | J | 0.039 | 0.013 | mg/Kg | 1 | ☼ | 8270D | Total/NA | |
| Carbazole | 0.12 | J | 0.20 | 0.098 | mg/Kg | 1 | ☼ | 8270D | Total/NA | |
| Chrysene | 0.016 | J | 0.039 | 0.011 | mg/Kg | 1 | ☼ | 8270D | Total/NA | |
| Fluoranthene | 0.024 | J | 0.039 | 0.0073 | mg/Kg | 1 | ☼ | 8270D | Total/NA | |
| Phenanthrene | 0.0096 | J | 0.039 | 0.0055 | mg/Kg | 1 | ☼ | 8270D | Total/NA | |
| Pyrene | 0.023 | J | 0.039 | 0.0078 | mg/Kg | 1 | ☼ | 8270D | Total/NA | |
| Antimony | 0.27 | J | 1.1 | 0.21 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Arsenic | 4.6 | | 0.55 | 0.19 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Barium | 49 | | 0.55 | 0.063 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Beryllium | 0.48 | | 0.22 | 0.052 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Cadmium | 0.37 | B | 0.11 | 0.020 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Chromium | 14 | | 0.55 | 0.27 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Cobalt | 6.3 | | 0.28 | 0.072 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Copper | 44 | | 0.55 | 0.15 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Iron | 12000 | B | 11 | 5.7 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Lead | 230 | | 0.28 | 0.13 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Magnesium | 21000 | B | 5.5 | 2.7 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Calcium | 50000 | B | 110 | 19 | mg/Kg | 10 | ☼ | 6010B | Total/NA | |
| Manganese | 340 | | 0.55 | 0.080 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Nickel | 17 | | 0.55 | 0.16 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Selenium | 0.73 | | 0.55 | 0.32 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Silver | 0.18 | J | 0.28 | 0.071 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Vanadium | 20 | | 0.28 | 0.065 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Zinc | 72 | | 1.1 | 0.49 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Potassium | 1200 | | 28 | 9.8 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Sodium | 600 | | 55 | 8.2 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Barium | 0.30 | J | 0.50 | 0.050 | mg/L | 1 | | 6010B | TCLP | |
| Cadmium | 0.0035 | J | 0.0050 | 0.0020 | mg/L | 1 | | 6010B | TCLP | |
| Calcium | 320 | | 5.0 | 0.50 | mg/L | 1 | | 6010B | TCLP | |
| Copper | 0.013 | J | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP | |
| Lead | 0.036 | | 0.0075 | 0.0075 | mg/L | 1 | | 6010B | TCLP | |
| Magnesium | 97 | | 2.5 | 0.50 | mg/L | 1 | | 6010B | TCLP | |
| Manganese | 0.74 | | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP | |
| Nickel | 0.018 | J | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP | |
| Potassium | 0.58 | J | 2.5 | 0.50 | mg/L | 1 | | 6010B | TCLP | |
| Zinc | 0.15 | J | 0.50 | 0.020 | mg/L | 1 | | 6010B | TCLP | |
| Lead | 0.33 | | 0.0075 | 0.0075 | mg/L | 1 | | 6010B | SPLP East | |
| Manganese | 0.64 | | 0.025 | 0.010 | mg/L | 1 | | 6010B | SPLP East | |
| Mercury | 0.025 | B | 0.018 | 0.0059 | mg/Kg | 1 | ☼ | 7471B | Total/NA | |
| pH | 8.2 | | 0.20 | 0.20 | SU | 1 | | 9045D | Total/NA | |

Client Sample ID: 2409V-1-B04 (0-3)

Lab Sample ID: 500-146450-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil | Fac | D | Method | Prep Type |
|---------|--------|-----------|-------|--------|-------|-----|-----|-------|----------|-----------|
| Acetone | 0.0087 | J | 0.016 | 0.0072 | mg/Kg | 1 | ☼ | 8260B | Total/NA | |
| Arsenic | 5.1 | | 0.58 | 0.20 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Barium | 70 | | 0.58 | 0.066 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B04 (0-3) (Continued)

Lab Sample ID: 500-146450-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------|--------|-----------|--------|--------|-------|---------|---|--------|-----------|
| Beryllium | 0.79 | | 0.23 | 0.054 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Cadmium | 0.21 | B | 0.12 | 0.021 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Chromium | 20 | | 0.58 | 0.29 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Cobalt | 12 | | 0.29 | 0.076 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Copper | 17 | | 0.58 | 0.16 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Iron | 20000 | B | 12 | 6.1 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Lead | 16 | | 0.29 | 0.13 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Magnesium | 4400 | B | 5.8 | 2.9 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Calcium | 2600 | B | 12 | 2.0 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Manganese | 410 | | 0.58 | 0.084 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Nickel | 27 | | 0.58 | 0.17 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Selenium | 1.1 | | 0.58 | 0.34 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Silver | 0.32 | | 0.29 | 0.075 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Vanadium | 31 | | 0.29 | 0.069 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Zinc | 60 | | 1.2 | 0.51 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Potassium | 2000 | | 29 | 10 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Sodium | 550 | | 58 | 8.6 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Barium | 0.14 | J | 0.50 | 0.050 | mg/L | 1 | | 6010B | TCLP |
| Cadmium | 0.0020 | J | 0.0050 | 0.0020 | mg/L | 1 | | 6010B | TCLP |
| Calcium | 49 | | 5.0 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Iron | 0.59 | | 0.40 | 0.20 | mg/L | 1 | | 6010B | TCLP |
| Magnesium | 14 | | 2.5 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Manganese | 0.014 | J | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP |
| Potassium | 0.67 | J | 2.5 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Mercury | 0.032 | B | 0.018 | 0.0060 | mg/Kg | 1 | ☼ | 7471B | Total/NA |
| pH | 8.0 | | 0.20 | 0.20 | SU | 1 | | 9045D | Total/NA |

Client Sample ID: 2409V-1-B03 (0-3)

Lab Sample ID: 500-146450-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-------|--------|-------|---------|---|--------|-----------|
| Acetone | 0.014 | J | 0.017 | 0.0072 | mg/Kg | 1 | ☼ | 8260B | Total/NA |
| Anthracene | 0.014 | J | 0.037 | 0.0063 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[a]anthracene | 0.098 | | 0.037 | 0.0051 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[a]pyrene | 0.12 | | 0.037 | 0.0073 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[b]fluoranthene | 0.19 | | 0.037 | 0.0081 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[g,h,i]perylene | 0.082 | | 0.037 | 0.012 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[k]fluoranthene | 0.052 | | 0.037 | 0.011 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Carbazole | 0.12 | J | 0.19 | 0.094 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Chrysene | 0.13 | | 0.037 | 0.010 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Dibenz(a,h)anthracene | 0.021 | J | 0.037 | 0.0073 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Fluoranthene | 0.21 | | 0.037 | 0.0070 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Indeno[1,2,3-cd]pyrene | 0.076 | | 0.037 | 0.0098 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| 2-Methylnaphthalene | 0.0082 | J | 0.076 | 0.0069 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Phenanthrene | 0.071 | | 0.037 | 0.0053 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Pyrene | 0.18 | | 0.037 | 0.0075 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Antimony | 0.31 | J | 1.1 | 0.22 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Arsenic | 6.7 | | 0.57 | 0.19 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Barium | 62 | | 0.57 | 0.065 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Beryllium | 0.61 | | 0.23 | 0.053 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Cadmium | 0.51 | B | 0.11 | 0.020 | mg/Kg | 1 | ☼ | 6010B | Total/NA |

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B03 (0-3) (Continued)

Lab Sample ID: 500-146450-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------|--------|-----------|--------|--------|-------|---------|---|--------|-----------|
| Chromium | 19 | | 0.57 | 0.28 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Cobalt | 9.1 | | 0.28 | 0.075 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Copper | 31 | | 0.57 | 0.16 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Iron | 16000 | B | 11 | 5.9 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Lead | 200 | | 0.28 | 0.13 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Magnesium | 10000 | B | 5.7 | 2.8 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Calcium | 15000 | B | 11 | 1.9 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Manganese | 370 | | 0.57 | 0.083 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Nickel | 21 | | 0.57 | 0.17 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Selenium | 1.0 | | 0.57 | 0.33 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Silver | 0.28 | | 0.28 | 0.073 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Vanadium | 23 | | 0.28 | 0.067 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Zinc | 100 | | 1.1 | 0.50 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Potassium | 1600 | | 28 | 10 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Sodium | 460 | | 57 | 8.4 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Barium | 0.28 | J | 0.50 | 0.050 | mg/L | 1 | | 6010B | TCLP |
| Cadmium | 0.0040 | J | 0.0050 | 0.0020 | mg/L | 1 | | 6010B | TCLP |
| Calcium | 200 | | 5.0 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Copper | 0.012 | J | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP |
| Lead | 0.034 | | 0.0075 | 0.0075 | mg/L | 1 | | 6010B | TCLP |
| Magnesium | 90 | | 2.5 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Manganese | 0.91 | | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP |
| Nickel | 0.016 | J | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP |
| Potassium | 1.0 | J | 2.5 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Zinc | 0.086 | J | 0.50 | 0.020 | mg/L | 1 | | 6010B | TCLP |
| Lead | 0.18 | | 0.0075 | 0.0075 | mg/L | 1 | | 6010B | SPLP East |
| Manganese | 0.42 | | 0.025 | 0.010 | mg/L | 1 | | 6010B | SPLP East |
| Mercury | 0.086 | B | 0.018 | 0.0061 | mg/Kg | 1 | ☼ | 7471B | Total/NA |
| pH | 8.4 | | 0.20 | 0.20 | SU | 1 | | 9045D | Total/NA |

Client Sample ID: 2409V-1-B02 (0-3)

Lab Sample ID: 500-146450-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-------|--------|-------|---------|---|--------|-----------|
| Acetone | 0.0093 | J | 0.016 | 0.0071 | mg/Kg | 1 | ☼ | 8260B | Total/NA |
| Benzo[a]anthracene | 0.013 | J | 0.040 | 0.0054 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[a]pyrene | 0.017 | J | 0.040 | 0.0078 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[b]fluoranthene | 0.021 | J | 0.040 | 0.0087 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[g,h,i]perylene | 0.013 | J | 0.040 | 0.013 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Chrysene | 0.017 | J | 0.040 | 0.011 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Fluoranthene | 0.021 | J | 0.040 | 0.0075 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Indeno[1,2,3-cd]pyrene | 0.010 | J | 0.040 | 0.010 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Phenanthrene | 0.0078 | J | 0.040 | 0.0056 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Pyrene | 0.019 | J | 0.040 | 0.0080 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Antimony | 0.38 | J | 1.2 | 0.23 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Arsenic | 6.2 | | 0.60 | 0.21 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Barium | 81 | | 0.60 | 0.069 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Beryllium | 0.53 | | 0.24 | 0.056 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Cadmium | 0.36 | B | 0.12 | 0.022 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Chromium | 13 | | 0.60 | 0.30 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Cobalt | 16 | | 0.30 | 0.079 | mg/Kg | 1 | ☼ | 6010B | Total/NA |

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B02 (0-3) (Continued)

Lab Sample ID: 500-146450-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------|--------|-----------|--------|--------|-------|---------|---|--------|-----------|
| Copper | 22 | | 0.60 | 0.17 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Iron | 18000 | B | 12 | 6.3 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Lead | 30 | | 0.30 | 0.14 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Magnesium | 19000 | B | 6.0 | 3.0 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Calcium | 30000 | B | 12 | 2.0 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Manganese | 870 | | 0.60 | 0.087 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Nickel | 30 | | 0.60 | 0.18 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Selenium | 0.79 | | 0.60 | 0.35 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Silver | 0.27 | J | 0.30 | 0.078 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Vanadium | 26 | | 0.30 | 0.071 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Zinc | 46 | | 1.2 | 0.53 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Potassium | 1500 | | 30 | 11 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Sodium | 250 | | 60 | 8.9 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Barium | 0.28 | J | 0.50 | 0.050 | mg/L | 1 | | 6010B | TCLP |
| Cadmium | 0.0039 | J | 0.0050 | 0.0020 | mg/L | 1 | | 6010B | TCLP |
| Calcium | 270 | | 5.0 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Copper | 0.012 | J | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP |
| Lead | 0.015 | | 0.0075 | 0.0075 | mg/L | 1 | | 6010B | TCLP |
| Magnesium | 140 | | 2.5 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Manganese | 1.1 | | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP |
| Nickel | 0.016 | J | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP |
| Potassium | 1.0 | J | 2.5 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Lead | 0.17 | | 0.0075 | 0.0075 | mg/L | 1 | | 6010B | SPLP East |
| Manganese | 0.36 | | 0.025 | 0.010 | mg/L | 1 | | 6010B | SPLP East |
| Mercury | 0.031 | B | 0.020 | 0.0066 | mg/Kg | 1 | ☼ | 7471B | Total/NA |
| pH | 7.8 | | 0.20 | 0.20 | SU | 1 | | 9045D | Total/NA |

Client Sample ID: 2409V-1-B01 (0-3)

Lab Sample ID: 500-146450-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-------|--------|-------|---------|---|--------|-----------|
| Benzo[a]anthracene | 0.036 | J | 0.040 | 0.0054 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[a]pyrene | 0.045 | | 0.040 | 0.0077 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[b]fluoranthene | 0.060 | | 0.040 | 0.0086 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[g,h,i]perylene | 0.025 | J | 0.040 | 0.013 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[k]fluoranthene | 0.018 | J | 0.040 | 0.012 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Carbazole | 0.12 | J | 0.20 | 0.10 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Chrysene | 0.049 | | 0.040 | 0.011 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Fluoranthene | 0.070 | | 0.040 | 0.0074 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Indeno[1,2,3-cd]pyrene | 0.022 | J | 0.040 | 0.010 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Phenanthrene | 0.030 | J | 0.040 | 0.0056 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Pyrene | 0.065 | | 0.040 | 0.0079 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Arsenic | 5.2 | | 0.56 | 0.19 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Barium | 56 | | 0.56 | 0.064 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Beryllium | 0.65 | | 0.23 | 0.053 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Cadmium | 0.36 | B | 0.11 | 0.020 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Chromium | 17 | | 0.56 | 0.28 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Cobalt | 9.0 | | 0.28 | 0.074 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Copper | 23 | | 0.56 | 0.16 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Iron | 16000 | B | 11 | 5.9 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Lead | 47 | | 0.28 | 0.13 | mg/Kg | 1 | ☼ | 6010B | Total/NA |

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B01 (0-3) (Continued)

Lab Sample ID: 500-146450-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------|--------|-----------|--------|--------|-------|---------|---|--------|-----------|
| Magnesium | 4400 | B | 5.6 | 2.8 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Calcium | 3900 | B | 11 | 1.9 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Manganese | 300 | | 0.56 | 0.082 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Nickel | 25 | | 0.56 | 0.16 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Selenium | 0.68 | | 0.56 | 0.33 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Silver | 0.24 | J | 0.28 | 0.073 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Vanadium | 25 | | 0.28 | 0.066 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Zinc | 64 | | 1.1 | 0.49 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Potassium | 1700 | | 28 | 10 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Sodium | 390 | | 56 | 8.3 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Barium | 0.27 | J | 0.50 | 0.050 | mg/L | 1 | | 6010B | TCLP |
| Cadmium | 0.0046 | J | 0.0050 | 0.0020 | mg/L | 1 | | 6010B | TCLP |
| Calcium | 110 | | 5.0 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Copper | 0.014 | J | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP |
| Iron | 0.38 | J | 0.40 | 0.20 | mg/L | 1 | | 6010B | TCLP |
| Lead | 0.016 | | 0.0075 | 0.0075 | mg/L | 1 | | 6010B | TCLP |
| Magnesium | 46 | | 2.5 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Manganese | 0.30 | | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP |
| Nickel | 0.015 | J | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP |
| Potassium | 1.3 | J | 2.5 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Zinc | 0.073 | J | 0.50 | 0.020 | mg/L | 1 | | 6010B | TCLP |
| Lead | 0.32 | | 0.0075 | 0.0075 | mg/L | 1 | | 6010B | SPLP East |
| Manganese | 0.78 | | 0.025 | 0.010 | mg/L | 1 | | 6010B | SPLP East |
| Mercury | 0.083 | B | 0.018 | 0.0060 | mg/Kg | 1 | ☼ | 7471B | Total/NA |
| pH | 7.6 | | 0.20 | 0.20 | SU | 1 | | 9045D | Total/NA |

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|-------------------|--------|----------------|----------------|
| 500-146450-1 | 2409V-1-B05 (0-3) | Solid | 06/05/18 07:40 | 06/05/18 18:30 |
| 500-146450-2 | 2409V-1-B04 (0-3) | Solid | 06/05/18 08:10 | 06/05/18 18:30 |
| 500-146450-3 | 2409V-1-B03 (0-3) | Solid | 06/05/18 08:35 | 06/05/18 18:30 |
| 500-146450-4 | 2409V-1-B02 (0-3) | Solid | 06/05/18 08:55 | 06/05/18 18:30 |
| 500-146450-5 | 2409V-1-B01 (0-3) | Solid | 06/05/18 09:15 | 06/05/18 18:30 |

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B05 (0-3)

Lab Sample ID: 500-146450-1

Date Collected: 06/05/18 07:40

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 84.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|-----------|--------|---------|-------|---|----------------|----------------|---------|
| Acetone | <0.0074 | | 0.017 | 0.0074 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Benzene | <0.00043 | | 0.0017 | 0.00043 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Bromodichloromethane | <0.00034 | | 0.0017 | 0.00034 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Bromoform | <0.00049 | | 0.0017 | 0.00049 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Bromomethane | <0.0016 | * | 0.0042 | 0.0016 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| 2-Butanone (MEK) | <0.0019 | | 0.0042 | 0.0019 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Carbon disulfide | <0.00088 | | 0.0042 | 0.00088 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Carbon tetrachloride | <0.00049 | | 0.0017 | 0.00049 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Chlorobenzene | <0.00063 | | 0.0017 | 0.00063 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Chloroethane | <0.0013 | * | 0.0042 | 0.0013 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Chloroform | <0.00059 | | 0.0017 | 0.00059 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Chloromethane | <0.0017 | | 0.0042 | 0.0017 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| cis-1,2-Dichloroethene | <0.00047 | | 0.0017 | 0.00047 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| cis-1,3-Dichloropropene | <0.00051 | | 0.0017 | 0.00051 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Dibromochloromethane | <0.00055 | | 0.0017 | 0.00055 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| 1,1-Dichloroethane | <0.00058 | | 0.0017 | 0.00058 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| 1,2-Dichloroethane | <0.0013 | | 0.0042 | 0.0013 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| 1,1-Dichloroethene | <0.00058 | | 0.0017 | 0.00058 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| 1,2-Dichloropropane | <0.00044 | | 0.0017 | 0.00044 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| 1,3-Dichloropropane, Total | <0.00059 | | 0.0017 | 0.00059 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Ethylbenzene | <0.00081 | | 0.0017 | 0.00081 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| 2-Hexanone | <0.0013 | | 0.0042 | 0.0013 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Methylene Chloride | <0.0017 | | 0.0042 | 0.0017 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| 4-Methyl-2-pentanone (MIBK) | <0.0013 | | 0.0042 | 0.0013 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Methyl tert-butyl ether | <0.00050 | | 0.0017 | 0.00050 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Styrene | <0.00051 | | 0.0017 | 0.00051 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| 1,1,2,2-Tetrachloroethane | <0.00054 | | 0.0017 | 0.00054 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Tetrachloroethene | <0.00058 | | 0.0017 | 0.00058 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Toluene | <0.00043 | | 0.0017 | 0.00043 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| trans-1,2-Dichloroethene | <0.00075 | | 0.0017 | 0.00075 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| trans-1,3-Dichloropropene | <0.00059 | | 0.0017 | 0.00059 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| 1,1,1-Trichloroethane | <0.00057 | | 0.0017 | 0.00057 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| 1,1,2-Trichloroethane | <0.00073 | | 0.0017 | 0.00073 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Trichloroethene | <0.00057 | | 0.0017 | 0.00057 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Vinyl acetate | <0.0015 | | 0.0042 | 0.0015 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Vinyl chloride | <0.00075 | | 0.0017 | 0.00075 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Xylenes, Total | <0.00054 | | 0.0034 | 0.00054 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 116 | | 75 - 131 | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Dibromofluoromethane | 111 | | 75 - 126 | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 116 | | 70 - 134 | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Toluene-d8 (Surr) | 116 | | 75 - 124 | 06/06/18 09:41 | 06/18/18 22:56 | 1 |

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Acenaphthene | <0.0070 | | 0.039 | 0.0070 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Acenaphthylene | <0.0052 | | 0.039 | 0.0052 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Anthracene | <0.0065 | | 0.039 | 0.0065 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Benzo[a]anthracene | 0.016 | J | 0.039 | 0.0053 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B05 (0-3)

Lab Sample ID: 500-146450-1

Date Collected: 06/05/18 07:40

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 84.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Benzo[a]pyrene | 0.018 | J | 0.039 | 0.0076 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Benzo[b]fluoranthene | 0.020 | J | 0.039 | 0.0084 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Benzo[g,h,i]perylene | 0.014 | J | 0.039 | 0.013 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Benzo[k]fluoranthene | <0.012 | | 0.039 | 0.012 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Bis(2-chloroethoxy)methane | <0.040 | | 0.20 | 0.040 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Bis(2-chloroethyl)ether | <0.059 | | 0.20 | 0.059 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Bis(2-ethylhexyl) phthalate | <0.071 | | 0.20 | 0.071 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 4-Bromophenyl phenyl ether | <0.052 | | 0.20 | 0.052 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Butyl benzyl phthalate | <0.074 | | 0.20 | 0.074 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Carbazole | 0.12 | J | 0.20 | 0.098 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 4-Chloroaniline | <0.18 | | 0.79 | 0.18 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 4-Chloro-3-methylphenol | <0.13 | | 0.39 | 0.13 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 2-Chloronaphthalene | <0.043 | | 0.20 | 0.043 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 2-Chlorophenol | <0.067 | | 0.20 | 0.067 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 4-Chlorophenyl phenyl ether | <0.046 | | 0.20 | 0.046 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Chrysene | 0.016 | J | 0.039 | 0.011 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Dibenz(a,h)anthracene | <0.0076 | | 0.039 | 0.0076 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Dibenzofuran | <0.046 | | 0.20 | 0.046 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 1,2-Dichlorobenzene | <0.047 | | 0.20 | 0.047 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 1,3-Dichlorobenzene | <0.044 | | 0.20 | 0.044 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 1,4-Dichlorobenzene | <0.050 | | 0.20 | 0.050 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 3,3'-Dichlorobenzidine | <0.055 * | | 0.20 | 0.055 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 2,4-Dichlorophenol | <0.093 | | 0.39 | 0.093 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Diethyl phthalate | <0.066 | | 0.20 | 0.066 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 2,4-Dimethylphenol | <0.15 | | 0.39 | 0.15 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Dimethyl phthalate | <0.051 | | 0.20 | 0.051 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Di-n-butyl phthalate | <0.060 | | 0.20 | 0.060 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 4,6-Dinitro-2-methylphenol | <0.31 | | 0.79 | 0.31 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 2,4-Dinitrophenol | <0.69 | | 0.79 | 0.69 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 2,4-Dinitrotoluene | <0.062 | | 0.20 | 0.062 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 2,6-Dinitrotoluene | <0.077 | | 0.20 | 0.077 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Di-n-octyl phthalate | <0.064 | | 0.20 | 0.064 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Fluoranthene | 0.024 | J | 0.039 | 0.0073 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Fluorene | <0.0055 | | 0.039 | 0.0055 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Hexachlorobenzene | <0.0091 | | 0.079 | 0.0091 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Hexachlorobutadiene | <0.061 | | 0.20 | 0.061 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Hexachlorocyclopentadiene | <0.22 | | 0.79 | 0.22 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Hexachloroethane | <0.059 | | 0.20 | 0.059 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Indeno[1,2,3-cd]pyrene | <0.010 | | 0.039 | 0.010 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Isophorone | <0.044 | | 0.20 | 0.044 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 2-Methylnaphthalene | <0.0072 | | 0.079 | 0.0072 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 2-Methylphenol | <0.063 | | 0.20 | 0.063 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 3 & 4 Methylphenol | <0.065 | | 0.20 | 0.065 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Naphthalene | <0.0060 | | 0.039 | 0.0060 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 2-Nitroaniline | <0.053 | | 0.20 | 0.053 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 3-Nitroaniline | <0.12 | | 0.39 | 0.12 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 4-Nitroaniline | <0.16 | | 0.39 | 0.16 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Nitrobenzene | <0.0098 | | 0.039 | 0.0098 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 2-Nitrophenol | <0.092 | | 0.39 | 0.092 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B05 (0-3)

Lab Sample ID: 500-146450-1

Date Collected: 06/05/18 07:40

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 84.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|---------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| 4-Nitrophenol | <0.37 | | 0.79 | 0.37 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| N-Nitrosodi-n-propylamine | <0.048 | | 0.079 | 0.048 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| N-Nitrosodiphenylamine | <0.046 | | 0.20 | 0.046 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 2,2'-oxybis[1-chloropropane] | <0.045 | | 0.20 | 0.045 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Pentachlorophenol | <0.63 | | 0.79 | 0.63 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Phenanthrene | 0.0096 | J | 0.039 | 0.0055 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Phenol | <0.087 | | 0.20 | 0.087 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Pyrene | 0.023 | J | 0.039 | 0.0078 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 1,2,4-Trichlorobenzene | <0.042 | | 0.20 | 0.042 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 2,4,5-Trichlorophenol | <0.089 | | 0.39 | 0.089 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 2,4,6-Trichlorophenol | <0.13 | | 0.39 | 0.13 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl | 96 | | 44 - 121 | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 2-Fluorophenol | 118 | | 46 - 133 | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Nitrobenzene-d5 | 90 | | 41 - 120 | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Phenol-d5 | 102 | | 46 - 125 | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Terphenyl-d14 | 109 | | 35 - 160 | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 2,4,6-Tribromophenol | 75 | | 25 - 139 | 06/12/18 07:02 | 06/13/18 19:01 | 1 |

Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | 0.27 | J | 1.1 | 0.21 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Arsenic | 4.6 | | 0.55 | 0.19 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Barium | 49 | | 0.55 | 0.063 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Beryllium | 0.48 | | 0.22 | 0.052 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Cadmium | 0.37 | B | 0.11 | 0.020 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Chromium | 14 | | 0.55 | 0.27 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Cobalt | 6.3 | | 0.28 | 0.072 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Copper | 44 | | 0.55 | 0.15 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Iron | 12000 | B | 11 | 5.7 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Lead | 230 | | 0.28 | 0.13 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Magnesium | 21000 | B | 5.5 | 2.7 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Calcium | 50000 | B | 110 | 19 | mg/Kg | ☼ | 06/07/18 08:45 | 06/09/18 04:50 | 10 |
| Manganese | 340 | | 0.55 | 0.080 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Nickel | 17 | | 0.55 | 0.16 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Selenium | 0.73 | | 0.55 | 0.32 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Silver | 0.18 | J | 0.28 | 0.071 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Thallium | <0.28 | | 0.55 | 0.28 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Vanadium | 20 | | 0.28 | 0.065 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Zinc | 72 | | 1.1 | 0.49 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Potassium | 1200 | | 28 | 9.8 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Sodium | 600 | | 55 | 8.2 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.010 | | 0.050 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:13 | 1 |
| Barium | 0.30 | J | 0.50 | 0.050 | mg/L | | 06/12/18 16:35 | 06/13/18 22:13 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 06/12/18 16:35 | 06/13/18 22:13 | 1 |
| Cadmium | 0.0035 | J | 0.0050 | 0.0020 | mg/L | | 06/12/18 16:35 | 06/13/18 22:13 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B05 (0-3)

Lab Sample ID: 500-146450-1

Date Collected: 06/05/18 07:40

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 84.6

Method: 6010B - Metals (ICP) - TCLP (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Calcium | 320 | | 5.0 | 0.50 | mg/L | | 06/12/18 16:35 | 06/13/18 22:13 | 1 |
| Chromium | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:13 | 1 |
| Cobalt | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:13 | 1 |
| Copper | 0.013 | J | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:13 | 1 |
| Iron | <0.20 | | 0.40 | 0.20 | mg/L | | 06/12/18 16:35 | 06/13/18 22:13 | 1 |
| Lead | 0.036 | | 0.0075 | 0.0075 | mg/L | | 06/12/18 16:35 | 06/13/18 22:13 | 1 |
| Magnesium | 97 | | 2.5 | 0.50 | mg/L | | 06/12/18 16:35 | 06/13/18 22:13 | 1 |
| Manganese | 0.74 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:13 | 1 |
| Nickel | 0.018 | J | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:13 | 1 |
| Potassium | 0.58 | J | 2.5 | 0.50 | mg/L | | 06/12/18 16:35 | 06/13/18 22:13 | 1 |
| Selenium | <0.020 | | 0.050 | 0.020 | mg/L | | 06/12/18 16:35 | 06/13/18 22:13 | 1 |
| Silver | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:13 | 1 |
| Vanadium | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:13 | 1 |
| Zinc | 0.15 | J | 0.50 | 0.020 | mg/L | | 06/12/18 16:35 | 06/13/18 22:13 | 1 |

Method: 6010B - SPLP Metals - SPLP East

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|-------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Lead | 0.33 | | 0.0075 | 0.0075 | mg/L | | 06/12/18 15:23 | 06/14/18 00:15 | 1 |
| Manganese | 0.64 | | 0.025 | 0.010 | mg/L | | 06/12/18 15:23 | 06/14/18 00:15 | 1 |

Method: 6020A - Metals (ICP/MS) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|---------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Antimony | <0.0060 | | 0.0060 | 0.0060 | mg/L | | 06/12/18 16:35 | 06/13/18 13:53 | 1 |
| Thallium | <0.0020 | | 0.0020 | 0.0020 | mg/L | | 06/12/18 16:35 | 06/13/18 13:53 | 1 |

Method: 7470A - TCLP Mercury - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|---------|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | 0.00020 | mg/L | | 06/12/18 14:05 | 06/14/18 07:28 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Mercury | 0.025 | B | 0.018 | 0.0059 | mg/Kg | ☼ | 06/08/18 16:15 | 06/12/18 17:01 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|------------|-----------|------|------|-------|---|----------------|----------------|---------|
| Cyanide, Total | <0.19 | | 0.54 | 0.19 | mg/Kg | ☼ | 06/15/18 18:05 | 06/16/18 14:01 | 1 |
| pH | 8.2 | | 0.20 | 0.20 | SU | | | 06/12/18 14:44 | 1 |

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B04 (0-3)

Lab Sample ID: 500-146450-2

Date Collected: 06/05/18 08:10

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 82.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|---------------|-----------|--------|---------|-------|---|----------------|----------------|---------|
| Acetone | 0.0087 | J | 0.016 | 0.0072 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Benzene | <0.00042 | | 0.0016 | 0.00042 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Bromodichloromethane | <0.00033 | | 0.0016 | 0.00033 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Bromoform | <0.00048 | | 0.0016 | 0.00048 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Bromomethane | <0.0016 | * | 0.0041 | 0.0016 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| 2-Butanone (MEK) | <0.0018 | | 0.0041 | 0.0018 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Carbon disulfide | <0.00086 | | 0.0041 | 0.00086 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Carbon tetrachloride | <0.00048 | | 0.0016 | 0.00048 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Chlorobenzene | <0.00061 | | 0.0016 | 0.00061 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Chloroethane | <0.0012 | * | 0.0041 | 0.0012 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Chloroform | <0.00057 | | 0.0016 | 0.00057 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Chloromethane | <0.0017 | | 0.0041 | 0.0017 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| cis-1,2-Dichloroethene | <0.00046 | | 0.0016 | 0.00046 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| cis-1,3-Dichloropropene | <0.00050 | | 0.0016 | 0.00050 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Dibromochloromethane | <0.00054 | | 0.0016 | 0.00054 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| 1,1-Dichloroethane | <0.00056 | | 0.0016 | 0.00056 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| 1,2-Dichloroethane | <0.0013 | | 0.0041 | 0.0013 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| 1,1-Dichloroethene | <0.00057 | | 0.0016 | 0.00057 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| 1,2-Dichloropropane | <0.00043 | | 0.0016 | 0.00043 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| 1,3-Dichloropropene, Total | <0.00058 | | 0.0016 | 0.00058 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Ethylbenzene | <0.00079 | | 0.0016 | 0.00079 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| 2-Hexanone | <0.0013 | | 0.0041 | 0.0013 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Methylene Chloride | <0.0016 | | 0.0041 | 0.0016 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| 4-Methyl-2-pentanone (MIBK) | <0.0012 | | 0.0041 | 0.0012 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Methyl tert-butyl ether | <0.00048 | | 0.0016 | 0.00048 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Styrene | <0.00050 | | 0.0016 | 0.00050 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| 1,1,2,2-Tetrachloroethane | <0.00053 | | 0.0016 | 0.00053 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Tetrachloroethene | <0.00056 | | 0.0016 | 0.00056 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Toluene | <0.00042 | | 0.0016 | 0.00042 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| trans-1,2-Dichloroethene | <0.00073 | | 0.0016 | 0.00073 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| trans-1,3-Dichloropropene | <0.00058 | | 0.0016 | 0.00058 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| 1,1,1-Trichloroethane | <0.00055 | | 0.0016 | 0.00055 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| 1,1,2-Trichloroethane | <0.00071 | | 0.0016 | 0.00071 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Trichloroethene | <0.00056 | | 0.0016 | 0.00056 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Vinyl acetate | <0.0014 | | 0.0041 | 0.0014 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Vinyl chloride | <0.00073 | | 0.0016 | 0.00073 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Xylenes, Total | <0.00053 | | 0.0033 | 0.00053 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 106 | | 75 - 131 | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Dibromofluoromethane | 106 | | 75 - 126 | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 114 | | 70 - 134 | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Toluene-d8 (Surr) | 110 | | 75 - 124 | 06/06/18 09:41 | 06/18/18 23:25 | 1 |

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------|---------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Acenaphthene | <0.0072 | | 0.040 | 0.0072 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Acenaphthylene | <0.0053 | | 0.040 | 0.0053 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Anthracene | <0.0067 | | 0.040 | 0.0067 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Benzo[a]anthracene | <0.0054 | | 0.040 | 0.0054 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B04 (0-3)

Lab Sample ID: 500-146450-2

Date Collected: 06/05/18 08:10

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 82.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Benzo[a]pyrene | <0.0077 | | 0.040 | 0.0077 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Benzo[b]fluoranthene | <0.0086 | | 0.040 | 0.0086 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Benzo[g,h,i]perylene | <0.013 | | 0.040 | 0.013 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Benzo[k]fluoranthene | <0.012 | | 0.040 | 0.012 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Bis(2-chloroethoxy)methane | <0.041 | | 0.20 | 0.041 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Bis(2-chloroethyl)ether | <0.060 | | 0.20 | 0.060 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Bis(2-ethylhexyl) phthalate | <0.073 | | 0.20 | 0.073 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 4-Bromophenyl phenyl ether | <0.053 | | 0.20 | 0.053 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Butyl benzyl phthalate | <0.076 | | 0.20 | 0.076 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Carbazole | <0.10 | | 0.20 | 0.10 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 4-Chloroaniline | <0.19 | | 0.81 | 0.19 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 4-Chloro-3-methylphenol | <0.14 | | 0.40 | 0.14 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 2-Chloronaphthalene | <0.044 | | 0.20 | 0.044 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 2-Chlorophenol | <0.068 | | 0.20 | 0.068 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 4-Chlorophenyl phenyl ether | <0.047 | | 0.20 | 0.047 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Chrysene | <0.011 | | 0.040 | 0.011 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Dibenz(a,h)anthracene | <0.0077 | | 0.040 | 0.0077 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Dibenzofuran | <0.047 | | 0.20 | 0.047 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 1,2-Dichlorobenzene | <0.048 | | 0.20 | 0.048 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 1,3-Dichlorobenzene | <0.045 | | 0.20 | 0.045 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 1,4-Dichlorobenzene | <0.051 | | 0.20 | 0.051 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 3,3'-Dichlorobenzidine | <0.056 * | | 0.20 | 0.056 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 2,4-Dichlorophenol | <0.095 | | 0.40 | 0.095 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Diethyl phthalate | <0.068 | | 0.20 | 0.068 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 2,4-Dimethylphenol | <0.15 | | 0.40 | 0.15 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Dimethyl phthalate | <0.052 | | 0.20 | 0.052 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Di-n-butyl phthalate | <0.061 | | 0.20 | 0.061 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 4,6-Dinitro-2-methylphenol | <0.32 | | 0.81 | 0.32 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 2,4-Dinitrophenol | <0.70 | | 0.81 | 0.70 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 2,4-Dinitrotoluene | <0.063 | | 0.20 | 0.063 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 2,6-Dinitrotoluene | <0.079 | | 0.20 | 0.079 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Di-n-octyl phthalate | <0.065 | | 0.20 | 0.065 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Fluoranthene | <0.0074 | | 0.040 | 0.0074 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Fluorene | <0.0056 | | 0.040 | 0.0056 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Hexachlorobenzene | <0.0093 | | 0.081 | 0.0093 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Hexachlorobutadiene | <0.063 | | 0.20 | 0.063 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Hexachlorocyclopentadiene | <0.23 | | 0.81 | 0.23 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Hexachloroethane | <0.061 | | 0.20 | 0.061 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Indeno[1,2,3-cd]pyrene | <0.010 | | 0.040 | 0.010 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Isophorone | <0.045 | | 0.20 | 0.045 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 2-Methylnaphthalene | <0.0073 | | 0.081 | 0.0073 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 2-Methylphenol | <0.064 | | 0.20 | 0.064 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 3 & 4 Methylphenol | <0.067 | | 0.20 | 0.067 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Naphthalene | <0.0061 | | 0.040 | 0.0061 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 2-Nitroaniline | <0.054 | | 0.20 | 0.054 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 3-Nitroaniline | <0.12 | | 0.40 | 0.12 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 4-Nitroaniline | <0.17 | | 0.40 | 0.17 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Nitrobenzene | <0.010 | | 0.040 | 0.010 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 2-Nitrophenol | <0.094 | | 0.40 | 0.094 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B04 (0-3)

Lab Sample ID: 500-146450-2

Date Collected: 06/05/18 08:10

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 82.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|---------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| 4-Nitrophenol | <0.38 | | 0.81 | 0.38 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| N-Nitrosodi-n-propylamine | <0.049 | | 0.081 | 0.049 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| N-Nitrosodiphenylamine | <0.047 | | 0.20 | 0.047 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 2,2'-oxybis[1-chloropropane] | <0.046 | | 0.20 | 0.046 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Pentachlorophenol | <0.64 | | 0.81 | 0.64 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Phenanthrene | <0.0056 | | 0.040 | 0.0056 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Phenol | <0.089 | | 0.20 | 0.089 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Pyrene | <0.0079 | | 0.040 | 0.0079 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 1,2,4-Trichlorobenzene | <0.043 | | 0.20 | 0.043 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 2,4,5-Trichlorophenol | <0.091 | | 0.40 | 0.091 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 2,4,6-Trichlorophenol | <0.14 | | 0.40 | 0.14 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl | 98 | | 44 - 121 | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 2-Fluorophenol | 123 | | 46 - 133 | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Nitrobenzene-d5 | 93 | | 41 - 120 | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Phenol-d5 | 112 | | 46 - 125 | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Terphenyl-d14 | 108 | | 35 - 160 | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 2,4,6-Tribromophenol | 78 | | 25 - 139 | 06/12/18 07:02 | 06/13/18 20:24 | 1 |

Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <0.23 | | 1.2 | 0.23 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Arsenic | 5.1 | | 0.58 | 0.20 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Barium | 70 | | 0.58 | 0.066 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Beryllium | 0.79 | | 0.23 | 0.054 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Cadmium | 0.21 | B | 0.12 | 0.021 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Chromium | 20 | | 0.58 | 0.29 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Cobalt | 12 | | 0.29 | 0.076 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Copper | 17 | | 0.58 | 0.16 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Iron | 20000 | B | 12 | 6.1 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Lead | 16 | | 0.29 | 0.13 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Magnesium | 4400 | B | 5.8 | 2.9 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Calcium | 2600 | B | 12 | 2.0 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Manganese | 410 | | 0.58 | 0.084 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Nickel | 27 | | 0.58 | 0.17 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Selenium | 1.1 | | 0.58 | 0.34 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Silver | 0.32 | | 0.29 | 0.075 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Thallium | <0.29 | | 0.58 | 0.29 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Vanadium | 31 | | 0.29 | 0.069 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Zinc | 60 | | 1.2 | 0.51 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Potassium | 2000 | | 29 | 10 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Sodium | 550 | | 58 | 8.6 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.010 | | 0.050 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:17 | 1 |
| Barium | 0.14 | J | 0.50 | 0.050 | mg/L | | 06/12/18 16:35 | 06/13/18 22:17 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 06/12/18 16:35 | 06/13/18 22:17 | 1 |
| Cadmium | 0.0020 | J | 0.0050 | 0.0020 | mg/L | | 06/12/18 16:35 | 06/13/18 22:17 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B04 (0-3)

Lab Sample ID: 500-146450-2

Date Collected: 06/05/18 08:10

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 82.1

Method: 6010B - Metals (ICP) - TCLP (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Calcium | 49 | | 5.0 | 0.50 | mg/L | | 06/12/18 16:35 | 06/13/18 22:17 | 1 |
| Chromium | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:17 | 1 |
| Cobalt | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:17 | 1 |
| Copper | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:17 | 1 |
| Iron | 0.59 | | 0.40 | 0.20 | mg/L | | 06/12/18 16:35 | 06/13/18 22:17 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 06/12/18 16:35 | 06/13/18 22:17 | 1 |
| Magnesium | 14 | | 2.5 | 0.50 | mg/L | | 06/12/18 16:35 | 06/13/18 22:17 | 1 |
| Manganese | 0.014 | J | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:17 | 1 |
| Nickel | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:17 | 1 |
| Potassium | 0.67 | J | 2.5 | 0.50 | mg/L | | 06/12/18 16:35 | 06/13/18 22:17 | 1 |
| Selenium | <0.020 | | 0.050 | 0.020 | mg/L | | 06/12/18 16:35 | 06/13/18 22:17 | 1 |
| Silver | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:17 | 1 |
| Vanadium | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:17 | 1 |
| Zinc | <0.020 | | 0.50 | 0.020 | mg/L | | 06/12/18 16:35 | 06/13/18 22:17 | 1 |

Method: 6020A - Metals (ICP/MS) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|---------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Antimony | <0.0060 | | 0.0060 | 0.0060 | mg/L | | 06/12/18 16:35 | 06/13/18 13:54 | 1 |
| Thallium | <0.0020 | | 0.0020 | 0.0020 | mg/L | | 06/12/18 16:35 | 06/13/18 13:54 | 1 |

Method: 7470A - TCLP Mercury - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|---------|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | 0.00020 | mg/L | | 06/12/18 14:05 | 06/14/18 07:29 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|--------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Mercury | 0.032 | B | 0.018 | 0.0060 | mg/Kg | ☼ | 06/08/18 16:15 | 06/12/18 17:03 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|------------|-----------|------|------|-------|---|----------------|----------------|---------|
| Cyanide, Total | <0.20 | | 0.58 | 0.20 | mg/Kg | ☼ | 06/15/18 18:05 | 06/16/18 14:01 | 1 |
| pH | 8.0 | | 0.20 | 0.20 | SU | | | 06/12/18 14:45 | 1 |

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B03 (0-3)

Lab Sample ID: 500-146450-3

Date Collected: 06/05/18 08:35

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 84.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------------|-----------|--------|---------|-------|---|----------------|----------------|---------|
| Acetone | 0.014 | J | 0.017 | 0.0072 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Benzene | <0.00042 | | 0.0017 | 0.00042 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Bromodichloromethane | <0.00034 | | 0.0017 | 0.00034 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Bromoform | <0.00049 | | 0.0017 | 0.00049 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Bromomethane | <0.0016 | * | 0.0042 | 0.0016 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| 2-Butanone (MEK) | <0.0018 | | 0.0042 | 0.0018 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Carbon disulfide | <0.00087 | | 0.0042 | 0.00087 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Carbon tetrachloride | <0.00048 | | 0.0017 | 0.00048 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Chlorobenzene | <0.00061 | | 0.0017 | 0.00061 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Chloroethane | <0.0012 | * | 0.0042 | 0.0012 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Chloroform | <0.00058 | | 0.0017 | 0.00058 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Chloromethane | <0.0017 | | 0.0042 | 0.0017 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| cis-1,2-Dichloroethene | <0.00047 | | 0.0017 | 0.00047 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| cis-1,3-Dichloropropene | <0.00050 | | 0.0017 | 0.00050 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Dibromochloromethane | <0.00054 | | 0.0017 | 0.00054 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| 1,1-Dichloroethane | <0.00057 | | 0.0017 | 0.00057 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| 1,2-Dichloroethane | <0.0013 | | 0.0042 | 0.0013 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| 1,1-Dichloroethene | <0.00057 | | 0.0017 | 0.00057 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| 1,2-Dichloropropane | <0.00043 | | 0.0017 | 0.00043 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| 1,3-Dichloropropene, Total | <0.00058 | | 0.0017 | 0.00058 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Ethylbenzene | <0.00080 | | 0.0017 | 0.00080 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| 2-Hexanone | <0.0013 | | 0.0042 | 0.0013 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Methylene Chloride | <0.0016 | | 0.0042 | 0.0016 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| 4-Methyl-2-pentanone (MIBK) | <0.0012 | | 0.0042 | 0.0012 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Methyl tert-butyl ether | <0.00049 | | 0.0017 | 0.00049 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Styrene | <0.00050 | | 0.0017 | 0.00050 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| 1,1,2,2-Tetrachloroethane | <0.00053 | | 0.0017 | 0.00053 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Tetrachloroethene | <0.00057 | | 0.0017 | 0.00057 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Toluene | <0.00042 | | 0.0017 | 0.00042 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| trans-1,2-Dichloroethene | <0.00074 | | 0.0017 | 0.00074 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| trans-1,3-Dichloropropene | <0.00058 | | 0.0017 | 0.00058 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| 1,1,1-Trichloroethane | <0.00056 | | 0.0017 | 0.00056 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| 1,1,2-Trichloroethane | <0.00071 | | 0.0017 | 0.00071 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Trichloroethene | <0.00056 | | 0.0017 | 0.00056 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Vinyl acetate | <0.0014 | | 0.0042 | 0.0014 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Vinyl chloride | <0.00074 | | 0.0017 | 0.00074 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Xylenes, Total | <0.00053 | | 0.0033 | 0.00053 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 109 | | 75 - 131 | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Dibromofluoromethane | 108 | | 75 - 126 | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 113 | | 70 - 134 | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Toluene-d8 (Surr) | 111 | | 75 - 124 | 06/06/18 09:41 | 06/18/18 23:53 | 1 |

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Acenaphthene | <0.0068 | | 0.037 | 0.0068 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Acenaphthylene | <0.0050 | | 0.037 | 0.0050 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Anthracene | 0.014 | J | 0.037 | 0.0063 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Benzo[a]anthracene | 0.098 | | 0.037 | 0.0051 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B03 (0-3)

Lab Sample ID: 500-146450-3

Date Collected: 06/05/18 08:35

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 84.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|---------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Benzo[a]pyrene | 0.12 | | 0.037 | 0.0073 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Benzo[b]fluoranthene | 0.19 | | 0.037 | 0.0081 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Benzo[g,h,i]perylene | 0.082 | | 0.037 | 0.012 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Benzo[k]fluoranthene | 0.052 | | 0.037 | 0.011 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Bis(2-chloroethoxy)methane | <0.038 | | 0.19 | 0.038 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Bis(2-chloroethyl)ether | <0.057 | | 0.19 | 0.057 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Bis(2-ethylhexyl) phthalate | <0.069 | | 0.19 | 0.069 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 4-Bromophenyl phenyl ether | <0.050 | | 0.19 | 0.050 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Butyl benzyl phthalate | <0.072 | | 0.19 | 0.072 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Carbazole | 0.12 | J | 0.19 | 0.094 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 4-Chloroaniline | <0.18 | | 0.76 | 0.18 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 4-Chloro-3-methylphenol | <0.13 | | 0.37 | 0.13 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 2-Chloronaphthalene | <0.042 | | 0.19 | 0.042 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 2-Chlorophenol | <0.064 | | 0.19 | 0.064 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 4-Chlorophenyl phenyl ether | <0.044 | | 0.19 | 0.044 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Chrysene | 0.13 | | 0.037 | 0.010 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Dibenz(a,h)anthracene | 0.021 | J | 0.037 | 0.0073 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Dibenzofuran | <0.044 | | 0.19 | 0.044 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 1,2-Dichlorobenzene | <0.045 | | 0.19 | 0.045 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 1,3-Dichlorobenzene | <0.042 | | 0.19 | 0.042 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 1,4-Dichlorobenzene | <0.048 | | 0.19 | 0.048 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 3,3'-Dichlorobenzidine | <0.053 | * | 0.19 | 0.053 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 2,4-Dichlorophenol | <0.090 | | 0.37 | 0.090 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Diethyl phthalate | <0.064 | | 0.19 | 0.064 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 2,4-Dimethylphenol | <0.14 | | 0.37 | 0.14 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Dimethyl phthalate | <0.049 | | 0.19 | 0.049 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Di-n-butyl phthalate | <0.057 | | 0.19 | 0.057 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 4,6-Dinitro-2-methylphenol | <0.30 | | 0.76 | 0.30 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 2,4-Dinitrophenol | <0.66 | | 0.76 | 0.66 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 2,4-Dinitrotoluene | <0.060 | | 0.19 | 0.060 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 2,6-Dinitrotoluene | <0.074 | | 0.19 | 0.074 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Di-n-octyl phthalate | <0.061 | | 0.19 | 0.061 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Fluoranthene | 0.21 | | 0.037 | 0.0070 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Fluorene | <0.0053 | | 0.037 | 0.0053 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Hexachlorobenzene | <0.0087 | | 0.076 | 0.0087 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Hexachlorobutadiene | <0.059 | | 0.19 | 0.059 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Hexachlorocyclopentadiene | <0.22 | | 0.76 | 0.22 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Hexachloroethane | <0.057 | | 0.19 | 0.057 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Indeno[1,2,3-cd]pyrene | 0.076 | | 0.037 | 0.0098 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Isophorone | <0.042 | | 0.19 | 0.042 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 2-Methylnaphthalene | 0.0082 | J | 0.076 | 0.0069 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 2-Methylphenol | <0.060 | | 0.19 | 0.060 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 3 & 4 Methylphenol | <0.063 | | 0.19 | 0.063 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Naphthalene | <0.0058 | | 0.037 | 0.0058 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 2-Nitroaniline | <0.051 | | 0.19 | 0.051 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 3-Nitroaniline | <0.12 | | 0.37 | 0.12 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 4-Nitroaniline | <0.16 | | 0.37 | 0.16 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Nitrobenzene | <0.0094 | | 0.037 | 0.0094 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 2-Nitrophenol | <0.089 | | 0.37 | 0.089 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B03 (0-3)

Lab Sample ID: 500-146450-3

Date Collected: 06/05/18 08:35

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 84.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| 4-Nitrophenol | <0.36 | | 0.76 | 0.36 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| N-Nitrosodi-n-propylamine | <0.046 | | 0.076 | 0.046 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| N-Nitrosodiphenylamine | <0.044 | | 0.19 | 0.044 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 2,2'-oxybis[1-chloropropane] | <0.044 | | 0.19 | 0.044 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Pentachlorophenol | <0.60 | | 0.76 | 0.60 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Phenanthrene | 0.071 | | 0.037 | 0.0053 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Phenol | <0.084 | | 0.19 | 0.084 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Pyrene | 0.18 | | 0.037 | 0.0075 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 1,2,4-Trichlorobenzene | <0.041 | | 0.19 | 0.041 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 2,4,5-Trichlorophenol | <0.086 | | 0.37 | 0.086 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 2,4,6-Trichlorophenol | <0.13 | | 0.37 | 0.13 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl | 98 | | 44 - 121 | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 2-Fluorophenol | 116 | | 46 - 133 | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Nitrobenzene-d5 | 92 | | 41 - 120 | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Phenol-d5 | 109 | | 46 - 125 | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Terphenyl-d14 | 104 | | 35 - 160 | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 2,4,6-Tribromophenol | 80 | | 25 - 139 | 06/12/18 07:02 | 06/13/18 20:51 | 1 |

Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | 0.31 | J | 1.1 | 0.22 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Arsenic | 6.7 | | 0.57 | 0.19 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Barium | 62 | | 0.57 | 0.065 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Beryllium | 0.61 | | 0.23 | 0.053 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Cadmium | 0.51 | B | 0.11 | 0.020 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Chromium | 19 | | 0.57 | 0.28 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Cobalt | 9.1 | | 0.28 | 0.075 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Copper | 31 | | 0.57 | 0.16 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Iron | 16000 | B | 11 | 5.9 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Lead | 200 | | 0.28 | 0.13 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Magnesium | 10000 | B | 5.7 | 2.8 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Calcium | 15000 | B | 11 | 1.9 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Manganese | 370 | | 0.57 | 0.083 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Nickel | 21 | | 0.57 | 0.17 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Selenium | 1.0 | | 0.57 | 0.33 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Silver | 0.28 | | 0.28 | 0.073 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Thallium | <0.28 | | 0.57 | 0.28 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Vanadium | 23 | | 0.28 | 0.067 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Zinc | 100 | | 1.1 | 0.50 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Potassium | 1600 | | 28 | 10 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Sodium | 460 | | 57 | 8.4 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.010 | | 0.050 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:22 | 1 |
| Barium | 0.28 | J | 0.50 | 0.050 | mg/L | | 06/12/18 16:35 | 06/13/18 22:22 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 06/12/18 16:35 | 06/13/18 22:22 | 1 |
| Cadmium | 0.0040 | J | 0.0050 | 0.0020 | mg/L | | 06/12/18 16:35 | 06/13/18 22:22 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B03 (0-3)

Lab Sample ID: 500-146450-3

Date Collected: 06/05/18 08:35

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 84.6

Method: 6010B - Metals (ICP) - TCLP (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Calcium | 200 | | 5.0 | 0.50 | mg/L | | 06/12/18 16:35 | 06/13/18 22:22 | 1 |
| Chromium | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:22 | 1 |
| Cobalt | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:22 | 1 |
| Copper | 0.012 | J | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:22 | 1 |
| Iron | <0.20 | | 0.40 | 0.20 | mg/L | | 06/12/18 16:35 | 06/13/18 22:22 | 1 |
| Lead | 0.034 | | 0.0075 | 0.0075 | mg/L | | 06/12/18 16:35 | 06/13/18 22:22 | 1 |
| Magnesium | 90 | | 2.5 | 0.50 | mg/L | | 06/12/18 16:35 | 06/13/18 22:22 | 1 |
| Manganese | 0.91 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:22 | 1 |
| Nickel | 0.016 | J | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:22 | 1 |
| Potassium | 1.0 | J | 2.5 | 0.50 | mg/L | | 06/12/18 16:35 | 06/13/18 22:22 | 1 |
| Selenium | <0.020 | | 0.050 | 0.020 | mg/L | | 06/12/18 16:35 | 06/13/18 22:22 | 1 |
| Silver | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:22 | 1 |
| Vanadium | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:22 | 1 |
| Zinc | 0.086 | J | 0.50 | 0.020 | mg/L | | 06/12/18 16:35 | 06/13/18 22:22 | 1 |

Method: 6010B - SPLP Metals - SPLP East

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|-------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Lead | 0.18 | | 0.0075 | 0.0075 | mg/L | | 06/12/18 15:23 | 06/14/18 00:23 | 1 |
| Manganese | 0.42 | | 0.025 | 0.010 | mg/L | | 06/12/18 15:23 | 06/14/18 00:23 | 1 |

Method: 6020A - Metals (ICP/MS) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|---------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Antimony | <0.0060 | | 0.0060 | 0.0060 | mg/L | | 06/12/18 16:35 | 06/13/18 13:55 | 1 |
| Thallium | <0.0020 | | 0.0020 | 0.0020 | mg/L | | 06/12/18 16:35 | 06/13/18 13:55 | 1 |

Method: 7470A - TCLP Mercury - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|---------|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | 0.00020 | mg/L | | 06/12/18 14:05 | 06/14/18 07:31 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|--------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Mercury | 0.086 | B | 0.018 | 0.0061 | mg/Kg | ☼ | 06/08/18 16:15 | 06/12/18 17:05 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|------------|-----------|------|------|-------|---|----------------|----------------|---------|
| Cyanide, Total | <0.20 | | 0.57 | 0.20 | mg/Kg | ☼ | 06/15/18 18:05 | 06/16/18 14:01 | 1 |
| pH | 8.4 | | 0.20 | 0.20 | SU | | | 06/12/18 14:45 | 1 |

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B02 (0-3)

Lab Sample ID: 500-146450-4

Date Collected: 06/05/18 08:55

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 80.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|---------------|-----------|--------|---------|-------|---|----------------|----------------|---------|
| Acetone | 0.0093 | J | 0.016 | 0.0071 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Benzene | <0.00042 | | 0.0016 | 0.00042 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Bromodichloromethane | <0.00033 | | 0.0016 | 0.00033 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Bromoform | <0.00048 | | 0.0016 | 0.00048 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Bromomethane | <0.0015 | * | 0.0041 | 0.0015 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| 2-Butanone (MEK) | <0.0018 | | 0.0041 | 0.0018 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Carbon disulfide | <0.00085 | | 0.0041 | 0.00085 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Carbon tetrachloride | <0.00047 | | 0.0016 | 0.00047 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Chlorobenzene | <0.00060 | | 0.0016 | 0.00060 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Chloroethane | <0.0012 | * | 0.0041 | 0.0012 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Chloroform | <0.00057 | | 0.0016 | 0.00057 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Chloromethane | <0.0016 | | 0.0041 | 0.0016 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| cis-1,2-Dichloroethene | <0.00046 | | 0.0016 | 0.00046 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| cis-1,3-Dichloropropene | <0.00049 | | 0.0016 | 0.00049 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Dibromochloromethane | <0.00053 | | 0.0016 | 0.00053 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| 1,1-Dichloroethane | <0.00056 | | 0.0016 | 0.00056 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| 1,2-Dichloroethane | <0.0013 | | 0.0041 | 0.0013 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| 1,1-Dichloroethene | <0.00056 | | 0.0016 | 0.00056 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| 1,2-Dichloropropane | <0.00042 | | 0.0016 | 0.00042 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| 1,3-Dichloropropane, Total | <0.00057 | | 0.0016 | 0.00057 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Ethylbenzene | <0.00078 | | 0.0016 | 0.00078 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| 2-Hexanone | <0.0013 | | 0.0041 | 0.0013 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Methylene Chloride | <0.0016 | | 0.0041 | 0.0016 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| 4-Methyl-2-pentanone (MIBK) | <0.0012 | | 0.0041 | 0.0012 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Methyl tert-butyl ether | <0.00048 | | 0.0016 | 0.00048 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Styrene | <0.00049 | | 0.0016 | 0.00049 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| 1,1,2,2-Tetrachloroethane | <0.00052 | | 0.0016 | 0.00052 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Tetrachloroethene | <0.00055 | | 0.0016 | 0.00055 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Toluene | <0.00041 | | 0.0016 | 0.00041 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| trans-1,2-Dichloroethene | <0.00072 | | 0.0016 | 0.00072 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| trans-1,3-Dichloropropene | <0.00057 | | 0.0016 | 0.00057 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| 1,1,1-Trichloroethane | <0.00055 | | 0.0016 | 0.00055 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| 1,1,2-Trichloroethane | <0.00070 | | 0.0016 | 0.00070 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Trichloroethene | <0.00055 | | 0.0016 | 0.00055 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Vinyl acetate | <0.0014 | | 0.0041 | 0.0014 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Vinyl chloride | <0.00072 | | 0.0016 | 0.00072 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Xylenes, Total | <0.00052 | | 0.0033 | 0.00052 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 108 | | 75 - 131 | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Dibromofluoromethane | 105 | | 75 - 126 | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 109 | | 70 - 134 | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Toluene-d8 (Surr) | 112 | | 75 - 124 | 06/06/18 09:41 | 06/19/18 00:21 | 1 |

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Acenaphthene | <0.0072 | | 0.040 | 0.0072 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Acenaphthylene | <0.0053 | | 0.040 | 0.0053 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Anthracene | <0.0067 | | 0.040 | 0.0067 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Benzo[a]anthracene | 0.013 | J | 0.040 | 0.0054 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B02 (0-3)

Lab Sample ID: 500-146450-4

Date Collected: 06/05/18 08:55

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 80.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|--------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Benzo[a]pyrene | 0.017 | J | 0.040 | 0.0078 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Benzo[b]fluoranthene | 0.021 | J | 0.040 | 0.0087 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Benzo[g,h,i]perylene | 0.013 | J | 0.040 | 0.013 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Benzo[k]fluoranthene | <0.012 | | 0.040 | 0.012 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Bis(2-chloroethoxy)methane | <0.041 | | 0.20 | 0.041 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Bis(2-chloroethyl)ether | <0.060 | | 0.20 | 0.060 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Bis(2-ethylhexyl) phthalate | <0.074 | | 0.20 | 0.074 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 4-Bromophenyl phenyl ether | <0.053 | | 0.20 | 0.053 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Butyl benzyl phthalate | <0.077 | | 0.20 | 0.077 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Carbazole | <0.10 | | 0.20 | 0.10 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 4-Chloroaniline | <0.19 | | 0.81 | 0.19 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 4-Chloro-3-methylphenol | <0.14 | | 0.40 | 0.14 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 2-Chloronaphthalene | <0.045 | | 0.20 | 0.045 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 2-Chlorophenol | <0.069 | | 0.20 | 0.069 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 4-Chlorophenyl phenyl ether | <0.047 | | 0.20 | 0.047 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Chrysene | 0.017 | J | 0.040 | 0.011 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Dibenz(a,h)anthracene | <0.0078 | | 0.040 | 0.0078 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Dibenzofuran | <0.047 | | 0.20 | 0.047 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 1,2-Dichlorobenzene | <0.048 | | 0.20 | 0.048 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 1,3-Dichlorobenzene | <0.045 | | 0.20 | 0.045 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 1,4-Dichlorobenzene | <0.052 | | 0.20 | 0.052 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 3,3'-Dichlorobenzidine | <0.056 | * | 0.20 | 0.056 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 2,4-Dichlorophenol | <0.096 | | 0.40 | 0.096 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Diethyl phthalate | <0.068 | | 0.20 | 0.068 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 2,4-Dimethylphenol | <0.15 | | 0.40 | 0.15 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Dimethyl phthalate | <0.053 | | 0.20 | 0.053 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Di-n-butyl phthalate | <0.061 | | 0.20 | 0.061 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 4,6-Dinitro-2-methylphenol | <0.32 | | 0.81 | 0.32 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 2,4-Dinitrophenol | <0.71 | | 0.81 | 0.71 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 2,4-Dinitrotoluene | <0.064 | | 0.20 | 0.064 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 2,6-Dinitrotoluene | <0.079 | | 0.20 | 0.079 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Di-n-octyl phthalate | <0.066 | | 0.20 | 0.066 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Fluoranthene | 0.021 | J | 0.040 | 0.0075 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Fluorene | <0.0057 | | 0.040 | 0.0057 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Hexachlorobenzene | <0.0093 | | 0.081 | 0.0093 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Hexachlorobutadiene | <0.063 | | 0.20 | 0.063 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Hexachlorocyclopentadiene | <0.23 | | 0.81 | 0.23 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Hexachloroethane | <0.061 | | 0.20 | 0.061 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Indeno[1,2,3-cd]pyrene | 0.010 | J | 0.040 | 0.010 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Isophorone | <0.045 | | 0.20 | 0.045 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 2-Methylnaphthalene | <0.0074 | | 0.081 | 0.0074 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 2-Methylphenol | <0.065 | | 0.20 | 0.065 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 3 & 4 Methylphenol | <0.067 | | 0.20 | 0.067 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Naphthalene | <0.0062 | | 0.040 | 0.0062 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 2-Nitroaniline | <0.054 | | 0.20 | 0.054 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 3-Nitroaniline | <0.12 | | 0.40 | 0.12 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 4-Nitroaniline | <0.17 | | 0.40 | 0.17 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Nitrobenzene | <0.010 | | 0.040 | 0.010 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 2-Nitrophenol | <0.095 | | 0.40 | 0.095 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B02 (0-3)

Lab Sample ID: 500-146450-4

Date Collected: 06/05/18 08:55

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 80.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|---------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| 4-Nitrophenol | <0.38 | | 0.81 | 0.38 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| N-Nitrosodi-n-propylamine | <0.049 | | 0.081 | 0.049 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| N-Nitrosodiphenylamine | <0.048 | | 0.20 | 0.048 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 2,2'-oxybis[1-chloropropane] | <0.047 | | 0.20 | 0.047 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Pentachlorophenol | <0.65 | | 0.81 | 0.65 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Phenanthrene | 0.0078 | J | 0.040 | 0.0056 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Phenol | <0.090 | | 0.20 | 0.090 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Pyrene | 0.019 | J | 0.040 | 0.0080 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 1,2,4-Trichlorobenzene | <0.043 | | 0.20 | 0.043 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 2,4,5-Trichlorophenol | <0.092 | | 0.40 | 0.092 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 2,4,6-Trichlorophenol | <0.14 | | 0.40 | 0.14 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl | 98 | | 44 - 121 | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 2-Fluorophenol | 120 | | 46 - 133 | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Nitrobenzene-d5 | 91 | | 41 - 120 | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Phenol-d5 | 109 | | 46 - 125 | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Terphenyl-d14 | 109 | | 35 - 160 | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 2,4,6-Tribromophenol | 81 | | 25 - 139 | 06/12/18 07:02 | 06/13/18 21:19 | 1 |

Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | 0.38 | J | 1.2 | 0.23 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Arsenic | 6.2 | | 0.60 | 0.21 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Barium | 81 | | 0.60 | 0.069 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Beryllium | 0.53 | | 0.24 | 0.056 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Cadmium | 0.36 | B | 0.12 | 0.022 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Chromium | 13 | | 0.60 | 0.30 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Cobalt | 16 | | 0.30 | 0.079 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Copper | 22 | | 0.60 | 0.17 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Iron | 18000 | B | 12 | 6.3 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Lead | 30 | | 0.30 | 0.14 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Magnesium | 19000 | B | 6.0 | 3.0 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Calcium | 30000 | B | 12 | 2.0 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Manganese | 870 | | 0.60 | 0.087 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Nickel | 30 | | 0.60 | 0.18 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Selenium | 0.79 | | 0.60 | 0.35 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Silver | 0.27 | J | 0.30 | 0.078 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Thallium | <0.30 | | 0.60 | 0.30 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Vanadium | 26 | | 0.30 | 0.071 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Zinc | 46 | | 1.2 | 0.53 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Potassium | 1500 | | 30 | 11 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Sodium | 250 | | 60 | 8.9 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.010 | | 0.050 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:26 | 1 |
| Barium | 0.28 | J | 0.50 | 0.050 | mg/L | | 06/12/18 16:35 | 06/13/18 22:26 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 06/12/18 16:35 | 06/13/18 22:26 | 1 |
| Cadmium | 0.0039 | J | 0.0050 | 0.0020 | mg/L | | 06/12/18 16:35 | 06/13/18 22:26 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B02 (0-3)

Lab Sample ID: 500-146450-4

Date Collected: 06/05/18 08:55

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 80.9

Method: 6010B - Metals (ICP) - TCLP (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Calcium | 270 | | 5.0 | 0.50 | mg/L | | 06/12/18 16:35 | 06/13/18 22:26 | 1 |
| Chromium | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:26 | 1 |
| Cobalt | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:26 | 1 |
| Copper | 0.012 | J | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:26 | 1 |
| Iron | <0.20 | | 0.40 | 0.20 | mg/L | | 06/12/18 16:35 | 06/13/18 22:26 | 1 |
| Lead | 0.015 | | 0.0075 | 0.0075 | mg/L | | 06/12/18 16:35 | 06/13/18 22:26 | 1 |
| Magnesium | 140 | | 2.5 | 0.50 | mg/L | | 06/12/18 16:35 | 06/13/18 22:26 | 1 |
| Manganese | 1.1 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:26 | 1 |
| Nickel | 0.016 | J | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:26 | 1 |
| Potassium | 1.0 | J | 2.5 | 0.50 | mg/L | | 06/12/18 16:35 | 06/13/18 22:26 | 1 |
| Selenium | <0.020 | | 0.050 | 0.020 | mg/L | | 06/12/18 16:35 | 06/13/18 22:26 | 1 |
| Silver | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:26 | 1 |
| Vanadium | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:26 | 1 |
| Zinc | <0.020 | | 0.50 | 0.020 | mg/L | | 06/12/18 16:35 | 06/13/18 22:26 | 1 |

Method: 6010B - SPLP Metals - SPLP East

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|-------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Lead | 0.17 | | 0.0075 | 0.0075 | mg/L | | 06/12/18 15:23 | 06/14/18 00:35 | 1 |
| Manganese | 0.36 | | 0.025 | 0.010 | mg/L | | 06/12/18 15:23 | 06/14/18 00:35 | 1 |

Method: 6020A - Metals (ICP/MS) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|---------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Antimony | <0.0060 | | 0.0060 | 0.0060 | mg/L | | 06/12/18 16:35 | 06/13/18 13:56 | 1 |
| Thallium | <0.0020 | | 0.0020 | 0.0020 | mg/L | | 06/12/18 16:35 | 06/13/18 13:56 | 1 |

Method: 7470A - TCLP Mercury - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|---------|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | 0.00020 | mg/L | | 06/12/18 14:05 | 06/14/18 07:33 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|--------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Mercury | 0.031 | B | 0.020 | 0.0066 | mg/Kg | ☼ | 06/08/18 16:15 | 06/12/18 17:07 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|------------|-----------|------|------|-------|---|----------------|----------------|---------|
| Cyanide, Total | <0.20 | | 0.59 | 0.20 | mg/Kg | ☼ | 06/15/18 18:05 | 06/16/18 14:01 | 1 |
| pH | 7.8 | | 0.20 | 0.20 | SU | | | 06/12/18 14:46 | 1 |

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B01 (0-3)

Lab Sample ID: 500-146450-5

Date Collected: 06/05/18 09:15

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 81.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|-----------|--------|---------|-------|---|----------------|----------------|---------|
| Acetone | <0.0073 | | 0.017 | 0.0073 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Benzene | <0.00043 | | 0.0017 | 0.00043 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Bromodichloromethane | <0.00034 | | 0.0017 | 0.00034 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Bromoform | <0.00049 | | 0.0017 | 0.00049 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Bromomethane | <0.0016 | * | 0.0042 | 0.0016 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| 2-Butanone (MEK) | <0.0019 | | 0.0042 | 0.0019 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Carbon disulfide | <0.00087 | | 0.0042 | 0.00087 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Carbon tetrachloride | <0.00048 | | 0.0017 | 0.00048 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Chlorobenzene | <0.00062 | | 0.0017 | 0.00062 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Chloroethane | <0.0012 | * | 0.0042 | 0.0012 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Chloroform | <0.00058 | | 0.0017 | 0.00058 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Chloromethane | <0.0017 | | 0.0042 | 0.0017 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| cis-1,2-Dichloroethene | <0.00047 | | 0.0017 | 0.00047 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| cis-1,3-Dichloropropene | <0.00050 | | 0.0017 | 0.00050 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Dibromochloromethane | <0.00055 | | 0.0017 | 0.00055 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| 1,1-Dichloroethane | <0.00057 | | 0.0017 | 0.00057 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| 1,2-Dichloroethane | <0.0013 | | 0.0042 | 0.0013 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| 1,1-Dichloroethene | <0.00057 | | 0.0017 | 0.00057 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| 1,2-Dichloropropane | <0.00043 | | 0.0017 | 0.00043 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| 1,3-Dichloropropane, Total | <0.00059 | | 0.0017 | 0.00059 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Ethylbenzene | <0.00080 | | 0.0017 | 0.00080 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| 2-Hexanone | <0.0013 | | 0.0042 | 0.0013 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Methylene Chloride | <0.0016 | | 0.0042 | 0.0016 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| 4-Methyl-2-pentanone (MIBK) | <0.0012 | | 0.0042 | 0.0012 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Methyl tert-butyl ether | <0.00049 | | 0.0017 | 0.00049 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Styrene | <0.00050 | | 0.0017 | 0.00050 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| 1,1,2,2-Tetrachloroethane | <0.00053 | | 0.0017 | 0.00053 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Tetrachloroethene | <0.00057 | | 0.0017 | 0.00057 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Toluene | <0.00042 | | 0.0017 | 0.00042 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| trans-1,2-Dichloroethene | <0.00074 | | 0.0017 | 0.00074 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| trans-1,3-Dichloropropene | <0.00059 | | 0.0017 | 0.00059 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| 1,1,1-Trichloroethane | <0.00056 | | 0.0017 | 0.00056 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| 1,1,2-Trichloroethane | <0.00072 | | 0.0017 | 0.00072 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Trichloroethene | <0.00056 | | 0.0017 | 0.00056 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Vinyl acetate | <0.0015 | | 0.0042 | 0.0015 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Vinyl chloride | <0.00074 | | 0.0017 | 0.00074 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Xylenes, Total | <0.00053 | | 0.0033 | 0.00053 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 110 | | 75 - 131 | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Dibromofluoromethane | 108 | | 75 - 126 | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 112 | | 70 - 134 | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Toluene-d8 (Surr) | 113 | | 75 - 124 | 06/06/18 09:41 | 06/19/18 00:48 | 1 |

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Acenaphthene | <0.0072 | | 0.040 | 0.0072 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Acenaphthylene | <0.0053 | | 0.040 | 0.0053 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Anthracene | <0.0067 | | 0.040 | 0.0067 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Benzo[a]anthracene | 0.036 | J | 0.040 | 0.0054 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B01 (0-3)

Lab Sample ID: 500-146450-5

Date Collected: 06/05/18 09:15

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 81.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|---------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Benzo[a]pyrene | 0.045 | | 0.040 | 0.0077 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Benzo[b]fluoranthene | 0.060 | | 0.040 | 0.0086 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Benzo[g,h,i]perylene | 0.025 | J | 0.040 | 0.013 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Benzo[k]fluoranthene | 0.018 | J | 0.040 | 0.012 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Bis(2-chloroethoxy)methane | <0.041 | | 0.20 | 0.041 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Bis(2-chloroethyl)ether | <0.060 | | 0.20 | 0.060 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Bis(2-ethylhexyl) phthalate | <0.073 | | 0.20 | 0.073 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 4-Bromophenyl phenyl ether | <0.053 | | 0.20 | 0.053 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Butyl benzyl phthalate | <0.076 | | 0.20 | 0.076 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Carbazole | 0.12 | J | 0.20 | 0.10 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 4-Chloroaniline | <0.19 | | 0.80 | 0.19 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 4-Chloro-3-methylphenol | <0.14 | | 0.40 | 0.14 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 2-Chloronaphthalene | <0.044 | | 0.20 | 0.044 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 2-Chlorophenol | <0.068 | | 0.20 | 0.068 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 4-Chlorophenyl phenyl ether | <0.047 | | 0.20 | 0.047 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Chrysene | 0.049 | | 0.040 | 0.011 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Dibenz(a,h)anthracene | <0.0077 | | 0.040 | 0.0077 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Dibenzofuran | <0.047 | | 0.20 | 0.047 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 1,2-Dichlorobenzene | <0.048 | | 0.20 | 0.048 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 1,3-Dichlorobenzene | <0.045 | | 0.20 | 0.045 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 1,4-Dichlorobenzene | <0.051 | | 0.20 | 0.051 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 3,3'-Dichlorobenzidine | <0.056 | * | 0.20 | 0.056 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 2,4-Dichlorophenol | <0.095 | | 0.40 | 0.095 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Diethyl phthalate | <0.068 | | 0.20 | 0.068 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 2,4-Dimethylphenol | <0.15 | | 0.40 | 0.15 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Dimethyl phthalate | <0.052 | | 0.20 | 0.052 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Di-n-butyl phthalate | <0.061 | | 0.20 | 0.061 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 4,6-Dinitro-2-methylphenol | <0.32 | | 0.80 | 0.32 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 2,4-Dinitrophenol | <0.70 | | 0.80 | 0.70 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 2,4-Dinitrotoluene | <0.063 | | 0.20 | 0.063 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 2,6-Dinitrotoluene | <0.078 | | 0.20 | 0.078 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Di-n-octyl phthalate | <0.065 | | 0.20 | 0.065 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Fluoranthene | 0.070 | | 0.040 | 0.0074 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Fluorene | <0.0056 | | 0.040 | 0.0056 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Hexachlorobenzene | <0.0093 | | 0.080 | 0.0093 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Hexachlorobutadiene | <0.063 | | 0.20 | 0.063 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Hexachlorocyclopentadiene | <0.23 | | 0.80 | 0.23 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Hexachloroethane | <0.061 | | 0.20 | 0.061 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Indeno[1,2,3-cd]pyrene | 0.022 | J | 0.040 | 0.010 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Isophorone | <0.045 | | 0.20 | 0.045 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 2-Methylnaphthalene | <0.0073 | | 0.080 | 0.0073 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 2-Methylphenol | <0.064 | | 0.20 | 0.064 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 3 & 4 Methylphenol | <0.067 | | 0.20 | 0.067 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Naphthalene | <0.0061 | | 0.040 | 0.0061 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 2-Nitroaniline | <0.054 | | 0.20 | 0.054 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 3-Nitroaniline | <0.12 | | 0.40 | 0.12 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 4-Nitroaniline | <0.17 | | 0.40 | 0.17 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Nitrobenzene | <0.010 | | 0.040 | 0.010 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 2-Nitrophenol | <0.094 | | 0.40 | 0.094 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B01 (0-3)

Lab Sample ID: 500-146450-5

Date Collected: 06/05/18 09:15

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 81.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------------|-----------|----------|--------|-------|---|----------------|----------------|---------|
| 4-Nitrophenol | <0.38 | | 0.80 | 0.38 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| N-Nitrosodi-n-propylamine | <0.049 | | 0.080 | 0.049 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| N-Nitrosodiphenylamine | <0.047 | | 0.20 | 0.047 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 2,2'-oxybis[1-chloropropane] | <0.046 | | 0.20 | 0.046 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Pentachlorophenol | <0.64 | | 0.80 | 0.64 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Phenanthrene | 0.030 | J | 0.040 | 0.0056 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Phenol | <0.089 | | 0.20 | 0.089 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Pyrene | 0.065 | | 0.040 | 0.0079 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 1,2,4-Trichlorobenzene | <0.043 | | 0.20 | 0.043 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 2,4,5-Trichlorophenol | <0.091 | | 0.40 | 0.091 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 2,4,6-Trichlorophenol | <0.14 | | 0.40 | 0.14 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2-Fluorobiphenyl | 98 | | 44 - 121 | | | | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 2-Fluorophenol | 120 | | 46 - 133 | | | | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Nitrobenzene-d5 | 92 | | 41 - 120 | | | | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Phenol-d5 | 104 | | 46 - 125 | | | | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Terphenyl-d14 | 103 | | 35 - 160 | | | | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 2,4,6-Tribromophenol | 81 | | 25 - 139 | | | | 06/12/18 07:02 | 06/13/18 21:46 | 1 |

Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <0.22 | | 1.1 | 0.22 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Arsenic | 5.2 | | 0.56 | 0.19 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Barium | 56 | | 0.56 | 0.064 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Beryllium | 0.65 | | 0.23 | 0.053 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Cadmium | 0.36 | B | 0.11 | 0.020 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Chromium | 17 | | 0.56 | 0.28 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Cobalt | 9.0 | | 0.28 | 0.074 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Copper | 23 | | 0.56 | 0.16 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Iron | 16000 | B | 11 | 5.9 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Lead | 47 | | 0.28 | 0.13 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Magnesium | 4400 | B | 5.6 | 2.8 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Calcium | 3900 | B | 11 | 1.9 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Manganese | 300 | | 0.56 | 0.082 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Nickel | 25 | | 0.56 | 0.16 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Selenium | 0.68 | | 0.56 | 0.33 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Silver | 0.24 | J | 0.28 | 0.073 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Thallium | <0.28 | | 0.56 | 0.28 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Vanadium | 25 | | 0.28 | 0.066 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Zinc | 64 | | 1.1 | 0.49 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Potassium | 1700 | | 28 | 10 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Sodium | 390 | | 56 | 8.3 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.010 | | 0.050 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:30 | 1 |
| Barium | 0.27 | J | 0.50 | 0.050 | mg/L | | 06/12/18 16:35 | 06/13/18 22:30 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 06/12/18 16:35 | 06/13/18 22:30 | 1 |
| Cadmium | 0.0046 | J | 0.0050 | 0.0020 | mg/L | | 06/12/18 16:35 | 06/13/18 22:30 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B01 (0-3)

Lab Sample ID: 500-146450-5

Date Collected: 06/05/18 09:15

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 81.5

Method: 6010B - Metals (ICP) - TCLP (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Calcium | 110 | | 5.0 | 0.50 | mg/L | | 06/12/18 16:35 | 06/13/18 22:30 | 1 |
| Chromium | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:30 | 1 |
| Cobalt | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:30 | 1 |
| Copper | 0.014 | J | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:30 | 1 |
| Iron | 0.38 | J | 0.40 | 0.20 | mg/L | | 06/12/18 16:35 | 06/13/18 22:30 | 1 |
| Lead | 0.016 | | 0.0075 | 0.0075 | mg/L | | 06/12/18 16:35 | 06/13/18 22:30 | 1 |
| Magnesium | 46 | | 2.5 | 0.50 | mg/L | | 06/12/18 16:35 | 06/13/18 22:30 | 1 |
| Manganese | 0.30 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:30 | 1 |
| Nickel | 0.015 | J | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:30 | 1 |
| Potassium | 1.3 | J | 2.5 | 0.50 | mg/L | | 06/12/18 16:35 | 06/13/18 22:30 | 1 |
| Selenium | <0.020 | | 0.050 | 0.020 | mg/L | | 06/12/18 16:35 | 06/13/18 22:30 | 1 |
| Silver | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:30 | 1 |
| Vanadium | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:30 | 1 |
| Zinc | 0.073 | J | 0.50 | 0.020 | mg/L | | 06/12/18 16:35 | 06/13/18 22:30 | 1 |

Method: 6010B - SPLP Metals - SPLP East

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Lead | 0.32 | | 0.0075 | 0.0075 | mg/L | | 06/12/18 15:23 | 06/14/18 00:39 | 1 |
| Manganese | 0.78 | | 0.025 | 0.010 | mg/L | | 06/12/18 15:23 | 06/14/18 00:39 | 1 |

Method: 6020A - Metals (ICP/MS) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|---------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Antimony | <0.0060 | | 0.0060 | 0.0060 | mg/L | | 06/12/18 16:35 | 06/13/18 13:57 | 1 |
| Thallium | <0.0020 | | 0.0020 | 0.0020 | mg/L | | 06/12/18 16:35 | 06/13/18 13:57 | 1 |

Method: 7470A - TCLP Mercury - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|---------|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | 0.00020 | mg/L | | 06/12/18 14:05 | 06/14/18 07:34 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Mercury | 0.083 | B | 0.018 | 0.0060 | mg/Kg | ☼ | 06/08/18 16:15 | 06/12/18 17:12 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Cyanide, Total | <0.19 | | 0.55 | 0.19 | mg/Kg | ☼ | 06/15/18 18:05 | 06/16/18 14:02 | 1 |
| pH | 7.6 | | 0.20 | 0.20 | SU | | | 06/12/18 14:46 | 1 |

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Qualifiers

GC/MS VOA

| Qualifier | Qualifier Description |
|-----------|----------------------------------------------------------------------------------------------------------------|
| * | LCS or LCSD is outside acceptance limits. |
| * | RPD of the LCS and LCSD exceeds the control limits |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

GC/MS Semi VOA

| Qualifier | Qualifier Description |
|-----------|----------------------------------------------------------------------------------------------------------------|
| * | LCS or LCSD is outside acceptance limits. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

Metals

| Qualifier | Qualifier Description |
|-----------|----------------------------------------------------------------------------------------------------------------|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| B | Compound was found in the blank and sample. |

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 |
| CFL | Contains Free Liquid |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| 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) |

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

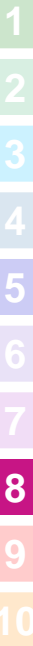
Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | EPA Region | Identification Number | Expiration Date |
|-----------|---------|------------|-----------------------|-----------------|
| Illinois | NELAP | 5 | 100201 | 04-30-19 |

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

| Analysis Method | Prep Method | Matrix | Analyte |
|-----------------|-------------|--------|----------------------------|
| 6020A | 3010A | Solid | Antimony |
| 6020A | 3010A | Solid | Thallium |
| 8260B | 5035 | Solid | 1,3-Dichloropropene, Total |
| Moisture | | Solid | Percent Moisture |
| Moisture | | Solid | Percent Solids |



Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-146450-1

Login Number: 146450

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

| Question | Answer | Comment |
|-----------------------------------------------------------------------------------------------------|--------|-----------------|
| Radioactivity wasn't checked or is \leq 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 | 2.3,5.4,5.1,5.6 |
| 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. | False | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | 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 <math><6\text{mm}</math> (1/4"). | False | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |



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: 500-146393-1

Client Project/Site: IDOT - Morton Grove - WO 049

For:

Terracon Consulting Eng & Scientists

192 Exchange Blvd

Glendale Heights, Illinois 60139

Attn: Mr. Matthew Weiss



Authorized for release by:

6/18/2018 4:26:03 PM

Richard Wright, Senior Project Manager

(708)534-5200

richard.wright@testamericainc.com

LINKS

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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: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146393-1

Job ID: 500-146393-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-146393-1

Comments

No additional comments.

Receipt

The samples were received on 6/4/2018 6:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.8° C and 4.3° C.

GC/MS VOA

Method(s) 8260B: Internal standard responses were outside of acceptance limits for the following samples : 2409V-1-B07 (10-13) (500-146393-9). The samples show evidence of matrix interference and were re-analyzed with confirming results. The best data were reported

Method(s) 8260B: The following samples detected Acetone above the reporting limit: 2409V-1-G01 (500-146393-1). The method blank 437055 associated with the samples did not detect Acetone. Since Acetone is a known lab contaminant, results below 3X the reporting limit should be suspected lab contamination. The results have been flagged with a "cn" flag to denote the possible lab contamination.

Method(s) 8260B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch 436857 recovered outside control limits for the following analytes: Acetone.

Method(s) 8260B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch 436543 recovered outside control limits for the following analytes: Bromomethane,

Method(s) 8260B: The following analyte recovered outside control limits for the LCS/LCSD associated with batches 436543 and 436857: Bromomethane. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for 436543 recovered outside control limits for the following analytes: 2-Hexanone, Methyl isobutyl ketone, 1,1,2,2-Tetrachloroethane, Chloroethane, Vinyl Chloride, and Chloromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: The following samples contained one acid surrogate and/or one base surrogate outside acceptance limits: 2409V-1-G01 (500-146393-1) and (MB 500-435493/1-A). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method(s) 6020A: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following sample: 2409V-1-G01 (500-146393-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146393-1

Client Sample ID: 2409V-1-G01

Lab Sample ID: 500-146393-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------------------------|---------|-----------|---------|----------|------|---------|---|--------|----------------------|
| Acetone | 0.0083 | cn | 0.0050 | 0.0017 | mg/L | 1 | | 8260B | Total/NA |
| Toluene | 0.00031 | J | 0.00050 | 0.00015 | mg/L | 1 | | 8260B | Total/NA |
| Bis(2-ethylhexyl) phthalate | 0.0040 | J | 0.0079 | 0.0013 | mg/L | 1 | | 8270D | Total/NA |
| Antimony | 0.0028 | J | 0.0030 | 0.0013 | mg/L | 1 | | 6020A | Total Recoverable |
| Arsenic | 0.084 | | 0.0010 | 0.00023 | mg/L | 1 | | 6020A | Total Recoverable |
| Barium | 0.61 | | 0.013 | 0.0037 | mg/L | 5 | | 6020A | Total Recoverable |
| Cadmium | 0.0067 | | 0.00050 | 0.00017 | mg/L | 1 | | 6020A | Total Recoverable |
| Calcium | 630 | | 2.0 | 0.44 | mg/L | 10 | | 6020A | Total Recoverable |
| Chromium | 0.77 | | 0.050 | 0.011 | mg/L | 10 | | 6020A | Total Recoverable |
| Cobalt | 0.18 | | 0.010 | 0.0040 | mg/L | 10 | | 6020A | Total Recoverable |
| Copper | 0.36 | B | 0.0020 | 0.00050 | mg/L | 1 | | 6020A | Total Recoverable |
| Iron | 220 | | 1.0 | 0.47 | mg/L | 10 | | 6020A | Total Recoverable |
| Lead | 0.13 | | 0.00050 | 0.00019 | mg/L | 1 | | 6020A | Total Recoverable |
| Magnesium | 270 | | 2.0 | 0.49 | mg/L | 10 | | 6020A | Total Recoverable |
| Manganese | 11 | | 0.025 | 0.0079 | mg/L | 10 | | 6020A | Total Recoverable |
| Nickel | 0.37 | | 0.020 | 0.0063 | mg/L | 10 | | 6020A | Total Recoverable |
| Potassium | 14 | | 5.0 | 1.1 | mg/L | 10 | | 6020A | Total Recoverable |
| Selenium | 0.0095 | | 0.0025 | 0.00098 | mg/L | 1 | | 6020A | Total Recoverable |
| Silver | 0.00021 | J | 0.00050 | 0.00012 | mg/L | 1 | | 6020A | Total Recoverable |
| Sodium | 13 | | 2.0 | 0.77 | mg/L | 10 | | 6020A | Total Recoverable |
| Vanadium | 0.20 | | 0.050 | 0.022 | mg/L | 10 | | 6020A | Total Recoverable |
| Zinc | 0.78 | | 0.020 | 0.0069 | mg/L | 1 | | 6020A | Total Recoverable |
| Mercury | 0.00028 | | 0.00020 | 0.000098 | mg/L | 1 | | 7470A | Total/NA |

Client Sample ID: 2409V-1-B09 (0-5)

Lab Sample ID: 500-146393-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|----------------------|--------|-----------|-------|--------|-------|---------|---|--------|-----------|
| Acenaphthene | 0.016 | J | 0.035 | 0.0064 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Acenaphthylene | 0.012 | J | 0.035 | 0.0047 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Anthracene | 0.061 | | 0.035 | 0.0060 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[a]anthracene | 0.27 | | 0.035 | 0.0048 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[a]pyrene | 0.29 | | 0.035 | 0.0069 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[b]fluoranthene | 0.41 | | 0.035 | 0.0077 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[g,h,i]perylene | 0.11 | | 0.035 | 0.012 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[k]fluoranthene | 0.13 | | 0.035 | 0.011 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Carbazole | 0.14 | J | 0.18 | 0.089 | mg/Kg | 1 | ☼ | 8270D | Total/NA |

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146393-1

Client Sample ID: 2409V-1-B09 (0-5) (Continued)

Lab Sample ID: 500-146393-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|--------|--------|-------|---------|---|--------|-----------|
| Chrysene | 0.30 | | 0.035 | 0.0097 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Dibenz(a,h)anthracene | 0.035 | | 0.035 | 0.0069 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Fluoranthene | 0.55 | | 0.035 | 0.0066 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Fluorene | 0.015 | J | 0.035 | 0.0050 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Indeno[1,2,3-cd]pyrene | 0.10 | | 0.035 | 0.0093 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| 2-Methylnaphthalene | 0.041 | J | 0.072 | 0.0066 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Phenanthrene | 0.25 | | 0.035 | 0.0050 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Pyrene | 0.45 | | 0.035 | 0.0071 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Antimony | 0.32 | J F1 | 1.1 | 0.21 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Arsenic | 2.8 | | 0.53 | 0.18 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Barium | 33 | F2 F1 | 0.53 | 0.060 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Beryllium | 0.42 | | 0.21 | 0.050 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Cadmium | 0.34 | B | 0.11 | 0.019 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Chromium | 10 | | 0.53 | 0.26 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Cobalt | 3.7 | | 0.27 | 0.070 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Copper | 15 | | 0.53 | 0.15 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Iron | 8500 | | 11 | 5.5 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Lead | 98 | | 0.27 | 0.12 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Magnesium | 45000 | | 5.3 | 2.6 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Calcium | 110000 | B F2 | 110 | 18 | mg/Kg | 10 | ☼ | 6010B | Total/NA |
| Manganese | 230 | | 0.53 | 0.077 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Nickel | 9.5 | | 0.53 | 0.15 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Selenium | 0.43 | J | 0.53 | 0.31 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Silver | 0.12 | J | 0.27 | 0.068 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Vanadium | 14 | | 0.27 | 0.063 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Zinc | 57 | F1 | 1.1 | 0.47 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Potassium | 790 | F1 | 27 | 9.4 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Sodium | 690 | | 53 | 7.9 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Barium | 0.37 | J | 0.50 | 0.050 | mg/L | 1 | | 6010B | TCLP |
| Cadmium | 0.0047 | J | 0.0050 | 0.0020 | mg/L | 1 | | 6010B | TCLP |
| Calcium | 410 | | 5.0 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Lead | 0.011 | | 0.0075 | 0.0075 | mg/L | 1 | | 6010B | TCLP |
| Magnesium | 120 | | 2.5 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Manganese | 0.90 | | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP |
| Nickel | 0.039 | B | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP |
| Potassium | 2.4 | J | 2.5 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Zinc | 0.072 | J | 0.50 | 0.020 | mg/L | 1 | | 6010B | TCLP |
| Lead | 0.23 | | 0.0075 | 0.0075 | mg/L | 1 | | 6010B | SPLP East |
| Manganese | 0.39 | | 0.025 | 0.010 | mg/L | 1 | | 6010B | SPLP East |
| Mercury | 0.021 | | 0.017 | 0.0058 | mg/Kg | 1 | ☼ | 7471B | Total/NA |
| pH | 8.9 | | 0.20 | 0.20 | SU | 1 | | 9045D | Total/NA |

Client Sample ID: 2409V-1-B09 (5-8)

Lab Sample ID: 500-146393-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|----------|--------|-----------|-------|--------|-------|---------|---|--------|-----------|
| Acetone | 0.022 | | 0.014 | 0.0063 | mg/Kg | 1 | ☼ | 8260B | Total/NA |
| Chrysene | 0.010 | J | 0.036 | 0.010 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Pyrene | 0.013 | J | 0.036 | 0.0073 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Arsenic | 5.1 | | 0.56 | 0.19 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Barium | 27 | | 0.56 | 0.064 | mg/Kg | 1 | ☼ | 6010B | Total/NA |

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146393-1

Client Sample ID: 2409V-1-B09 (5-8) (Continued)

Lab Sample ID: 500-146393-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------|--------|-----------|--------|--------|-------|---------|---|--------|-----------|
| Beryllium | 0.66 | | 0.22 | 0.052 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Cadmium | 0.23 | B | 0.11 | 0.020 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Chromium | 14 | | 0.56 | 0.28 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Cobalt | 9.5 | | 0.28 | 0.073 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Copper | 25 | | 0.56 | 0.16 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Iron | 17000 | | 11 | 5.8 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Lead | 14 | | 0.28 | 0.13 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Magnesium | 31000 | | 5.6 | 2.8 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Calcium | 80000 | B | 110 | 19 | mg/Kg | 10 | ☼ | 6010B | Total/NA |
| Manganese | 350 | | 0.56 | 0.081 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Nickel | 30 | | 0.56 | 0.16 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Selenium | 0.88 | | 0.56 | 0.33 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Silver | 0.19 | J | 0.28 | 0.072 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Thallium | 0.38 | J | 0.56 | 0.28 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Vanadium | 16 | | 0.28 | 0.066 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Zinc | 56 | | 1.1 | 0.49 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Potassium | 2200 | | 28 | 9.9 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Sodium | 270 | | 56 | 8.3 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Barium | 0.42 | J | 0.50 | 0.050 | mg/L | 1 | | 6010B | TCLP |
| Cadmium | 0.0044 | J | 0.0050 | 0.0020 | mg/L | 1 | | 6010B | TCLP |
| Calcium | 490 | | 5.0 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Cobalt | 0.016 | J | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP |
| Magnesium | 120 | | 2.5 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Manganese | 2.6 | | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP |
| Nickel | 0.023 | J B | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP |
| Potassium | 2.7 | | 2.5 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Manganese | 0.20 | | 0.025 | 0.010 | mg/L | 1 | | 6010B | SPLP East |
| Mercury | 0.017 | J | 0.018 | 0.0059 | mg/Kg | 1 | ☼ | 7471B | Total/NA |
| pH | 8.4 | | 0.20 | 0.20 | SU | 1 | | 9045D | Total/NA |

Client Sample ID: 2409V-1-B08 (0-5)

Lab Sample ID: 500-146393-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-------|--------|-------|---------|---|--------|-----------|
| Benzo[a]anthracene | 0.018 | J | 0.039 | 0.0053 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[a]pyrene | 0.018 | J | 0.039 | 0.0076 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[g,h,i]perylene | 0.013 | J | 0.039 | 0.013 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Chrysene | 0.019 | J | 0.039 | 0.011 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Fluoranthene | 0.027 | J | 0.039 | 0.0072 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Indeno[1,2,3-cd]pyrene | 0.011 | J | 0.039 | 0.010 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Phenanthrene | 0.012 | J | 0.039 | 0.0054 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Pyrene | 0.029 | J | 0.039 | 0.0078 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Arsenic | 6.6 | | 0.56 | 0.19 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Barium | 52 | | 0.56 | 0.064 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Beryllium | 0.63 | | 0.23 | 0.053 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Cadmium | 0.22 | B | 0.11 | 0.020 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Chromium | 14 | | 0.56 | 0.28 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Cobalt | 7.4 | | 0.28 | 0.074 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Copper | 16 | | 0.56 | 0.16 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Iron | 15000 | | 11 | 5.9 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Lead | 28 | | 0.28 | 0.13 | mg/Kg | 1 | ☼ | 6010B | Total/NA |

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146393-1

Client Sample ID: 2409V-1-B08 (0-5) (Continued)

Lab Sample ID: 500-146393-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------|--------|-----------|-------|--------|-------|---------|---|--------|-----------|
| Magnesium | 3400 | | 5.6 | 2.8 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Calcium | 3700 | B | 11 | 1.9 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Manganese | 220 | | 0.56 | 0.082 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Nickel | 20 | | 0.56 | 0.16 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Selenium | 1.1 | | 0.56 | 0.33 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Silver | 0.25 | J | 0.28 | 0.073 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Vanadium | 20 | | 0.28 | 0.066 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Zinc | 57 | | 1.1 | 0.49 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Potassium | 1000 | | 28 | 10 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Sodium | 100 | | 56 | 8.3 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Barium | 0.18 | J | 0.50 | 0.050 | mg/L | 1 | | 6010B | TCLP |
| Calcium | 74 | | 5.0 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Iron | 0.52 | | 0.40 | 0.20 | mg/L | 1 | | 6010B | TCLP |
| Magnesium | 22 | | 2.5 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Manganese | 0.061 | | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP |
| Nickel | 0.018 | J B | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP |
| Potassium | 1.3 | J | 2.5 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Mercury | 0.036 | | 0.019 | 0.0063 | mg/Kg | 1 | ☼ | 7471B | Total/NA |
| pH | 7.8 | | 0.20 | 0.20 | SU | 1 | | 9045D | Total/NA |

Client Sample ID: 2409V-1-B08 (0-5) Dup

Lab Sample ID: 500-146393-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-------|--------|-------|---------|---|--------|-----------|
| Benzo[a]anthracene | 0.028 | J | 0.040 | 0.0054 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[a]pyrene | 0.035 | J | 0.040 | 0.0078 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[b]fluoranthene | 0.041 | | 0.040 | 0.0087 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[g,h,i]perylene | 0.018 | J | 0.040 | 0.013 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[k]fluoranthene | 0.012 | J | 0.040 | 0.012 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Carbazole | 0.12 | J | 0.20 | 0.10 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Chrysene | 0.033 | J | 0.040 | 0.011 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Fluoranthene | 0.048 | | 0.040 | 0.0075 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Indeno[1,2,3-cd]pyrene | 0.017 | J | 0.040 | 0.010 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Phenanthrene | 0.021 | J | 0.040 | 0.0056 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Pyrene | 0.049 | | 0.040 | 0.0080 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Arsenic | 6.9 | | 0.57 | 0.19 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Barium | 74 | | 0.57 | 0.065 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Beryllium | 0.72 | | 0.23 | 0.053 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Cadmium | 0.28 | B | 0.11 | 0.020 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Chromium | 16 | | 0.57 | 0.28 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Cobalt | 12 | | 0.28 | 0.074 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Copper | 18 | | 0.57 | 0.16 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Iron | 18000 | | 11 | 5.9 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Lead | 25 | | 0.28 | 0.13 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Magnesium | 4100 | | 5.7 | 2.8 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Calcium | 3800 | B | 11 | 1.9 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Manganese | 530 | | 0.57 | 0.082 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Nickel | 29 | | 0.57 | 0.17 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Selenium | 1.3 | | 0.57 | 0.33 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Silver | 0.29 | | 0.28 | 0.073 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Vanadium | 23 | | 0.28 | 0.067 | mg/Kg | 1 | ☼ | 6010B | Total/NA |

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146393-1

Client Sample ID: 2409V-1-B08 (0-5) Dup (Continued)

Lab Sample ID: 500-146393-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------|--------|-----------|--------|--------|-------|---------|---|--------|-----------|
| Zinc | 66 | | 1.1 | 0.50 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Potassium | 1200 | | 28 | 10 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Sodium | 110 | | 57 | 8.4 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Barium | 0.19 | J | 0.50 | 0.050 | mg/L | 1 | | 6010B | TCLP |
| Cadmium | 0.0020 | J | 0.0050 | 0.0020 | mg/L | 1 | | 6010B | TCLP |
| Calcium | 78 | | 5.0 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Iron | 0.63 | | 0.40 | 0.20 | mg/L | 1 | | 6010B | TCLP |
| Magnesium | 24 | | 2.5 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Manganese | 0.067 | | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP |
| Nickel | 0.033 | B | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP |
| Potassium | 1.4 | J | 2.5 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Mercury | 0.041 | | 0.020 | 0.0065 | mg/Kg | 1 | ☼ | 7471B | Total/NA |
| pH | 7.5 | | 0.20 | 0.20 | SU | 1 | | 9045D | Total/NA |

Client Sample ID: 2409V-1-B08 (5-8)

Lab Sample ID: 500-146393-6

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------------|--------|-----------|--------|--------|-------|---------|---|--------|-----------|
| Acetone | 0.013 | J | 0.014 | 0.0061 | mg/Kg | 1 | ☼ | 8260B | Total/NA |
| Chrysene | 0.018 | J | 0.036 | 0.0098 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| 2-Methylnaphthalene | 0.033 | J | 0.072 | 0.0066 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Phenanthrene | 0.030 | J | 0.036 | 0.0050 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Arsenic | 6.8 | | 0.56 | 0.19 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Barium | 31 | | 0.56 | 0.064 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Beryllium | 0.58 | | 0.22 | 0.052 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Cadmium | 0.19 | B | 0.11 | 0.020 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Chromium | 12 | | 0.56 | 0.28 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Cobalt | 11 | | 0.28 | 0.074 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Copper | 23 | | 0.56 | 0.16 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Iron | 16000 | | 11 | 5.8 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Lead | 21 | | 0.28 | 0.13 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Magnesium | 29000 | | 5.6 | 2.8 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Calcium | 80000 | B | 110 | 19 | mg/Kg | 10 | ☼ | 6010B | Total/NA |
| Manganese | 390 | | 0.56 | 0.081 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Nickel | 27 | | 0.56 | 0.16 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Selenium | 0.71 | | 0.56 | 0.33 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Silver | 0.18 | J | 0.28 | 0.072 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Vanadium | 14 | | 0.28 | 0.066 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Zinc | 40 | | 1.1 | 0.49 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Potassium | 2000 | | 28 | 9.9 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Sodium | 150 | | 56 | 8.3 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Barium | 0.56 | | 0.50 | 0.050 | mg/L | 1 | | 6010B | TCLP |
| Cadmium | 0.0022 | J | 0.0050 | 0.0020 | mg/L | 1 | | 6010B | TCLP |
| Calcium | 540 | | 5.0 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Cobalt | 0.034 | | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP |
| Copper | 0.014 | J | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP |
| Magnesium | 42 | | 2.5 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Manganese | 3.3 | | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP |
| Nickel | 0.062 | B | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP |
| Potassium | 4.6 | | 2.5 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Manganese | 0.066 | | 0.025 | 0.010 | mg/L | 1 | | 6010B | SPLP East |

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146393-1

Client Sample ID: 2409V-1-B08 (5-8) (Continued)

Lab Sample ID: 500-146393-6

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|-------|--------|-------|---------|---|--------|-----------|
| Mercury | 0.018 | | 0.017 | 0.0058 | mg/Kg | 1 | ☼ | 7471B | Total/NA |
| pH | 7.9 | | 0.20 | 0.20 | SU | 1 | | 9045D | Total/NA |

Client Sample ID: 2409V-1-B07 (0-5)

Lab Sample ID: 500-146393-7

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------|--------|-----------|--------|--------|-------|---------|---|--------|-----------|
| Acetone | 0.012 | J | 0.016 | 0.0069 | mg/Kg | 1 | ☼ | 8260B | Total/NA |
| Arsenic | 4.0 | | 0.55 | 0.19 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Barium | 52 | | 0.55 | 0.063 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Beryllium | 0.64 | | 0.22 | 0.052 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Cadmium | 0.14 | B | 0.11 | 0.020 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Chromium | 15 | | 0.55 | 0.27 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Cobalt | 7.1 | | 0.28 | 0.073 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Copper | 17 | | 0.55 | 0.15 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Iron | 18000 | | 11 | 5.8 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Lead | 12 | | 0.28 | 0.13 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Magnesium | 4200 | | 5.5 | 2.7 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Calcium | 3600 | B | 11 | 1.9 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Manganese | 190 | | 0.55 | 0.080 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Nickel | 21 | | 0.55 | 0.16 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Selenium | 0.97 | | 0.55 | 0.33 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Silver | 0.23 | J | 0.28 | 0.071 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Vanadium | 21 | | 0.28 | 0.065 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Zinc | 54 | | 1.1 | 0.49 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Potassium | 910 | | 28 | 9.8 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Sodium | 410 | | 55 | 8.2 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Barium | 0.21 | J | 0.50 | 0.050 | mg/L | 1 | | 6010B | TCLP |
| Cadmium | 0.0020 | J | 0.0050 | 0.0020 | mg/L | 1 | | 6010B | TCLP |
| Calcium | 100 | | 5.0 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Iron | 0.23 | J | 0.40 | 0.20 | mg/L | 1 | | 6010B | TCLP |
| Magnesium | 43 | | 2.5 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Manganese | 0.21 | | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP |
| Nickel | 0.020 | J B | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP |
| Potassium | 0.71 | J | 2.5 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Manganese | 0.25 | | 0.025 | 0.010 | mg/L | 1 | | 6010B | SPLP East |
| Mercury | 0.026 | | 0.018 | 0.0061 | mg/Kg | 1 | ☼ | 7471B | Total/NA |
| pH | 8.3 | | 0.20 | 0.20 | SU | 1 | | 9045D | Total/NA |

Client Sample ID: 2409V-1-B07 (5-10)

Lab Sample ID: 500-146393-8

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------|--------|-----------|-------|--------|-------|---------|---|--------|-----------|
| Acetone | 0.011 | J | 0.013 | 0.0056 | mg/Kg | 1 | ☼ | 8260B | Total/NA |
| Phenanthrene | 0.019 | J | 0.037 | 0.0052 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Arsenic | 5.7 | | 0.53 | 0.18 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Barium | 32 | | 0.53 | 0.060 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Beryllium | 0.61 | | 0.21 | 0.050 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Cadmium | 0.19 | B | 0.11 | 0.019 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Chromium | 13 | | 0.53 | 0.26 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Cobalt | 10 | | 0.27 | 0.069 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Copper | 24 | | 0.53 | 0.15 | mg/Kg | 1 | ☼ | 6010B | Total/NA |

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146393-1

Client Sample ID: 2409V-1-B07 (5-10) (Continued)

Lab Sample ID: 500-146393-8

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------|--------|-----------|-------|--------|-------|---------|---|--------|-----------|
| Iron | 16000 | | 11 | 5.5 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Lead | 11 | | 0.27 | 0.12 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Magnesium | 28000 | | 5.3 | 2.6 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Calcium | 82000 | B | 110 | 18 | mg/Kg | 10 | ☼ | 6010B | Total/NA |
| Manganese | 380 | | 0.53 | 0.077 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Nickel | 27 | | 0.53 | 0.15 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Selenium | 0.91 | | 0.53 | 0.31 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Silver | 0.18 | J | 0.27 | 0.068 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Vanadium | 15 | | 0.27 | 0.063 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Zinc | 46 | | 1.1 | 0.47 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Potassium | 2200 | | 27 | 9.4 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Sodium | 140 | | 53 | 7.8 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Barium | 0.58 | | 0.50 | 0.050 | mg/L | 1 | | 6010B | TCLP |
| Calcium | 570 | | 5.0 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Cobalt | 0.026 | | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP |
| Copper | 0.014 | J | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP |
| Magnesium | 45 | | 2.5 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Manganese | 2.6 | | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP |
| Nickel | 0.054 | B | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP |
| Potassium | 4.8 | | 2.5 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Manganese | 0.049 | | 0.025 | 0.010 | mg/L | 1 | | 6010B | SPLP East |
| Mercury | 0.016 | J | 0.018 | 0.0060 | mg/Kg | 1 | ☼ | 7471B | Total/NA |
| pH | 7.8 | | 0.20 | 0.20 | SU | 1 | | 9045D | Total/NA |

Client Sample ID: 2409V-1-B07 (10-13)

Lab Sample ID: 500-146393-9

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------|--------|-----------|-------|--------|-------|---------|---|--------|-----------|
| Acetone | 0.021 | * | 0.017 | 0.0074 | mg/Kg | 1 | ☼ | 8260B | Total/NA |
| Phenanthrene | 0.037 | | 0.036 | 0.0051 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Pyrene | 0.010 | J | 0.036 | 0.0073 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Arsenic | 6.1 | | 0.53 | 0.18 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Barium | 26 | | 0.53 | 0.060 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Beryllium | 0.57 | | 0.21 | 0.049 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Cadmium | 0.19 | B | 0.11 | 0.019 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Chromium | 11 | | 0.53 | 0.26 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Cobalt | 9.7 | | 0.26 | 0.069 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Copper | 24 | | 0.53 | 0.15 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Iron | 15000 | | 11 | 5.5 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Lead | 10 | | 0.26 | 0.12 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Magnesium | 41000 | | 5.3 | 2.6 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Calcium | 110000 | B | 110 | 18 | mg/Kg | 10 | ☼ | 6010B | Total/NA |
| Manganese | 430 | | 0.53 | 0.077 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Nickel | 24 | | 0.53 | 0.15 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Selenium | 1.1 | | 0.53 | 0.31 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Silver | 0.18 | J | 0.26 | 0.068 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Vanadium | 13 | | 0.26 | 0.062 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Zinc | 41 | | 1.1 | 0.46 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Potassium | 1900 | | 26 | 9.4 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Sodium | 210 | | 53 | 7.8 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Barium | 0.54 | | 0.50 | 0.050 | mg/L | 1 | | 6010B | TCLP |

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146393-1

Client Sample ID: 2409V-1-B07 (10-13) (Continued)

Lab Sample ID: 500-146393-9

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------|--------|-----------|--------|--------|-------|---------|---|--------|-----------|
| Cadmium | 0.0021 | J | 0.0050 | 0.0020 | mg/L | 1 | | 6010B | TCLP |
| Calcium | 540 | | 5.0 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Cobalt | 0.030 | | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP |
| Copper | 0.015 | J | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP |
| Magnesium | 55 | | 2.5 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Manganese | 2.3 | | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP |
| Nickel | 0.073 | B | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP |
| Potassium | 4.8 | | 2.5 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Manganese | 0.043 | | 0.025 | 0.010 | mg/L | 1 | | 6010B | SPLP East |
| Mercury | 0.018 | | 0.018 | 0.0060 | mg/Kg | 1 | ☼ | 7471B | Total/NA |
| pH | 8.0 | | 0.20 | 0.20 | SU | 1 | | 9045D | Total/NA |

Client Sample ID: 2409V-1-B06 (0-3)

Lab Sample ID: 500-146393-10

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-------|--------|-------|---------|---|--------|-----------|
| Acetone | 0.014 | J | 0.015 | 0.0065 | mg/Kg | 1 | ☼ | 8260B | Total/NA |
| Acenaphthene | 0.0090 | J | 0.037 | 0.0067 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Acenaphthylene | 0.013 | J | 0.037 | 0.0049 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Anthracene | 0.040 | | 0.037 | 0.0062 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[a]anthracene | 0.25 | | 0.037 | 0.0050 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[a]pyrene | 0.27 | | 0.037 | 0.0072 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[b]fluoranthene | 0.39 | | 0.037 | 0.0080 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[g,h,i]perylene | 0.14 | | 0.037 | 0.012 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[k]fluoranthene | 0.16 | | 0.037 | 0.011 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Carbazole | 0.14 | J | 0.19 | 0.093 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Chrysene | 0.30 | | 0.037 | 0.010 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Dibenz(a,h)anthracene | 0.045 | | 0.037 | 0.0072 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Fluoranthene | 0.44 | | 0.037 | 0.0069 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Fluorene | 0.0091 | J | 0.037 | 0.0052 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Indeno[1,2,3-cd]pyrene | 0.14 | | 0.037 | 0.0097 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| 2-Methylnaphthalene | 0.011 | J | 0.075 | 0.0069 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Phenanthrene | 0.16 | | 0.037 | 0.0052 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Pyrene | 0.40 | | 0.037 | 0.0074 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Arsenic | 3.9 | | 0.53 | 0.18 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Barium | 45 | | 0.53 | 0.061 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Beryllium | 0.51 | | 0.21 | 0.050 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Cadmium | 0.29 | B | 0.11 | 0.019 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Chromium | 12 | | 0.53 | 0.26 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Cobalt | 5.6 | | 0.27 | 0.070 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Copper | 20 | | 0.53 | 0.15 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Iron | 12000 | | 11 | 5.5 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Lead | 160 | | 0.27 | 0.12 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Magnesium | 5700 | | 5.3 | 2.6 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Calcium | 8700 | B | 11 | 1.8 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Manganese | 180 | | 0.53 | 0.077 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Nickel | 15 | | 0.53 | 0.16 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Selenium | 1.0 | | 0.53 | 0.31 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Silver | 0.17 | J | 0.27 | 0.069 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Vanadium | 15 | | 0.27 | 0.063 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Zinc | 62 | | 1.1 | 0.47 | mg/Kg | 1 | ☼ | 6010B | Total/NA |

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146393-1

Client Sample ID: 2409V-1-B06 (0-3) (Continued)

Lab Sample ID: 500-146393-10

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------|--------|-----------|--------|--------|-------|---------|---|--------|-----------|
| Potassium | 830 | | 27 | 9.4 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Sodium | 820 | | 53 | 7.9 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Barium | 0.29 | J | 0.50 | 0.050 | mg/L | 1 | | 6010B | TCLP |
| Cadmium | 0.0037 | J | 0.0050 | 0.0020 | mg/L | 1 | | 6010B | TCLP |
| Calcium | 180 | | 5.0 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Lead | 0.064 | | 0.0075 | 0.0075 | mg/L | 1 | | 6010B | TCLP |
| Magnesium | 76 | | 2.5 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Manganese | 0.62 | | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP |
| Nickel | 0.016 | J B | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP |
| Potassium | 0.71 | J | 2.5 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Zinc | 0.032 | J | 0.50 | 0.020 | mg/L | 1 | | 6010B | TCLP |
| Lead | 0.45 | | 0.0075 | 0.0075 | mg/L | 1 | | 6010B | SPLP East |
| Manganese | 0.55 | | 0.025 | 0.010 | mg/L | 1 | | 6010B | SPLP East |
| Mercury | 0.032 | | 0.018 | 0.0060 | mg/Kg | 1 | ☼ | 7471B | Total/NA |
| pH | 8.0 | | 0.20 | 0.20 | SU | 1 | | 9045D | Total/NA |

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146393-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|-----------------------|--------|----------------|----------------|
| 500-146393-1 | 2409V-1-G01 | Water | 06/04/18 15:10 | 06/04/18 18:10 |
| 500-146393-2 | 2409V-1-B09 (0-5) | Solid | 06/04/18 10:45 | 06/04/18 18:10 |
| 500-146393-3 | 2409V-1-B09 (5-8) | Solid | 06/04/18 10:50 | 06/04/18 18:10 |
| 500-146393-4 | 2409V-1-B08 (0-5) | Solid | 06/04/18 11:35 | 06/04/18 18:10 |
| 500-146393-5 | 2409V-1-B08 (0-5) Dup | Solid | 06/04/18 11:40 | 06/04/18 18:10 |
| 500-146393-6 | 2409V-1-B08 (5-8) | Solid | 06/04/18 11:45 | 06/04/18 18:10 |
| 500-146393-7 | 2409V-1-B07 (0-5) | Solid | 06/04/18 14:20 | 06/04/18 18:10 |
| 500-146393-8 | 2409V-1-B07 (5-10) | Solid | 06/04/18 14:25 | 06/04/18 18:10 |
| 500-146393-9 | 2409V-1-B07 (10-13) | Solid | 06/04/18 14:30 | 06/04/18 18:10 |
| 500-146393-10 | 2409V-1-B06 (0-3) | Solid | 06/04/18 15:50 | 06/04/18 18:10 |



Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146393-1

Client Sample ID: 2409V-1-G01

Lab Sample ID: 500-146393-1

Date Collected: 06/04/18 15:10

Matrix: Water

Date Received: 06/04/18 18:10

Method: 8260B - VOC

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|----------------|-----------|---------|---------|------|---|----------|----------------|---------|
| Acetone | 0.0083 | cn | 0.0050 | 0.0017 | mg/L | | | 06/15/18 12:04 | 1 |
| Benzene | <0.00015 | | 0.00050 | 0.00015 | mg/L | | | 06/15/18 12:04 | 1 |
| Bromodichloromethane | <0.00037 | | 0.0010 | 0.00037 | mg/L | | | 06/15/18 12:04 | 1 |
| Bromoform | <0.00048 | | 0.0010 | 0.00048 | mg/L | | | 06/15/18 12:04 | 1 |
| Bromomethane | <0.00080 | | 0.0020 | 0.00080 | mg/L | | | 06/15/18 12:04 | 1 |
| Carbon disulfide | <0.00045 | | 0.0020 | 0.00045 | mg/L | | | 06/15/18 12:04 | 1 |
| Carbon tetrachloride | <0.00038 | | 0.0010 | 0.00038 | mg/L | | | 06/15/18 12:04 | 1 |
| Chlorobenzene | <0.00039 | | 0.0010 | 0.00039 | mg/L | | | 06/15/18 12:04 | 1 |
| Chloroethane | <0.00051 | | 0.0010 | 0.00051 | mg/L | | | 06/15/18 12:04 | 1 |
| Chloroform | <0.00037 | | 0.0020 | 0.00037 | mg/L | | | 06/15/18 12:04 | 1 |
| Chloromethane | <0.00032 | | 0.0010 | 0.00032 | mg/L | | | 06/15/18 12:04 | 1 |
| cis-1,2-Dichloroethene | <0.00041 | | 0.0010 | 0.00041 | mg/L | | | 06/15/18 12:04 | 1 |
| cis-1,3-Dichloropropene | <0.00042 | | 0.0010 | 0.00042 | mg/L | | | 06/15/18 12:04 | 1 |
| Dibromochloromethane | <0.00049 | | 0.0010 | 0.00049 | mg/L | | | 06/15/18 12:04 | 1 |
| 1,1-Dichloroethane | <0.00041 | | 0.0010 | 0.00041 | mg/L | | | 06/15/18 12:04 | 1 |
| 1,2-Dichloroethane | <0.00039 | | 0.0010 | 0.00039 | mg/L | | | 06/15/18 12:04 | 1 |
| 1,1-Dichloroethene | <0.00039 | | 0.0010 | 0.00039 | mg/L | | | 06/15/18 12:04 | 1 |
| 1,2-Dichloropropane | <0.00043 | | 0.0010 | 0.00043 | mg/L | | | 06/15/18 12:04 | 1 |
| 1,3-Dichloropropene, Total | <0.00042 | | 0.0010 | 0.00042 | mg/L | | | 06/15/18 12:04 | 1 |
| Ethylbenzene | <0.00018 | | 0.00050 | 0.00018 | mg/L | | | 06/15/18 12:04 | 1 |
| 2-Hexanone | <0.0016 | | 0.0050 | 0.0016 | mg/L | | | 06/15/18 12:04 | 1 |
| Methylene Chloride | <0.0016 | | 0.0050 | 0.0016 | mg/L | | | 06/15/18 12:04 | 1 |
| Methyl Ethyl Ketone | <0.0021 | | 0.0050 | 0.0021 | mg/L | | | 06/15/18 12:04 | 1 |
| methyl isobutyl ketone | <0.0022 | | 0.0050 | 0.0022 | mg/L | | | 06/15/18 12:04 | 1 |
| Methyl tert-butyl ether | <0.00039 | | 0.0010 | 0.00039 | mg/L | | | 06/15/18 12:04 | 1 |
| Styrene | <0.00039 | | 0.0010 | 0.00039 | mg/L | | | 06/15/18 12:04 | 1 |
| 1,1,2,2-Tetrachloroethane | <0.00040 | | 0.0010 | 0.00040 | mg/L | | | 06/15/18 12:04 | 1 |
| Tetrachloroethene | <0.00037 | | 0.0010 | 0.00037 | mg/L | | | 06/15/18 12:04 | 1 |
| Toluene | 0.00031 | J | 0.00050 | 0.00015 | mg/L | | | 06/15/18 12:04 | 1 |
| trans-1,2-Dichloroethene | <0.00035 | | 0.0010 | 0.00035 | mg/L | | | 06/15/18 12:04 | 1 |
| trans-1,3-Dichloropropene | <0.00036 | | 0.0010 | 0.00036 | mg/L | | | 06/15/18 12:04 | 1 |
| 1,1,1-Trichloroethane | <0.00038 | | 0.0010 | 0.00038 | mg/L | | | 06/15/18 12:04 | 1 |
| 1,1,2-Trichloroethane | <0.00035 | | 0.0010 | 0.00035 | mg/L | | | 06/15/18 12:04 | 1 |
| Trichloroethene | <0.00016 | | 0.00050 | 0.00016 | mg/L | | | 06/15/18 12:04 | 1 |
| Vinyl acetate | <0.00091 | | 0.0020 | 0.00091 | mg/L | | | 06/15/18 12:04 | 1 |
| Vinyl chloride | <0.00020 | | 0.0010 | 0.00020 | mg/L | | | 06/15/18 12:04 | 1 |
| Xylenes, Total | <0.00022 | | 0.0010 | 0.00022 | mg/L | | | 06/15/18 12:04 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 94 | | 72 - 124 | | 06/15/18 12:04 | 1 |
| Dibromofluoromethane | 99 | | 75 - 120 | | 06/15/18 12:04 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 90 | | 75 - 126 | | 06/15/18 12:04 | 1 |
| Toluene-d8 (Surr) | 96 | | 75 - 120 | | 06/15/18 12:04 | 1 |

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------|-----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Acenaphthene | <0.00024 | | 0.00079 | 0.00024 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| Acenaphthylene | <0.00021 | | 0.00079 | 0.00021 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| Anthracene | <0.00026 | | 0.00079 | 0.00026 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| Benzo[a]anthracene | <0.000045 | | 0.00013 | 0.000045 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146393-1

Client Sample ID: 2409V-1-G01

Lab Sample ID: 500-146393-1

Date Collected: 06/04/18 15:10

Matrix: Water

Date Received: 06/04/18 18:10

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|---------------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Benzo[a]pyrene | <0.000078 | | 0.00016 | 0.000078 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| Benzo[b]fluoranthene | <0.000064 | | 0.00016 | 0.000064 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| Benzo[g,h,i]perylene | <0.00030 | | 0.00079 | 0.00030 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| Benzo[k]fluoranthene | <0.000050 | | 0.00016 | 0.000050 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| Bis(2-chloroethoxy)methane | <0.00022 | | 0.0016 | 0.00022 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| Bis(2-chloroethyl)ether | <0.00023 | | 0.0016 | 0.00023 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| Bis(2-ethylhexyl) phthalate | 0.0040 | J | 0.0079 | 0.0013 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| 4-Bromophenyl phenyl ether | <0.00043 | | 0.0039 | 0.00043 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| Butyl benzyl phthalate | <0.00038 | | 0.0016 | 0.00038 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| Carbazole | <0.00028 | | 0.0039 | 0.00028 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| 4-Chloroaniline | <0.0016 | | 0.0079 | 0.0016 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| 4-Chloro-3-methylphenol | <0.0018 | | 0.0079 | 0.0018 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| 2-Chloronaphthalene | <0.00019 | | 0.0016 | 0.00019 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| 2-Chlorophenol | <0.00044 | | 0.0039 | 0.00044 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| 4-Chlorophenyl phenyl ether | <0.00050 | | 0.0039 | 0.00050 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| Chrysene | <0.000054 | | 0.00016 | 0.000054 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| Dibenz(a,h)anthracene | <0.000040 | | 0.00024 | 0.000040 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| Dibenzofuran | <0.00021 | | 0.0016 | 0.00021 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| 1,2-Dichlorobenzene | <0.00019 | | 0.0016 | 0.00019 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| 1,3-Dichlorobenzene | <0.00016 | | 0.0016 | 0.00016 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| 1,4-Dichlorobenzene | <0.00016 | | 0.0016 | 0.00016 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| 3,3'-Dichlorobenzidine | <0.0013 | | 0.0039 | 0.0013 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| 2,4-Dichlorophenol | <0.0020 | | 0.0079 | 0.0020 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| Diethyl phthalate | <0.00028 | | 0.0039 | 0.00028 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| 2,4-Dimethylphenol | <0.0014 | | 0.0079 | 0.0014 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| Dimethyl phthalate | <0.00025 | | 0.0039 | 0.00025 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| Di-n-butyl phthalate | <0.00058 | | 0.0039 | 0.00058 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| 4,6-Dinitro-2-methylphenol | <0.0046 | | 0.016 | 0.0046 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| 2,4-Dinitrophenol | <0.0068 | | 0.016 | 0.0068 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| 2,4-Dinitrotoluene | <0.00019 | | 0.00079 | 0.00019 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| 2,6-Dinitrotoluene | <0.000058 | | 0.00079 | 0.000058 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| Di-n-octyl phthalate | <0.00083 | | 0.0079 | 0.00083 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| Fluoranthene | <0.00036 | | 0.00079 | 0.00036 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| Fluorene | <0.00019 | | 0.00079 | 0.00019 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| Hexachlorobenzene | <0.000063 | | 0.00039 | 0.000063 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| Hexachlorobutadiene | <0.00041 | | 0.0039 | 0.00041 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| Hexachlorocyclopentadiene | <0.0050 | | 0.016 | 0.0050 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| Hexachloroethane | <0.00047 | | 0.0039 | 0.00047 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| Indeno[1,2,3-cd]pyrene | <0.000059 | | 0.00016 | 0.000059 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| Isophorone | <0.00030 | | 0.0016 | 0.00030 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| 2-Methylnaphthalene | <0.000051 | | 0.0016 | 0.000051 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| 2-Methylphenol | <0.00024 | | 0.0016 | 0.00024 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| 3 & 4 Methylphenol | <0.00035 | | 0.0016 | 0.00035 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| Naphthalene | <0.00024 | | 0.00079 | 0.00024 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| 2-Nitroaniline | <0.0010 | | 0.0039 | 0.0010 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| 3-Nitroaniline | <0.0014 | | 0.0079 | 0.0014 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| 4-Nitroaniline | <0.0013 | | 0.0079 | 0.0013 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| Nitrobenzene | <0.00035 | | 0.00079 | 0.00035 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| 2-Nitrophenol | <0.0020 | | 0.0079 | 0.0020 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146393-1

Client Sample ID: 2409V-1-G01

Lab Sample ID: 500-146393-1

Date Collected: 06/04/18 15:10

Matrix: Water

Date Received: 06/04/18 18:10

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|---------|------|---|----------------|----------------|---------|
| 4-Nitrophenol | <0.0059 | | 0.016 | 0.0059 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| N-Nitrosodi-n-propylamine | <0.00012 | | 0.00039 | 0.00012 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| N-Nitrosodiphenylamine | <0.00029 | | 0.0016 | 0.00029 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| 2,2'-oxybis[1-chloropropane] | <0.00030 | | 0.0016 | 0.00030 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| Pentachlorophenol | <0.0031 | | 0.016 | 0.0031 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| Phenanthrene | <0.00024 | | 0.00079 | 0.00024 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| Phenol | <0.00053 | | 0.0039 | 0.00053 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| Pyrene | <0.00034 | | 0.00079 | 0.00034 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| 1,2,4-Trichlorobenzene | <0.00019 | | 0.0016 | 0.00019 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| 2,4,5-Trichlorophenol | <0.0020 | | 0.0079 | 0.0020 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| 2,4,6-Trichlorophenol | <0.00056 | | 0.0039 | 0.00056 | mg/L | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2-Fluorobiphenyl | 108 | | 34 - 110 | | | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| 2-Fluorophenol | 88 | | 27 - 110 | | | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| Nitrobenzene-d5 | 105 | | 36 - 120 | | | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| Phenol-d5 | 58 | | 20 - 100 | | | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| Terphenyl-d14 | 161 | X | 40 - 145 | | | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |
| 2,4,6-Tribromophenol | 108 | | 40 - 145 | | | | 06/05/18 17:26 | 06/14/18 00:12 | 1 |

Method: 6020A - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|----------------|-----------|---------|---------|------|---|----------------|----------------|---------|
| Antimony | 0.0028 | J | 0.0030 | 0.0013 | mg/L | | 06/06/18 07:27 | 06/07/18 11:51 | 1 |
| Arsenic | 0.084 | | 0.0010 | 0.00023 | mg/L | | 06/06/18 07:27 | 06/07/18 11:51 | 1 |
| Barium | 0.61 | | 0.013 | 0.0037 | mg/L | | 06/06/18 07:27 | 06/07/18 16:45 | 5 |
| Beryllium | <0.0053 | | 0.010 | 0.0053 | mg/L | | 06/06/18 07:27 | 06/07/18 16:49 | 10 |
| Cadmium | 0.0067 | | 0.00050 | 0.00017 | mg/L | | 06/06/18 07:27 | 06/07/18 11:51 | 1 |
| Calcium | 630 | | 2.0 | 0.44 | mg/L | | 06/06/18 07:27 | 06/07/18 16:49 | 10 |
| Chromium | 0.77 | | 0.050 | 0.011 | mg/L | | 06/06/18 07:27 | 06/07/18 16:49 | 10 |
| Cobalt | 0.18 | | 0.010 | 0.0040 | mg/L | | 06/06/18 07:27 | 06/07/18 16:49 | 10 |
| Copper | 0.36 | B | 0.0020 | 0.00050 | mg/L | | 06/06/18 07:27 | 06/07/18 11:51 | 1 |
| Iron | 220 | | 1.0 | 0.47 | mg/L | | 06/06/18 07:27 | 06/07/18 16:49 | 10 |
| Lead | 0.13 | | 0.00050 | 0.00019 | mg/L | | 06/06/18 07:27 | 06/07/18 11:51 | 1 |
| Magnesium | 270 | | 2.0 | 0.49 | mg/L | | 06/06/18 07:27 | 06/07/18 16:49 | 10 |
| Manganese | 11 | | 0.025 | 0.0079 | mg/L | | 06/06/18 07:27 | 06/07/18 16:49 | 10 |
| Nickel | 0.37 | | 0.020 | 0.0063 | mg/L | | 06/06/18 07:27 | 06/07/18 16:49 | 10 |
| Potassium | 14 | | 5.0 | 1.1 | mg/L | | 06/06/18 07:27 | 06/07/18 16:49 | 10 |
| Selenium | 0.0095 | | 0.0025 | 0.00098 | mg/L | | 06/06/18 07:27 | 06/07/18 11:51 | 1 |
| Silver | 0.00021 | J | 0.00050 | 0.00012 | mg/L | | 06/06/18 07:27 | 06/07/18 11:51 | 1 |
| Sodium | 13 | | 2.0 | 0.77 | mg/L | | 06/06/18 07:27 | 06/07/18 16:49 | 10 |
| Thallium | <0.0029 | | 0.010 | 0.0029 | mg/L | | 06/06/18 07:27 | 06/07/18 16:45 | 5 |
| Vanadium | 0.20 | | 0.050 | 0.022 | mg/L | | 06/06/18 07:27 | 06/07/18 16:49 | 10 |
| Zinc | 0.78 | | 0.020 | 0.0069 | mg/L | | 06/06/18 07:27 | 06/07/18 11:51 | 1 |

Method: 7470A - Mercury

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|----------------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | 0.00028 | | 0.00020 | 0.000098 | mg/L | | 06/06/18 13:15 | 06/07/18 09:17 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146393-1

Client Sample ID: 2409V-1-G01

Lab Sample ID: 500-146393-1

Date Collected: 06/04/18 15:10

Matrix: Water

Date Received: 06/04/18 18:10

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|---------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Cyanide, Total | <0.0035 | | 0.010 | 0.0035 | mg/L | | 06/15/18 11:00 | 06/15/18 14:51 | 1 |

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146393-1

Client Sample ID: 2409V-1-B09 (0-5)

Lab Sample ID: 500-146393-2

Date Collected: 06/04/18 10:45

Matrix: Solid

Date Received: 06/04/18 18:10

Percent Solids: 89.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|-----------|--------|---------|-------|---|----------------|----------------|---------|
| Acetone | <0.0071 | | 0.016 | 0.0071 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:18 | 1 |
| Benzene | <0.00042 | | 0.0016 | 0.00042 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:18 | 1 |
| Bromodichloromethane | <0.00033 | | 0.0016 | 0.00033 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:18 | 1 |
| Bromoform | <0.00048 | | 0.0016 | 0.00048 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:18 | 1 |
| Bromomethane | <0.0015 | * | 0.0041 | 0.0015 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:18 | 1 |
| 2-Butanone (MEK) | <0.0018 | | 0.0041 | 0.0018 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:18 | 1 |
| Carbon disulfide | <0.00085 | | 0.0041 | 0.00085 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:18 | 1 |
| Carbon tetrachloride | <0.00048 | | 0.0016 | 0.00048 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:18 | 1 |
| Chlorobenzene | <0.00060 | | 0.0016 | 0.00060 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:18 | 1 |
| Chloroethane | <0.0012 | * | 0.0041 | 0.0012 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:18 | 1 |
| Chloroform | <0.00057 | | 0.0016 | 0.00057 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:18 | 1 |
| Chloromethane | <0.0016 | * | 0.0041 | 0.0016 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:18 | 1 |
| cis-1,2-Dichloroethene | <0.00046 | | 0.0016 | 0.00046 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:18 | 1 |
| cis-1,3-Dichloropropene | <0.00049 | | 0.0016 | 0.00049 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:18 | 1 |
| Dibromochloromethane | <0.00054 | | 0.0016 | 0.00054 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:18 | 1 |
| 1,1-Dichloroethane | <0.00056 | | 0.0016 | 0.00056 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:18 | 1 |
| 1,2-Dichloroethane | <0.0013 | | 0.0041 | 0.0013 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:18 | 1 |
| 1,1-Dichloroethene | <0.00056 | | 0.0016 | 0.00056 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:18 | 1 |
| 1,2-Dichloropropane | <0.00042 | | 0.0016 | 0.00042 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:18 | 1 |
| 1,3-Dichloropropene, Total | <0.00058 | | 0.0016 | 0.00058 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:18 | 1 |
| Ethylbenzene | <0.00078 | | 0.0016 | 0.00078 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:18 | 1 |
| 2-Hexanone | <0.0013 | * | 0.0041 | 0.0013 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:18 | 1 |
| Methylene Chloride | <0.0016 | | 0.0041 | 0.0016 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:18 | 1 |
| 4-Methyl-2-pentanone (MIBK) | <0.0012 | * | 0.0041 | 0.0012 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:18 | 1 |
| Methyl tert-butyl ether | <0.00048 | | 0.0016 | 0.00048 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:18 | 1 |
| Styrene | <0.00049 | | 0.0016 | 0.00049 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:18 | 1 |
| 1,1,2,2-Tetrachloroethane | <0.00052 | * | 0.0016 | 0.00052 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:18 | 1 |
| Tetrachloroethene | <0.00056 | | 0.0016 | 0.00056 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:18 | 1 |
| Toluene | <0.00041 | | 0.0016 | 0.00041 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:18 | 1 |
| trans-1,2-Dichloroethene | <0.00073 | | 0.0016 | 0.00073 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:18 | 1 |
| trans-1,3-Dichloropropene | <0.00058 | | 0.0016 | 0.00058 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:18 | 1 |
| 1,1,1-Trichloroethane | <0.00055 | | 0.0016 | 0.00055 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:18 | 1 |
| 1,1,2-Trichloroethane | <0.00070 | | 0.0016 | 0.00070 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:18 | 1 |
| Trichloroethene | <0.00055 | | 0.0016 | 0.00055 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:18 | 1 |
| Vinyl acetate | <0.0014 | | 0.0041 | 0.0014 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:18 | 1 |
| Vinyl chloride | <0.00073 | * | 0.0016 | 0.00073 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:18 | 1 |
| Xylenes, Total | <0.00052 | | 0.0033 | 0.00052 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:18 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 108 | | 75 - 131 | 06/05/18 11:24 | 06/13/18 04:18 | 1 |
| Dibromofluoromethane | 79 | | 75 - 126 | 06/05/18 11:24 | 06/13/18 04:18 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 83 | | 70 - 134 | 06/05/18 11:24 | 06/13/18 04:18 | 1 |
| Toluene-d8 (Surr) | 97 | | 75 - 124 | 06/05/18 11:24 | 06/13/18 04:18 | 1 |

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Acenaphthene | 0.016 | J | 0.035 | 0.0064 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| Acenaphthylene | 0.012 | J | 0.035 | 0.0047 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| Anthracene | 0.061 | | 0.035 | 0.0060 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| Benzo[a]anthracene | 0.27 | | 0.035 | 0.0048 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146393-1

Client Sample ID: 2409V-1-B09 (0-5)

Lab Sample ID: 500-146393-2

Date Collected: 06/04/18 10:45

Matrix: Solid

Date Received: 06/04/18 18:10

Percent Solids: 89.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|--------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Benzo[a]pyrene | 0.29 | | 0.035 | 0.0069 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| Benzo[b]fluoranthene | 0.41 | | 0.035 | 0.0077 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| Benzo[g,h,i]perylene | 0.11 | | 0.035 | 0.012 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| Benzo[k]fluoranthene | 0.13 | | 0.035 | 0.011 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| Bis(2-chloroethoxy)methane | <0.036 | | 0.18 | 0.036 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| Bis(2-chloroethyl)ether | <0.054 | | 0.18 | 0.054 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| Bis(2-ethylhexyl) phthalate | <0.065 | | 0.18 | 0.065 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| 4-Bromophenyl phenyl ether | <0.047 | | 0.18 | 0.047 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| Butyl benzyl phthalate | <0.068 | | 0.18 | 0.068 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| Carbazole | 0.14 | J | 0.18 | 0.089 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| 4-Chloroaniline | <0.17 | | 0.72 | 0.17 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| 4-Chloro-3-methylphenol | <0.12 | | 0.35 | 0.12 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| 2-Chloronaphthalene | <0.039 | | 0.18 | 0.039 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| 2-Chlorophenol | <0.061 | | 0.18 | 0.061 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| 4-Chlorophenyl phenyl ether | <0.042 | | 0.18 | 0.042 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| Chrysene | 0.30 | | 0.035 | 0.0097 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| Dibenz(a,h)anthracene | 0.035 | | 0.035 | 0.0069 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| Dibenzofuran | <0.042 | | 0.18 | 0.042 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| 1,2-Dichlorobenzene | <0.043 | | 0.18 | 0.043 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| 1,3-Dichlorobenzene | <0.040 | | 0.18 | 0.040 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| 1,4-Dichlorobenzene | <0.046 | | 0.18 | 0.046 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| 3,3'-Dichlorobenzidine | <0.050 | | 0.18 | 0.050 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| 2,4-Dichlorophenol | <0.085 | | 0.35 | 0.085 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| Diethyl phthalate | <0.061 | | 0.18 | 0.061 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| 2,4-Dimethylphenol | <0.14 | | 0.35 | 0.14 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| Dimethyl phthalate | <0.047 | | 0.18 | 0.047 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| Di-n-butyl phthalate | <0.054 | | 0.18 | 0.054 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| 4,6-Dinitro-2-methylphenol | <0.29 | | 0.72 | 0.29 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| 2,4-Dinitrophenol | <0.63 | | 0.72 | 0.63 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| 2,4-Dinitrotoluene | <0.057 | | 0.18 | 0.057 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| 2,6-Dinitrotoluene | <0.070 | | 0.18 | 0.070 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| Di-n-octyl phthalate | <0.058 | | 0.18 | 0.058 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| Fluoranthene | 0.55 | | 0.035 | 0.0066 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| Fluorene | 0.015 | J | 0.035 | 0.0050 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| Hexachlorobenzene | <0.0083 | | 0.072 | 0.0083 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| Hexachlorobutadiene | <0.056 | | 0.18 | 0.056 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| Hexachlorocyclopentadiene | <0.21 | | 0.72 | 0.21 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| Hexachloroethane | <0.054 | | 0.18 | 0.054 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| Indeno[1,2,3-cd]pyrene | 0.10 | | 0.035 | 0.0093 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| Isophorone | <0.040 | | 0.18 | 0.040 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| 2-Methylnaphthalene | 0.041 | J | 0.072 | 0.0066 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| 2-Methylphenol | <0.057 | | 0.18 | 0.057 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| 3 & 4 Methylphenol | <0.060 | | 0.18 | 0.060 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| Naphthalene | <0.0055 | | 0.035 | 0.0055 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| 2-Nitroaniline | <0.048 | | 0.18 | 0.048 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| 3-Nitroaniline | <0.11 | | 0.35 | 0.11 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| 4-Nitroaniline | <0.15 | | 0.35 | 0.15 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| Nitrobenzene | <0.0089 | | 0.035 | 0.0089 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| 2-Nitrophenol | <0.084 | | 0.35 | 0.084 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146393-1

Client Sample ID: 2409V-1-B09 (0-5)

Lab Sample ID: 500-146393-2

Date Collected: 06/04/18 10:45

Matrix: Solid

Date Received: 06/04/18 18:10

Percent Solids: 89.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| 4-Nitrophenol | <0.34 | | 0.72 | 0.34 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| N-Nitrosodi-n-propylamine | <0.044 | | 0.072 | 0.044 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| N-Nitrosodiphenylamine | <0.042 | | 0.18 | 0.042 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| 2,2'-oxybis[1-chloropropane] | <0.041 | | 0.18 | 0.041 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| Pentachlorophenol | <0.57 | | 0.72 | 0.57 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| Phenanthrene | 0.25 | | 0.035 | 0.0050 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| Phenol | <0.079 | | 0.18 | 0.079 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| Pyrene | 0.45 | | 0.035 | 0.0071 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| 1,2,4-Trichlorobenzene | <0.038 | | 0.18 | 0.038 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| 2,4,5-Trichlorophenol | <0.081 | | 0.35 | 0.081 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| 2,4,6-Trichlorophenol | <0.12 | | 0.35 | 0.12 | mg/Kg | ☼ | 06/07/18 07:15 | 06/14/18 13:21 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl | 91 | | 44 - 121 | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| 2-Fluorophenol | 121 | | 46 - 133 | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| Nitrobenzene-d5 | 89 | | 41 - 120 | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| Phenol-d5 | 113 | | 46 - 125 | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| Terphenyl-d14 | 99 | | 35 - 160 | 06/07/18 07:15 | 06/14/18 13:21 | 1 |
| 2,4,6-Tribromophenol | 77 | | 25 - 139 | 06/07/18 07:15 | 06/14/18 13:21 | 1 |

Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|---------------|--------------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | 0.32 | J F1 | 1.1 | 0.21 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:25 | 1 |
| Arsenic | 2.8 | | 0.53 | 0.18 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:25 | 1 |
| Barium | 33 | F2 F1 | 0.53 | 0.060 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:25 | 1 |
| Beryllium | 0.42 | | 0.21 | 0.050 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:25 | 1 |
| Cadmium | 0.34 | B | 0.11 | 0.019 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:25 | 1 |
| Chromium | 10 | | 0.53 | 0.26 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:25 | 1 |
| Cobalt | 3.7 | | 0.27 | 0.070 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:25 | 1 |
| Copper | 15 | | 0.53 | 0.15 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:25 | 1 |
| Iron | 8500 | | 11 | 5.5 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:25 | 1 |
| Lead | 98 | | 0.27 | 0.12 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:25 | 1 |
| Magnesium | 45000 | | 5.3 | 2.6 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:25 | 1 |
| Calcium | 110000 | B F2 | 110 | 18 | mg/Kg | ☼ | 06/07/18 17:05 | 06/11/18 23:27 | 10 |
| Manganese | 230 | | 0.53 | 0.077 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:25 | 1 |
| Nickel | 9.5 | | 0.53 | 0.15 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:25 | 1 |
| Selenium | 0.43 | J | 0.53 | 0.31 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:25 | 1 |
| Silver | 0.12 | J | 0.27 | 0.068 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:25 | 1 |
| Thallium | <0.26 | F1 | 0.53 | 0.26 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:25 | 1 |
| Vanadium | 14 | | 0.27 | 0.063 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:25 | 1 |
| Zinc | 57 | F1 | 1.1 | 0.47 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:25 | 1 |
| Potassium | 790 | F1 | 27 | 9.4 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:25 | 1 |
| Sodium | 690 | | 53 | 7.9 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:25 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.010 | | 0.050 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 21:38 | 1 |
| Barium | 0.37 | J | 0.50 | 0.050 | mg/L | | 06/11/18 09:40 | 06/11/18 21:38 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 06/11/18 09:40 | 06/11/18 21:38 | 1 |
| Cadmium | 0.0047 | J | 0.0050 | 0.0020 | mg/L | | 06/11/18 09:40 | 06/11/18 21:38 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146393-1

Client Sample ID: 2409V-1-B09 (0-5)

Lab Sample ID: 500-146393-2

Date Collected: 06/04/18 10:45

Matrix: Solid

Date Received: 06/04/18 18:10

Percent Solids: 89.2

Method: 6010B - Metals (ICP) - TCLP (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Calcium | 410 | | 5.0 | 0.50 | mg/L | | 06/11/18 09:40 | 06/11/18 21:38 | 1 |
| Chromium | <0.010 | | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 21:38 | 1 |
| Cobalt | <0.010 | | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 21:38 | 1 |
| Copper | <0.010 | | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 21:38 | 1 |
| Iron | <0.20 | | 0.40 | 0.20 | mg/L | | 06/11/18 09:40 | 06/11/18 21:38 | 1 |
| Lead | 0.011 | | 0.0075 | 0.0075 | mg/L | | 06/11/18 09:40 | 06/11/18 21:38 | 1 |
| Magnesium | 120 | | 2.5 | 0.50 | mg/L | | 06/11/18 09:40 | 06/11/18 21:38 | 1 |
| Manganese | 0.90 | | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 21:38 | 1 |
| Nickel | 0.039 | B | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 21:38 | 1 |
| Potassium | 2.4 | J | 2.5 | 0.50 | mg/L | | 06/11/18 09:40 | 06/11/18 21:38 | 1 |
| Selenium | <0.020 | | 0.050 | 0.020 | mg/L | | 06/11/18 09:40 | 06/11/18 21:38 | 1 |
| Silver | <0.010 | | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 21:38 | 1 |
| Vanadium | <0.010 | | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 21:38 | 1 |
| Zinc | 0.072 | J | 0.50 | 0.020 | mg/L | | 06/11/18 09:40 | 06/11/18 21:38 | 1 |

Method: 6010B - SPLP Metals - SPLP East

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|-------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Lead | 0.23 | | 0.0075 | 0.0075 | mg/L | | 06/12/18 07:24 | 06/12/18 18:47 | 1 |
| Manganese | 0.39 | | 0.025 | 0.010 | mg/L | | 06/12/18 07:24 | 06/12/18 18:47 | 1 |

Method: 6020A - Metals (ICP/MS) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|---------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Antimony | <0.0060 | | 0.0060 | 0.0060 | mg/L | | 06/11/18 09:40 | 06/12/18 01:25 | 1 |
| Thallium | <0.0020 | | 0.0020 | 0.0020 | mg/L | | 06/11/18 09:40 | 06/12/18 01:25 | 1 |

Method: 7470A - TCLP Mercury - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|---------|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | 0.00020 | mg/L | | 06/11/18 13:25 | 06/12/18 12:24 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|--------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Mercury | 0.021 | | 0.017 | 0.0058 | mg/Kg | ☼ | 06/07/18 16:37 | 06/12/18 16:07 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|------------|-----------|------|------|-------|---|----------------|----------------|---------|
| Cyanide, Total | <0.19 | | 0.54 | 0.19 | mg/Kg | ☼ | 06/15/18 11:00 | 06/15/18 14:57 | 1 |
| pH | 8.9 | | 0.20 | 0.20 | SU | | | 06/11/18 16:52 | 1 |

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146393-1

Client Sample ID: 2409V-1-B09 (5-8)

Lab Sample ID: 500-146393-3

Date Collected: 06/04/18 10:50

Matrix: Solid

Date Received: 06/04/18 18:10

Percent Solids: 85.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------------|-----------|--------|---------|-------|---|----------------|----------------|---------|
| Acetone | 0.022 | | 0.014 | 0.0063 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:47 | 1 |
| Benzene | <0.00037 | | 0.0014 | 0.00037 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:47 | 1 |
| Bromodichloromethane | <0.00029 | | 0.0014 | 0.00029 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:47 | 1 |
| Bromoform | <0.00042 | | 0.0014 | 0.00042 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:47 | 1 |
| Bromomethane | <0.0014 * | | 0.0036 | 0.0014 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:47 | 1 |
| 2-Butanone (MEK) | <0.0016 | | 0.0036 | 0.0016 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:47 | 1 |
| Carbon disulfide | <0.00075 | | 0.0036 | 0.00075 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:47 | 1 |
| Carbon tetrachloride | <0.00042 | | 0.0014 | 0.00042 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:47 | 1 |
| Chlorobenzene | <0.00053 | | 0.0014 | 0.00053 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:47 | 1 |
| Chloroethane | <0.0011 * | | 0.0036 | 0.0011 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:47 | 1 |
| Chloroform | <0.00050 | | 0.0014 | 0.00050 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:47 | 1 |
| Chloromethane | <0.0015 * | | 0.0036 | 0.0015 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:47 | 1 |
| cis-1,2-Dichloroethene | <0.00040 | | 0.0014 | 0.00040 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:47 | 1 |
| cis-1,3-Dichloropropene | <0.00044 | | 0.0014 | 0.00044 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:47 | 1 |
| Dibromochloromethane | <0.00047 | | 0.0014 | 0.00047 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:47 | 1 |
| 1,1-Dichloroethane | <0.00049 | | 0.0014 | 0.00049 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:47 | 1 |
| 1,2-Dichloroethane | <0.0011 | | 0.0036 | 0.0011 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:47 | 1 |
| 1,1-Dichloroethene | <0.00050 | | 0.0014 | 0.00050 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:47 | 1 |
| 1,2-Dichloropropane | <0.00037 | | 0.0014 | 0.00037 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:47 | 1 |
| 1,3-Dichloropropene, Total | <0.00051 | | 0.0014 | 0.00051 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:47 | 1 |
| Ethylbenzene | <0.00069 | | 0.0014 | 0.00069 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:47 | 1 |
| 2-Hexanone | <0.0011 * | | 0.0036 | 0.0011 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:47 | 1 |
| Methylene Chloride | <0.0014 | | 0.0036 | 0.0014 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:47 | 1 |
| 4-Methyl-2-pentanone (MIBK) | <0.0011 * | | 0.0036 | 0.0011 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:47 | 1 |
| Methyl tert-butyl ether | <0.00042 | | 0.0014 | 0.00042 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:47 | 1 |
| Styrene | <0.00044 | | 0.0014 | 0.00044 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:47 | 1 |
| 1,1,1,2-Tetrachloroethane | <0.00046 * | | 0.0014 | 0.00046 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:47 | 1 |
| Tetrachloroethene | <0.00049 | | 0.0014 | 0.00049 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:47 | 1 |
| Toluene | <0.00036 | | 0.0014 | 0.00036 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:47 | 1 |
| trans-1,2-Dichloroethene | <0.00064 | | 0.0014 | 0.00064 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:47 | 1 |
| trans-1,3-Dichloropropene | <0.00051 | | 0.0014 | 0.00051 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:47 | 1 |
| 1,1,1-Trichloroethane | <0.00048 | | 0.0014 | 0.00048 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:47 | 1 |
| 1,1,2-Trichloroethane | <0.00062 | | 0.0014 | 0.00062 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:47 | 1 |
| Trichloroethene | <0.00049 | | 0.0014 | 0.00049 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:47 | 1 |
| Vinyl acetate | <0.0013 | | 0.0036 | 0.0013 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:47 | 1 |
| Vinyl chloride | <0.00064 * | | 0.0014 | 0.00064 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:47 | 1 |
| Xylenes, Total | <0.00046 | | 0.0029 | 0.00046 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 04:47 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 113 | | 75 - 131 | 06/05/18 11:24 | 06/13/18 04:47 | 1 |
| Dibromofluoromethane | 82 | | 75 - 126 | 06/05/18 11:24 | 06/13/18 04:47 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 84 | | 70 - 134 | 06/05/18 11:24 | 06/13/18 04:47 | 1 |
| Toluene-d8 (Surr) | 100 | | 75 - 124 | 06/05/18 11:24 | 06/13/18 04:47 | 1 |

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------|---------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Acenaphthene | <0.0066 | | 0.036 | 0.0066 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| Acenaphthylene | <0.0048 | | 0.036 | 0.0048 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| Anthracene | <0.0061 | | 0.036 | 0.0061 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| Benzo[a]anthracene | <0.0049 | | 0.036 | 0.0049 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146393-1

Client Sample ID: 2409V-1-B09 (5-8)

Lab Sample ID: 500-146393-3

Date Collected: 06/04/18 10:50

Matrix: Solid

Date Received: 06/04/18 18:10

Percent Solids: 85.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Benzo[a]pyrene | <0.0071 | | 0.036 | 0.0071 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| Benzo[b]fluoranthene | <0.0079 | | 0.036 | 0.0079 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| Benzo[g,h,i]perylene | <0.012 | | 0.036 | 0.012 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| Benzo[k]fluoranthene | <0.011 | | 0.036 | 0.011 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| Bis(2-chloroethoxy)methane | <0.037 | | 0.18 | 0.037 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| Bis(2-chloroethyl)ether | <0.055 | | 0.18 | 0.055 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| Bis(2-ethylhexyl) phthalate | <0.067 | | 0.18 | 0.067 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| 4-Bromophenyl phenyl ether | <0.048 | | 0.18 | 0.048 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| Butyl benzyl phthalate | <0.070 | | 0.18 | 0.070 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| Carbazole | <0.091 | | 0.18 | 0.091 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| 4-Chloroaniline | <0.17 | | 0.74 | 0.17 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| 4-Chloro-3-methylphenol | <0.12 | | 0.36 | 0.12 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| 2-Chloronaphthalene | <0.040 | | 0.18 | 0.040 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| 2-Chlorophenol | <0.062 | | 0.18 | 0.062 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| 4-Chlorophenyl phenyl ether | <0.043 | | 0.18 | 0.043 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| Chrysene | 0.010 | J | 0.036 | 0.010 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| Dibenz(a,h)anthracene | <0.0071 | | 0.036 | 0.0071 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| Dibenzofuran | <0.043 | | 0.18 | 0.043 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| 1,2-Dichlorobenzene | <0.044 | | 0.18 | 0.044 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| 1,3-Dichlorobenzene | <0.041 | | 0.18 | 0.041 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| 1,4-Dichlorobenzene | <0.047 | | 0.18 | 0.047 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| 3,3'-Dichlorobenzidine | <0.051 | | 0.18 | 0.051 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| 2,4-Dichlorophenol | <0.087 | | 0.36 | 0.087 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| Diethyl phthalate | <0.062 | | 0.18 | 0.062 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| 2,4-Dimethylphenol | <0.14 | | 0.36 | 0.14 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| Dimethyl phthalate | <0.048 | | 0.18 | 0.048 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| Di-n-butyl phthalate | <0.056 | | 0.18 | 0.056 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| 4,6-Dinitro-2-methylphenol | <0.29 | | 0.74 | 0.29 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| 2,4-Dinitrophenol | <0.64 | | 0.74 | 0.64 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| 2,4-Dinitrotoluene | <0.058 | | 0.18 | 0.058 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| 2,6-Dinitrotoluene | <0.072 | | 0.18 | 0.072 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| Di-n-octyl phthalate | <0.060 | | 0.18 | 0.060 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| Fluoranthene | <0.0068 | | 0.036 | 0.0068 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| Fluorene | <0.0051 | | 0.036 | 0.0051 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| Hexachlorobenzene | <0.0085 | | 0.074 | 0.0085 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| Hexachlorobutadiene | <0.058 | | 0.18 | 0.058 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| Hexachlorocyclopentadiene | <0.21 | | 0.74 | 0.21 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| Hexachloroethane | <0.056 | | 0.18 | 0.056 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| Indeno[1,2,3-cd]pyrene | <0.0095 | | 0.036 | 0.0095 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| Isophorone | <0.041 | | 0.18 | 0.041 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| 2-Methylnaphthalene | <0.0067 | | 0.074 | 0.0067 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| 2-Methylphenol | <0.059 | | 0.18 | 0.059 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| 3 & 4 Methylphenol | <0.061 | | 0.18 | 0.061 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| Naphthalene | <0.0056 | | 0.036 | 0.0056 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| 2-Nitroaniline | <0.049 | | 0.18 | 0.049 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| 3-Nitroaniline | <0.11 | | 0.36 | 0.11 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| 4-Nitroaniline | <0.15 | | 0.36 | 0.15 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| Nitrobenzene | <0.0091 | | 0.036 | 0.0091 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| 2-Nitrophenol | <0.086 | | 0.36 | 0.086 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146393-1

Client Sample ID: 2409V-1-B09 (5-8)

Lab Sample ID: 500-146393-3

Date Collected: 06/04/18 10:50

Matrix: Solid

Date Received: 06/04/18 18:10

Percent Solids: 85.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| 4-Nitrophenol | <0.35 | | 0.74 | 0.35 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| N-Nitrosodi-n-propylamine | <0.045 | | 0.074 | 0.045 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| N-Nitrosodiphenylamine | <0.043 | | 0.18 | 0.043 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| 2,2'-oxybis[1-chloropropane] | <0.042 | | 0.18 | 0.042 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| Pentachlorophenol | <0.59 | | 0.74 | 0.59 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| Phenanthrene | <0.0051 | | 0.036 | 0.0051 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| Phenol | <0.081 | | 0.18 | 0.081 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| Pyrene | 0.013 | J | 0.036 | 0.0073 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| 1,2,4-Trichlorobenzene | <0.039 | | 0.18 | 0.039 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| 2,4,5-Trichlorophenol | <0.084 | | 0.36 | 0.084 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| 2,4,6-Trichlorophenol | <0.13 | | 0.36 | 0.13 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:21 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl | 93 | | 44 - 121 | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| 2-Fluorophenol | 121 | | 46 - 133 | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| Nitrobenzene-d5 | 92 | | 41 - 120 | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| Phenol-d5 | 112 | | 46 - 125 | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| Terphenyl-d14 | 109 | | 35 - 160 | 06/07/18 07:15 | 06/11/18 11:21 | 1 |
| 2,4,6-Tribromophenol | 68 | | 25 - 139 | 06/07/18 07:15 | 06/11/18 11:21 | 1 |

Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <0.22 | | 1.1 | 0.22 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:45 | 1 |
| Arsenic | 5.1 | | 0.56 | 0.19 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:45 | 1 |
| Barium | 27 | | 0.56 | 0.064 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:45 | 1 |
| Beryllium | 0.66 | | 0.22 | 0.052 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:45 | 1 |
| Cadmium | 0.23 | B | 0.11 | 0.020 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:45 | 1 |
| Chromium | 14 | | 0.56 | 0.28 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:45 | 1 |
| Cobalt | 9.5 | | 0.28 | 0.073 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:45 | 1 |
| Copper | 25 | | 0.56 | 0.16 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:45 | 1 |
| Iron | 17000 | | 11 | 5.8 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:45 | 1 |
| Lead | 14 | | 0.28 | 0.13 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:45 | 1 |
| Magnesium | 31000 | | 5.6 | 2.8 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:45 | 1 |
| Calcium | 80000 | B | 110 | 19 | mg/Kg | ☼ | 06/07/18 17:05 | 06/11/18 23:55 | 10 |
| Manganese | 350 | | 0.56 | 0.081 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:45 | 1 |
| Nickel | 30 | | 0.56 | 0.16 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:45 | 1 |
| Selenium | 0.88 | | 0.56 | 0.33 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:45 | 1 |
| Silver | 0.19 | J | 0.28 | 0.072 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:45 | 1 |
| Thallium | 0.38 | J | 0.56 | 0.28 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:45 | 1 |
| Vanadium | 16 | | 0.28 | 0.066 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:45 | 1 |
| Zinc | 56 | | 1.1 | 0.49 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:45 | 1 |
| Potassium | 2200 | | 28 | 9.9 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:45 | 1 |
| Sodium | 270 | | 56 | 8.3 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:45 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.010 | | 0.050 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 21:42 | 1 |
| Barium | 0.42 | J | 0.50 | 0.050 | mg/L | | 06/11/18 09:40 | 06/11/18 21:42 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 06/11/18 09:40 | 06/11/18 21:42 | 1 |
| Cadmium | 0.0044 | J | 0.0050 | 0.0020 | mg/L | | 06/11/18 09:40 | 06/11/18 21:42 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146393-1

Client Sample ID: 2409V-1-B09 (5-8)

Lab Sample ID: 500-146393-3

Date Collected: 06/04/18 10:50

Matrix: Solid

Date Received: 06/04/18 18:10

Percent Solids: 85.7

Method: 6010B - Metals (ICP) - TCLP (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|------------|--------|--------|------|---|----------------|----------------|---------|
| Calcium | 490 | | 5.0 | 0.50 | mg/L | | 06/11/18 09:40 | 06/11/18 21:42 | 1 |
| Chromium | <0.010 | | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 21:42 | 1 |
| Cobalt | 0.016 | J | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 21:42 | 1 |
| Copper | <0.010 | | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 21:42 | 1 |
| Iron | <0.20 | | 0.40 | 0.20 | mg/L | | 06/11/18 09:40 | 06/11/18 21:42 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 06/11/18 09:40 | 06/11/18 21:42 | 1 |
| Magnesium | 120 | | 2.5 | 0.50 | mg/L | | 06/11/18 09:40 | 06/11/18 21:42 | 1 |
| Manganese | 2.6 | | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 21:42 | 1 |
| Nickel | 0.023 | J B | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 21:42 | 1 |
| Potassium | 2.7 | | 2.5 | 0.50 | mg/L | | 06/11/18 09:40 | 06/11/18 21:42 | 1 |
| Selenium | <0.020 | | 0.050 | 0.020 | mg/L | | 06/11/18 09:40 | 06/11/18 21:42 | 1 |
| Silver | <0.010 | | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 21:42 | 1 |
| Vanadium | <0.010 | | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 21:42 | 1 |
| Zinc | <0.020 | | 0.50 | 0.020 | mg/L | | 06/11/18 09:40 | 06/11/18 21:42 | 1 |

Method: 6010B - Metals (ICP) - SPLP East

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|-------------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Manganese | 0.20 | | 0.025 | 0.010 | mg/L | | 06/12/18 07:24 | 06/12/18 18:51 | 1 |

Method: 6020A - Metals (ICP/MS) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|---------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Antimony | <0.0060 | | 0.0060 | 0.0060 | mg/L | | 06/11/18 09:40 | 06/12/18 01:29 | 1 |
| Thallium | <0.0020 | | 0.0020 | 0.0020 | mg/L | | 06/11/18 09:40 | 06/12/18 01:29 | 1 |

Method: 7470A - TCLP Mercury - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|---------|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | 0.00020 | mg/L | | 06/11/18 13:25 | 06/12/18 12:25 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|--------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Mercury | 0.017 | J | 0.018 | 0.0059 | mg/Kg | ☼ | 06/07/18 16:37 | 06/12/18 15:26 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|------------|-----------|------|------|-------|---|----------------|----------------|---------|
| Cyanide, Total | <0.18 | | 0.52 | 0.18 | mg/Kg | ☼ | 06/15/18 11:00 | 06/15/18 14:57 | 1 |
| pH | 8.4 | | 0.20 | 0.20 | SU | | | 06/11/18 16:52 | 1 |

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146393-1

Client Sample ID: 2409V-1-B08 (0-5)

Lab Sample ID: 500-146393-4

Date Collected: 06/04/18 11:35

Matrix: Solid

Date Received: 06/04/18 18:10

Percent Solids: 82.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|-----------|--------|---------|-------|---|----------------|----------------|---------|
| Acetone | <0.0073 | | 0.017 | 0.0073 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:17 | 1 |
| Benzene | <0.00043 | | 0.0017 | 0.00043 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:17 | 1 |
| Bromodichloromethane | <0.00034 | | 0.0017 | 0.00034 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:17 | 1 |
| Bromoform | <0.00049 | | 0.0017 | 0.00049 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:17 | 1 |
| Bromomethane | <0.0016 | * | 0.0042 | 0.0016 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:17 | 1 |
| 2-Butanone (MEK) | <0.0019 | | 0.0042 | 0.0019 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:17 | 1 |
| Carbon disulfide | <0.00087 | | 0.0042 | 0.00087 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:17 | 1 |
| Carbon tetrachloride | <0.00048 | | 0.0017 | 0.00048 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:17 | 1 |
| Chlorobenzene | <0.00062 | | 0.0017 | 0.00062 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:17 | 1 |
| Chloroethane | <0.0012 | * | 0.0042 | 0.0012 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:17 | 1 |
| Chloroform | <0.00058 | | 0.0017 | 0.00058 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:17 | 1 |
| Chloromethane | <0.0017 | * | 0.0042 | 0.0017 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:17 | 1 |
| cis-1,2-Dichloroethene | <0.00047 | | 0.0017 | 0.00047 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:17 | 1 |
| cis-1,3-Dichloropropene | <0.00050 | | 0.0017 | 0.00050 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:17 | 1 |
| Dibromochloromethane | <0.00055 | | 0.0017 | 0.00055 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:17 | 1 |
| 1,1-Dichloroethane | <0.00057 | | 0.0017 | 0.00057 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:17 | 1 |
| 1,2-Dichloroethane | <0.0013 | | 0.0042 | 0.0013 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:17 | 1 |
| 1,1-Dichloroethene | <0.00057 | | 0.0017 | 0.00057 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:17 | 1 |
| 1,2-Dichloropropane | <0.00043 | | 0.0017 | 0.00043 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:17 | 1 |
| 1,3-Dichloropropane, Total | <0.00059 | | 0.0017 | 0.00059 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:17 | 1 |
| Ethylbenzene | <0.00080 | | 0.0017 | 0.00080 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:17 | 1 |
| 2-Hexanone | <0.0013 | * | 0.0042 | 0.0013 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:17 | 1 |
| Methylene Chloride | <0.0016 | | 0.0042 | 0.0016 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:17 | 1 |
| 4-Methyl-2-pentanone (MIBK) | <0.0012 | * | 0.0042 | 0.0012 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:17 | 1 |
| Methyl tert-butyl ether | <0.00049 | | 0.0017 | 0.00049 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:17 | 1 |
| Styrene | <0.00050 | | 0.0017 | 0.00050 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:17 | 1 |
| 1,1,2,2-Tetrachloroethane | <0.00053 | * | 0.0017 | 0.00053 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:17 | 1 |
| Tetrachloroethene | <0.00057 | | 0.0017 | 0.00057 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:17 | 1 |
| Toluene | <0.00042 | | 0.0017 | 0.00042 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:17 | 1 |
| trans-1,2-Dichloroethene | <0.00074 | | 0.0017 | 0.00074 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:17 | 1 |
| trans-1,3-Dichloropropene | <0.00059 | | 0.0017 | 0.00059 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:17 | 1 |
| 1,1,1-Trichloroethane | <0.00056 | | 0.0017 | 0.00056 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:17 | 1 |
| 1,1,2-Trichloroethane | <0.00072 | | 0.0017 | 0.00072 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:17 | 1 |
| Trichloroethene | <0.00056 | | 0.0017 | 0.00056 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:17 | 1 |
| Vinyl acetate | <0.0015 | | 0.0042 | 0.0015 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:17 | 1 |
| Vinyl chloride | <0.00074 | * | 0.0017 | 0.00074 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:17 | 1 |
| Xylenes, Total | <0.00053 | | 0.0033 | 0.00053 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:17 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 109 | | 75 - 131 | 06/05/18 11:24 | 06/13/18 05:17 | 1 |
| Dibromofluoromethane | 83 | | 75 - 126 | 06/05/18 11:24 | 06/13/18 05:17 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 85 | | 70 - 134 | 06/05/18 11:24 | 06/13/18 05:17 | 1 |
| Toluene-d8 (Surr) | 99 | | 75 - 124 | 06/05/18 11:24 | 06/13/18 05:17 | 1 |

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Acenaphthene | <0.0070 | | 0.039 | 0.0070 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| Acenaphthylene | <0.0051 | | 0.039 | 0.0051 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| Anthracene | <0.0065 | | 0.039 | 0.0065 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| Benzo[a]anthracene | 0.018 | J | 0.039 | 0.0053 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146393-1

Client Sample ID: 2409V-1-B08 (0-5)

Lab Sample ID: 500-146393-4

Date Collected: 06/04/18 11:35

Matrix: Solid

Date Received: 06/04/18 18:10

Percent Solids: 82.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|--------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Benzo[a]pyrene | 0.018 | J | 0.039 | 0.0076 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| Benzo[b]fluoranthene | <0.0084 | | 0.039 | 0.0084 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| Benzo[g,h,i]perylene | 0.013 | J | 0.039 | 0.013 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| Benzo[k]fluoranthene | <0.012 | | 0.039 | 0.012 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| Bis(2-chloroethoxy)methane | <0.040 | | 0.20 | 0.040 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| Bis(2-chloroethyl)ether | <0.059 | | 0.20 | 0.059 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| Bis(2-ethylhexyl) phthalate | <0.071 | | 0.20 | 0.071 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| 4-Bromophenyl phenyl ether | <0.051 | | 0.20 | 0.051 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| Butyl benzyl phthalate | <0.074 | | 0.20 | 0.074 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| Carbazole | <0.098 | | 0.20 | 0.098 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| 4-Chloroaniline | <0.18 | | 0.79 | 0.18 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| 4-Chloro-3-methylphenol | <0.13 | | 0.39 | 0.13 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| 2-Chloronaphthalene | <0.043 | | 0.20 | 0.043 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| 2-Chlorophenol | <0.067 | | 0.20 | 0.067 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| 4-Chlorophenyl phenyl ether | <0.046 | | 0.20 | 0.046 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| Chrysene | 0.019 | J | 0.039 | 0.011 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| Dibenz(a,h)anthracene | <0.0075 | | 0.039 | 0.0075 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| Dibenzofuran | <0.046 | | 0.20 | 0.046 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| 1,2-Dichlorobenzene | <0.047 | | 0.20 | 0.047 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| 1,3-Dichlorobenzene | <0.044 | | 0.20 | 0.044 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| 1,4-Dichlorobenzene | <0.050 | | 0.20 | 0.050 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| 3,3'-Dichlorobenzidine | <0.055 | | 0.20 | 0.055 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| 2,4-Dichlorophenol | <0.093 | | 0.39 | 0.093 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| Diethyl phthalate | <0.066 | | 0.20 | 0.066 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| 2,4-Dimethylphenol | <0.15 | | 0.39 | 0.15 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| Dimethyl phthalate | <0.051 | | 0.20 | 0.051 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| Di-n-butyl phthalate | <0.059 | | 0.20 | 0.059 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| 4,6-Dinitro-2-methylphenol | <0.31 | | 0.79 | 0.31 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| 2,4-Dinitrophenol | <0.69 | | 0.79 | 0.69 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| 2,4-Dinitrotoluene | <0.062 | | 0.20 | 0.062 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| 2,6-Dinitrotoluene | <0.077 | | 0.20 | 0.077 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| Di-n-octyl phthalate | <0.064 | | 0.20 | 0.064 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| Fluoranthene | 0.027 | J | 0.039 | 0.0072 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| Fluorene | <0.0055 | | 0.039 | 0.0055 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| Hexachlorobenzene | <0.0091 | | 0.079 | 0.0091 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| Hexachlorobutadiene | <0.061 | | 0.20 | 0.061 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| Hexachlorocyclopentadiene | <0.22 | | 0.79 | 0.22 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| Hexachloroethane | <0.059 | | 0.20 | 0.059 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| Indeno[1,2,3-cd]pyrene | 0.011 | J | 0.039 | 0.010 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| Isophorone | <0.044 | | 0.20 | 0.044 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| 2-Methylnaphthalene | <0.0072 | | 0.079 | 0.0072 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| 2-Methylphenol | <0.063 | | 0.20 | 0.063 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| 3 & 4 Methylphenol | <0.065 | | 0.20 | 0.065 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| Naphthalene | <0.0060 | | 0.039 | 0.0060 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| 2-Nitroaniline | <0.053 | | 0.20 | 0.053 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| 3-Nitroaniline | <0.12 | | 0.39 | 0.12 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| 4-Nitroaniline | <0.16 | | 0.39 | 0.16 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| Nitrobenzene | <0.0097 | | 0.039 | 0.0097 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| 2-Nitrophenol | <0.092 | | 0.39 | 0.092 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146393-1

Client Sample ID: 2409V-1-B08 (0-5)

Lab Sample ID: 500-146393-4

Date Collected: 06/04/18 11:35

Matrix: Solid

Date Received: 06/04/18 18:10

Percent Solids: 82.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| 4-Nitrophenol | <0.37 | | 0.79 | 0.37 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| N-Nitrosodi-n-propylamine | <0.048 | | 0.079 | 0.048 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| N-Nitrosodiphenylamine | <0.046 | | 0.20 | 0.046 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| 2,2'-oxybis[1-chloropropane] | <0.045 | | 0.20 | 0.045 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| Pentachlorophenol | <0.63 | | 0.79 | 0.63 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| Phenanthrene | 0.012 | J | 0.039 | 0.0054 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| Phenol | <0.087 | | 0.20 | 0.087 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| Pyrene | 0.029 | J | 0.039 | 0.0078 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| 1,2,4-Trichlorobenzene | <0.042 | | 0.20 | 0.042 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| 2,4,5-Trichlorophenol | <0.089 | | 0.39 | 0.089 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| 2,4,6-Trichlorophenol | <0.13 | | 0.39 | 0.13 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 11:49 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl | 99 | | 44 - 121 | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| 2-Fluorophenol | 121 | | 46 - 133 | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| Nitrobenzene-d5 | 94 | | 41 - 120 | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| Phenol-d5 | 110 | | 46 - 125 | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| Terphenyl-d14 | 112 | | 35 - 160 | 06/07/18 07:15 | 06/11/18 11:49 | 1 |
| 2,4,6-Tribromophenol | 82 | | 25 - 139 | 06/07/18 07:15 | 06/11/18 11:49 | 1 |

Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <0.22 | | 1.1 | 0.22 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:49 | 1 |
| Arsenic | 6.6 | | 0.56 | 0.19 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:49 | 1 |
| Barium | 52 | | 0.56 | 0.064 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:49 | 1 |
| Beryllium | 0.63 | | 0.23 | 0.053 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:49 | 1 |
| Cadmium | 0.22 | B | 0.11 | 0.020 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:49 | 1 |
| Chromium | 14 | | 0.56 | 0.28 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:49 | 1 |
| Cobalt | 7.4 | | 0.28 | 0.074 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:49 | 1 |
| Copper | 16 | | 0.56 | 0.16 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:49 | 1 |
| Iron | 15000 | | 11 | 5.9 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:49 | 1 |
| Lead | 28 | | 0.28 | 0.13 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:49 | 1 |
| Magnesium | 3400 | | 5.6 | 2.8 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:49 | 1 |
| Calcium | 3700 | B | 11 | 1.9 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:49 | 1 |
| Manganese | 220 | | 0.56 | 0.082 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:49 | 1 |
| Nickel | 20 | | 0.56 | 0.16 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:49 | 1 |
| Selenium | 1.1 | | 0.56 | 0.33 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:49 | 1 |
| Silver | 0.25 | J | 0.28 | 0.073 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:49 | 1 |
| Thallium | <0.28 | | 0.56 | 0.28 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:49 | 1 |
| Vanadium | 20 | | 0.28 | 0.066 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:49 | 1 |
| Zinc | 57 | | 1.1 | 0.49 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:49 | 1 |
| Potassium | 1000 | | 28 | 10 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:49 | 1 |
| Sodium | 100 | | 56 | 8.3 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:49 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------|-------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.010 | | 0.050 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 21:47 | 1 |
| Barium | 0.18 | J | 0.50 | 0.050 | mg/L | | 06/11/18 09:40 | 06/11/18 21:47 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 06/11/18 09:40 | 06/11/18 21:47 | 1 |
| Cadmium | <0.0020 | | 0.0050 | 0.0020 | mg/L | | 06/11/18 09:40 | 06/11/18 21:47 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146393-1

Client Sample ID: 2409V-1-B08 (0-5)

Lab Sample ID: 500-146393-4

Date Collected: 06/04/18 11:35

Matrix: Solid

Date Received: 06/04/18 18:10

Percent Solids: 82.6

Method: 6010B - Metals (ICP) - TCLP (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|------------|--------|--------|------|---|----------------|----------------|---------|
| Calcium | 74 | | 5.0 | 0.50 | mg/L | | 06/11/18 09:40 | 06/11/18 21:47 | 1 |
| Chromium | <0.010 | | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 21:47 | 1 |
| Cobalt | <0.010 | | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 21:47 | 1 |
| Copper | <0.010 | | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 21:47 | 1 |
| Iron | 0.52 | | 0.40 | 0.20 | mg/L | | 06/11/18 09:40 | 06/11/18 21:47 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 06/11/18 09:40 | 06/11/18 21:47 | 1 |
| Magnesium | 22 | | 2.5 | 0.50 | mg/L | | 06/11/18 09:40 | 06/11/18 21:47 | 1 |
| Manganese | 0.061 | | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 21:47 | 1 |
| Nickel | 0.018 | J B | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 21:47 | 1 |
| Potassium | 1.3 | J | 2.5 | 0.50 | mg/L | | 06/11/18 09:40 | 06/11/18 21:47 | 1 |
| Selenium | <0.020 | | 0.050 | 0.020 | mg/L | | 06/11/18 09:40 | 06/11/18 21:47 | 1 |
| Silver | <0.010 | | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 21:47 | 1 |
| Vanadium | <0.010 | | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 21:47 | 1 |
| Zinc | <0.020 | | 0.50 | 0.020 | mg/L | | 06/11/18 09:40 | 06/11/18 21:47 | 1 |

Method: 6020A - Metals (ICP/MS) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|---------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Antimony | <0.0060 | | 0.0060 | 0.0060 | mg/L | | 06/11/18 09:40 | 06/12/18 01:33 | 1 |
| Thallium | <0.0020 | | 0.0020 | 0.0020 | mg/L | | 06/11/18 09:40 | 06/12/18 01:33 | 1 |

Method: 7470A - TCLP Mercury - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|---------|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | 0.00020 | mg/L | | 06/11/18 13:25 | 06/12/18 12:27 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|--------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Mercury | 0.036 | | 0.019 | 0.0063 | mg/Kg | ☼ | 06/07/18 16:37 | 06/12/18 15:28 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|------------|-----------|------|------|-------|---|----------------|----------------|---------|
| Cyanide, Total | <0.18 | | 0.51 | 0.18 | mg/Kg | ☼ | 06/15/18 11:00 | 06/15/18 14:57 | 1 |
| pH | 7.8 | | 0.20 | 0.20 | SU | | | 06/11/18 16:52 | 1 |

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146393-1

Client Sample ID: 2409V-1-B08 (0-5) Dup

Lab Sample ID: 500-146393-5

Date Collected: 06/04/18 11:40

Matrix: Solid

Date Received: 06/04/18 18:10

Percent Solids: 81.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|-----------|--------|---------|-------|---|----------------|----------------|---------|
| Acetone | <0.0074 | | 0.017 | 0.0074 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:46 | 1 |
| Benzene | <0.00043 | | 0.0017 | 0.00043 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:46 | 1 |
| Bromodichloromethane | <0.00034 | | 0.0017 | 0.00034 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:46 | 1 |
| Bromoform | <0.00049 | | 0.0017 | 0.00049 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:46 | 1 |
| Bromomethane | <0.0016 | * | 0.0042 | 0.0016 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:46 | 1 |
| 2-Butanone (MEK) | <0.0019 | | 0.0042 | 0.0019 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:46 | 1 |
| Carbon disulfide | <0.00088 | | 0.0042 | 0.00088 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:46 | 1 |
| Carbon tetrachloride | <0.00049 | | 0.0017 | 0.00049 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:46 | 1 |
| Chlorobenzene | <0.00063 | | 0.0017 | 0.00063 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:46 | 1 |
| Chloroethane | <0.0013 | * | 0.0042 | 0.0013 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:46 | 1 |
| Chloroform | <0.00059 | | 0.0017 | 0.00059 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:46 | 1 |
| Chloromethane | <0.0017 | * | 0.0042 | 0.0017 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:46 | 1 |
| cis-1,2-Dichloroethene | <0.00047 | | 0.0017 | 0.00047 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:46 | 1 |
| cis-1,3-Dichloropropene | <0.00051 | | 0.0017 | 0.00051 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:46 | 1 |
| Dibromochloromethane | <0.00055 | | 0.0017 | 0.00055 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:46 | 1 |
| 1,1-Dichloroethane | <0.00058 | | 0.0017 | 0.00058 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:46 | 1 |
| 1,2-Dichloroethane | <0.0013 | | 0.0042 | 0.0013 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:46 | 1 |
| 1,1-Dichloroethene | <0.00058 | | 0.0017 | 0.00058 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:46 | 1 |
| 1,2-Dichloropropane | <0.00044 | | 0.0017 | 0.00044 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:46 | 1 |
| 1,3-Dichloropropane, Total | <0.00059 | | 0.0017 | 0.00059 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:46 | 1 |
| Ethylbenzene | <0.00081 | | 0.0017 | 0.00081 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:46 | 1 |
| 2-Hexanone | <0.0013 | * | 0.0042 | 0.0013 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:46 | 1 |
| Methylene Chloride | <0.0017 | | 0.0042 | 0.0017 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:46 | 1 |
| 4-Methyl-2-pentanone (MIBK) | <0.0013 | * | 0.0042 | 0.0013 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:46 | 1 |
| Methyl tert-butyl ether | <0.00050 | | 0.0017 | 0.00050 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:46 | 1 |
| Styrene | <0.00051 | | 0.0017 | 0.00051 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:46 | 1 |
| 1,1,2,2-Tetrachloroethane | <0.00054 | * | 0.0017 | 0.00054 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:46 | 1 |
| Tetrachloroethene | <0.00058 | | 0.0017 | 0.00058 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:46 | 1 |
| Toluene | <0.00043 | | 0.0017 | 0.00043 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:46 | 1 |
| trans-1,2-Dichloroethene | <0.00075 | | 0.0017 | 0.00075 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:46 | 1 |
| trans-1,3-Dichloropropene | <0.00059 | | 0.0017 | 0.00059 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:46 | 1 |
| 1,1,1-Trichloroethane | <0.00057 | | 0.0017 | 0.00057 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:46 | 1 |
| 1,1,2-Trichloroethane | <0.00073 | | 0.0017 | 0.00073 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:46 | 1 |
| Trichloroethene | <0.00057 | | 0.0017 | 0.00057 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:46 | 1 |
| Vinyl acetate | <0.0015 | | 0.0042 | 0.0015 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:46 | 1 |
| Vinyl chloride | <0.00075 | * | 0.0017 | 0.00075 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:46 | 1 |
| Xylenes, Total | <0.00054 | | 0.0034 | 0.00054 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 05:46 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 108 | | 75 - 131 | 06/05/18 11:24 | 06/13/18 05:46 | 1 |
| Dibromofluoromethane | 80 | | 75 - 126 | 06/05/18 11:24 | 06/13/18 05:46 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 80 | | 70 - 134 | 06/05/18 11:24 | 06/13/18 05:46 | 1 |
| Toluene-d8 (Surr) | 99 | | 75 - 124 | 06/05/18 11:24 | 06/13/18 05:46 | 1 |

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Acenaphthene | <0.0072 | | 0.040 | 0.0072 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| Acenaphthylene | <0.0053 | | 0.040 | 0.0053 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| Anthracene | <0.0067 | | 0.040 | 0.0067 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| Benzo[a]anthracene | 0.028 | J | 0.040 | 0.0054 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146393-1

Client Sample ID: 2409V-1-B08 (0-5) Dup

Lab Sample ID: 500-146393-5

Date Collected: 06/04/18 11:40

Matrix: Solid

Date Received: 06/04/18 18:10

Percent Solids: 81.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|--------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Benzo[a]pyrene | 0.035 | J | 0.040 | 0.0078 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| Benzo[b]fluoranthene | 0.041 | | 0.040 | 0.0087 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| Benzo[g,h,i]perylene | 0.018 | J | 0.040 | 0.013 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| Benzo[k]fluoranthene | 0.012 | J | 0.040 | 0.012 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| Bis(2-chloroethoxy)methane | <0.041 | | 0.20 | 0.041 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| Bis(2-chloroethyl)ether | <0.060 | | 0.20 | 0.060 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| Bis(2-ethylhexyl) phthalate | <0.073 | | 0.20 | 0.073 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| 4-Bromophenyl phenyl ether | <0.053 | | 0.20 | 0.053 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| Butyl benzyl phthalate | <0.076 | | 0.20 | 0.076 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| Carbazole | 0.12 | J | 0.20 | 0.10 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| 4-Chloroaniline | <0.19 | | 0.81 | 0.19 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| 4-Chloro-3-methylphenol | <0.14 | | 0.40 | 0.14 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| 2-Chloronaphthalene | <0.044 | | 0.20 | 0.044 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| 2-Chlorophenol | <0.069 | | 0.20 | 0.069 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| 4-Chlorophenyl phenyl ether | <0.047 | | 0.20 | 0.047 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| Chrysene | 0.033 | J | 0.040 | 0.011 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| Dibenz(a,h)anthracene | <0.0078 | | 0.040 | 0.0078 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| Dibenzofuran | <0.047 | | 0.20 | 0.047 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| 1,2-Dichlorobenzene | <0.048 | | 0.20 | 0.048 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| 1,3-Dichlorobenzene | <0.045 | | 0.20 | 0.045 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| 1,4-Dichlorobenzene | <0.052 | | 0.20 | 0.052 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| 3,3'-Dichlorobenzidine | <0.056 | | 0.20 | 0.056 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| 2,4-Dichlorophenol | <0.095 | | 0.40 | 0.095 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| Diethyl phthalate | <0.068 | | 0.20 | 0.068 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| 2,4-Dimethylphenol | <0.15 | | 0.40 | 0.15 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| Dimethyl phthalate | <0.052 | | 0.20 | 0.052 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| Di-n-butyl phthalate | <0.061 | | 0.20 | 0.061 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| 4,6-Dinitro-2-methylphenol | <0.32 | | 0.81 | 0.32 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| 2,4-Dinitrophenol | <0.71 | | 0.81 | 0.71 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| 2,4-Dinitrotoluene | <0.064 | | 0.20 | 0.064 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| 2,6-Dinitrotoluene | <0.079 | | 0.20 | 0.079 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| Di-n-octyl phthalate | <0.066 | | 0.20 | 0.066 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| Fluoranthene | 0.048 | | 0.040 | 0.0075 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| Fluorene | <0.0056 | | 0.040 | 0.0056 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| Hexachlorobenzene | <0.0093 | | 0.081 | 0.0093 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| Hexachlorobutadiene | <0.063 | | 0.20 | 0.063 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| Hexachlorocyclopentadiene | <0.23 | | 0.81 | 0.23 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| Hexachloroethane | <0.061 | | 0.20 | 0.061 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| Indeno[1,2,3-cd]pyrene | 0.017 | J | 0.040 | 0.010 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| Isophorone | <0.045 | | 0.20 | 0.045 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| 2-Methylnaphthalene | <0.0074 | | 0.081 | 0.0074 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| 2-Methylphenol | <0.064 | | 0.20 | 0.064 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| 3 & 4 Methylphenol | <0.067 | | 0.20 | 0.067 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| Naphthalene | <0.0062 | | 0.040 | 0.0062 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| 2-Nitroaniline | <0.054 | | 0.20 | 0.054 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| 3-Nitroaniline | <0.12 | | 0.40 | 0.12 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| 4-Nitroaniline | <0.17 | | 0.40 | 0.17 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| Nitrobenzene | <0.010 | | 0.040 | 0.010 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| 2-Nitrophenol | <0.095 | | 0.40 | 0.095 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146393-1

Client Sample ID: 2409V-1-B08 (0-5) Dup

Lab Sample ID: 500-146393-5

Date Collected: 06/04/18 11:40

Matrix: Solid

Date Received: 06/04/18 18:10

Percent Solids: 81.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| 4-Nitrophenol | <0.38 | | 0.81 | 0.38 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| N-Nitrosodi-n-propylamine | <0.049 | | 0.081 | 0.049 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| N-Nitrosodiphenylamine | <0.047 | | 0.20 | 0.047 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| 2,2'-oxybis[1-chloropropane] | <0.047 | | 0.20 | 0.047 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| Pentachlorophenol | <0.64 | | 0.81 | 0.64 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| Phenanthrene | 0.021 | J | 0.040 | 0.0056 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| Phenol | <0.089 | | 0.20 | 0.089 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| Pyrene | 0.049 | | 0.040 | 0.0080 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| 1,2,4-Trichlorobenzene | <0.043 | | 0.20 | 0.043 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| 2,4,5-Trichlorophenol | <0.092 | | 0.40 | 0.092 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| 2,4,6-Trichlorophenol | <0.14 | | 0.40 | 0.14 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 14:36 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl | 97 | | 44 - 121 | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| 2-Fluorophenol | 122 | | 46 - 133 | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| Nitrobenzene-d5 | 93 | | 41 - 120 | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| Phenol-d5 | 111 | | 46 - 125 | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| Terphenyl-d14 | 104 | | 35 - 160 | 06/07/18 07:15 | 06/11/18 14:36 | 1 |
| 2,4,6-Tribromophenol | 80 | | 25 - 139 | 06/07/18 07:15 | 06/11/18 14:36 | 1 |

Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <0.22 | | 1.1 | 0.22 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:53 | 1 |
| Arsenic | 6.9 | | 0.57 | 0.19 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:53 | 1 |
| Barium | 74 | | 0.57 | 0.065 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:53 | 1 |
| Beryllium | 0.72 | | 0.23 | 0.053 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:53 | 1 |
| Cadmium | 0.28 | B | 0.11 | 0.020 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:53 | 1 |
| Chromium | 16 | | 0.57 | 0.28 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:53 | 1 |
| Cobalt | 12 | | 0.28 | 0.074 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:53 | 1 |
| Copper | 18 | | 0.57 | 0.16 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:53 | 1 |
| Iron | 18000 | | 11 | 5.9 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:53 | 1 |
| Lead | 25 | | 0.28 | 0.13 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:53 | 1 |
| Magnesium | 4100 | | 5.7 | 2.8 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:53 | 1 |
| Calcium | 3800 | B | 11 | 1.9 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:53 | 1 |
| Manganese | 530 | | 0.57 | 0.082 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:53 | 1 |
| Nickel | 29 | | 0.57 | 0.17 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:53 | 1 |
| Selenium | 1.3 | | 0.57 | 0.33 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:53 | 1 |
| Silver | 0.29 | | 0.28 | 0.073 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:53 | 1 |
| Thallium | <0.28 | | 0.57 | 0.28 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:53 | 1 |
| Vanadium | 23 | | 0.28 | 0.067 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:53 | 1 |
| Zinc | 66 | | 1.1 | 0.50 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:53 | 1 |
| Potassium | 1200 | | 28 | 10 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:53 | 1 |
| Sodium | 110 | | 57 | 8.4 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 00:53 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.010 | | 0.050 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 21:51 | 1 |
| Barium | 0.19 | J | 0.50 | 0.050 | mg/L | | 06/11/18 09:40 | 06/11/18 21:51 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 06/11/18 09:40 | 06/11/18 21:51 | 1 |
| Cadmium | 0.0020 | J | 0.0050 | 0.0020 | mg/L | | 06/11/18 09:40 | 06/11/18 21:51 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146393-1

Client Sample ID: 2409V-1-B08 (0-5) Dup

Lab Sample ID: 500-146393-5

Date Collected: 06/04/18 11:40

Matrix: Solid

Date Received: 06/04/18 18:10

Percent Solids: 81.9

Method: 6010B - Metals (ICP) - TCLP (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Calcium | 78 | | 5.0 | 0.50 | mg/L | | 06/11/18 09:40 | 06/11/18 21:51 | 1 |
| Chromium | <0.010 | | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 21:51 | 1 |
| Cobalt | <0.010 | | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 21:51 | 1 |
| Copper | <0.010 | | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 21:51 | 1 |
| Iron | 0.63 | | 0.40 | 0.20 | mg/L | | 06/11/18 09:40 | 06/11/18 21:51 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 06/11/18 09:40 | 06/11/18 21:51 | 1 |
| Magnesium | 24 | | 2.5 | 0.50 | mg/L | | 06/11/18 09:40 | 06/11/18 21:51 | 1 |
| Manganese | 0.067 | | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 21:51 | 1 |
| Nickel | 0.033 | B | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 21:51 | 1 |
| Potassium | 1.4 | J | 2.5 | 0.50 | mg/L | | 06/11/18 09:40 | 06/11/18 21:51 | 1 |
| Selenium | <0.020 | | 0.050 | 0.020 | mg/L | | 06/11/18 09:40 | 06/11/18 21:51 | 1 |
| Silver | <0.010 | | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 21:51 | 1 |
| Vanadium | <0.010 | | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 21:51 | 1 |
| Zinc | <0.020 | | 0.50 | 0.020 | mg/L | | 06/11/18 09:40 | 06/11/18 21:51 | 1 |

Method: 6020A - Metals (ICP/MS) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|---------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Antimony | <0.0060 | | 0.0060 | 0.0060 | mg/L | | 06/11/18 09:40 | 06/12/18 01:37 | 1 |
| Thallium | <0.0020 | | 0.0020 | 0.0020 | mg/L | | 06/11/18 09:40 | 06/12/18 01:37 | 1 |

Method: 7470A - TCLP Mercury - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|---------|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | 0.00020 | mg/L | | 06/11/18 13:25 | 06/12/18 12:29 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|--------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Mercury | 0.041 | | 0.020 | 0.0065 | mg/Kg | ☼ | 06/07/18 16:37 | 06/12/18 15:30 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|------------|-----------|------|------|-------|---|----------------|----------------|---------|
| Cyanide, Total | <0.18 | | 0.53 | 0.18 | mg/Kg | ☼ | 06/15/18 11:00 | 06/15/18 14:58 | 1 |
| pH | 7.5 | | 0.20 | 0.20 | SU | | | 06/11/18 16:52 | 1 |

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146393-1

Client Sample ID: 2409V-1-B08 (5-8)

Lab Sample ID: 500-146393-6

Date Collected: 06/04/18 11:45

Matrix: Solid

Date Received: 06/04/18 18:10

Percent Solids: 88.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------------|-----------|--------|---------|-------|---|----------------|----------------|---------|
| Acetone | 0.013 | J | 0.014 | 0.0061 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:15 | 1 |
| Benzene | <0.00036 | | 0.0014 | 0.00036 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:15 | 1 |
| Bromodichloromethane | <0.00029 | | 0.0014 | 0.00029 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:15 | 1 |
| Bromoform | <0.00041 | | 0.0014 | 0.00041 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:15 | 1 |
| Bromomethane | <0.0013 | * | 0.0035 | 0.0013 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:15 | 1 |
| 2-Butanone (MEK) | <0.0016 | | 0.0035 | 0.0016 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:15 | 1 |
| Carbon disulfide | <0.00073 | | 0.0035 | 0.00073 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:15 | 1 |
| Carbon tetrachloride | <0.00041 | | 0.0014 | 0.00041 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:15 | 1 |
| Chlorobenzene | <0.00052 | | 0.0014 | 0.00052 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:15 | 1 |
| Chloroethane | <0.0010 | * | 0.0035 | 0.0010 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:15 | 1 |
| Chloroform | <0.00049 | | 0.0014 | 0.00049 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:15 | 1 |
| Chloromethane | <0.0014 | * | 0.0035 | 0.0014 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:15 | 1 |
| cis-1,2-Dichloroethene | <0.00039 | | 0.0014 | 0.00039 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:15 | 1 |
| cis-1,3-Dichloropropene | <0.00042 | | 0.0014 | 0.00042 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:15 | 1 |
| Dibromochloromethane | <0.00046 | | 0.0014 | 0.00046 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:15 | 1 |
| 1,1-Dichloroethane | <0.00048 | | 0.0014 | 0.00048 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:15 | 1 |
| 1,2-Dichloroethane | <0.0011 | | 0.0035 | 0.0011 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:15 | 1 |
| 1,1-Dichloroethene | <0.00048 | | 0.0014 | 0.00048 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:15 | 1 |
| 1,2-Dichloropropane | <0.00036 | | 0.0014 | 0.00036 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:15 | 1 |
| 1,3-Dichloropropene, Total | <0.00049 | | 0.0014 | 0.00049 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:15 | 1 |
| Ethylbenzene | <0.00067 | | 0.0014 | 0.00067 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:15 | 1 |
| 2-Hexanone | <0.0011 | * | 0.0035 | 0.0011 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:15 | 1 |
| Methylene Chloride | <0.0014 | | 0.0035 | 0.0014 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:15 | 1 |
| 4-Methyl-2-pentanone (MIBK) | <0.0010 | * | 0.0035 | 0.0010 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:15 | 1 |
| Methyl tert-butyl ether | <0.00041 | | 0.0014 | 0.00041 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:15 | 1 |
| Styrene | <0.00043 | | 0.0014 | 0.00043 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:15 | 1 |
| 1,1,1,2-Tetrachloroethane | <0.00045 | * | 0.0014 | 0.00045 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:15 | 1 |
| Tetrachloroethene | <0.00048 | | 0.0014 | 0.00048 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:15 | 1 |
| Toluene | <0.00036 | | 0.0014 | 0.00036 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:15 | 1 |
| trans-1,2-Dichloroethene | <0.00062 | | 0.0014 | 0.00062 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:15 | 1 |
| trans-1,3-Dichloropropene | <0.00049 | | 0.0014 | 0.00049 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:15 | 1 |
| 1,1,1-Trichloroethane | <0.00047 | | 0.0014 | 0.00047 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:15 | 1 |
| 1,1,2-Trichloroethane | <0.00060 | | 0.0014 | 0.00060 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:15 | 1 |
| Trichloroethene | <0.00048 | | 0.0014 | 0.00048 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:15 | 1 |
| Vinyl acetate | <0.0012 | | 0.0035 | 0.0012 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:15 | 1 |
| Vinyl chloride | <0.00062 | * | 0.0014 | 0.00062 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:15 | 1 |
| Xylenes, Total | <0.00045 | | 0.0028 | 0.00045 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:15 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 120 | | 75 - 131 | 06/05/18 11:24 | 06/13/18 06:15 | 1 |
| Dibromofluoromethane | 81 | | 75 - 126 | 06/05/18 11:24 | 06/13/18 06:15 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 81 | | 70 - 134 | 06/05/18 11:24 | 06/13/18 06:15 | 1 |
| Toluene-d8 (Surr) | 102 | | 75 - 124 | 06/05/18 11:24 | 06/13/18 06:15 | 1 |

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------|---------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Acenaphthene | <0.0064 | | 0.036 | 0.0064 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| Acenaphthylene | <0.0047 | | 0.036 | 0.0047 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| Anthracene | <0.0060 | | 0.036 | 0.0060 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| Benzo[a]anthracene | <0.0048 | | 0.036 | 0.0048 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146393-1

Client Sample ID: 2409V-1-B08 (5-8)

Lab Sample ID: 500-146393-6

Date Collected: 06/04/18 11:45

Matrix: Solid

Date Received: 06/04/18 18:10

Percent Solids: 88.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Benzo[a]pyrene | <0.0069 | | 0.036 | 0.0069 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| Benzo[b]fluoranthene | <0.0077 | | 0.036 | 0.0077 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| Benzo[g,h,i]perylene | <0.012 | | 0.036 | 0.012 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| Benzo[k]fluoranthene | <0.011 | | 0.036 | 0.011 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| Bis(2-chloroethoxy)methane | <0.037 | | 0.18 | 0.037 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| Bis(2-chloroethyl)ether | <0.054 | | 0.18 | 0.054 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| Bis(2-ethylhexyl) phthalate | <0.066 | | 0.18 | 0.066 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| 4-Bromophenyl phenyl ether | <0.047 | | 0.18 | 0.047 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| Butyl benzyl phthalate | <0.068 | | 0.18 | 0.068 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| Carbazole | <0.090 | | 0.18 | 0.090 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| 4-Chloroaniline | <0.17 | | 0.72 | 0.17 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| 4-Chloro-3-methylphenol | <0.12 | | 0.36 | 0.12 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| 2-Chloronaphthalene | <0.040 | | 0.18 | 0.040 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| 2-Chlorophenol | <0.061 | | 0.18 | 0.061 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| 4-Chlorophenyl phenyl ether | <0.042 | | 0.18 | 0.042 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| Chrysene | 0.018 | J | 0.036 | 0.0098 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| Dibenz(a,h)anthracene | <0.0069 | | 0.036 | 0.0069 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| Dibenzofuran | <0.042 | | 0.18 | 0.042 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| 1,2-Dichlorobenzene | <0.043 | | 0.18 | 0.043 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| 1,3-Dichlorobenzene | <0.040 | | 0.18 | 0.040 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| 1,4-Dichlorobenzene | <0.046 | | 0.18 | 0.046 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| 3,3'-Dichlorobenzidine | <0.050 | | 0.18 | 0.050 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| 2,4-Dichlorophenol | <0.085 | | 0.36 | 0.085 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| Diethyl phthalate | <0.061 | | 0.18 | 0.061 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| 2,4-Dimethylphenol | <0.14 | | 0.36 | 0.14 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| Dimethyl phthalate | <0.047 | | 0.18 | 0.047 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| Di-n-butyl phthalate | <0.055 | | 0.18 | 0.055 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| 4,6-Dinitro-2-methylphenol | <0.29 | | 0.72 | 0.29 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| 2,4-Dinitrophenol | <0.63 | | 0.72 | 0.63 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| 2,4-Dinitrotoluene | <0.057 | | 0.18 | 0.057 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| 2,6-Dinitrotoluene | <0.070 | | 0.18 | 0.070 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| Di-n-octyl phthalate | <0.058 | | 0.18 | 0.058 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| Fluoranthene | <0.0066 | | 0.036 | 0.0066 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| Fluorene | <0.0050 | | 0.036 | 0.0050 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| Hexachlorobenzene | <0.0083 | | 0.072 | 0.0083 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| Hexachlorobutadiene | <0.056 | | 0.18 | 0.056 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| Hexachlorocyclopentadiene | <0.21 | | 0.72 | 0.21 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| Hexachloroethane | <0.054 | | 0.18 | 0.054 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| Indeno[1,2,3-cd]pyrene | <0.0093 | | 0.036 | 0.0093 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| Isophorone | <0.040 | | 0.18 | 0.040 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| 2-Methylnaphthalene | 0.033 | J | 0.072 | 0.0066 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| 2-Methylphenol | <0.058 | | 0.18 | 0.058 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| 3 & 4 Methylphenol | <0.060 | | 0.18 | 0.060 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| Naphthalene | <0.0055 | | 0.036 | 0.0055 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| 2-Nitroaniline | <0.048 | | 0.18 | 0.048 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| 3-Nitroaniline | <0.11 | | 0.36 | 0.11 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| 4-Nitroaniline | <0.15 | | 0.36 | 0.15 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| Nitrobenzene | <0.0089 | | 0.036 | 0.0089 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| 2-Nitrophenol | <0.085 | | 0.36 | 0.085 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146393-1

Client Sample ID: 2409V-1-B08 (5-8)

Lab Sample ID: 500-146393-6

Date Collected: 06/04/18 11:45

Matrix: Solid

Date Received: 06/04/18 18:10

Percent Solids: 88.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| 4-Nitrophenol | <0.34 | | 0.72 | 0.34 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| N-Nitrosodi-n-propylamine | <0.044 | | 0.072 | 0.044 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| N-Nitrosodiphenylamine | <0.042 | | 0.18 | 0.042 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| 2,2'-oxybis[1-chloropropane] | <0.042 | | 0.18 | 0.042 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| Pentachlorophenol | <0.58 | | 0.72 | 0.58 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| Phenanthrene | 0.030 | J | 0.036 | 0.0050 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| Phenol | <0.080 | | 0.18 | 0.080 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| Pyrene | <0.0071 | | 0.036 | 0.0071 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| 1,2,4-Trichlorobenzene | <0.039 | | 0.18 | 0.039 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| 2,4,5-Trichlorophenol | <0.082 | | 0.36 | 0.082 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| 2,4,6-Trichlorophenol | <0.12 | | 0.36 | 0.12 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 15:04 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl | 96 | | 44 - 121 | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| 2-Fluorophenol | 123 | | 46 - 133 | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| Nitrobenzene-d5 | 94 | | 41 - 120 | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| Phenol-d5 | 114 | | 46 - 125 | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| Terphenyl-d14 | 108 | | 35 - 160 | 06/07/18 07:15 | 06/11/18 15:04 | 1 |
| 2,4,6-Tribromophenol | 68 | | 25 - 139 | 06/07/18 07:15 | 06/11/18 15:04 | 1 |

Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <0.22 | | 1.1 | 0.22 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:05 | 1 |
| Arsenic | 6.8 | | 0.56 | 0.19 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:05 | 1 |
| Barium | 31 | | 0.56 | 0.064 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:05 | 1 |
| Beryllium | 0.58 | | 0.22 | 0.052 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:05 | 1 |
| Cadmium | 0.19 | B | 0.11 | 0.020 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:05 | 1 |
| Chromium | 12 | | 0.56 | 0.28 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:05 | 1 |
| Cobalt | 11 | | 0.28 | 0.074 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:05 | 1 |
| Copper | 23 | | 0.56 | 0.16 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:05 | 1 |
| Iron | 16000 | | 11 | 5.8 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:05 | 1 |
| Lead | 21 | | 0.28 | 0.13 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:05 | 1 |
| Magnesium | 29000 | | 5.6 | 2.8 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:05 | 1 |
| Calcium | 80000 | B | 110 | 19 | mg/Kg | ☼ | 06/07/18 17:05 | 06/11/18 23:59 | 10 |
| Manganese | 390 | | 0.56 | 0.081 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:05 | 1 |
| Nickel | 27 | | 0.56 | 0.16 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:05 | 1 |
| Selenium | 0.71 | | 0.56 | 0.33 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:05 | 1 |
| Silver | 0.18 | J | 0.28 | 0.072 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:05 | 1 |
| Thallium | <0.28 | | 0.56 | 0.28 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:05 | 1 |
| Vanadium | 14 | | 0.28 | 0.066 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:05 | 1 |
| Zinc | 40 | | 1.1 | 0.49 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:05 | 1 |
| Potassium | 2000 | | 28 | 9.9 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:05 | 1 |
| Sodium | 150 | | 56 | 8.3 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:05 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.010 | | 0.050 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 22:03 | 1 |
| Barium | 0.56 | | 0.50 | 0.050 | mg/L | | 06/11/18 09:40 | 06/11/18 22:03 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 06/11/18 09:40 | 06/11/18 22:03 | 1 |
| Cadmium | 0.0022 | J | 0.0050 | 0.0020 | mg/L | | 06/11/18 09:40 | 06/11/18 22:03 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146393-1

Client Sample ID: 2409V-1-B08 (5-8)

Lab Sample ID: 500-146393-6

Date Collected: 06/04/18 11:45

Matrix: Solid

Date Received: 06/04/18 18:10

Percent Solids: 88.4

Method: 6010B - Metals (ICP) - TCLP (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|---------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Calcium | 540 | | 5.0 | 0.50 | mg/L | | 06/11/18 09:40 | 06/11/18 22:03 | 1 |
| Chromium | <0.010 | | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 22:03 | 1 |
| Cobalt | 0.034 | | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 22:03 | 1 |
| Copper | 0.014 | J | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 22:03 | 1 |
| Iron | <0.20 | | 0.40 | 0.20 | mg/L | | 06/11/18 09:40 | 06/11/18 22:03 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 06/11/18 09:40 | 06/11/18 22:03 | 1 |
| Magnesium | 42 | | 2.5 | 0.50 | mg/L | | 06/11/18 09:40 | 06/11/18 22:03 | 1 |
| Manganese | 3.3 | | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 22:03 | 1 |
| Nickel | 0.062 | B | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 22:03 | 1 |
| Potassium | 4.6 | | 2.5 | 0.50 | mg/L | | 06/11/18 09:40 | 06/11/18 22:03 | 1 |
| Selenium | <0.020 | | 0.050 | 0.020 | mg/L | | 06/11/18 09:40 | 06/11/18 22:03 | 1 |
| Silver | <0.010 | | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 22:03 | 1 |
| Vanadium | <0.010 | | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 22:03 | 1 |
| Zinc | <0.020 | | 0.50 | 0.020 | mg/L | | 06/11/18 09:40 | 06/11/18 22:03 | 1 |

Method: 6010B - Metals (ICP) - SPLP East

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Manganese | 0.066 | | 0.025 | 0.010 | mg/L | | 06/12/18 07:24 | 06/12/18 19:03 | 1 |

Method: 6020A - Metals (ICP/MS) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|---------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Antimony | <0.0060 | | 0.0060 | 0.0060 | mg/L | | 06/11/18 09:40 | 06/12/18 01:41 | 1 |
| Thallium | <0.0020 | | 0.0020 | 0.0020 | mg/L | | 06/11/18 09:40 | 06/12/18 01:41 | 1 |

Method: 7470A - TCLP Mercury - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|---------|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | 0.00020 | mg/L | | 06/11/18 13:25 | 06/12/18 12:30 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Mercury | 0.018 | | 0.017 | 0.0058 | mg/Kg | ☼ | 06/07/18 16:37 | 06/12/18 15:31 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Cyanide, Total | <0.16 | | 0.48 | 0.16 | mg/Kg | ☼ | 06/15/18 11:00 | 06/15/18 14:58 | 1 |
| pH | 7.9 | | 0.20 | 0.20 | SU | | | 06/11/18 16:52 | 1 |

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146393-1

Client Sample ID: 2409V-1-B07 (0-5)

Lab Sample ID: 500-146393-7

Date Collected: 06/04/18 14:20

Matrix: Solid

Date Received: 06/04/18 18:10

Percent Solids: 82.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------------|-----------|--------|---------|-------|---|----------------|----------------|---------|
| Acetone | 0.012 | J | 0.016 | 0.0069 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:44 | 1 |
| Benzene | <0.00041 | | 0.0016 | 0.00041 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:44 | 1 |
| Bromodichloromethane | <0.00032 | | 0.0016 | 0.00032 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:44 | 1 |
| Bromoform | <0.00047 | | 0.0016 | 0.00047 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:44 | 1 |
| Bromomethane | <0.0015 | * | 0.0040 | 0.0015 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:44 | 1 |
| 2-Butanone (MEK) | <0.0018 | | 0.0040 | 0.0018 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:44 | 1 |
| Carbon disulfide | <0.00083 | | 0.0040 | 0.00083 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:44 | 1 |
| Carbon tetrachloride | <0.00046 | | 0.0016 | 0.00046 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:44 | 1 |
| Chlorobenzene | <0.00059 | | 0.0016 | 0.00059 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:44 | 1 |
| Chloroethane | <0.0012 | * | 0.0040 | 0.0012 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:44 | 1 |
| Chloroform | <0.00055 | | 0.0016 | 0.00055 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:44 | 1 |
| Chloromethane | <0.0016 | * | 0.0040 | 0.0016 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:44 | 1 |
| cis-1,2-Dichloroethene | <0.00045 | | 0.0016 | 0.00045 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:44 | 1 |
| cis-1,3-Dichloropropene | <0.00048 | | 0.0016 | 0.00048 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:44 | 1 |
| Dibromochloromethane | <0.00052 | | 0.0016 | 0.00052 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:44 | 1 |
| 1,1-Dichloroethane | <0.00055 | | 0.0016 | 0.00055 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:44 | 1 |
| 1,2-Dichloroethane | <0.0012 | | 0.0040 | 0.0012 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:44 | 1 |
| 1,1-Dichloroethene | <0.00055 | | 0.0016 | 0.00055 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:44 | 1 |
| 1,2-Dichloropropane | <0.00041 | | 0.0016 | 0.00041 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:44 | 1 |
| 1,3-Dichloropropane, Total | <0.00056 | | 0.0016 | 0.00056 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:44 | 1 |
| Ethylbenzene | <0.00076 | | 0.0016 | 0.00076 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:44 | 1 |
| 2-Hexanone | <0.0012 | * | 0.0040 | 0.0012 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:44 | 1 |
| Methylene Chloride | <0.0016 | | 0.0040 | 0.0016 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:44 | 1 |
| 4-Methyl-2-pentanone (MIBK) | <0.0012 | * | 0.0040 | 0.0012 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:44 | 1 |
| Methyl tert-butyl ether | <0.00047 | | 0.0016 | 0.00047 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:44 | 1 |
| Styrene | <0.00048 | | 0.0016 | 0.00048 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:44 | 1 |
| 1,1,2,2-Tetrachloroethane | <0.00051 | * | 0.0016 | 0.00051 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:44 | 1 |
| Tetrachloroethene | <0.00054 | | 0.0016 | 0.00054 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:44 | 1 |
| Toluene | <0.00040 | | 0.0016 | 0.00040 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:44 | 1 |
| trans-1,2-Dichloroethene | <0.00071 | | 0.0016 | 0.00071 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:44 | 1 |
| trans-1,3-Dichloropropene | <0.00056 | | 0.0016 | 0.00056 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:44 | 1 |
| 1,1,1-Trichloroethane | <0.00053 | | 0.0016 | 0.00053 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:44 | 1 |
| 1,1,2-Trichloroethane | <0.00068 | | 0.0016 | 0.00068 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:44 | 1 |
| Trichloroethene | <0.00054 | | 0.0016 | 0.00054 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:44 | 1 |
| Vinyl acetate | <0.0014 | | 0.0040 | 0.0014 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:44 | 1 |
| Vinyl chloride | <0.00071 | * | 0.0016 | 0.00071 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:44 | 1 |
| Xylenes, Total | <0.00051 | | 0.0032 | 0.00051 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 06:44 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 109 | | 75 - 131 | 06/05/18 11:24 | 06/13/18 06:44 | 1 |
| Dibromofluoromethane | 82 | | 75 - 126 | 06/05/18 11:24 | 06/13/18 06:44 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 82 | | 70 - 134 | 06/05/18 11:24 | 06/13/18 06:44 | 1 |
| Toluene-d8 (Surr) | 98 | | 75 - 124 | 06/05/18 11:24 | 06/13/18 06:44 | 1 |

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------|---------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Acenaphthene | <0.0070 | | 0.039 | 0.0070 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| Acenaphthylene | <0.0051 | | 0.039 | 0.0051 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| Anthracene | <0.0065 | | 0.039 | 0.0065 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| Benzo[a]anthracene | <0.0052 | | 0.039 | 0.0052 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146393-1

Client Sample ID: 2409V-1-B07 (0-5)

Lab Sample ID: 500-146393-7

Date Collected: 06/04/18 14:20

Matrix: Solid

Date Received: 06/04/18 18:10

Percent Solids: 82.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|---------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Benzo[a]pyrene | <0.0075 | | 0.039 | 0.0075 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| Benzo[b]fluoranthene | <0.0084 | | 0.039 | 0.0084 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| Benzo[g,h,i]perylene | <0.013 | | 0.039 | 0.013 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| Benzo[k]fluoranthene | <0.011 | | 0.039 | 0.011 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| Bis(2-chloroethoxy)methane | <0.040 | | 0.20 | 0.040 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| Bis(2-chloroethyl)ether | <0.058 | | 0.20 | 0.058 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| Bis(2-ethylhexyl) phthalate | <0.071 | | 0.20 | 0.071 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| 4-Bromophenyl phenyl ether | <0.051 | | 0.20 | 0.051 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| Butyl benzyl phthalate | <0.074 | | 0.20 | 0.074 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| Carbazole | <0.097 | | 0.20 | 0.097 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| 4-Chloroaniline | <0.18 | | 0.79 | 0.18 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| 4-Chloro-3-methylphenol | <0.13 | | 0.39 | 0.13 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| 2-Chloronaphthalene | <0.043 | | 0.20 | 0.043 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| 2-Chlorophenol | <0.067 | | 0.20 | 0.067 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| 4-Chlorophenyl phenyl ether | <0.046 | | 0.20 | 0.046 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| Chrysene | <0.011 | | 0.039 | 0.011 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| Dibenz(a,h)anthracene | <0.0075 | | 0.039 | 0.0075 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| Dibenzofuran | <0.046 | | 0.20 | 0.046 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| 1,2-Dichlorobenzene | <0.047 | | 0.20 | 0.047 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| 1,3-Dichlorobenzene | <0.044 | | 0.20 | 0.044 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| 1,4-Dichlorobenzene | <0.050 | | 0.20 | 0.050 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| 3,3'-Dichlorobenzidine | <0.055 | | 0.20 | 0.055 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| 2,4-Dichlorophenol | <0.093 | | 0.39 | 0.093 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| Diethyl phthalate | <0.066 | | 0.20 | 0.066 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| 2,4-Dimethylphenol | <0.15 | | 0.39 | 0.15 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| Dimethyl phthalate | <0.051 | | 0.20 | 0.051 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| Di-n-butyl phthalate | <0.059 | | 0.20 | 0.059 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| 4,6-Dinitro-2-methylphenol | <0.31 | | 0.79 | 0.31 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| 2,4-Dinitrophenol | <0.69 | | 0.79 | 0.69 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| 2,4-Dinitrotoluene | <0.062 | | 0.20 | 0.062 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| 2,6-Dinitrotoluene | <0.077 | | 0.20 | 0.077 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| Di-n-octyl phthalate | <0.064 | | 0.20 | 0.064 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| Fluoranthene | <0.0072 | | 0.039 | 0.0072 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| Fluorene | <0.0055 | | 0.039 | 0.0055 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| Hexachlorobenzene | <0.0090 | | 0.079 | 0.0090 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| Hexachlorobutadiene | <0.061 | | 0.20 | 0.061 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| Hexachlorocyclopentadiene | <0.22 | | 0.79 | 0.22 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| Hexachloroethane | <0.059 | | 0.20 | 0.059 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| Indeno[1,2,3-cd]pyrene | <0.010 | | 0.039 | 0.010 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| Isophorone | <0.044 | | 0.20 | 0.044 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| 2-Methylnaphthalene | <0.0072 | | 0.079 | 0.0072 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| 2-Methylphenol | <0.063 | | 0.20 | 0.063 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| 3 & 4 Methylphenol | <0.065 | | 0.20 | 0.065 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| Naphthalene | <0.0060 | | 0.039 | 0.0060 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| 2-Nitroaniline | <0.052 | | 0.20 | 0.052 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| 3-Nitroaniline | <0.12 | | 0.39 | 0.12 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| 4-Nitroaniline | <0.16 | | 0.39 | 0.16 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| Nitrobenzene | <0.0097 | | 0.039 | 0.0097 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| 2-Nitrophenol | <0.092 | | 0.39 | 0.092 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146393-1

Client Sample ID: 2409V-1-B07 (0-5)

Lab Sample ID: 500-146393-7

Date Collected: 06/04/18 14:20

Matrix: Solid

Date Received: 06/04/18 18:10

Percent Solids: 82.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|---------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| 4-Nitrophenol | <0.37 | | 0.79 | 0.37 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| N-Nitrosodi-n-propylamine | <0.048 | | 0.079 | 0.048 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| N-Nitrosodiphenylamine | <0.046 | | 0.20 | 0.046 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| 2,2'-oxybis[1-chloropropane] | <0.045 | | 0.20 | 0.045 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| Pentachlorophenol | <0.63 | | 0.79 | 0.63 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| Phenanthrene | <0.0054 | | 0.039 | 0.0054 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| Phenol | <0.087 | | 0.20 | 0.087 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| Pyrene | <0.0077 | | 0.039 | 0.0077 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| 1,2,4-Trichlorobenzene | <0.042 | | 0.20 | 0.042 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| 2,4,5-Trichlorophenol | <0.089 | | 0.39 | 0.089 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| 2,4,6-Trichlorophenol | <0.13 | | 0.39 | 0.13 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:17 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl | 98 | | 44 - 121 | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| 2-Fluorophenol | 126 | | 46 - 133 | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| Nitrobenzene-d5 | 92 | | 41 - 120 | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| Phenol-d5 | 112 | | 46 - 125 | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| Terphenyl-d14 | 114 | | 35 - 160 | 06/07/18 07:15 | 06/11/18 12:17 | 1 |
| 2,4,6-Tribromophenol | 74 | | 25 - 139 | 06/07/18 07:15 | 06/11/18 12:17 | 1 |

Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <0.22 | | 1.1 | 0.22 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:09 | 1 |
| Arsenic | 4.0 | | 0.55 | 0.19 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:09 | 1 |
| Barium | 52 | | 0.55 | 0.063 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:09 | 1 |
| Beryllium | 0.64 | | 0.22 | 0.052 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:09 | 1 |
| Cadmium | 0.14 | B | 0.11 | 0.020 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:09 | 1 |
| Chromium | 15 | | 0.55 | 0.27 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:09 | 1 |
| Cobalt | 7.1 | | 0.28 | 0.073 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:09 | 1 |
| Copper | 17 | | 0.55 | 0.15 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:09 | 1 |
| Iron | 18000 | | 11 | 5.8 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:09 | 1 |
| Lead | 12 | | 0.28 | 0.13 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:09 | 1 |
| Magnesium | 4200 | | 5.5 | 2.7 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:09 | 1 |
| Calcium | 3600 | B | 11 | 1.9 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:09 | 1 |
| Manganese | 190 | | 0.55 | 0.080 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:09 | 1 |
| Nickel | 21 | | 0.55 | 0.16 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:09 | 1 |
| Selenium | 0.97 | | 0.55 | 0.33 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:09 | 1 |
| Silver | 0.23 | J | 0.28 | 0.071 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:09 | 1 |
| Thallium | <0.28 | | 0.55 | 0.28 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:09 | 1 |
| Vanadium | 21 | | 0.28 | 0.065 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:09 | 1 |
| Zinc | 54 | | 1.1 | 0.49 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:09 | 1 |
| Potassium | 910 | | 28 | 9.8 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:09 | 1 |
| Sodium | 410 | | 55 | 8.2 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:09 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.010 | | 0.050 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 22:07 | 1 |
| Barium | 0.21 | J | 0.50 | 0.050 | mg/L | | 06/11/18 09:40 | 06/11/18 22:07 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 06/11/18 09:40 | 06/11/18 22:07 | 1 |
| Cadmium | 0.0020 | J | 0.0050 | 0.0020 | mg/L | | 06/11/18 09:40 | 06/11/18 22:07 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146393-1

Client Sample ID: 2409V-1-B07 (0-5)

Lab Sample ID: 500-146393-7

Date Collected: 06/04/18 14:20

Matrix: Solid

Date Received: 06/04/18 18:10

Percent Solids: 82.6

Method: 6010B - Metals (ICP) - TCLP (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|------------|--------|--------|------|---|----------------|----------------|---------|
| Calcium | 100 | | 5.0 | 0.50 | mg/L | | 06/11/18 09:40 | 06/11/18 22:07 | 1 |
| Chromium | <0.010 | | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 22:07 | 1 |
| Cobalt | <0.010 | | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 22:07 | 1 |
| Copper | <0.010 | | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 22:07 | 1 |
| Iron | 0.23 | J | 0.40 | 0.20 | mg/L | | 06/11/18 09:40 | 06/11/18 22:07 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 06/11/18 09:40 | 06/11/18 22:07 | 1 |
| Magnesium | 43 | | 2.5 | 0.50 | mg/L | | 06/11/18 09:40 | 06/11/18 22:07 | 1 |
| Manganese | 0.21 | | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 22:07 | 1 |
| Nickel | 0.020 | J B | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 22:07 | 1 |
| Potassium | 0.71 | J | 2.5 | 0.50 | mg/L | | 06/11/18 09:40 | 06/11/18 22:07 | 1 |
| Selenium | <0.020 | | 0.050 | 0.020 | mg/L | | 06/11/18 09:40 | 06/11/18 22:07 | 1 |
| Silver | <0.010 | | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 22:07 | 1 |
| Vanadium | <0.010 | | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 22:07 | 1 |
| Zinc | <0.020 | | 0.50 | 0.020 | mg/L | | 06/11/18 09:40 | 06/11/18 22:07 | 1 |

Method: 6010B - Metals (ICP) - SPLP East

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|-------------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Manganese | 0.25 | | 0.025 | 0.010 | mg/L | | 06/12/18 07:24 | 06/12/18 19:07 | 1 |

Method: 6020A - Metals (ICP/MS) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|---------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Antimony | <0.0060 | | 0.0060 | 0.0060 | mg/L | | 06/11/18 09:40 | 06/12/18 01:45 | 1 |
| Thallium | <0.0020 | | 0.0020 | 0.0020 | mg/L | | 06/11/18 09:40 | 06/12/18 01:45 | 1 |

Method: 7470A - TCLP Mercury - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|---------|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | 0.00020 | mg/L | | 06/11/18 13:25 | 06/12/18 12:32 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|--------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Mercury | 0.026 | | 0.018 | 0.0061 | mg/Kg | ☼ | 06/07/18 16:37 | 06/12/18 15:33 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|------------|-----------|------|------|-------|---|----------------|----------------|---------|
| Cyanide, Total | <0.18 | | 0.51 | 0.18 | mg/Kg | ☼ | 06/15/18 11:00 | 06/15/18 14:59 | 1 |
| pH | 8.3 | | 0.20 | 0.20 | SU | | | 06/11/18 16:52 | 1 |

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146393-1

Client Sample ID: 2409V-1-B07 (5-10)

Lab Sample ID: 500-146393-8

Date Collected: 06/04/18 14:25

Matrix: Solid

Date Received: 06/04/18 18:10

Percent Solids: 88.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|-----------|--------|---------|-------|---|----------------|----------------|---------|
| Acetone | 0.011 | J | 0.013 | 0.0056 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 07:13 | 1 |
| Benzene | <0.00033 | | 0.0013 | 0.00033 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 07:13 | 1 |
| Bromodichloromethane | <0.00026 | | 0.0013 | 0.00026 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 07:13 | 1 |
| Bromoform | <0.00038 | | 0.0013 | 0.00038 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 07:13 | 1 |
| Bromomethane | <0.0012 | * | 0.0032 | 0.0012 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 07:13 | 1 |
| 2-Butanone (MEK) | <0.0014 | | 0.0032 | 0.0014 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 07:13 | 1 |
| Carbon disulfide | <0.00067 | | 0.0032 | 0.00067 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 07:13 | 1 |
| Carbon tetrachloride | <0.00038 | | 0.0013 | 0.00038 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 07:13 | 1 |
| Chlorobenzene | <0.00048 | | 0.0013 | 0.00048 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 07:13 | 1 |
| Chloroethane | <0.00096 | * | 0.0032 | 0.00096 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 07:13 | 1 |
| Chloroform | <0.00045 | | 0.0013 | 0.00045 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 07:13 | 1 |
| Chloromethane | <0.0013 | * | 0.0032 | 0.0013 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 07:13 | 1 |
| cis-1,2-Dichloroethene | <0.00036 | | 0.0013 | 0.00036 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 07:13 | 1 |
| cis-1,3-Dichloropropene | <0.00039 | | 0.0013 | 0.00039 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 07:13 | 1 |
| Dibromochloromethane | <0.00042 | | 0.0013 | 0.00042 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 07:13 | 1 |
| 1,1-Dichloroethane | <0.00044 | | 0.0013 | 0.00044 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 07:13 | 1 |
| 1,2-Dichloroethane | <0.0010 | | 0.0032 | 0.0010 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 07:13 | 1 |
| 1,1-Dichloroethene | <0.00045 | | 0.0013 | 0.00045 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 07:13 | 1 |
| 1,2-Dichloropropane | <0.00034 | | 0.0013 | 0.00034 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 07:13 | 1 |
| 1,3-Dichloropropane, Total | <0.00046 | | 0.0013 | 0.00046 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 07:13 | 1 |
| Ethylbenzene | <0.00062 | | 0.0013 | 0.00062 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 07:13 | 1 |
| 2-Hexanone | <0.0010 | * | 0.0032 | 0.0010 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 07:13 | 1 |
| Methylene Chloride | <0.0013 | | 0.0032 | 0.0013 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 07:13 | 1 |
| 4-Methyl-2-pentanone (MIBK) | <0.00096 | * | 0.0032 | 0.00096 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 07:13 | 1 |
| Methyl tert-butyl ether | <0.00038 | | 0.0013 | 0.00038 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 07:13 | 1 |
| Styrene | <0.00039 | | 0.0013 | 0.00039 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 07:13 | 1 |
| 1,1,2,2-Tetrachloroethane | <0.00041 | * | 0.0013 | 0.00041 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 07:13 | 1 |
| Tetrachloroethene | <0.00044 | | 0.0013 | 0.00044 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 07:13 | 1 |
| Toluene | <0.00033 | | 0.0013 | 0.00033 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 07:13 | 1 |
| trans-1,2-Dichloroethene | <0.00057 | | 0.0013 | 0.00057 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 07:13 | 1 |
| trans-1,3-Dichloropropene | <0.00046 | | 0.0013 | 0.00046 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 07:13 | 1 |
| 1,1,1-Trichloroethane | <0.00043 | | 0.0013 | 0.00043 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 07:13 | 1 |
| 1,1,2-Trichloroethane | <0.00056 | | 0.0013 | 0.00056 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 07:13 | 1 |
| Trichloroethene | <0.00044 | | 0.0013 | 0.00044 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 07:13 | 1 |
| Vinyl acetate | <0.0011 | | 0.0032 | 0.0011 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 07:13 | 1 |
| Vinyl chloride | <0.00057 | * | 0.0013 | 0.00057 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 07:13 | 1 |
| Xylenes, Total | <0.00041 | | 0.0026 | 0.00041 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 07:13 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 116 | | 75 - 131 | 06/05/18 11:24 | 06/13/18 07:13 | 1 |
| Dibromofluoromethane | 83 | | 75 - 126 | 06/05/18 11:24 | 06/13/18 07:13 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 82 | | 70 - 134 | 06/05/18 11:24 | 06/13/18 07:13 | 1 |
| Toluene-d8 (Surr) | 101 | | 75 - 124 | 06/05/18 11:24 | 06/13/18 07:13 | 1 |

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------|---------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Acenaphthene | <0.0067 | | 0.037 | 0.0067 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| Acenaphthylene | <0.0049 | | 0.037 | 0.0049 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| Anthracene | <0.0062 | | 0.037 | 0.0062 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| Benzo[a]anthracene | <0.0050 | | 0.037 | 0.0050 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146393-1

Client Sample ID: 2409V-1-B07 (5-10)

Lab Sample ID: 500-146393-8

Date Collected: 06/04/18 14:25

Matrix: Solid

Date Received: 06/04/18 18:10

Percent Solids: 88.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|---------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Benzo[a]pyrene | <0.0072 | | 0.037 | 0.0072 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| Benzo[b]fluoranthene | <0.0080 | | 0.037 | 0.0080 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| Benzo[g,h,i]perylene | <0.012 | | 0.037 | 0.012 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| Benzo[k]fluoranthene | <0.011 | | 0.037 | 0.011 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| Bis(2-chloroethoxy)methane | <0.038 | | 0.19 | 0.038 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| Bis(2-chloroethyl)ether | <0.056 | | 0.19 | 0.056 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| Bis(2-ethylhexyl) phthalate | <0.068 | | 0.19 | 0.068 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| 4-Bromophenyl phenyl ether | <0.049 | | 0.19 | 0.049 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| Butyl benzyl phthalate | <0.071 | | 0.19 | 0.071 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| Carbazole | <0.093 | | 0.19 | 0.093 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| 4-Chloroaniline | <0.17 | | 0.75 | 0.17 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| 4-Chloro-3-methylphenol | <0.13 | | 0.37 | 0.13 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| 2-Chloronaphthalene | <0.041 | | 0.19 | 0.041 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| 2-Chlorophenol | <0.063 | | 0.19 | 0.063 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| 4-Chlorophenyl phenyl ether | <0.043 | | 0.19 | 0.043 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| Chrysene | <0.010 | | 0.037 | 0.010 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| Dibenz(a,h)anthracene | <0.0072 | | 0.037 | 0.0072 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| Dibenzofuran | <0.043 | | 0.19 | 0.043 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| 1,2-Dichlorobenzene | <0.044 | | 0.19 | 0.044 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| 1,3-Dichlorobenzene | <0.042 | | 0.19 | 0.042 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| 1,4-Dichlorobenzene | <0.048 | | 0.19 | 0.048 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| 3,3'-Dichlorobenzidine | <0.052 | | 0.19 | 0.052 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| 2,4-Dichlorophenol | <0.088 | | 0.37 | 0.088 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| Diethyl phthalate | <0.063 | | 0.19 | 0.063 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| 2,4-Dimethylphenol | <0.14 | | 0.37 | 0.14 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| Dimethyl phthalate | <0.048 | | 0.19 | 0.048 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| Di-n-butyl phthalate | <0.057 | | 0.19 | 0.057 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| 4,6-Dinitro-2-methylphenol | <0.30 | | 0.75 | 0.30 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| 2,4-Dinitrophenol | <0.65 | | 0.75 | 0.65 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| 2,4-Dinitrotoluene | <0.059 | | 0.19 | 0.059 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| 2,6-Dinitrotoluene | <0.073 | | 0.19 | 0.073 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| Di-n-octyl phthalate | <0.061 | | 0.19 | 0.061 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| Fluoranthene | <0.0069 | | 0.037 | 0.0069 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| Fluorene | <0.0052 | | 0.037 | 0.0052 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| Hexachlorobenzene | <0.0086 | | 0.075 | 0.0086 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| Hexachlorobutadiene | <0.058 | | 0.19 | 0.058 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| Hexachlorocyclopentadiene | <0.21 | | 0.75 | 0.21 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| Hexachloroethane | <0.056 | | 0.19 | 0.056 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| Indeno[1,2,3-cd]pyrene | <0.0096 | | 0.037 | 0.0096 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| Isophorone | <0.042 | | 0.19 | 0.042 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| 2-Methylnaphthalene | <0.0068 | | 0.075 | 0.0068 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| 2-Methylphenol | <0.060 | | 0.19 | 0.060 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| 3 & 4 Methylphenol | <0.062 | | 0.19 | 0.062 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| Naphthalene | <0.0057 | | 0.037 | 0.0057 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| 2-Nitroaniline | <0.050 | | 0.19 | 0.050 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| 3-Nitroaniline | <0.12 | | 0.37 | 0.12 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| 4-Nitroaniline | <0.16 | | 0.37 | 0.16 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| Nitrobenzene | <0.0093 | | 0.037 | 0.0093 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| 2-Nitrophenol | <0.088 | | 0.37 | 0.088 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146393-1

Client Sample ID: 2409V-1-B07 (5-10)

Lab Sample ID: 500-146393-8

Date Collected: 06/04/18 14:25

Matrix: Solid

Date Received: 06/04/18 18:10

Percent Solids: 88.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| 4-Nitrophenol | <0.35 | | 0.75 | 0.35 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| N-Nitrosodi-n-propylamine | <0.045 | | 0.075 | 0.045 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| N-Nitrosodiphenylamine | <0.044 | | 0.19 | 0.044 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| 2,2'-oxybis[1-chloropropane] | <0.043 | | 0.19 | 0.043 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| Pentachlorophenol | <0.60 | | 0.75 | 0.60 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| Phenanthrene | 0.019 | J | 0.037 | 0.0052 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| Phenol | <0.082 | | 0.19 | 0.082 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| Pyrene | <0.0074 | | 0.037 | 0.0074 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| 1,2,4-Trichlorobenzene | <0.040 | | 0.19 | 0.040 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| 2,4,5-Trichlorophenol | <0.085 | | 0.37 | 0.085 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| 2,4,6-Trichlorophenol | <0.13 | | 0.37 | 0.13 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 12:45 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl | 97 | | 44 - 121 | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| 2-Fluorophenol | 116 | | 46 - 133 | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| Nitrobenzene-d5 | 96 | | 41 - 120 | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| Phenol-d5 | 112 | | 46 - 125 | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| Terphenyl-d14 | 110 | | 35 - 160 | 06/07/18 07:15 | 06/11/18 12:45 | 1 |
| 2,4,6-Tribromophenol | 61 | | 25 - 139 | 06/07/18 07:15 | 06/11/18 12:45 | 1 |

Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <0.21 | | 1.1 | 0.21 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:13 | 1 |
| Arsenic | 5.7 | | 0.53 | 0.18 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:13 | 1 |
| Barium | 32 | | 0.53 | 0.060 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:13 | 1 |
| Beryllium | 0.61 | | 0.21 | 0.050 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:13 | 1 |
| Cadmium | 0.19 | B | 0.11 | 0.019 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:13 | 1 |
| Chromium | 13 | | 0.53 | 0.26 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:13 | 1 |
| Cobalt | 10 | | 0.27 | 0.069 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:13 | 1 |
| Copper | 24 | | 0.53 | 0.15 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:13 | 1 |
| Iron | 16000 | | 11 | 5.5 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:13 | 1 |
| Lead | 11 | | 0.27 | 0.12 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:13 | 1 |
| Magnesium | 28000 | | 5.3 | 2.6 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:13 | 1 |
| Calcium | 82000 | B | 110 | 18 | mg/Kg | ☼ | 06/07/18 17:05 | 06/12/18 00:03 | 10 |
| Manganese | 380 | | 0.53 | 0.077 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:13 | 1 |
| Nickel | 27 | | 0.53 | 0.15 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:13 | 1 |
| Selenium | 0.91 | | 0.53 | 0.31 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:13 | 1 |
| Silver | 0.18 | J | 0.27 | 0.068 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:13 | 1 |
| Thallium | <0.26 | | 0.53 | 0.26 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:13 | 1 |
| Vanadium | 15 | | 0.27 | 0.063 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:13 | 1 |
| Zinc | 46 | | 1.1 | 0.47 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:13 | 1 |
| Potassium | 2200 | | 27 | 9.4 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:13 | 1 |
| Sodium | 140 | | 53 | 7.8 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:13 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------|-------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.010 | | 0.050 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 22:11 | 1 |
| Barium | 0.58 | | 0.50 | 0.050 | mg/L | | 06/11/18 09:40 | 06/11/18 22:11 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 06/11/18 09:40 | 06/11/18 22:11 | 1 |
| Cadmium | <0.0020 | | 0.0050 | 0.0020 | mg/L | | 06/11/18 09:40 | 06/11/18 22:11 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146393-1

Client Sample ID: 2409V-1-B07 (5-10)

Lab Sample ID: 500-146393-8

Date Collected: 06/04/18 14:25

Matrix: Solid

Date Received: 06/04/18 18:10

Percent Solids: 88.4

Method: 6010B - Metals (ICP) - TCLP (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|---------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Calcium | 570 | | 5.0 | 0.50 | mg/L | | 06/11/18 09:40 | 06/11/18 22:11 | 1 |
| Chromium | <0.010 | | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 22:11 | 1 |
| Cobalt | 0.026 | | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 22:11 | 1 |
| Copper | 0.014 | J | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 22:11 | 1 |
| Iron | <0.20 | | 0.40 | 0.20 | mg/L | | 06/11/18 09:40 | 06/11/18 22:11 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 06/11/18 09:40 | 06/11/18 22:11 | 1 |
| Magnesium | 45 | | 2.5 | 0.50 | mg/L | | 06/11/18 09:40 | 06/11/18 22:11 | 1 |
| Manganese | 2.6 | | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 22:11 | 1 |
| Nickel | 0.054 | B | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 22:11 | 1 |
| Potassium | 4.8 | | 2.5 | 0.50 | mg/L | | 06/11/18 09:40 | 06/11/18 22:11 | 1 |
| Selenium | <0.020 | | 0.050 | 0.020 | mg/L | | 06/11/18 09:40 | 06/11/18 22:11 | 1 |
| Silver | <0.010 | | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 22:11 | 1 |
| Vanadium | <0.010 | | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 22:11 | 1 |
| Zinc | <0.020 | | 0.50 | 0.020 | mg/L | | 06/11/18 09:40 | 06/11/18 22:11 | 1 |

Method: 6010B - Metals (ICP) - SPLP East

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Manganese | 0.049 | | 0.025 | 0.010 | mg/L | | 06/12/18 07:24 | 06/12/18 19:11 | 1 |

Method: 6020A - Metals (ICP/MS) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|---------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Antimony | <0.0060 | | 0.0060 | 0.0060 | mg/L | | 06/11/18 09:40 | 06/12/18 01:49 | 1 |
| Thallium | <0.0020 | | 0.0020 | 0.0020 | mg/L | | 06/11/18 09:40 | 06/12/18 01:49 | 1 |

Method: 7470A - TCLP Mercury - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|---------|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | 0.00020 | mg/L | | 06/11/18 13:25 | 06/12/18 12:33 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Mercury | 0.016 | J | 0.018 | 0.0060 | mg/Kg | ☼ | 06/07/18 16:37 | 06/12/18 15:35 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Cyanide, Total | <0.16 | | 0.46 | 0.16 | mg/Kg | ☼ | 06/15/18 11:00 | 06/15/18 14:59 | 1 |
| pH | 7.8 | | 0.20 | 0.20 | SU | | | 06/11/18 16:52 | 1 |

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146393-1

Client Sample ID: 2409V-1-B07 (10-13)

Lab Sample ID: 500-146393-9

Date Collected: 06/04/18 14:30

Matrix: Solid

Date Received: 06/04/18 18:10

Percent Solids: 88.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|-----------|--------|---------|-------|---|----------------|----------------|---------|
| Acetone | 0.021 | * | 0.017 | 0.0074 | mg/Kg | ☼ | 06/05/18 11:24 | 06/14/18 18:51 | 1 |
| Benzene | <0.00043 | | 0.0017 | 0.00043 | mg/Kg | ☼ | 06/05/18 11:24 | 06/14/18 18:51 | 1 |
| Bromodichloromethane | <0.00034 | | 0.0017 | 0.00034 | mg/Kg | ☼ | 06/05/18 11:24 | 06/14/18 18:51 | 1 |
| Bromoform | <0.00049 | | 0.0017 | 0.00049 | mg/Kg | ☼ | 06/05/18 11:24 | 06/14/18 18:51 | 1 |
| Bromomethane | <0.0016 | * | 0.0042 | 0.0016 | mg/Kg | ☼ | 06/05/18 11:24 | 06/14/18 18:51 | 1 |
| 2-Butanone (MEK) | <0.0019 | | 0.0042 | 0.0019 | mg/Kg | ☼ | 06/05/18 11:24 | 06/14/18 18:51 | 1 |
| Carbon disulfide | <0.00088 | | 0.0042 | 0.00088 | mg/Kg | ☼ | 06/05/18 11:24 | 06/14/18 18:51 | 1 |
| Carbon tetrachloride | <0.00049 | | 0.0017 | 0.00049 | mg/Kg | ☼ | 06/05/18 11:24 | 06/14/18 18:51 | 1 |
| Chlorobenzene | <0.00062 | | 0.0017 | 0.00062 | mg/Kg | ☼ | 06/05/18 11:24 | 06/14/18 18:51 | 1 |
| Chloroethane | <0.0013 | | 0.0042 | 0.0013 | mg/Kg | ☼ | 06/05/18 11:24 | 06/14/18 18:51 | 1 |
| Chloroform | <0.00059 | | 0.0017 | 0.00059 | mg/Kg | ☼ | 06/05/18 11:24 | 06/14/18 18:51 | 1 |
| Chloromethane | <0.0017 | | 0.0042 | 0.0017 | mg/Kg | ☼ | 06/05/18 11:24 | 06/14/18 18:51 | 1 |
| cis-1,2-Dichloroethene | <0.00047 | | 0.0017 | 0.00047 | mg/Kg | ☼ | 06/05/18 11:24 | 06/14/18 18:51 | 1 |
| cis-1,3-Dichloropropene | <0.00051 | | 0.0017 | 0.00051 | mg/Kg | ☼ | 06/05/18 11:24 | 06/14/18 18:51 | 1 |
| Dibromochloromethane | <0.00055 | | 0.0017 | 0.00055 | mg/Kg | ☼ | 06/05/18 11:24 | 06/14/18 18:51 | 1 |
| 1,1-Dichloroethane | <0.00058 | | 0.0017 | 0.00058 | mg/Kg | ☼ | 06/05/18 11:24 | 06/14/18 18:51 | 1 |
| 1,2-Dichloroethane | <0.0013 | | 0.0042 | 0.0013 | mg/Kg | ☼ | 06/05/18 11:24 | 06/14/18 18:51 | 1 |
| 1,1-Dichloroethene | <0.00058 | | 0.0017 | 0.00058 | mg/Kg | ☼ | 06/05/18 11:24 | 06/14/18 18:51 | 1 |
| 1,2-Dichloropropane | <0.00044 | | 0.0017 | 0.00044 | mg/Kg | ☼ | 06/05/18 11:24 | 06/14/18 18:51 | 1 |
| 1,3-Dichloropropane, Total | <0.00059 | | 0.0017 | 0.00059 | mg/Kg | ☼ | 06/05/18 11:24 | 06/14/18 18:51 | 1 |
| Ethylbenzene | <0.00081 | | 0.0017 | 0.00081 | mg/Kg | ☼ | 06/05/18 11:24 | 06/14/18 18:51 | 1 |
| 2-Hexanone | <0.0013 | | 0.0042 | 0.0013 | mg/Kg | ☼ | 06/05/18 11:24 | 06/14/18 18:51 | 1 |
| Methylene Chloride | <0.0017 | | 0.0042 | 0.0017 | mg/Kg | ☼ | 06/05/18 11:24 | 06/14/18 18:51 | 1 |
| 4-Methyl-2-pentanone (MIBK) | <0.0013 | | 0.0042 | 0.0013 | mg/Kg | ☼ | 06/05/18 11:24 | 06/14/18 18:51 | 1 |
| Methyl tert-butyl ether | <0.00050 | | 0.0017 | 0.00050 | mg/Kg | ☼ | 06/05/18 11:24 | 06/14/18 18:51 | 1 |
| Styrene | <0.00051 | | 0.0017 | 0.00051 | mg/Kg | ☼ | 06/05/18 11:24 | 06/14/18 18:51 | 1 |
| 1,1,2,2-Tetrachloroethane | <0.00054 | | 0.0017 | 0.00054 | mg/Kg | ☼ | 06/05/18 11:24 | 06/14/18 18:51 | 1 |
| Tetrachloroethene | <0.00058 | | 0.0017 | 0.00058 | mg/Kg | ☼ | 06/05/18 11:24 | 06/14/18 18:51 | 1 |
| Toluene | <0.00043 | | 0.0017 | 0.00043 | mg/Kg | ☼ | 06/05/18 11:24 | 06/14/18 18:51 | 1 |
| trans-1,2-Dichloroethene | <0.00075 | | 0.0017 | 0.00075 | mg/Kg | ☼ | 06/05/18 11:24 | 06/14/18 18:51 | 1 |
| trans-1,3-Dichloropropene | <0.00059 | | 0.0017 | 0.00059 | mg/Kg | ☼ | 06/05/18 11:24 | 06/14/18 18:51 | 1 |
| 1,1,1-Trichloroethane | <0.00057 | | 0.0017 | 0.00057 | mg/Kg | ☼ | 06/05/18 11:24 | 06/14/18 18:51 | 1 |
| 1,1,2-Trichloroethane | <0.00073 | | 0.0017 | 0.00073 | mg/Kg | ☼ | 06/05/18 11:24 | 06/14/18 18:51 | 1 |
| Trichloroethene | <0.00057 | | 0.0017 | 0.00057 | mg/Kg | ☼ | 06/05/18 11:24 | 06/14/18 18:51 | 1 |
| Vinyl acetate | <0.0015 | | 0.0042 | 0.0015 | mg/Kg | ☼ | 06/05/18 11:24 | 06/14/18 18:51 | 1 |
| Vinyl chloride | <0.00075 | | 0.0017 | 0.00075 | mg/Kg | ☼ | 06/05/18 11:24 | 06/14/18 18:51 | 1 |
| Xylenes, Total | <0.00054 | | 0.0034 | 0.00054 | mg/Kg | ☼ | 06/05/18 11:24 | 06/14/18 18:51 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 120 | | 75 - 131 | 06/05/18 11:24 | 06/14/18 18:51 | 1 |
| Dibromofluoromethane | 85 | | 75 - 126 | 06/05/18 11:24 | 06/14/18 18:51 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 81 | | 70 - 134 | 06/05/18 11:24 | 06/14/18 18:51 | 1 |
| Toluene-d8 (Surr) | 101 | | 75 - 124 | 06/05/18 11:24 | 06/14/18 18:51 | 1 |

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------|---------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Acenaphthene | <0.0066 | | 0.036 | 0.0066 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| Acenaphthylene | <0.0048 | | 0.036 | 0.0048 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| Anthracene | <0.0061 | | 0.036 | 0.0061 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| Benzo[a]anthracene | <0.0049 | | 0.036 | 0.0049 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146393-1

Client Sample ID: 2409V-1-B07 (10-13)

Lab Sample ID: 500-146393-9

Date Collected: 06/04/18 14:30

Matrix: Solid

Date Received: 06/04/18 18:10

Percent Solids: 88.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|---------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Benzo[a]pyrene | <0.0071 | | 0.036 | 0.0071 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| Benzo[b]fluoranthene | <0.0079 | | 0.036 | 0.0079 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| Benzo[g,h,i]perylene | <0.012 | | 0.036 | 0.012 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| Benzo[k]fluoranthene | <0.011 | | 0.036 | 0.011 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| Bis(2-chloroethoxy)methane | <0.037 | | 0.18 | 0.037 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| Bis(2-chloroethyl)ether | <0.055 | | 0.18 | 0.055 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| Bis(2-ethylhexyl) phthalate | <0.067 | | 0.18 | 0.067 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| 4-Bromophenyl phenyl ether | <0.048 | | 0.18 | 0.048 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| Butyl benzyl phthalate | <0.070 | | 0.18 | 0.070 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| Carbazole | <0.092 | | 0.18 | 0.092 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| 4-Chloroaniline | <0.17 | | 0.74 | 0.17 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| 4-Chloro-3-methylphenol | <0.12 | | 0.36 | 0.12 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| 2-Chloronaphthalene | <0.041 | | 0.18 | 0.041 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| 2-Chlorophenol | <0.063 | | 0.18 | 0.063 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| 4-Chlorophenyl phenyl ether | <0.043 | | 0.18 | 0.043 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| Chrysene | <0.010 | | 0.036 | 0.010 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| Dibenz(a,h)anthracene | <0.0071 | | 0.036 | 0.0071 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| Dibenzofuran | <0.043 | | 0.18 | 0.043 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| 1,2-Dichlorobenzene | <0.044 | | 0.18 | 0.044 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| 1,3-Dichlorobenzene | <0.041 | | 0.18 | 0.041 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| 1,4-Dichlorobenzene | <0.047 | | 0.18 | 0.047 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| 3,3'-Dichlorobenzidine | <0.051 | | 0.18 | 0.051 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| 2,4-Dichlorophenol | <0.087 | | 0.36 | 0.087 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| Diethyl phthalate | <0.062 | | 0.18 | 0.062 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| 2,4-Dimethylphenol | <0.14 | | 0.36 | 0.14 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| Dimethyl phthalate | <0.048 | | 0.18 | 0.048 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| Di-n-butyl phthalate | <0.056 | | 0.18 | 0.056 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| 4,6-Dinitro-2-methylphenol | <0.29 | | 0.74 | 0.29 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| 2,4-Dinitrophenol | <0.65 | | 0.74 | 0.65 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| 2,4-Dinitrotoluene | <0.058 | | 0.18 | 0.058 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| 2,6-Dinitrotoluene | <0.072 | | 0.18 | 0.072 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| Di-n-octyl phthalate | <0.060 | | 0.18 | 0.060 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| Fluoranthene | <0.0068 | | 0.036 | 0.0068 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| Fluorene | <0.0052 | | 0.036 | 0.0052 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| Hexachlorobenzene | <0.0085 | | 0.074 | 0.0085 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| Hexachlorobutadiene | <0.058 | | 0.18 | 0.058 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| Hexachlorocyclopentadiene | <0.21 | | 0.74 | 0.21 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| Hexachloroethane | <0.056 | | 0.18 | 0.056 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| Indeno[1,2,3-cd]pyrene | <0.0095 | | 0.036 | 0.0095 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| Isophorone | <0.041 | | 0.18 | 0.041 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| 2-Methylnaphthalene | <0.0067 | | 0.074 | 0.0067 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| 2-Methylphenol | <0.059 | | 0.18 | 0.059 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| 3 & 4 Methylphenol | <0.061 | | 0.18 | 0.061 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| Naphthalene | <0.0056 | | 0.036 | 0.0056 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| 2-Nitroaniline | <0.049 | | 0.18 | 0.049 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| 3-Nitroaniline | <0.11 | | 0.36 | 0.11 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| 4-Nitroaniline | <0.15 | | 0.36 | 0.15 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| Nitrobenzene | <0.0092 | | 0.036 | 0.0092 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| 2-Nitrophenol | <0.087 | | 0.36 | 0.087 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146393-1

Client Sample ID: 2409V-1-B07 (10-13)

Lab Sample ID: 500-146393-9

Date Collected: 06/04/18 14:30

Matrix: Solid

Date Received: 06/04/18 18:10

Percent Solids: 88.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| 4-Nitrophenol | <0.35 | | 0.74 | 0.35 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| N-Nitrosodi-n-propylamine | <0.045 | | 0.074 | 0.045 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| N-Nitrosodiphenylamine | <0.043 | | 0.18 | 0.043 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| 2,2'-oxybis[1-chloropropane] | <0.043 | | 0.18 | 0.043 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| Pentachlorophenol | <0.59 | | 0.74 | 0.59 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| Phenanthrene | 0.037 | | 0.036 | 0.0051 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| Phenol | <0.082 | | 0.18 | 0.082 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| Pyrene | 0.010 | J | 0.036 | 0.0073 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| 1,2,4-Trichlorobenzene | <0.040 | | 0.18 | 0.040 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| 2,4,5-Trichlorophenol | <0.084 | | 0.36 | 0.084 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| 2,4,6-Trichlorophenol | <0.13 | | 0.36 | 0.13 | mg/Kg | ☼ | 06/07/18 07:15 | 06/11/18 13:12 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl | 92 | | 44 - 121 | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| 2-Fluorophenol | 112 | | 46 - 133 | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| Nitrobenzene-d5 | 91 | | 41 - 120 | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| Phenol-d5 | 107 | | 46 - 125 | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| Terphenyl-d14 | 107 | | 35 - 160 | 06/07/18 07:15 | 06/11/18 13:12 | 1 |
| 2,4,6-Tribromophenol | 62 | | 25 - 139 | 06/07/18 07:15 | 06/11/18 13:12 | 1 |

Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|---------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <0.21 | | 1.1 | 0.21 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:17 | 1 |
| Arsenic | 6.1 | | 0.53 | 0.18 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:17 | 1 |
| Barium | 26 | | 0.53 | 0.060 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:17 | 1 |
| Beryllium | 0.57 | | 0.21 | 0.049 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:17 | 1 |
| Cadmium | 0.19 | B | 0.11 | 0.019 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:17 | 1 |
| Chromium | 11 | | 0.53 | 0.26 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:17 | 1 |
| Cobalt | 9.7 | | 0.26 | 0.069 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:17 | 1 |
| Copper | 24 | | 0.53 | 0.15 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:17 | 1 |
| Iron | 15000 | | 11 | 5.5 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:17 | 1 |
| Lead | 10 | | 0.26 | 0.12 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:17 | 1 |
| Magnesium | 41000 | | 5.3 | 2.6 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:17 | 1 |
| Calcium | 110000 | B | 110 | 18 | mg/Kg | ☼ | 06/07/18 17:05 | 06/12/18 00:07 | 10 |
| Manganese | 430 | | 0.53 | 0.077 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:17 | 1 |
| Nickel | 24 | | 0.53 | 0.15 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:17 | 1 |
| Selenium | 1.1 | | 0.53 | 0.31 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:17 | 1 |
| Silver | 0.18 | J | 0.26 | 0.068 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:17 | 1 |
| Thallium | <0.26 | | 0.53 | 0.26 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:17 | 1 |
| Vanadium | 13 | | 0.26 | 0.062 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:17 | 1 |
| Zinc | 41 | | 1.1 | 0.46 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:17 | 1 |
| Potassium | 1900 | | 26 | 9.4 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:17 | 1 |
| Sodium | 210 | | 53 | 7.8 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:17 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.010 | | 0.050 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 22:15 | 1 |
| Barium | 0.54 | | 0.50 | 0.050 | mg/L | | 06/11/18 09:40 | 06/11/18 22:15 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 06/11/18 09:40 | 06/11/18 22:15 | 1 |
| Cadmium | 0.0021 | J | 0.0050 | 0.0020 | mg/L | | 06/11/18 09:40 | 06/11/18 22:15 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146393-1

Client Sample ID: 2409V-1-B07 (10-13)

Lab Sample ID: 500-146393-9

Date Collected: 06/04/18 14:30

Matrix: Solid

Date Received: 06/04/18 18:10

Percent Solids: 88.9

Method: 6010B - Metals (ICP) - TCLP (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|---------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Calcium | 540 | | 5.0 | 0.50 | mg/L | | 06/11/18 09:40 | 06/11/18 22:15 | 1 |
| Chromium | <0.010 | | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 22:15 | 1 |
| Cobalt | 0.030 | | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 22:15 | 1 |
| Copper | 0.015 | J | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 22:15 | 1 |
| Iron | <0.20 | | 0.40 | 0.20 | mg/L | | 06/11/18 09:40 | 06/11/18 22:15 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 06/11/18 09:40 | 06/11/18 22:15 | 1 |
| Magnesium | 55 | | 2.5 | 0.50 | mg/L | | 06/11/18 09:40 | 06/11/18 22:15 | 1 |
| Manganese | 2.3 | | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 22:15 | 1 |
| Nickel | 0.073 | B | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 22:15 | 1 |
| Potassium | 4.8 | | 2.5 | 0.50 | mg/L | | 06/11/18 09:40 | 06/11/18 22:15 | 1 |
| Selenium | <0.020 | | 0.050 | 0.020 | mg/L | | 06/11/18 09:40 | 06/11/18 22:15 | 1 |
| Silver | <0.010 | | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 22:15 | 1 |
| Vanadium | <0.010 | | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 22:15 | 1 |
| Zinc | <0.020 | | 0.50 | 0.020 | mg/L | | 06/11/18 09:40 | 06/11/18 22:15 | 1 |

Method: 6010B - Metals (ICP) - SPLP East

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Manganese | 0.043 | | 0.025 | 0.010 | mg/L | | 06/12/18 07:24 | 06/12/18 19:15 | 1 |

Method: 6020A - Metals (ICP/MS) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|---------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Antimony | <0.0060 | | 0.0060 | 0.0060 | mg/L | | 06/11/18 09:40 | 06/12/18 01:53 | 1 |
| Thallium | <0.0020 | | 0.0020 | 0.0020 | mg/L | | 06/11/18 09:40 | 06/12/18 01:53 | 1 |

Method: 7470A - TCLP Mercury - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|---------|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | 0.00020 | mg/L | | 06/11/18 13:25 | 06/12/18 12:35 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Mercury | 0.018 | | 0.018 | 0.0060 | mg/Kg | ☼ | 06/07/18 16:37 | 06/12/18 15:41 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Cyanide, Total | <0.18 | | 0.52 | 0.18 | mg/Kg | ☼ | 06/15/18 11:00 | 06/15/18 15:00 | 1 |
| pH | 8.0 | | 0.20 | 0.20 | SU | | | 06/11/18 16:52 | 1 |

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146393-1

Client Sample ID: 2409V-1-B06 (0-3)

Lab Sample ID: 500-146393-10

Date Collected: 06/04/18 15:50

Matrix: Solid

Date Received: 06/04/18 18:10

Percent Solids: 86.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------------|-----------|--------|---------|-------|---|----------------|----------------|---------|
| Acetone | 0.014 | J | 0.015 | 0.0065 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 08:09 | 1 |
| Benzene | <0.00038 | | 0.0015 | 0.00038 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 08:09 | 1 |
| Bromodichloromethane | <0.00030 | | 0.0015 | 0.00030 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 08:09 | 1 |
| Bromoform | <0.00043 | | 0.0015 | 0.00043 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 08:09 | 1 |
| Bromomethane | <0.0014 | * | 0.0037 | 0.0014 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 08:09 | 1 |
| 2-Butanone (MEK) | <0.0016 | | 0.0037 | 0.0016 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 08:09 | 1 |
| Carbon disulfide | <0.00077 | | 0.0037 | 0.00077 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 08:09 | 1 |
| Carbon tetrachloride | <0.00043 | | 0.0015 | 0.00043 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 08:09 | 1 |
| Chlorobenzene | <0.00055 | | 0.0015 | 0.00055 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 08:09 | 1 |
| Chloroethane | <0.0011 | * | 0.0037 | 0.0011 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 08:09 | 1 |
| Chloroform | <0.00052 | | 0.0015 | 0.00052 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 08:09 | 1 |
| Chloromethane | <0.0015 | * | 0.0037 | 0.0015 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 08:09 | 1 |
| cis-1,2-Dichloroethene | <0.00042 | | 0.0015 | 0.00042 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 08:09 | 1 |
| cis-1,3-Dichloropropene | <0.00045 | | 0.0015 | 0.00045 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 08:09 | 1 |
| Dibromochloromethane | <0.00049 | | 0.0015 | 0.00049 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 08:09 | 1 |
| 1,1-Dichloroethane | <0.00051 | | 0.0015 | 0.00051 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 08:09 | 1 |
| 1,2-Dichloroethane | <0.0012 | | 0.0037 | 0.0012 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 08:09 | 1 |
| 1,1-Dichloroethene | <0.00051 | | 0.0015 | 0.00051 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 08:09 | 1 |
| 1,2-Dichloropropane | <0.00038 | | 0.0015 | 0.00038 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 08:09 | 1 |
| 1,3-Dichloropropene, Total | <0.00052 | | 0.0015 | 0.00052 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 08:09 | 1 |
| Ethylbenzene | <0.00071 | | 0.0015 | 0.00071 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 08:09 | 1 |
| 2-Hexanone | <0.0012 | * | 0.0037 | 0.0012 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 08:09 | 1 |
| Methylene Chloride | <0.0015 | | 0.0037 | 0.0015 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 08:09 | 1 |
| 4-Methyl-2-pentanone (MIBK) | <0.0011 | * | 0.0037 | 0.0011 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 08:09 | 1 |
| Methyl tert-butyl ether | <0.00044 | | 0.0015 | 0.00044 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 08:09 | 1 |
| Styrene | <0.00045 | | 0.0015 | 0.00045 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 08:09 | 1 |
| 1,1,2,2-Tetrachloroethane | <0.00047 | * | 0.0015 | 0.00047 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 08:09 | 1 |
| Tetrachloroethene | <0.00051 | | 0.0015 | 0.00051 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 08:09 | 1 |
| Toluene | <0.00038 | | 0.0015 | 0.00038 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 08:09 | 1 |
| trans-1,2-Dichloroethene | <0.00066 | | 0.0015 | 0.00066 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 08:09 | 1 |
| trans-1,3-Dichloropropene | <0.00052 | | 0.0015 | 0.00052 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 08:09 | 1 |
| 1,1,1-Trichloroethane | <0.00050 | | 0.0015 | 0.00050 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 08:09 | 1 |
| 1,1,2-Trichloroethane | <0.00064 | | 0.0015 | 0.00064 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 08:09 | 1 |
| Trichloroethene | <0.00050 | | 0.0015 | 0.00050 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 08:09 | 1 |
| Vinyl acetate | <0.0013 | | 0.0037 | 0.0013 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 08:09 | 1 |
| Vinyl chloride | <0.00066 | * | 0.0015 | 0.00066 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 08:09 | 1 |
| Xylenes, Total | <0.00048 | | 0.0030 | 0.00048 | mg/Kg | ☼ | 06/05/18 11:24 | 06/13/18 08:09 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 107 | | 75 - 131 | 06/05/18 11:24 | 06/13/18 08:09 | 1 |
| Dibromofluoromethane | 83 | | 75 - 126 | 06/05/18 11:24 | 06/13/18 08:09 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 85 | | 70 - 134 | 06/05/18 11:24 | 06/13/18 08:09 | 1 |
| Toluene-d8 (Surr) | 98 | | 75 - 124 | 06/05/18 11:24 | 06/13/18 08:09 | 1 |

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|---------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Acenaphthene | 0.0090 | J | 0.037 | 0.0067 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| Acenaphthylene | 0.013 | J | 0.037 | 0.0049 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| Anthracene | 0.040 | | 0.037 | 0.0062 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| Benzo[a]anthracene | 0.25 | | 0.037 | 0.0050 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146393-1

Client Sample ID: 2409V-1-B06 (0-3)

Lab Sample ID: 500-146393-10

Date Collected: 06/04/18 15:50

Matrix: Solid

Date Received: 06/04/18 18:10

Percent Solids: 86.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|---------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Benzo[a]pyrene | 0.27 | | 0.037 | 0.0072 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| Benzo[b]fluoranthene | 0.39 | | 0.037 | 0.0080 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| Benzo[g,h,i]perylene | 0.14 | | 0.037 | 0.012 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| Benzo[k]fluoranthene | 0.16 | | 0.037 | 0.011 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| Bis(2-chloroethoxy)methane | <0.038 | | 0.19 | 0.038 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| Bis(2-chloroethyl)ether | <0.056 | | 0.19 | 0.056 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| Bis(2-ethylhexyl) phthalate | <0.068 | | 0.19 | 0.068 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| 4-Bromophenyl phenyl ether | <0.049 | | 0.19 | 0.049 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| Butyl benzyl phthalate | <0.071 | | 0.19 | 0.071 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| Carbazole | 0.14 | J | 0.19 | 0.093 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| 4-Chloroaniline | <0.18 | | 0.75 | 0.18 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| 4-Chloro-3-methylphenol | <0.13 | | 0.37 | 0.13 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| 2-Chloronaphthalene | <0.041 | | 0.19 | 0.041 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| 2-Chlorophenol | <0.064 | | 0.19 | 0.064 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| 4-Chlorophenyl phenyl ether | <0.044 | | 0.19 | 0.044 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| Chrysene | 0.30 | | 0.037 | 0.010 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| Dibenz(a,h)anthracene | 0.045 | | 0.037 | 0.0072 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| Dibenzofuran | <0.044 | | 0.19 | 0.044 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| 1,2-Dichlorobenzene | <0.045 | | 0.19 | 0.045 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| 1,3-Dichlorobenzene | <0.042 | | 0.19 | 0.042 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| 1,4-Dichlorobenzene | <0.048 | | 0.19 | 0.048 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| 3,3'-Dichlorobenzidine | <0.052 | | 0.19 | 0.052 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| 2,4-Dichlorophenol | <0.089 | | 0.37 | 0.089 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| Diethyl phthalate | <0.063 | | 0.19 | 0.063 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| 2,4-Dimethylphenol | <0.14 | | 0.37 | 0.14 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| Dimethyl phthalate | <0.049 | | 0.19 | 0.049 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| Di-n-butyl phthalate | <0.057 | | 0.19 | 0.057 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| 4,6-Dinitro-2-methylphenol | <0.30 | | 0.75 | 0.30 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| 2,4-Dinitrophenol | <0.66 | | 0.75 | 0.66 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| 2,4-Dinitrotoluene | <0.059 | | 0.19 | 0.059 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| 2,6-Dinitrotoluene | <0.073 | | 0.19 | 0.073 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| Di-n-octyl phthalate | <0.061 | | 0.19 | 0.061 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| Fluoranthene | 0.44 | | 0.037 | 0.0069 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| Fluorene | 0.0091 | J | 0.037 | 0.0052 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| Hexachlorobenzene | <0.0086 | | 0.075 | 0.0086 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| Hexachlorobutadiene | <0.059 | | 0.19 | 0.059 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| Hexachlorocyclopentadiene | <0.21 | | 0.75 | 0.21 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| Hexachloroethane | <0.057 | | 0.19 | 0.057 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| Indeno[1,2,3-cd]pyrene | 0.14 | | 0.037 | 0.0097 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| Isophorone | <0.042 | | 0.19 | 0.042 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| 2-Methylnaphthalene | 0.011 | J | 0.075 | 0.0069 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| 2-Methylphenol | <0.060 | | 0.19 | 0.060 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| 3 & 4 Methylphenol | <0.062 | | 0.19 | 0.062 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| Naphthalene | <0.0057 | | 0.037 | 0.0057 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| 2-Nitroaniline | <0.050 | | 0.19 | 0.050 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| 3-Nitroaniline | <0.12 | | 0.37 | 0.12 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| 4-Nitroaniline | <0.16 | | 0.37 | 0.16 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| Nitrobenzene | <0.0093 | | 0.037 | 0.0093 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| 2-Nitrophenol | <0.088 | | 0.37 | 0.088 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146393-1

Client Sample ID: 2409V-1-B06 (0-3)

Lab Sample ID: 500-146393-10

Date Collected: 06/04/18 15:50

Matrix: Solid

Date Received: 06/04/18 18:10

Percent Solids: 86.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| 4-Nitrophenol | <0.35 | | 0.75 | 0.35 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| N-Nitrosodi-n-propylamine | <0.046 | | 0.075 | 0.046 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| N-Nitrosodiphenylamine | <0.044 | | 0.19 | 0.044 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| 2,2'-oxybis[1-chloropropane] | <0.043 | | 0.19 | 0.043 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| Pentachlorophenol | <0.60 | | 0.75 | 0.60 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| Phenanthrene | 0.16 | | 0.037 | 0.0052 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| Phenol | <0.083 | | 0.19 | 0.083 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| Pyrene | 0.40 | | 0.037 | 0.0074 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| 1,2,4-Trichlorobenzene | <0.040 | | 0.19 | 0.040 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| 2,4,5-Trichlorophenol | <0.085 | | 0.37 | 0.085 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| 2,4,6-Trichlorophenol | <0.13 | | 0.37 | 0.13 | mg/Kg | ☼ | 06/07/18 07:15 | 06/12/18 11:08 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl | 95 | | 44 - 121 | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| 2-Fluorophenol | 111 | | 46 - 133 | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| Nitrobenzene-d5 | 91 | | 41 - 120 | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| Phenol-d5 | 105 | | 46 - 125 | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| Terphenyl-d14 | 105 | | 35 - 160 | 06/07/18 07:15 | 06/12/18 11:08 | 1 |
| 2,4,6-Tribromophenol | 82 | | 25 - 139 | 06/07/18 07:15 | 06/12/18 11:08 | 1 |

Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <0.21 | | 1.1 | 0.21 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:22 | 1 |
| Arsenic | 3.9 | | 0.53 | 0.18 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:22 | 1 |
| Barium | 45 | | 0.53 | 0.061 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:22 | 1 |
| Beryllium | 0.51 | | 0.21 | 0.050 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:22 | 1 |
| Cadmium | 0.29 | B | 0.11 | 0.019 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:22 | 1 |
| Chromium | 12 | | 0.53 | 0.26 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:22 | 1 |
| Cobalt | 5.6 | | 0.27 | 0.070 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:22 | 1 |
| Copper | 20 | | 0.53 | 0.15 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:22 | 1 |
| Iron | 12000 | | 11 | 5.5 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:22 | 1 |
| Lead | 160 | | 0.27 | 0.12 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:22 | 1 |
| Magnesium | 5700 | | 5.3 | 2.6 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:22 | 1 |
| Calcium | 8700 | B | 11 | 1.8 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:22 | 1 |
| Manganese | 180 | | 0.53 | 0.077 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:22 | 1 |
| Nickel | 15 | | 0.53 | 0.16 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:22 | 1 |
| Selenium | 1.0 | | 0.53 | 0.31 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:22 | 1 |
| Silver | 0.17 | J | 0.27 | 0.069 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:22 | 1 |
| Thallium | <0.27 | | 0.53 | 0.27 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:22 | 1 |
| Vanadium | 15 | | 0.27 | 0.063 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:22 | 1 |
| Zinc | 62 | | 1.1 | 0.47 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:22 | 1 |
| Potassium | 830 | | 27 | 9.4 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:22 | 1 |
| Sodium | 820 | | 53 | 7.9 | mg/Kg | ☼ | 06/07/18 17:05 | 06/09/18 01:22 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.010 | | 0.050 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 22:20 | 1 |
| Barium | 0.29 | J | 0.50 | 0.050 | mg/L | | 06/11/18 09:40 | 06/11/18 22:20 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 06/11/18 09:40 | 06/11/18 22:20 | 1 |
| Cadmium | 0.0037 | J | 0.0050 | 0.0020 | mg/L | | 06/11/18 09:40 | 06/11/18 22:20 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146393-1

Client Sample ID: 2409V-1-B06 (0-3)

Lab Sample ID: 500-146393-10

Date Collected: 06/04/18 15:50

Matrix: Solid

Date Received: 06/04/18 18:10

Percent Solids: 86.5

Method: 6010B - Metals (ICP) - TCLP (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|------------|--------|--------|------|---|----------------|----------------|---------|
| Calcium | 180 | | 5.0 | 0.50 | mg/L | | 06/11/18 09:40 | 06/11/18 22:20 | 1 |
| Chromium | <0.010 | | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 22:20 | 1 |
| Cobalt | <0.010 | | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 22:20 | 1 |
| Copper | <0.010 | | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 22:20 | 1 |
| Iron | <0.20 | | 0.40 | 0.20 | mg/L | | 06/11/18 09:40 | 06/11/18 22:20 | 1 |
| Lead | 0.064 | | 0.0075 | 0.0075 | mg/L | | 06/11/18 09:40 | 06/11/18 22:20 | 1 |
| Magnesium | 76 | | 2.5 | 0.50 | mg/L | | 06/11/18 09:40 | 06/11/18 22:20 | 1 |
| Manganese | 0.62 | | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 22:20 | 1 |
| Nickel | 0.016 | J B | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 22:20 | 1 |
| Potassium | 0.71 | J | 2.5 | 0.50 | mg/L | | 06/11/18 09:40 | 06/11/18 22:20 | 1 |
| Selenium | <0.020 | | 0.050 | 0.020 | mg/L | | 06/11/18 09:40 | 06/11/18 22:20 | 1 |
| Silver | <0.010 | | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 22:20 | 1 |
| Vanadium | <0.010 | | 0.025 | 0.010 | mg/L | | 06/11/18 09:40 | 06/11/18 22:20 | 1 |
| Zinc | 0.032 | J | 0.50 | 0.020 | mg/L | | 06/11/18 09:40 | 06/11/18 22:20 | 1 |

Method: 6010B - SPLP Metals - SPLP East

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|-------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Lead | 0.45 | | 0.0075 | 0.0075 | mg/L | | 06/12/18 07:24 | 06/12/18 19:27 | 1 |
| Manganese | 0.55 | | 0.025 | 0.010 | mg/L | | 06/12/18 07:24 | 06/12/18 19:27 | 1 |

Method: 6020A - Metals (ICP/MS) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|---------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Antimony | <0.0060 | | 0.0060 | 0.0060 | mg/L | | 06/11/18 09:40 | 06/12/18 02:05 | 1 |
| Thallium | <0.0020 | | 0.0020 | 0.0020 | mg/L | | 06/11/18 09:40 | 06/12/18 02:05 | 1 |

Method: 7470A - TCLP Mercury - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|---------|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | 0.00020 | mg/L | | 06/11/18 13:25 | 06/12/18 12:37 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|--------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Mercury | 0.032 | | 0.018 | 0.0060 | mg/Kg | ☼ | 06/07/18 16:37 | 06/12/18 15:43 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|------------|-----------|------|------|-------|---|----------------|----------------|---------|
| Cyanide, Total | <0.18 | | 0.52 | 0.18 | mg/Kg | ☼ | 06/15/18 11:00 | 06/15/18 15:01 | 1 |
| pH | 8.0 | | 0.20 | 0.20 | SU | | | 06/11/18 16:52 | 1 |

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146393-1

Qualifiers

GC/MS VOA

| Qualifier | Qualifier Description |
|-----------|----------------------------------------------------------------------------------------------------------------|
| cn | Refer to Case Narrative for further detail |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| * | LCS or LCSD is outside acceptance limits. |
| * | RPD of the LCS and LCSD exceeds the control limits |

GC/MS Semi VOA

| Qualifier | Qualifier Description |
|-----------|----------------------------------------------------------------------------------------------------------------|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| X | Surrogate is outside control limits |

Metals

| Qualifier | Qualifier Description |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| B | Compound was found in the blank and sample. |
| F1 | MS and/or MSD Recovery is outside acceptance limits. |
| F2 | MS/MSD RPD exceeds control limits |
| F3 | Duplicate RPD exceeds the control limit |
| F5 | Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL. |
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|-------------------------------------------------------------------------------------------------------------|
| α | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| 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) |

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146393-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | EPA Region | Identification Number | Expiration Date |
|-----------|---------|------------|-----------------------|-----------------|
| Illinois | NELAP | 5 | 100201 | 04-30-19 |

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

| Analysis Method | Prep Method | Matrix | Analyte |
|-----------------|-------------|--------|----------------------------|
| 6020A | 3010A | Solid | Antimony |
| 6020A | 3010A | Solid | Thallium |
| 8260B | | Water | 1,3-Dichloropropene, Total |
| 8260B | 5035 | Solid | 1,3-Dichloropropene, Total |
| Moisture | | Solid | Percent Moisture |
| Moisture | | Solid | Percent Solids |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
 Contact: Matt Weiss
 Company: Terracon
 Address: 192 Exchange Blvd
 Address: Glendale Heights, IL 60139
 Phone: 630-445-0160
 Fax:
 E-Mail: matt.weiss@terracon.com

Bill To (optional)
 Contact:
 Company:
 Address:
 Address:
 Phone:
 Fax:
 PO#/Reference#

Chain of Custody Record

Lab Job #: 500-146393
 Chain of Custody Number:
 Page _____ of _____
 Temperature °C of Cooler: 43.28

| Client | | Client Project # | | Preservative | | Parameter | | Other | | NOAC | | NOAC | | NOAC | | NOAC | | NOAC | | Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other |
|------------------------|--------|-----------------------|--|--------------|------|-----------|---|-----------------|---|--------|---|------|---|------|---|------|---|------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Project Name | | Lab Project # | | Containers | | Matrix | | | | | | | | | | | | | | |
| Project Location/State | | Lab PM | | Date | | Time | | # of Containers | | Matrix | | | | | | | | | | |
| Lab ID | MS/MSD | Sample ID | | Sampling | | | | | | | | | | | | | | | | Comments |
| 2 | | 2409U-1-B09 (0-5) | | 6/04/18 | 1045 | 6 | S | X | X | X | X | X | X | X | X | X | X | X | X | |
| 3 | | 2409U-1-B09 (5-8) | | 6/04/18 | 1050 | 6 | S | X | X | X | X | X | X | X | X | X | X | X | X | |
| 4 | | 2409U-1-B08 (0-5) | | 6/04/18 | 1135 | 6 | S | X | X | X | X | X | X | X | X | X | X | X | X | |
| 5 | | 2409U-1-B08 Dup (0-5) | | 6/04/18 | 1140 | 6 | S | X | X | X | X | X | X | X | X | X | X | X | X | |
| 6 | | 2409U-1-B08 (5-8) | | 6/04/18 | 1145 | 6 | S | X | X | X | X | X | X | X | X | X | X | X | X | |
| 7 | | 2409U-1-B07 (0-5) | | 6/04/18 | 1420 | 6 | S | X | X | X | X | X | X | X | X | X | X | X | X | |
| 8 | | 2409U-1-B07 (5-10) | | 6/04/18 | 1425 | 6 | S | X | X | X | X | X | X | X | X | X | X | X | X | |
| 9 | | 2409U-1-B07 (10-13) | | 6/04/18 | 1430 | 6 | S | X | X | X | X | X | X | X | X | X | X | X | X | |
| 10 | | 2409U-1-B06 (0-3) | | 6/04/18 | 1550 | 6 | S | X | X | X | X | X | X | X | X | X | X | X | X | |

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days 10 Days ___ 15 Days ___ Other
 Requested Due Date _____
 Sample Disposal
 Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

| | | |
|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------|
| Relinquished By <u>Paul Lee</u> Company <u>Terracon</u> Date <u>6/4/18</u> Time <u>1610</u> | Received By <u>JA</u> Company <u>JA</u> Date <u>6/4/18</u> Time <u>1510</u> | Lab Courier <u>JA</u> |
| Relinquished By <u>JA</u> Company <u>JA</u> Date <u>6/4/18</u> Time <u>1810</u> | Received By <u>JA</u> Company <u>JA</u> Date <u>6/5/18</u> Time <u>0820</u> | Shipped _____ |
| Relinquished By _____ Company _____ Date _____ Time _____ | Received By _____ Company _____ Date _____ Time _____ | Hand Delivered _____ |

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments
No Aluminum
SPLP As directed by Terracon

Lab Comments:

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-146393-1

Login Number: 146393

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

| Question | Answer | Comment |
|-----------------------------------------------------------------------------------------------------|--------|---------|
| Radioactivity wasn't checked or is \leq 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 | 4.3,2.8 |
| 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 (excluding tests with immediate HTs) | 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 <math><6\text{mm}</math> (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |





Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAU 1312-Golf Road at Harms Road Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

Golf Road (Eastbound) IDOT STA 370+00 to 374+10 and 375+30 to 377+00 (ISGS Site 2409V-2)

City: Morton Grove State: IL Zip Code: 60077

County: Cook Township: Niles

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 42.05542 Longitude: -87.76638
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Zip Code: 60196 Phone: 847-705-4122

Contact: Kristine Kutscher

Contact: Kristine Kutscher

Email, if available: kristine.kutscher@illinois.gov

Email, if available: kristine.kutscher@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAU 1312-Golf Road at Harms Road

Latitude: 42.05542 Longitude: -87.76638

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

Soil from borings B01, B02, B03, B04, B06, and B07 were sampled adjacent to ISGS Site No 2409V-2. See Exhibits 2, 2B, 2C, and Table 4 of the Preliminary Site Investigation Report prepared by Terracon.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TestAmerica Lab Report No J146450-1. Also see Preliminary Site Investigation Report prepared by Terracon. CCDD/USFO facility in MSA County.

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Matt Weiss (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Terracon Consultants, Inc

Street Address: 135 Ambassador Drive

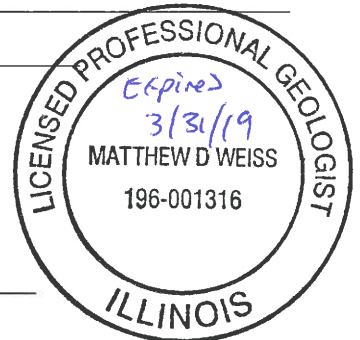
City: Naperville State: IL Zip Code: 60540

Phone: 630-717-4263

Matt Weiss
Printed Name:

[Signature]
Licensed Professional Engineer or
Licensed Professional Geologist Signature:

8/3/18
Date:



Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:049A

Preliminary Site Investigation

FAU 1312 -Golf Rd at Harms Rd (PESA #2409V-2)

Morton Grove, Cook County, IL

Terracon Project No. 11187007J

Page 1 of 8

| Analyte | Units | Background | | Maximum Allowed Concentration | Sample Identification | 2409V-2-B01 (0-3) | 2409V-2-B02 (0-3) | 2409V-2-B03 (0-5) |
|---------------------------------------------------|-------|------------|--------|-------------------------------|-----------------------|-------------------|-------------------|-------------------|
| | | | | CCDD | Sample Depth (feet) | (0-3) | (0-3) | (0-5) |
| | | | | mg/kg pH 6.25-9.0 | Date Collected | 06/05/2018 | 06/05/2018 | 06/05/2018 |
| Chicago | MSAs | | | | | | | |
| Volatile Organic Analytical Parameters | | | | | | | | |
| Acetone | mg/kg | --- | --- | 25 | | <0.0073 | <0.0064 | <0.0065 |
| Semivolatile Organic Analytical Parameters | | | | | | | | |
| Acenaphthene | mg/kg | 0.09 | 0.13 | 570 | | 0.018 | <0.0065 | <0.0072 |
| Acenaphthylene | mg/kg | 0.03 | 0.07 | 85 | | <0.0054 | <0.0048 | <0.0053 |
| Anthracene | mg/kg | 0.25 | 0.4 | 12000 | | 0.04 | <0.0060 | <0.0067 |
| Benzo(a)anthracene | mg/kg | 1.1 | 1.8 | 0.9 | | 0.15 | <0.0049 | <0.0054 |
| Benzo(a)pyrene | mg/kg | 1.3 | 2.1 | 0.09 | | 0.13 | <0.0070 | <0.0078 |
| Benzo(b)fluoranthene | mg/kg | 1.5 | 2.1 | 0.9 | | 0.19 | <0.0078 | <0.0086 |
| Benzo(g,h,i)perylene | mg/kg | 0.68 | 1.7 | 2300 | | 0.046 | <0.012 | <0.013 |
| Benzo(k)fluoranthene | mg/kg | 0.99 | 1.7 | 9 | | 0.065 | <0.011 | <0.012 |
| Chrysene | mg/kg | 1.2 | 2.7 | 88 | | 0.15 | <0.0098 | <0.011 |
| Dibenzo(a,h)anthracene | mg/kg | 0.2 | 0.42 | 0.09 | | 0.016 | <0.0070 | <0.0077 |
| Fluoranthene | mg/kg | 2.7 | 4.1 | 3100 | | 0.3 | <0.0067 | <0.0074 |
| Fluorene | mg/kg | 0.1 | 0.18 | 560 | | 0.017 | <0.0051 | <0.0056 |
| Indeno(1,2,3-c,d)pyrene | mg/kg | 0.86 | 1.6 | 0.9 | | 0.049 | <0.0094 | <0.010 |
| Phenanthrene | mg/kg | 1.3 | 2.5 | 210 | | 0.17 | <0.0050 | <0.0056 |
| Pyrene | mg/kg | 1.9 | 3.0 | 2300 | | 0.25 | <0.0072 | <0.0080 |
| Carbazole | mg/kg | --- | --- | 0.6 | | 0.15 | <0.090 | <0.10 |
| Inorganic Analytical Parameters | | | | | | | | |
| Arsenic | mg/kg | --- | 13 | 11.3 | | 3.9 | 6.3 | 6.4 |
| Barium | mg/kg | --- | 110 | 1500 | | 68 | 80 | 73 |
| Cadmium | mg/kg | --- | 0.6 | 5.2 | | 0.39 | 0.46 | 0.31 |
| Chromium, total | mg/kg | --- | 16.2 | 21 | | 17 | 20 | 20 |
| Lead | mg/kg | --- | 36 | 107 | | 19 | 14 | 16 |
| Mercury | mg/kg | --- | 0.06 | 0.89 | | 0.054 | 0.029 | 0.03 |
| Selenium | mg/kg | --- | 0.48 | 1.3 | | 1.2 | 0.93 | 1.1 |
| Silver | mg/kg | --- | 0.55 | 4.4 | | 0.27 | 0.32 | 0.32 |
| Antimony | mg/kg | --- | 4.0 | 5 | | <0.22 | 0.28 | <0.23 |
| Beryllium | mg/kg | --- | 0.59 | 22 | | 0.71 | 0.76 | 0.83 |
| Calcium | mg/kg | --- | 9,300 | --- | | 7200 | 2600 | 2700 |
| Cobalt | mg/kg | --- | 8.9 | 20 | | 11 | 15 | 12 |
| Copper | mg/kg | --- | 19.6 | 2900 | | 17 | 19 | 16 |
| Cyanide | mg/kg | --- | 0.51 | --- | | <0.18 | <0.16 | <0.19 |
| Iron | mg/kg | --- | 15,900 | 15000 | | 16000 | 17000 | 23000 |
| Magnesium | mg/kg | --- | 4,820 | 325000 | | 5600 | 3900 | 4300 |
| Manganese | mg/kg | --- | 636 | 630 | | 530 | 680 | 630 |
| Nickel | mg/kg | --- | 18 | 100 | | 23 | 33 | 31 |
| Potassium | mg/kg | --- | 1,268 | --- | | 1800 | 1800 | 1900 |
| Sodium | mg/kg | --- | 130 | --- | | 1600 | 530 | 610 |
| Thallium | mg/kg | --- | 0.32 | 2.6 | | <0.28 | <0.26 | <0.30 |
| Vanadium | mg/kg | --- | 25.2 | 550 | | 25 | 30 | 33 |
| Zinc | mg/kg | --- | 95 | 5100 | | 71 | 70 | 73 |
| pH | | | 6.25 | 9 | | 8.4 | 7.6 | 7.4 |

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:049A

Preliminary Site Investigation

FAU 1312 -Golf Rd at Harms Rd (PESA #2409V-2)

Morton Grove, Cook County, IL

Terracon Project No. 11187007J

Page 2 of 8

| Analyte | Units | Background | | Maximum Allowed Concentration | Sample Identification | 2409V-2-B01 (0-3) | 2409V-2-B02 (0-3) | 2409V-2-B03 (0-5) |
|-----------------------------------------------|-------|------------|-----|-------------------------------|-----------------------|-------------------|-------------------|-------------------|
| | | | | CCDD | Sample Depth (feet) | (0-3) | (0-3) | (0-5) |
| | | | | mg/kg | Date Collected | 06/05/2018 | 06/05/2018 | 06/05/2018 |
| | | | | pH 6.25-9.0 | | | | |
| Inorganic Analytical Parameters (SPLP) | | | | | | | | |
| Antimony,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Arsenic,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Barium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Beryllium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Cadmium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Calcium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Chromium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Cobalt,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Copper,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Iron,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Lead,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Magnesium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Manganese,SPLP | mg/L | --- | --- | --- | | 1.4 | -- | -- |
| Mercury,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Nickel,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Potassium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Selenium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Silver,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Sodium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Thallium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Vanadium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Zinc,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Cyanide,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Inorganic Analytical Parameters (TCLP) | | | | | | | | |
| Arsenic,TCLP | mg/L | --- | --- | --- | | <0.010 | <0.010 | <0.010 |
| Barium,TCLP | mg/L | --- | --- | --- | | 0.33 | 0.16 | 0.14 |
| Cadmium,TCLP | mg/L | --- | --- | --- | | 0.0038 | <0.0020 | <0.0020 |
| Chromium,TCLP | mg/L | --- | --- | --- | | <0.010 | <0.010 | <0.010 |
| Lead,TCLP | mg/L | --- | --- | --- | | <0.0075 | <0.0075 | <0.0075 |
| Mercury,TCLP | mg/L | --- | --- | --- | | <0.00020 | <0.00020 | <0.00020 |
| Selenium,TCLP | mg/L | --- | --- | --- | | <0.020 | <0.020 | <0.020 |
| Silver,TCLP | mg/L | --- | --- | --- | | <0.010 | <0.010 | <0.010 |
| Antimony,TCLP | mg/L | --- | --- | --- | | <0.0060 | <0.0060 | <0.0060 |
| Beryllium,TCLP | mg/L | --- | --- | --- | | <0.0040 | <0.0040 | <0.0040 |
| Calcium,TCLP | mg/L | --- | --- | --- | | 170 | 51 | 46 |
| Cobalt,TCLP | mg/L | --- | --- | --- | | <0.010 | <0.010 | <0.010 |
| Copper,TCLP | mg/L | --- | --- | --- | | <0.010 | <0.010 | <0.010 |
| Cyanide,TCLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Iron,TCLP | mg/L | --- | --- | --- | | 0.27 | 0.48 | 0.36 |
| Magnesium,TCLP | mg/L | --- | --- | --- | | 68 | 11 | 11 |
| Manganese,TCLP | mg/L | --- | --- | --- | | 1.7 | 0.019 | 0.022 |
| Nickel,TCLP | mg/L | --- | --- | --- | | 0.016 | <0.010 | <0.010 |
| Potassium,TCLP | mg/L | --- | --- | --- | | 1.4 | 1.7 | 1.2 |
| Sodium,TCLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Thallium,TCLP | mg/L | --- | --- | --- | | <0.0020 | <0.0020 | <0.0020 |
| Vanadium,TCLP | mg/L | --- | --- | --- | | <0.010 | <0.010 | <0.010 |
| Zinc,TCLP | mg/L | --- | --- | --- | | <0.020 | 0.049 | <0.020 |

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:049A

Preliminary Site Investigation

FAU 1312 -Golf Rd at Harms Rd (PESA #2409V-2)

Morton Grove, Cook County, IL

Terracon Project No. 11187007J

Page 3 of 8

| Analyte | Units | Background | | Maximum Allowed Concentration | Sample Identification | 2409V-2-B04 (0-5) | 2409V-2-B06 (0-3) | 2409V-2-B07 (0-5) |
|---------------------------------------------------|-------|------------|--------|-------------------------------|-----------------------|-------------------|-------------------|-------------------|
| | | | | CCDD | Sample Depth (feet) | (0-5) | (0-3) | (0-5) |
| | | | | mg/kg | Date Collected | 06/05/2018 | 06/05/2018 | 06/05/2018 |
| | | | | pH 6.25-9.0 | | | | |
| Chicago | MSAs | | | | | | | |
| Volatile Organic Analytical Parameters | | | | | | | | |
| Acetone | mg/kg | --- | --- | 25 | | <0.0071 | <0.0064 | 0.012 |
| Semivolatile Organic Analytical Parameters | | | | | | | | |
| Acenaphthene | mg/kg | 0.09 | 0.13 | 570 | | <0.0072 | <0.0065 | <0.0070 |
| Acenaphthylene | mg/kg | 0.03 | 0.07 | 85 | | <0.0053 | <0.0048 | <0.0051 |
| Anthracene | mg/kg | 0.25 | 0.4 | 12000 | | <0.0067 | <0.0061 | 0.02 |
| Benzo(a)anthracene | mg/kg | 1.1 | 1.8 | 0.9 | | 0.028 | 0.0077 | 0.065 |
| Benzo(a)pyrene | mg/kg | 1.3 | 2.1 | 0.09 | | 0.032 | 0.0093 | 0.066 |
| Benzo(b)fluoranthene | mg/kg | 1.5 | 2.1 | 0.9 | | 0.036 | <0.0078 | 0.071 |
| Benzo(g,h,i)perylene | mg/kg | 0.68 | 1.7 | 2300 | | 0.013 | <0.012 | 0.026 |
| Benzo(k)fluoranthene | mg/kg | 0.99 | 1.7 | 9 | | 0.016 | <0.011 | 0.029 |
| Chrysene | mg/kg | 1.2 | 2.7 | 88 | | 0.028 | <0.0099 | 0.062 |
| Dibenzo(a,h)anthracene | mg/kg | 0.2 | 0.42 | 0.09 | | <0.0077 | <0.0070 | <0.0075 |
| Fluoranthene | mg/kg | 2.7 | 4.1 | 3100 | | 0.06 | 0.01 | 0.11 |
| Fluorene | mg/kg | 0.1 | 0.18 | 560 | | <0.0056 | <0.0051 | <0.0055 |
| Indeno(1,2,3-c,d)pyrene | mg/kg | 0.86 | 1.6 | 0.9 | | 0.014 | <0.0094 | 0.027 |
| Phenanthrene | mg/kg | 1.3 | 2.5 | 210 | | 0.028 | 0.0054 | 0.065 |
| Pyrene | mg/kg | 1.9 | 3.0 | 2300 | | 0.05 | 0.0095 | 0.097 |
| Carbazole | mg/kg | --- | --- | 0.6 | | 0.12 | <0.091 | <0.097 |
| Inorganic Analytical Parameters | | | | | | | | |
| Arsenic | mg/kg | --- | 13 | 11.3 | | 6.2 | 3.7 | 5.4 |
| Barium | mg/kg | --- | 110 | 1500 | | 92 | 69 | 76 |
| Cadmium | mg/kg | --- | 0.6 | 5.2 | | 0.34 | 0.27 | 0.34 |
| Chromium, total | mg/kg | --- | 16.2 | 21 | | 21 | 16 | 16 |
| Lead | mg/kg | --- | 36 | 107 | | 17 | 15 | 34 |
| Mercury | mg/kg | --- | 0.06 | 0.89 | | 0.043 | 0.028 | 0.046 |
| Selenium | mg/kg | --- | 0.48 | 1.3 | | 1.3 | 0.81 | 1.2 |
| Silver | mg/kg | --- | 0.55 | 4.4 | | 0.34 | 0.29 | 0.32 |
| Antimony | mg/kg | --- | 4.0 | 5 | | <0.23 | <0.22 | <0.22 |
| Beryllium | mg/kg | --- | 0.59 | 22 | | 0.8 | 0.63 | 0.76 |
| Calcium | mg/kg | --- | 9,300 | --- | | 3100 | 2700 | 3700 |
| Cobalt | mg/kg | --- | 8.9 | 20 | | 15 | 12 | 9 |
| Copper | mg/kg | --- | 19.6 | 2900 | | 13 | 14 | 21 |
| Cyanide | mg/kg | --- | 0.51 | --- | | <0.20 | <0.19 | <0.18 |
| Iron | mg/kg | --- | 15,900 | 15000 | | 22000 | 15000 | 17000 |
| Magnesium | mg/kg | --- | 4,820 | 325000 | | 4400 | 3300 | 3600 |
| Manganese | mg/kg | --- | 636 | 630 | | 730 | 440 | 330 |
| Nickel | mg/kg | --- | 18 | 100 | | 26 | 23 | 24 |
| Potassium | mg/kg | --- | 1,268 | --- | | 2100 | 1200 | 1300 |
| Sodium | mg/kg | --- | 130 | --- | | 570 | 170 | 90 |
| Thallium | mg/kg | --- | 0.32 | 2.6 | | <0.29 | <0.28 | <0.29 |
| Vanadium | mg/kg | --- | 25.2 | 550 | | 32 | 24 | 28 |
| Zinc | mg/kg | --- | 95 | 5100 | | 79 | 57 | 62 |
| pH | | | 6.25 | 9 | | 7.4 | 7.7 | 7.2 |

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:049A

Preliminary Site Investigation

FAU 1312 -Golf Rd at Harms Rd (PESA #2409V-2)

Morton Grove, Cook County, IL

Terracon Project No. 11187007J

Page 4 of 8

| Analyte | Units | Background | | Maximum Allowed Concentration | Sample Identification | 2409V-2-B04 (0-5) | 2409V-2-B06 (0-3) | 2409V-2-B07 (0-5) |
|-----------------------------------------------|-------|------------|-----|-------------------------------|-----------------------|-------------------|-------------------|-------------------|
| | | | | CCDD | Sample Depth (feet) | (0-5) | (0-3) | (0-5) |
| | | | | mg/kg pH 6.25-9.0 | Date Collected | 06/05/2018 | 06/05/2018 | 06/05/2018 |
| Chicago | MSAs | | | | | | | |
| Inorganic Analytical Parameters (SPLP) | | | | | | | | |
| Antimony,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Arsenic,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Barium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Beryllium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Cadmium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Calcium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Chromium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Cobalt,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Copper,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Iron,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Lead,SPLP | mg/L | --- | --- | --- | | -- | -- | 0.032 |
| Magnesium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Manganese,SPLP | mg/L | --- | --- | --- | | -- | -- | 0.25 |
| Mercury,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Nickel,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Potassium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Selenium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Silver,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Sodium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Thallium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Vanadium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Zinc,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Cyanide,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Inorganic Analytical Parameters (TCLP) | | | | | | | | |
| Arsenic,TCLP | mg/L | --- | --- | --- | | <0.010 | <0.010 | <0.010 |
| Barium,TCLP | mg/L | --- | --- | --- | | 0.13 | 0.15 | 0.35 |
| Cadmium,TCLP | mg/L | --- | --- | --- | | <0.0020 | <0.0020 | 0.0043 |
| Chromium,TCLP | mg/L | --- | --- | --- | | <0.010 | <0.010 | <0.010 |
| Lead,TCLP | mg/L | --- | --- | --- | | <0.0075 | <0.0075 | 0.015 |
| Mercury,TCLP | mg/L | --- | --- | --- | | <0.00020 | <0.00020 | <0.00020 |
| Selenium,TCLP | mg/L | --- | --- | --- | | <0.020 | <0.020 | <0.020 |
| Silver,TCLP | mg/L | --- | --- | --- | | <0.010 | <0.010 | <0.010 |
| Antimony,TCLP | mg/L | --- | --- | --- | | <0.0060 | <0.0060 | <0.0060 |
| Beryllium,TCLP | mg/L | --- | --- | --- | | <0.0040 | <0.0040 | <0.0040 |
| Calcium,TCLP | mg/L | --- | --- | --- | | 53 | 57 | 160 |
| Cobalt,TCLP | mg/L | --- | --- | --- | | <0.010 | <0.010 | <0.010 |
| Copper,TCLP | mg/L | --- | --- | --- | | <0.010 | <0.010 | <0.010 |
| Cyanide,TCLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Iron,TCLP | mg/L | --- | --- | --- | | 0.31 | 0.27 | <0.20 |
| Magnesium,TCLP | mg/L | --- | --- | --- | | 15 | 17 | 75 |
| Manganese,TCLP | mg/L | --- | --- | --- | | 0.017 | 0.015 | 0.93 |
| Nickel,TCLP | mg/L | --- | --- | --- | | <0.010 | <0.010 | 0.016 |
| Potassium,TCLP | mg/L | --- | --- | --- | | 0.73 | 0.52 | 0.92 |
| Sodium,TCLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Thallium,TCLP | mg/L | --- | --- | --- | | <0.0020 | <0.0020 | <0.0020 |
| Vanadium,TCLP | mg/L | --- | --- | --- | | <0.010 | <0.010 | <0.010 |
| Zinc,TCLP | mg/L | --- | --- | --- | | 0.13 | 0.074 | 0.021 |

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:049A

Preliminary Site Investigation

FAU 1312 -Golf Rd at Harms Rd (PESA #2409V-2)

Morton Grove, Cook County, IL

Terracon Project No. 11187007J

Page 5 of 8

| Analyte | Units | Background | | Maximum Allowed Concentration | Sample Identification | 2409V-2-B07 (0-5) Dup | 2409V-2-B07 (5-10) | 2409V-2-B07 (10-15) |
|---------------------------------------------------|-------|------------|--------|-------------------------------|-----------------------|-----------------------|--------------------|---------------------|
| | | | | CCDD | Sample Depth (feet) | (0-5) | (5-10) | (10-15) |
| | | | | mg/kg | Date Collected | 06/05/2018 | 06/05/2018 | 06/05/2018 |
| | | | | pH 6.25-9.0 | | | | |
| Volatile Organic Analytical Parameters | | | | | | | | |
| Acetone | mg/kg | --- | --- | 25 | | 0.01 | 0.021 | 0.014 |
| Semivolatile Organic Analytical Parameters | | | | | | | | |
| Acenaphthene | mg/kg | 0.09 | 0.13 | 570 | | <0.0068 | <0.0067 | <0.0067 |
| Acenaphthylene | mg/kg | 0.03 | 0.07 | 85 | | <0.0050 | <0.0049 | <0.0049 |
| Anthracene | mg/kg | 0.25 | 0.4 | 12000 | | 0.011 | <0.0062 | <0.0063 |
| Benzo(a)anthracene | mg/kg | 1.1 | 1.8 | 0.9 | | 0.048 | <0.0050 | <0.0050 |
| Benzo(a)pyrene | mg/kg | 1.3 | 2.1 | 0.09 | | 0.05 | <0.0072 | <0.0072 |
| Benzo(b)fluoranthene | mg/kg | 1.5 | 2.1 | 0.9 | | 0.058 | <0.0080 | <0.0081 |
| Benzo(g,h,i)perylene | mg/kg | 0.68 | 1.7 | 2300 | | 0.021 | <0.012 | <0.012 |
| Benzo(k)fluoranthene | mg/kg | 0.99 | 1.7 | 9 | | 0.02 | <0.011 | <0.011 |
| Chrysene | mg/kg | 1.2 | 2.7 | 88 | | 0.045 | 0.021 | <0.010 |
| Dibenzo(a,h)anthracene | mg/kg | 0.2 | 0.42 | 0.09 | | <0.0073 | <0.0072 | <0.0072 |
| Fluoranthene | mg/kg | 2.7 | 4.1 | 3100 | | 0.084 | <0.0069 | <0.0069 |
| Fluorene | mg/kg | 0.1 | 0.18 | 560 | | <0.0053 | <0.0052 | <0.0053 |
| Indeno(1,2,3-c,d)pyrene | mg/kg | 0.86 | 1.6 | 0.9 | | 0.022 | <0.0096 | <0.0097 |
| Phenanthrene | mg/kg | 1.3 | 2.5 | 210 | | 0.038 | <0.0052 | 0.04 |
| Pyrene | mg/kg | 1.9 | 3.0 | 2300 | | 0.069 | <0.0074 | <0.0074 |
| Carbazole | mg/kg | --- | --- | 0.6 | | <0.095 | <0.092 | <0.094 |
| Inorganic Analytical Parameters | | | | | | | | |
| Arsenic | mg/kg | --- | 13 | 11.3 | | 3 | 9.6 | 6.2 |
| Barium | mg/kg | --- | 110 | 1500 | | 63 | 34 | 18 |
| Cadmium | mg/kg | --- | 0.6 | 5.2 | | 0.28 | 0.24 | 0.23 |
| Chromium, total | mg/kg | --- | 16.2 | 21 | | 16 | 13 | 9.8 |
| Lead | mg/kg | --- | 36 | 107 | | 21 | 13 | 9.5 |
| Mercury | mg/kg | --- | 0.06 | 0.89 | | 0.032 | 0.022 | 0.019 |
| Selenium | mg/kg | --- | 0.48 | 1.3 | | 0.71 | 0.69 | 0.86 |
| Silver | mg/kg | --- | 0.55 | 4.4 | | 0.25 | 0.18 | 0.17 |
| Antimony | mg/kg | --- | 4.0 | 5 | | <0.22 | <0.22 | 0.2 |
| Beryllium | mg/kg | --- | 0.59 | 22 | | 0.65 | 0.62 | 0.48 |
| Calcium | mg/kg | --- | 9,300 | --- | | 3200 | 74000 | 92000 |
| Cobalt | mg/kg | --- | 8.9 | 20 | | 7.6 | 11 | 7.7 |
| Copper | mg/kg | --- | 19.6 | 2900 | | 17 | 24 | 26 |
| Cyanide | mg/kg | --- | 0.51 | --- | | <0.18 | <0.17 | <0.19 |
| Iron | mg/kg | --- | 15,900 | 15000 | | 14000 | 18000 | 14000 |
| Magnesium | mg/kg | --- | 4,820 | 325000 | | 3400 | 33000 | 38000 |
| Manganese | mg/kg | --- | 636 | 630 | | 240 | 500 | 480 |
| Nickel | mg/kg | --- | 18 | 100 | | 20 | 28 | 21 |
| Potassium | mg/kg | --- | 1,268 | --- | | 1200 | 2600 | 2000 |
| Sodium | mg/kg | --- | 130 | --- | | 97 | 150 | 150 |
| Thallium | mg/kg | --- | 0.32 | 2.6 | | <0.29 | <0.28 | <0.26 |
| Vanadium | mg/kg | --- | 25.2 | 550 | | 27 | 18 | 14 |
| Zinc | mg/kg | --- | 95 | 5100 | | 55 | 52 | 61 |
| pH | | | 6.25 | 9 | | 7.2 | 7.9 | 7.7 |

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:049A

Preliminary Site Investigation

FAU 1312 -Golf Rd at Harms Rd (PESA #2409V-2)

Morton Grove, Cook County, IL

Terracon Project No. 11187007J

Page 6 of 8

| Analyte | Units | Background | | Maximum Allowed Concentration | Sample Identification | 2409V-2-B07 (0-5) Dup | 2409V-2-B07 (5-10) | 2409V-2-B07 (10-15) |
|-----------------------------------------------|-------|------------|-----|-------------------------------|-----------------------|-----------------------|--------------------|---------------------|
| | | | | CCDD | Sample Depth (feet) | (0-5) | (5-10) | (10-15) |
| | | | | mg/kg | Date Collected | 06/05/2018 | 06/05/2018 | 06/05/2018 |
| | | | | pH 6.25-9.0 | | | | |
| Inorganic Analytical Parameters (SPLP) | | | | | | | | |
| Antimony,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Arsenic,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Barium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Beryllium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Cadmium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Calcium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Chromium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Cobalt,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Copper,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Iron,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Lead,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Magnesium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Manganese,SPLP | mg/L | --- | --- | --- | | 0.25 | 0.16 | <0.010 |
| Mercury,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Nickel,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Potassium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Selenium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Silver,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Sodium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Thallium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Vanadium,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Zinc,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Cyanide,SPLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Inorganic Analytical Parameters (TCLP) | | | | | | | | |
| Arsenic,TCLP | mg/L | --- | --- | --- | | <0.010 | <0.010 | <0.010 |
| Barium,TCLP | mg/L | --- | --- | --- | | 0.26 | 0.42 | 0.32 |
| Cadmium,TCLP | mg/L | --- | --- | --- | | 0.0038 | 0.0043 | 0.0022 |
| Chromium,TCLP | mg/L | --- | --- | --- | | <0.010 | <0.010 | <0.010 |
| Lead,TCLP | mg/L | --- | --- | --- | | <0.0075 | <0.0075 | <0.0075 |
| Mercury,TCLP | mg/L | --- | --- | --- | | <0.00020 | <0.00020 | <0.00020 |
| Selenium,TCLP | mg/L | --- | --- | --- | | <0.020 | <0.020 | <0.020 |
| Silver,TCLP | mg/L | --- | --- | --- | | <0.010 | <0.010 | <0.010 |
| Antimony,TCLP | mg/L | --- | --- | --- | | <0.0060 | <0.0060 | <0.0060 |
| Beryllium,TCLP | mg/L | --- | --- | --- | | <0.0040 | <0.0040 | <0.0040 |
| Calcium,TCLP | mg/L | --- | --- | --- | | 77 | 450 | 430 |
| Cobalt,TCLP | mg/L | --- | --- | --- | | <0.010 | 0.024 | 0.031 |
| Copper,TCLP | mg/L | --- | --- | --- | | <0.010 | 0.011 | 0.028 |
| Cyanide,TCLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Iron,TCLP | mg/L | --- | --- | --- | | <0.20 | <0.20 | <0.20 |
| Magnesium,TCLP | mg/L | --- | --- | --- | | 28 | 100 | 79 |
| Manganese,TCLP | mg/L | --- | --- | --- | | 4.3 | 2.2 | 2 |
| Nickel,TCLP | mg/L | --- | --- | --- | | 0.017 | 0.051 | 0.063 |
| Potassium,TCLP | mg/L | --- | --- | --- | | 0.73 | 2.8 | 3.8 |
| Sodium,TCLP | mg/L | --- | --- | --- | | -- | -- | -- |
| Thallium,TCLP | mg/L | --- | --- | --- | | <0.0020 | <0.0020 | <0.0020 |
| Vanadium,TCLP | mg/L | --- | --- | --- | | <0.010 | <0.010 | <0.010 |
| Zinc,TCLP | mg/L | --- | --- | --- | | 0.074 | <0.020 | 0.031 |

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:049A

Preliminary Site Investigation

FAU 1312 -Golf Rd at Harms Rd (PESA #2409V-2)

Morton Grove, Cook County, IL

Terracon Project No. 11187007J

Page 7 of 8

| Analyte | Units | Background | | Maximum Allowed Concentration | Sample Identification | 2409V-2-B07 (15-21) |
|---------------------------------------------------|-------|------------|--------|-------------------------------|-----------------------|---------------------|
| | | | | CCDD | Sample Depth (feet) | (15-21) |
| | | Chicago | MSAs | mg/kg pH 6.25-9.0 | Date Collected | 06/05/2018 |
| Volatile Organic Analytical Parameters | | | | | | |
| Acetone | mg/kg | --- | --- | 25 | | 0.022 |
| Semivolatile Organic Analytical Parameters | | | | | | |
| Acenaphthene | mg/kg | 0.09 | 0.13 | 570 | | <0.0068 |
| Acenaphthylene | mg/kg | 0.03 | 0.07 | 85 | | <0.0050 |
| Anthracene | mg/kg | 0.25 | 0.4 | 12000 | | <0.0063 |
| Benzo(a)anthracene | mg/kg | 1.1 | 1.8 | 0.9 | | <0.0051 |
| Benzo(a)pyrene | mg/kg | 1.3 | 2.1 | 0.09 | | <0.0074 |
| Benzo(b)fluoranthene | mg/kg | 1.5 | 2.1 | 0.9 | | <0.0082 |
| Benzo(g,h,i)perylene | mg/kg | 0.68 | 1.7 | 2300 | | <0.012 |
| Benzo(k)fluoranthene | mg/kg | 0.99 | 1.7 | 9 | | <0.011 |
| Chrysene | mg/kg | 1.2 | 2.7 | 88 | | 0.013 |
| Dibenzo(a,h)anthracene | mg/kg | 0.2 | 0.42 | 0.09 | | <0.0073 |
| Fluoranthene | mg/kg | 2.7 | 4.1 | 3100 | | <0.0070 |
| Fluorene | mg/kg | 0.1 | 0.18 | 560 | | <0.0053 |
| Indeno(1,2,3-c,d)pyrene | mg/kg | 0.86 | 1.6 | 0.9 | | <0.0098 |
| Phenanthrene | mg/kg | 1.3 | 2.5 | 210 | | 0.033 |
| Pyrene | mg/kg | 1.9 | 3.0 | 2300 | | <0.0076 |
| Carbazole | mg/kg | --- | --- | 0.6 | | <0.095 |
| Inorganic Analytical Parameters | | | | | | |
| Arsenic | mg/kg | --- | 13 | 11.3 | | 5.2 |
| Barium | mg/kg | --- | 110 | 1500 | | 34 |
| Cadmium | mg/kg | --- | 0.6 | 5.2 | | 0.2 |
| Chromium, total | mg/kg | --- | 16.2 | 21 | | 15 |
| Lead | mg/kg | --- | 36 | 107 | | 10 |
| Mercury | mg/kg | --- | 0.06 | 0.89 | | 0.016 |
| Selenium | mg/kg | --- | 0.48 | 1.3 | | 1.1 |
| Silver | mg/kg | --- | 0.55 | 4.4 | | 0.15 |
| Antimony | mg/kg | --- | 4.0 | 5 | | <0.22 |
| Beryllium | mg/kg | --- | 0.59 | 22 | | 0.7 |
| Calcium | mg/kg | --- | 9,300 | --- | | 72000 |
| Cobalt | mg/kg | --- | 8.9 | 20 | | 10 |
| Copper | mg/kg | --- | 19.6 | 2900 | | 24 |
| Cyanide | mg/kg | --- | 0.51 | --- | | <0.18 |
| Iron | mg/kg | --- | 15,900 | 15000 | | 17000 |
| Magnesium | mg/kg | --- | 4,820 | 325000 | | 28000 |
| Manganese | mg/kg | --- | 636 | 630 | | 360 |
| Nickel | mg/kg | --- | 18 | 100 | | 26 |
| Potassium | mg/kg | --- | 1,268 | --- | | 3200 |
| Sodium | mg/kg | --- | 130 | --- | | 190 |
| Thallium | mg/kg | --- | 0.32 | 2.6 | | <0.28 |
| Vanadium | mg/kg | --- | 25.2 | 550 | | 20 |
| Zinc | mg/kg | --- | 95 | 5100 | | 54 |
| pH | | | 6.25 | 9 | | 8 |

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:049A

Preliminary Site Investigation

FAU 1312 -Golf Rd at Harms Rd (PESA #2409V-2)

Morton Grove, Cook County, IL

Terracon Project No. 11187007J

Page 8 of 8

| Analyte | Units | Background | | Maximum Allowed Concentration | Sample Identification | 2409V-2-B07 (15-21) |
|-----------------------------------------------|-------|------------|-----|-------------------------------|-----------------------|---------------------|
| | | | | CCDD | Sample Depth (feet) | (15-21) |
| | | | | mg/kg pH 6.25-9.0 | Date Collected | 06/05/2018 |
| Inorganic Analytical Parameters (SPLP) | | | | | | |
| Antimony,SPLP | mg/L | --- | --- | --- | | -- |
| Arsenic,SPLP | mg/L | --- | --- | --- | | -- |
| Barium,SPLP | mg/L | --- | --- | --- | | -- |
| Beryllium,SPLP | mg/L | --- | --- | --- | | -- |
| Cadmium,SPLP | mg/L | --- | --- | --- | | -- |
| Calcium,SPLP | mg/L | --- | --- | --- | | -- |
| Chromium,SPLP | mg/L | --- | --- | --- | | -- |
| Cobalt,SPLP | mg/L | --- | --- | --- | | -- |
| Copper,SPLP | mg/L | --- | --- | --- | | -- |
| Iron,SPLP | mg/L | --- | --- | --- | | -- |
| Lead,SPLP | mg/L | --- | --- | --- | | -- |
| Magnesium,SPLP | mg/L | --- | --- | --- | | -- |
| Manganese,SPLP | mg/L | --- | --- | --- | | 0.22 |
| Mercury,SPLP | mg/L | --- | --- | --- | | -- |
| Nickel,SPLP | mg/L | --- | --- | --- | | -- |
| Potassium,SPLP | mg/L | --- | --- | --- | | -- |
| Selenium,SPLP | mg/L | --- | --- | --- | | -- |
| Silver,SPLP | mg/L | --- | --- | --- | | -- |
| Sodium,SPLP | mg/L | --- | --- | --- | | -- |
| Thallium,SPLP | mg/L | --- | --- | --- | | -- |
| Vanadium,SPLP | mg/L | --- | --- | --- | | -- |
| Zinc,SPLP | mg/L | --- | --- | --- | | -- |
| Cyanide,SPLP | mg/L | --- | --- | --- | | -- |
| Inorganic Analytical Parameters (TCLP) | | | | | | |
| Arsenic,TCLP | mg/L | --- | --- | --- | | <0.010 |
| Barium,TCLP | mg/L | --- | --- | --- | | 0.55 |
| Cadmium,TCLP | mg/L | --- | --- | --- | | 0.002 |
| Chromium,TCLP | mg/L | --- | --- | --- | | <0.010 |
| Lead,TCLP | mg/L | --- | --- | --- | | <0.0075 |
| Mercury,TCLP | mg/L | --- | --- | --- | | <0.00020 |
| Selenium,TCLP | mg/L | --- | --- | --- | | <0.020 |
| Silver,TCLP | mg/L | --- | --- | --- | | <0.010 |
| Antimony,TCLP | mg/L | --- | --- | --- | | <0.0060 |
| Beryllium,TCLP | mg/L | --- | --- | --- | | <0.0040 |
| Calcium,TCLP | mg/L | --- | --- | --- | | 550 |
| Cobalt,TCLP | mg/L | --- | --- | --- | | 0.021 |
| Copper,TCLP | mg/L | --- | --- | --- | | 0.018 |
| Cyanide,TCLP | mg/L | --- | --- | --- | | -- |
| Iron,TCLP | mg/L | --- | --- | --- | | <0.20 |
| Magnesium,TCLP | mg/L | --- | --- | --- | | 51 |
| Manganese,TCLP | mg/L | --- | --- | --- | | 2 |
| Nickel,TCLP | mg/L | --- | --- | --- | | 0.055 |
| Potassium,TCLP | mg/L | --- | --- | --- | | 4.7 |
| Sodium,TCLP | mg/L | --- | --- | --- | | -- |
| Thallium,TCLP | mg/L | --- | --- | --- | | <0.0020 |
| Vanadium,TCLP | mg/L | --- | --- | --- | | <0.010 |
| Zinc,TCLP | mg/L | --- | --- | --- | | <0.020 |

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: 500-146450-1

Client Project/Site: IDOT - Morton Grove - WO 049

For:

Terracon Consulting Eng & Scientists

192 Exchange Blvd

Glendale Heights, Illinois 60139

Attn: Mr. Matthew Weiss

Jodie Bracken

Authorized for release by:

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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: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Job ID: 500-146450-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-146450-1

Receipt

The samples were received on 6/5/2018 6:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 2.3° C, 5.1° C, 5.4° C and 5.6° C.

GC/MS VOA

Method(s) 8260B: The following analyte recovered outside control limits for the LCS/LCSD associated with 437354: Bromomethane. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method(s) 8260B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch 437354 recovered outside control limits for the following analytes: Chloroethane.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: The laboratory control sample (LCS) for preparation batch 500-436422 and analytical batch 500-436747 recovered outside control limits for 3,3'-Dichlorobenzidine. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data has been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B05 (0-3)

Lab Sample ID: 500-146450-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil | Fac | D | Method | Prep Type |
|----------------------|--------|-----------|--------|--------|-------|-----|-----|-------|-----------|-----------|
| Benzo[a]anthracene | 0.016 | J | 0.039 | 0.0053 | mg/Kg | 1 | ☼ | 8270D | Total/NA | |
| Benzo[a]pyrene | 0.018 | J | 0.039 | 0.0076 | mg/Kg | 1 | ☼ | 8270D | Total/NA | |
| Benzo[b]fluoranthene | 0.020 | J | 0.039 | 0.0084 | mg/Kg | 1 | ☼ | 8270D | Total/NA | |
| Benzo[g,h,i]perylene | 0.014 | J | 0.039 | 0.013 | mg/Kg | 1 | ☼ | 8270D | Total/NA | |
| Carbazole | 0.12 | J | 0.20 | 0.098 | mg/Kg | 1 | ☼ | 8270D | Total/NA | |
| Chrysene | 0.016 | J | 0.039 | 0.011 | mg/Kg | 1 | ☼ | 8270D | Total/NA | |
| Fluoranthene | 0.024 | J | 0.039 | 0.0073 | mg/Kg | 1 | ☼ | 8270D | Total/NA | |
| Phenanthrene | 0.0096 | J | 0.039 | 0.0055 | mg/Kg | 1 | ☼ | 8270D | Total/NA | |
| Pyrene | 0.023 | J | 0.039 | 0.0078 | mg/Kg | 1 | ☼ | 8270D | Total/NA | |
| Antimony | 0.27 | J | 1.1 | 0.21 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Arsenic | 4.6 | | 0.55 | 0.19 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Barium | 49 | | 0.55 | 0.063 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Beryllium | 0.48 | | 0.22 | 0.052 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Cadmium | 0.37 | B | 0.11 | 0.020 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Chromium | 14 | | 0.55 | 0.27 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Cobalt | 6.3 | | 0.28 | 0.072 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Copper | 44 | | 0.55 | 0.15 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Iron | 12000 | B | 11 | 5.7 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Lead | 230 | | 0.28 | 0.13 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Magnesium | 21000 | B | 5.5 | 2.7 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Calcium | 50000 | B | 110 | 19 | mg/Kg | 10 | ☼ | 6010B | Total/NA | |
| Manganese | 340 | | 0.55 | 0.080 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Nickel | 17 | | 0.55 | 0.16 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Selenium | 0.73 | | 0.55 | 0.32 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Silver | 0.18 | J | 0.28 | 0.071 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Vanadium | 20 | | 0.28 | 0.065 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Zinc | 72 | | 1.1 | 0.49 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Potassium | 1200 | | 28 | 9.8 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Sodium | 600 | | 55 | 8.2 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Barium | 0.30 | J | 0.50 | 0.050 | mg/L | 1 | | 6010B | TCLP | |
| Cadmium | 0.0035 | J | 0.0050 | 0.0020 | mg/L | 1 | | 6010B | TCLP | |
| Calcium | 320 | | 5.0 | 0.50 | mg/L | 1 | | 6010B | TCLP | |
| Copper | 0.013 | J | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP | |
| Lead | 0.036 | | 0.0075 | 0.0075 | mg/L | 1 | | 6010B | TCLP | |
| Magnesium | 97 | | 2.5 | 0.50 | mg/L | 1 | | 6010B | TCLP | |
| Manganese | 0.74 | | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP | |
| Nickel | 0.018 | J | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP | |
| Potassium | 0.58 | J | 2.5 | 0.50 | mg/L | 1 | | 6010B | TCLP | |
| Zinc | 0.15 | J | 0.50 | 0.020 | mg/L | 1 | | 6010B | TCLP | |
| Lead | 0.33 | | 0.0075 | 0.0075 | mg/L | 1 | | 6010B | SPLP East | |
| Manganese | 0.64 | | 0.025 | 0.010 | mg/L | 1 | | 6010B | SPLP East | |
| Mercury | 0.025 | B | 0.018 | 0.0059 | mg/Kg | 1 | ☼ | 7471B | Total/NA | |
| pH | 8.2 | | 0.20 | 0.20 | SU | 1 | | 9045D | Total/NA | |

Client Sample ID: 2409V-1-B04 (0-3)

Lab Sample ID: 500-146450-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil | Fac | D | Method | Prep Type |
|---------|--------|-----------|-------|--------|-------|-----|-----|-------|----------|-----------|
| Acetone | 0.0087 | J | 0.016 | 0.0072 | mg/Kg | 1 | ☼ | 8260B | Total/NA | |
| Arsenic | 5.1 | | 0.58 | 0.20 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Barium | 70 | | 0.58 | 0.066 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B04 (0-3) (Continued)

Lab Sample ID: 500-146450-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------|--------|-----------|--------|--------|-------|---------|---|--------|-----------|
| Beryllium | 0.79 | | 0.23 | 0.054 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Cadmium | 0.21 | B | 0.12 | 0.021 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Chromium | 20 | | 0.58 | 0.29 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Cobalt | 12 | | 0.29 | 0.076 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Copper | 17 | | 0.58 | 0.16 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Iron | 20000 | B | 12 | 6.1 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Lead | 16 | | 0.29 | 0.13 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Magnesium | 4400 | B | 5.8 | 2.9 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Calcium | 2600 | B | 12 | 2.0 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Manganese | 410 | | 0.58 | 0.084 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Nickel | 27 | | 0.58 | 0.17 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Selenium | 1.1 | | 0.58 | 0.34 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Silver | 0.32 | | 0.29 | 0.075 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Vanadium | 31 | | 0.29 | 0.069 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Zinc | 60 | | 1.2 | 0.51 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Potassium | 2000 | | 29 | 10 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Sodium | 550 | | 58 | 8.6 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Barium | 0.14 | J | 0.50 | 0.050 | mg/L | 1 | | 6010B | TCLP |
| Cadmium | 0.0020 | J | 0.0050 | 0.0020 | mg/L | 1 | | 6010B | TCLP |
| Calcium | 49 | | 5.0 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Iron | 0.59 | | 0.40 | 0.20 | mg/L | 1 | | 6010B | TCLP |
| Magnesium | 14 | | 2.5 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Manganese | 0.014 | J | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP |
| Potassium | 0.67 | J | 2.5 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Mercury | 0.032 | B | 0.018 | 0.0060 | mg/Kg | 1 | ☼ | 7471B | Total/NA |
| pH | 8.0 | | 0.20 | 0.20 | SU | 1 | | 9045D | Total/NA |

Client Sample ID: 2409V-1-B03 (0-3)

Lab Sample ID: 500-146450-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-------|--------|-------|---------|---|--------|-----------|
| Acetone | 0.014 | J | 0.017 | 0.0072 | mg/Kg | 1 | ☼ | 8260B | Total/NA |
| Anthracene | 0.014 | J | 0.037 | 0.0063 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[a]anthracene | 0.098 | | 0.037 | 0.0051 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[a]pyrene | 0.12 | | 0.037 | 0.0073 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[b]fluoranthene | 0.19 | | 0.037 | 0.0081 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[g,h,i]perylene | 0.082 | | 0.037 | 0.012 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[k]fluoranthene | 0.052 | | 0.037 | 0.011 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Carbazole | 0.12 | J | 0.19 | 0.094 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Chrysene | 0.13 | | 0.037 | 0.010 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Dibenz(a,h)anthracene | 0.021 | J | 0.037 | 0.0073 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Fluoranthene | 0.21 | | 0.037 | 0.0070 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Indeno[1,2,3-cd]pyrene | 0.076 | | 0.037 | 0.0098 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| 2-Methylnaphthalene | 0.0082 | J | 0.076 | 0.0069 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Phenanthrene | 0.071 | | 0.037 | 0.0053 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Pyrene | 0.18 | | 0.037 | 0.0075 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Antimony | 0.31 | J | 1.1 | 0.22 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Arsenic | 6.7 | | 0.57 | 0.19 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Barium | 62 | | 0.57 | 0.065 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Beryllium | 0.61 | | 0.23 | 0.053 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Cadmium | 0.51 | B | 0.11 | 0.020 | mg/Kg | 1 | ☼ | 6010B | Total/NA |

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B03 (0-3) (Continued)

Lab Sample ID: 500-146450-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------|--------|-----------|--------|--------|-------|---------|---|--------|-----------|
| Chromium | 19 | | 0.57 | 0.28 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Cobalt | 9.1 | | 0.28 | 0.075 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Copper | 31 | | 0.57 | 0.16 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Iron | 16000 | B | 11 | 5.9 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Lead | 200 | | 0.28 | 0.13 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Magnesium | 10000 | B | 5.7 | 2.8 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Calcium | 15000 | B | 11 | 1.9 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Manganese | 370 | | 0.57 | 0.083 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Nickel | 21 | | 0.57 | 0.17 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Selenium | 1.0 | | 0.57 | 0.33 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Silver | 0.28 | | 0.28 | 0.073 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Vanadium | 23 | | 0.28 | 0.067 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Zinc | 100 | | 1.1 | 0.50 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Potassium | 1600 | | 28 | 10 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Sodium | 460 | | 57 | 8.4 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Barium | 0.28 | J | 0.50 | 0.050 | mg/L | 1 | | 6010B | TCLP |
| Cadmium | 0.0040 | J | 0.0050 | 0.0020 | mg/L | 1 | | 6010B | TCLP |
| Calcium | 200 | | 5.0 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Copper | 0.012 | J | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP |
| Lead | 0.034 | | 0.0075 | 0.0075 | mg/L | 1 | | 6010B | TCLP |
| Magnesium | 90 | | 2.5 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Manganese | 0.91 | | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP |
| Nickel | 0.016 | J | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP |
| Potassium | 1.0 | J | 2.5 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Zinc | 0.086 | J | 0.50 | 0.020 | mg/L | 1 | | 6010B | TCLP |
| Lead | 0.18 | | 0.0075 | 0.0075 | mg/L | 1 | | 6010B | SPLP East |
| Manganese | 0.42 | | 0.025 | 0.010 | mg/L | 1 | | 6010B | SPLP East |
| Mercury | 0.086 | B | 0.018 | 0.0061 | mg/Kg | 1 | ☼ | 7471B | Total/NA |
| pH | 8.4 | | 0.20 | 0.20 | SU | 1 | | 9045D | Total/NA |

Client Sample ID: 2409V-1-B02 (0-3)

Lab Sample ID: 500-146450-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-------|--------|-------|---------|---|--------|-----------|
| Acetone | 0.0093 | J | 0.016 | 0.0071 | mg/Kg | 1 | ☼ | 8260B | Total/NA |
| Benzo[a]anthracene | 0.013 | J | 0.040 | 0.0054 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[a]pyrene | 0.017 | J | 0.040 | 0.0078 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[b]fluoranthene | 0.021 | J | 0.040 | 0.0087 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[g,h,i]perylene | 0.013 | J | 0.040 | 0.013 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Chrysene | 0.017 | J | 0.040 | 0.011 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Fluoranthene | 0.021 | J | 0.040 | 0.0075 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Indeno[1,2,3-cd]pyrene | 0.010 | J | 0.040 | 0.010 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Phenanthrene | 0.0078 | J | 0.040 | 0.0056 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Pyrene | 0.019 | J | 0.040 | 0.0080 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Antimony | 0.38 | J | 1.2 | 0.23 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Arsenic | 6.2 | | 0.60 | 0.21 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Barium | 81 | | 0.60 | 0.069 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Beryllium | 0.53 | | 0.24 | 0.056 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Cadmium | 0.36 | B | 0.12 | 0.022 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Chromium | 13 | | 0.60 | 0.30 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Cobalt | 16 | | 0.30 | 0.079 | mg/Kg | 1 | ☼ | 6010B | Total/NA |

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B02 (0-3) (Continued)

Lab Sample ID: 500-146450-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------|--------|-----------|--------|--------|-------|---------|---|--------|-----------|
| Copper | 22 | | 0.60 | 0.17 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Iron | 18000 | B | 12 | 6.3 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Lead | 30 | | 0.30 | 0.14 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Magnesium | 19000 | B | 6.0 | 3.0 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Calcium | 30000 | B | 12 | 2.0 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Manganese | 870 | | 0.60 | 0.087 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Nickel | 30 | | 0.60 | 0.18 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Selenium | 0.79 | | 0.60 | 0.35 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Silver | 0.27 | J | 0.30 | 0.078 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Vanadium | 26 | | 0.30 | 0.071 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Zinc | 46 | | 1.2 | 0.53 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Potassium | 1500 | | 30 | 11 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Sodium | 250 | | 60 | 8.9 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Barium | 0.28 | J | 0.50 | 0.050 | mg/L | 1 | | 6010B | TCLP |
| Cadmium | 0.0039 | J | 0.0050 | 0.0020 | mg/L | 1 | | 6010B | TCLP |
| Calcium | 270 | | 5.0 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Copper | 0.012 | J | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP |
| Lead | 0.015 | | 0.0075 | 0.0075 | mg/L | 1 | | 6010B | TCLP |
| Magnesium | 140 | | 2.5 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Manganese | 1.1 | | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP |
| Nickel | 0.016 | J | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP |
| Potassium | 1.0 | J | 2.5 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Lead | 0.17 | | 0.0075 | 0.0075 | mg/L | 1 | | 6010B | SPLP East |
| Manganese | 0.36 | | 0.025 | 0.010 | mg/L | 1 | | 6010B | SPLP East |
| Mercury | 0.031 | B | 0.020 | 0.0066 | mg/Kg | 1 | ☼ | 7471B | Total/NA |
| pH | 7.8 | | 0.20 | 0.20 | SU | 1 | | 9045D | Total/NA |

Client Sample ID: 2409V-1-B01 (0-3)

Lab Sample ID: 500-146450-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-------|--------|-------|---------|---|--------|-----------|
| Benzo[a]anthracene | 0.036 | J | 0.040 | 0.0054 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[a]pyrene | 0.045 | | 0.040 | 0.0077 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[b]fluoranthene | 0.060 | | 0.040 | 0.0086 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[g,h,i]perylene | 0.025 | J | 0.040 | 0.013 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[k]fluoranthene | 0.018 | J | 0.040 | 0.012 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Carbazole | 0.12 | J | 0.20 | 0.10 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Chrysene | 0.049 | | 0.040 | 0.011 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Fluoranthene | 0.070 | | 0.040 | 0.0074 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Indeno[1,2,3-cd]pyrene | 0.022 | J | 0.040 | 0.010 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Phenanthrene | 0.030 | J | 0.040 | 0.0056 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Pyrene | 0.065 | | 0.040 | 0.0079 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Arsenic | 5.2 | | 0.56 | 0.19 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Barium | 56 | | 0.56 | 0.064 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Beryllium | 0.65 | | 0.23 | 0.053 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Cadmium | 0.36 | B | 0.11 | 0.020 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Chromium | 17 | | 0.56 | 0.28 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Cobalt | 9.0 | | 0.28 | 0.074 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Copper | 23 | | 0.56 | 0.16 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Iron | 16000 | B | 11 | 5.9 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Lead | 47 | | 0.28 | 0.13 | mg/Kg | 1 | ☼ | 6010B | Total/NA |

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B01 (0-3) (Continued)

Lab Sample ID: 500-146450-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------|--------|-----------|--------|--------|-------|---------|---|--------|-----------|
| Magnesium | 4400 | B | 5.6 | 2.8 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Calcium | 3900 | B | 11 | 1.9 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Manganese | 300 | | 0.56 | 0.082 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Nickel | 25 | | 0.56 | 0.16 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Selenium | 0.68 | | 0.56 | 0.33 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Silver | 0.24 | J | 0.28 | 0.073 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Vanadium | 25 | | 0.28 | 0.066 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Zinc | 64 | | 1.1 | 0.49 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Potassium | 1700 | | 28 | 10 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Sodium | 390 | | 56 | 8.3 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Barium | 0.27 | J | 0.50 | 0.050 | mg/L | 1 | | 6010B | TCLP |
| Cadmium | 0.0046 | J | 0.0050 | 0.0020 | mg/L | 1 | | 6010B | TCLP |
| Calcium | 110 | | 5.0 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Copper | 0.014 | J | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP |
| Iron | 0.38 | J | 0.40 | 0.20 | mg/L | 1 | | 6010B | TCLP |
| Lead | 0.016 | | 0.0075 | 0.0075 | mg/L | 1 | | 6010B | TCLP |
| Magnesium | 46 | | 2.5 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Manganese | 0.30 | | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP |
| Nickel | 0.015 | J | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP |
| Potassium | 1.3 | J | 2.5 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Zinc | 0.073 | J | 0.50 | 0.020 | mg/L | 1 | | 6010B | TCLP |
| Lead | 0.32 | | 0.0075 | 0.0075 | mg/L | 1 | | 6010B | SPLP East |
| Manganese | 0.78 | | 0.025 | 0.010 | mg/L | 1 | | 6010B | SPLP East |
| Mercury | 0.083 | B | 0.018 | 0.0060 | mg/Kg | 1 | ☼ | 7471B | Total/NA |
| pH | 7.6 | | 0.20 | 0.20 | SU | 1 | | 9045D | Total/NA |

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|-------------------|--------|----------------|----------------|
| 500-146450-1 | 2409V-1-B05 (0-3) | Solid | 06/05/18 07:40 | 06/05/18 18:30 |
| 500-146450-2 | 2409V-1-B04 (0-3) | Solid | 06/05/18 08:10 | 06/05/18 18:30 |
| 500-146450-3 | 2409V-1-B03 (0-3) | Solid | 06/05/18 08:35 | 06/05/18 18:30 |
| 500-146450-4 | 2409V-1-B02 (0-3) | Solid | 06/05/18 08:55 | 06/05/18 18:30 |
| 500-146450-5 | 2409V-1-B01 (0-3) | Solid | 06/05/18 09:15 | 06/05/18 18:30 |

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B05 (0-3)

Lab Sample ID: 500-146450-1

Date Collected: 06/05/18 07:40

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 84.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|-----------|--------|---------|-------|---|----------------|----------------|---------|
| Acetone | <0.0074 | | 0.017 | 0.0074 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Benzene | <0.00043 | | 0.0017 | 0.00043 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Bromodichloromethane | <0.00034 | | 0.0017 | 0.00034 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Bromoform | <0.00049 | | 0.0017 | 0.00049 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Bromomethane | <0.0016 | * | 0.0042 | 0.0016 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| 2-Butanone (MEK) | <0.0019 | | 0.0042 | 0.0019 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Carbon disulfide | <0.00088 | | 0.0042 | 0.00088 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Carbon tetrachloride | <0.00049 | | 0.0017 | 0.00049 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Chlorobenzene | <0.00063 | | 0.0017 | 0.00063 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Chloroethane | <0.0013 | * | 0.0042 | 0.0013 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Chloroform | <0.00059 | | 0.0017 | 0.00059 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Chloromethane | <0.0017 | | 0.0042 | 0.0017 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| cis-1,2-Dichloroethene | <0.00047 | | 0.0017 | 0.00047 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| cis-1,3-Dichloropropene | <0.00051 | | 0.0017 | 0.00051 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Dibromochloromethane | <0.00055 | | 0.0017 | 0.00055 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| 1,1-Dichloroethane | <0.00058 | | 0.0017 | 0.00058 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| 1,2-Dichloroethane | <0.0013 | | 0.0042 | 0.0013 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| 1,1-Dichloroethene | <0.00058 | | 0.0017 | 0.00058 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| 1,2-Dichloropropane | <0.00044 | | 0.0017 | 0.00044 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| 1,3-Dichloropropane, Total | <0.00059 | | 0.0017 | 0.00059 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Ethylbenzene | <0.00081 | | 0.0017 | 0.00081 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| 2-Hexanone | <0.0013 | | 0.0042 | 0.0013 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Methylene Chloride | <0.0017 | | 0.0042 | 0.0017 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| 4-Methyl-2-pentanone (MIBK) | <0.0013 | | 0.0042 | 0.0013 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Methyl tert-butyl ether | <0.00050 | | 0.0017 | 0.00050 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Styrene | <0.00051 | | 0.0017 | 0.00051 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| 1,1,2,2-Tetrachloroethane | <0.00054 | | 0.0017 | 0.00054 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Tetrachloroethene | <0.00058 | | 0.0017 | 0.00058 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Toluene | <0.00043 | | 0.0017 | 0.00043 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| trans-1,2-Dichloroethene | <0.00075 | | 0.0017 | 0.00075 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| trans-1,3-Dichloropropene | <0.00059 | | 0.0017 | 0.00059 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| 1,1,1-Trichloroethane | <0.00057 | | 0.0017 | 0.00057 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| 1,1,2-Trichloroethane | <0.00073 | | 0.0017 | 0.00073 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Trichloroethene | <0.00057 | | 0.0017 | 0.00057 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Vinyl acetate | <0.0015 | | 0.0042 | 0.0015 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Vinyl chloride | <0.00075 | | 0.0017 | 0.00075 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Xylenes, Total | <0.00054 | | 0.0034 | 0.00054 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 116 | | 75 - 131 | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Dibromofluoromethane | 111 | | 75 - 126 | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 116 | | 70 - 134 | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Toluene-d8 (Surr) | 116 | | 75 - 124 | 06/06/18 09:41 | 06/18/18 22:56 | 1 |

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Acenaphthene | <0.0070 | | 0.039 | 0.0070 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Acenaphthylene | <0.0052 | | 0.039 | 0.0052 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Anthracene | <0.0065 | | 0.039 | 0.0065 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Benzo[a]anthracene | 0.016 | J | 0.039 | 0.0053 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B05 (0-3)

Lab Sample ID: 500-146450-1

Date Collected: 06/05/18 07:40

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 84.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Benzo[a]pyrene | 0.018 | J | 0.039 | 0.0076 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Benzo[b]fluoranthene | 0.020 | J | 0.039 | 0.0084 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Benzo[g,h,i]perylene | 0.014 | J | 0.039 | 0.013 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Benzo[k]fluoranthene | <0.012 | | 0.039 | 0.012 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Bis(2-chloroethoxy)methane | <0.040 | | 0.20 | 0.040 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Bis(2-chloroethyl)ether | <0.059 | | 0.20 | 0.059 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Bis(2-ethylhexyl) phthalate | <0.071 | | 0.20 | 0.071 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 4-Bromophenyl phenyl ether | <0.052 | | 0.20 | 0.052 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Butyl benzyl phthalate | <0.074 | | 0.20 | 0.074 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Carbazole | 0.12 | J | 0.20 | 0.098 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 4-Chloroaniline | <0.18 | | 0.79 | 0.18 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 4-Chloro-3-methylphenol | <0.13 | | 0.39 | 0.13 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 2-Chloronaphthalene | <0.043 | | 0.20 | 0.043 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 2-Chlorophenol | <0.067 | | 0.20 | 0.067 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 4-Chlorophenyl phenyl ether | <0.046 | | 0.20 | 0.046 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Chrysene | 0.016 | J | 0.039 | 0.011 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Dibenz(a,h)anthracene | <0.0076 | | 0.039 | 0.0076 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Dibenzofuran | <0.046 | | 0.20 | 0.046 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 1,2-Dichlorobenzene | <0.047 | | 0.20 | 0.047 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 1,3-Dichlorobenzene | <0.044 | | 0.20 | 0.044 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 1,4-Dichlorobenzene | <0.050 | | 0.20 | 0.050 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 3,3'-Dichlorobenzidine | <0.055 * | | 0.20 | 0.055 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 2,4-Dichlorophenol | <0.093 | | 0.39 | 0.093 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Diethyl phthalate | <0.066 | | 0.20 | 0.066 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 2,4-Dimethylphenol | <0.15 | | 0.39 | 0.15 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Dimethyl phthalate | <0.051 | | 0.20 | 0.051 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Di-n-butyl phthalate | <0.060 | | 0.20 | 0.060 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 4,6-Dinitro-2-methylphenol | <0.31 | | 0.79 | 0.31 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 2,4-Dinitrophenol | <0.69 | | 0.79 | 0.69 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 2,4-Dinitrotoluene | <0.062 | | 0.20 | 0.062 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 2,6-Dinitrotoluene | <0.077 | | 0.20 | 0.077 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Di-n-octyl phthalate | <0.064 | | 0.20 | 0.064 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Fluoranthene | 0.024 | J | 0.039 | 0.0073 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Fluorene | <0.0055 | | 0.039 | 0.0055 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Hexachlorobenzene | <0.0091 | | 0.079 | 0.0091 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Hexachlorobutadiene | <0.061 | | 0.20 | 0.061 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Hexachlorocyclopentadiene | <0.22 | | 0.79 | 0.22 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Hexachloroethane | <0.059 | | 0.20 | 0.059 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Indeno[1,2,3-cd]pyrene | <0.010 | | 0.039 | 0.010 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Isophorone | <0.044 | | 0.20 | 0.044 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 2-Methylnaphthalene | <0.0072 | | 0.079 | 0.0072 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 2-Methylphenol | <0.063 | | 0.20 | 0.063 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 3 & 4 Methylphenol | <0.065 | | 0.20 | 0.065 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Naphthalene | <0.0060 | | 0.039 | 0.0060 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 2-Nitroaniline | <0.053 | | 0.20 | 0.053 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 3-Nitroaniline | <0.12 | | 0.39 | 0.12 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 4-Nitroaniline | <0.16 | | 0.39 | 0.16 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Nitrobenzene | <0.0098 | | 0.039 | 0.0098 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 2-Nitrophenol | <0.092 | | 0.39 | 0.092 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B05 (0-3)

Lab Sample ID: 500-146450-1

Date Collected: 06/05/18 07:40

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 84.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|---------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| 4-Nitrophenol | <0.37 | | 0.79 | 0.37 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| N-Nitrosodi-n-propylamine | <0.048 | | 0.079 | 0.048 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| N-Nitrosodiphenylamine | <0.046 | | 0.20 | 0.046 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 2,2'-oxybis[1-chloropropane] | <0.045 | | 0.20 | 0.045 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Pentachlorophenol | <0.63 | | 0.79 | 0.63 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Phenanthrene | 0.0096 | J | 0.039 | 0.0055 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Phenol | <0.087 | | 0.20 | 0.087 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Pyrene | 0.023 | J | 0.039 | 0.0078 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 1,2,4-Trichlorobenzene | <0.042 | | 0.20 | 0.042 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 2,4,5-Trichlorophenol | <0.089 | | 0.39 | 0.089 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 2,4,6-Trichlorophenol | <0.13 | | 0.39 | 0.13 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl | 96 | | 44 - 121 | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 2-Fluorophenol | 118 | | 46 - 133 | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Nitrobenzene-d5 | 90 | | 41 - 120 | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Phenol-d5 | 102 | | 46 - 125 | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Terphenyl-d14 | 109 | | 35 - 160 | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 2,4,6-Tribromophenol | 75 | | 25 - 139 | 06/12/18 07:02 | 06/13/18 19:01 | 1 |

Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | 0.27 | J | 1.1 | 0.21 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Arsenic | 4.6 | | 0.55 | 0.19 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Barium | 49 | | 0.55 | 0.063 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Beryllium | 0.48 | | 0.22 | 0.052 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Cadmium | 0.37 | B | 0.11 | 0.020 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Chromium | 14 | | 0.55 | 0.27 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Cobalt | 6.3 | | 0.28 | 0.072 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Copper | 44 | | 0.55 | 0.15 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Iron | 12000 | B | 11 | 5.7 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Lead | 230 | | 0.28 | 0.13 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Magnesium | 21000 | B | 5.5 | 2.7 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Calcium | 50000 | B | 110 | 19 | mg/Kg | ☼ | 06/07/18 08:45 | 06/09/18 04:50 | 10 |
| Manganese | 340 | | 0.55 | 0.080 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Nickel | 17 | | 0.55 | 0.16 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Selenium | 0.73 | | 0.55 | 0.32 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Silver | 0.18 | J | 0.28 | 0.071 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Thallium | <0.28 | | 0.55 | 0.28 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Vanadium | 20 | | 0.28 | 0.065 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Zinc | 72 | | 1.1 | 0.49 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Potassium | 1200 | | 28 | 9.8 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Sodium | 600 | | 55 | 8.2 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.010 | | 0.050 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:13 | 1 |
| Barium | 0.30 | J | 0.50 | 0.050 | mg/L | | 06/12/18 16:35 | 06/13/18 22:13 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 06/12/18 16:35 | 06/13/18 22:13 | 1 |
| Cadmium | 0.0035 | J | 0.0050 | 0.0020 | mg/L | | 06/12/18 16:35 | 06/13/18 22:13 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B05 (0-3)

Lab Sample ID: 500-146450-1

Date Collected: 06/05/18 07:40

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 84.6

Method: 6010B - Metals (ICP) - TCLP (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Calcium | 320 | | 5.0 | 0.50 | mg/L | | 06/12/18 16:35 | 06/13/18 22:13 | 1 |
| Chromium | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:13 | 1 |
| Cobalt | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:13 | 1 |
| Copper | 0.013 | J | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:13 | 1 |
| Iron | <0.20 | | 0.40 | 0.20 | mg/L | | 06/12/18 16:35 | 06/13/18 22:13 | 1 |
| Lead | 0.036 | | 0.0075 | 0.0075 | mg/L | | 06/12/18 16:35 | 06/13/18 22:13 | 1 |
| Magnesium | 97 | | 2.5 | 0.50 | mg/L | | 06/12/18 16:35 | 06/13/18 22:13 | 1 |
| Manganese | 0.74 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:13 | 1 |
| Nickel | 0.018 | J | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:13 | 1 |
| Potassium | 0.58 | J | 2.5 | 0.50 | mg/L | | 06/12/18 16:35 | 06/13/18 22:13 | 1 |
| Selenium | <0.020 | | 0.050 | 0.020 | mg/L | | 06/12/18 16:35 | 06/13/18 22:13 | 1 |
| Silver | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:13 | 1 |
| Vanadium | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:13 | 1 |
| Zinc | 0.15 | J | 0.50 | 0.020 | mg/L | | 06/12/18 16:35 | 06/13/18 22:13 | 1 |

Method: 6010B - SPLP Metals - SPLP East

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|-------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Lead | 0.33 | | 0.0075 | 0.0075 | mg/L | | 06/12/18 15:23 | 06/14/18 00:15 | 1 |
| Manganese | 0.64 | | 0.025 | 0.010 | mg/L | | 06/12/18 15:23 | 06/14/18 00:15 | 1 |

Method: 6020A - Metals (ICP/MS) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|---------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Antimony | <0.0060 | | 0.0060 | 0.0060 | mg/L | | 06/12/18 16:35 | 06/13/18 13:53 | 1 |
| Thallium | <0.0020 | | 0.0020 | 0.0020 | mg/L | | 06/12/18 16:35 | 06/13/18 13:53 | 1 |

Method: 7470A - TCLP Mercury - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|---------|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | 0.00020 | mg/L | | 06/12/18 14:05 | 06/14/18 07:28 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|--------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Mercury | 0.025 | B | 0.018 | 0.0059 | mg/Kg | ☼ | 06/08/18 16:15 | 06/12/18 17:01 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|------------|-----------|------|------|-------|---|----------------|----------------|---------|
| Cyanide, Total | <0.19 | | 0.54 | 0.19 | mg/Kg | ☼ | 06/15/18 18:05 | 06/16/18 14:01 | 1 |
| pH | 8.2 | | 0.20 | 0.20 | SU | | | 06/12/18 14:44 | 1 |

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B04 (0-3)

Lab Sample ID: 500-146450-2

Date Collected: 06/05/18 08:10

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 82.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|-----------|--------|---------|-------|---|----------------|----------------|---------|
| Acetone | 0.0087 | J | 0.016 | 0.0072 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Benzene | <0.00042 | | 0.0016 | 0.00042 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Bromodichloromethane | <0.00033 | | 0.0016 | 0.00033 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Bromoform | <0.00048 | | 0.0016 | 0.00048 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Bromomethane | <0.0016 | * | 0.0041 | 0.0016 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| 2-Butanone (MEK) | <0.0018 | | 0.0041 | 0.0018 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Carbon disulfide | <0.00086 | | 0.0041 | 0.00086 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Carbon tetrachloride | <0.00048 | | 0.0016 | 0.00048 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Chlorobenzene | <0.00061 | | 0.0016 | 0.00061 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Chloroethane | <0.0012 | * | 0.0041 | 0.0012 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Chloroform | <0.00057 | | 0.0016 | 0.00057 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Chloromethane | <0.0017 | | 0.0041 | 0.0017 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| cis-1,2-Dichloroethene | <0.00046 | | 0.0016 | 0.00046 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| cis-1,3-Dichloropropene | <0.00050 | | 0.0016 | 0.00050 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Dibromochloromethane | <0.00054 | | 0.0016 | 0.00054 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| 1,1-Dichloroethane | <0.00056 | | 0.0016 | 0.00056 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| 1,2-Dichloroethane | <0.0013 | | 0.0041 | 0.0013 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| 1,1-Dichloroethene | <0.00057 | | 0.0016 | 0.00057 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| 1,2-Dichloropropane | <0.00043 | | 0.0016 | 0.00043 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| 1,3-Dichloropropene, Total | <0.00058 | | 0.0016 | 0.00058 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Ethylbenzene | <0.00079 | | 0.0016 | 0.00079 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| 2-Hexanone | <0.0013 | | 0.0041 | 0.0013 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Methylene Chloride | <0.0016 | | 0.0041 | 0.0016 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| 4-Methyl-2-pentanone (MIBK) | <0.0012 | | 0.0041 | 0.0012 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Methyl tert-butyl ether | <0.00048 | | 0.0016 | 0.00048 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Styrene | <0.00050 | | 0.0016 | 0.00050 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| 1,1,2,2-Tetrachloroethane | <0.00053 | | 0.0016 | 0.00053 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Tetrachloroethene | <0.00056 | | 0.0016 | 0.00056 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Toluene | <0.00042 | | 0.0016 | 0.00042 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| trans-1,2-Dichloroethene | <0.00073 | | 0.0016 | 0.00073 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| trans-1,3-Dichloropropene | <0.00058 | | 0.0016 | 0.00058 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| 1,1,1-Trichloroethane | <0.00055 | | 0.0016 | 0.00055 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| 1,1,2-Trichloroethane | <0.00071 | | 0.0016 | 0.00071 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Trichloroethene | <0.00056 | | 0.0016 | 0.00056 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Vinyl acetate | <0.0014 | | 0.0041 | 0.0014 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Vinyl chloride | <0.00073 | | 0.0016 | 0.00073 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Xylenes, Total | <0.00053 | | 0.0033 | 0.00053 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 106 | | 75 - 131 | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Dibromofluoromethane | 106 | | 75 - 126 | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 114 | | 70 - 134 | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Toluene-d8 (Surr) | 110 | | 75 - 124 | 06/06/18 09:41 | 06/18/18 23:25 | 1 |

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------|---------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Acenaphthene | <0.0072 | | 0.040 | 0.0072 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Acenaphthylene | <0.0053 | | 0.040 | 0.0053 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Anthracene | <0.0067 | | 0.040 | 0.0067 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Benzo[a]anthracene | <0.0054 | | 0.040 | 0.0054 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B04 (0-3)

Lab Sample ID: 500-146450-2

Date Collected: 06/05/18 08:10

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 82.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Benzo[a]pyrene | <0.0077 | | 0.040 | 0.0077 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Benzo[b]fluoranthene | <0.0086 | | 0.040 | 0.0086 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Benzo[g,h,i]perylene | <0.013 | | 0.040 | 0.013 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Benzo[k]fluoranthene | <0.012 | | 0.040 | 0.012 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Bis(2-chloroethoxy)methane | <0.041 | | 0.20 | 0.041 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Bis(2-chloroethyl)ether | <0.060 | | 0.20 | 0.060 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Bis(2-ethylhexyl) phthalate | <0.073 | | 0.20 | 0.073 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 4-Bromophenyl phenyl ether | <0.053 | | 0.20 | 0.053 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Butyl benzyl phthalate | <0.076 | | 0.20 | 0.076 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Carbazole | <0.10 | | 0.20 | 0.10 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 4-Chloroaniline | <0.19 | | 0.81 | 0.19 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 4-Chloro-3-methylphenol | <0.14 | | 0.40 | 0.14 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 2-Chloronaphthalene | <0.044 | | 0.20 | 0.044 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 2-Chlorophenol | <0.068 | | 0.20 | 0.068 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 4-Chlorophenyl phenyl ether | <0.047 | | 0.20 | 0.047 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Chrysene | <0.011 | | 0.040 | 0.011 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Dibenz(a,h)anthracene | <0.0077 | | 0.040 | 0.0077 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Dibenzofuran | <0.047 | | 0.20 | 0.047 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 1,2-Dichlorobenzene | <0.048 | | 0.20 | 0.048 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 1,3-Dichlorobenzene | <0.045 | | 0.20 | 0.045 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 1,4-Dichlorobenzene | <0.051 | | 0.20 | 0.051 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 3,3'-Dichlorobenzidine | <0.056 * | | 0.20 | 0.056 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 2,4-Dichlorophenol | <0.095 | | 0.40 | 0.095 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Diethyl phthalate | <0.068 | | 0.20 | 0.068 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 2,4-Dimethylphenol | <0.15 | | 0.40 | 0.15 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Dimethyl phthalate | <0.052 | | 0.20 | 0.052 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Di-n-butyl phthalate | <0.061 | | 0.20 | 0.061 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 4,6-Dinitro-2-methylphenol | <0.32 | | 0.81 | 0.32 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 2,4-Dinitrophenol | <0.70 | | 0.81 | 0.70 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 2,4-Dinitrotoluene | <0.063 | | 0.20 | 0.063 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 2,6-Dinitrotoluene | <0.079 | | 0.20 | 0.079 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Di-n-octyl phthalate | <0.065 | | 0.20 | 0.065 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Fluoranthene | <0.0074 | | 0.040 | 0.0074 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Fluorene | <0.0056 | | 0.040 | 0.0056 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Hexachlorobenzene | <0.0093 | | 0.081 | 0.0093 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Hexachlorobutadiene | <0.063 | | 0.20 | 0.063 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Hexachlorocyclopentadiene | <0.23 | | 0.81 | 0.23 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Hexachloroethane | <0.061 | | 0.20 | 0.061 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Indeno[1,2,3-cd]pyrene | <0.010 | | 0.040 | 0.010 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Isophorone | <0.045 | | 0.20 | 0.045 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 2-Methylnaphthalene | <0.0073 | | 0.081 | 0.0073 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 2-Methylphenol | <0.064 | | 0.20 | 0.064 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 3 & 4 Methylphenol | <0.067 | | 0.20 | 0.067 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Naphthalene | <0.0061 | | 0.040 | 0.0061 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 2-Nitroaniline | <0.054 | | 0.20 | 0.054 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 3-Nitroaniline | <0.12 | | 0.40 | 0.12 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 4-Nitroaniline | <0.17 | | 0.40 | 0.17 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Nitrobenzene | <0.010 | | 0.040 | 0.010 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 2-Nitrophenol | <0.094 | | 0.40 | 0.094 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B04 (0-3)

Lab Sample ID: 500-146450-2

Date Collected: 06/05/18 08:10

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 82.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|---------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| 4-Nitrophenol | <0.38 | | 0.81 | 0.38 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| N-Nitrosodi-n-propylamine | <0.049 | | 0.081 | 0.049 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| N-Nitrosodiphenylamine | <0.047 | | 0.20 | 0.047 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 2,2'-oxybis[1-chloropropane] | <0.046 | | 0.20 | 0.046 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Pentachlorophenol | <0.64 | | 0.81 | 0.64 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Phenanthrene | <0.0056 | | 0.040 | 0.0056 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Phenol | <0.089 | | 0.20 | 0.089 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Pyrene | <0.0079 | | 0.040 | 0.0079 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 1,2,4-Trichlorobenzene | <0.043 | | 0.20 | 0.043 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 2,4,5-Trichlorophenol | <0.091 | | 0.40 | 0.091 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 2,4,6-Trichlorophenol | <0.14 | | 0.40 | 0.14 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl | 98 | | 44 - 121 | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 2-Fluorophenol | 123 | | 46 - 133 | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Nitrobenzene-d5 | 93 | | 41 - 120 | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Phenol-d5 | 112 | | 46 - 125 | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Terphenyl-d14 | 108 | | 35 - 160 | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 2,4,6-Tribromophenol | 78 | | 25 - 139 | 06/12/18 07:02 | 06/13/18 20:24 | 1 |

Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <0.23 | | 1.2 | 0.23 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Arsenic | 5.1 | | 0.58 | 0.20 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Barium | 70 | | 0.58 | 0.066 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Beryllium | 0.79 | | 0.23 | 0.054 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Cadmium | 0.21 | B | 0.12 | 0.021 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Chromium | 20 | | 0.58 | 0.29 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Cobalt | 12 | | 0.29 | 0.076 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Copper | 17 | | 0.58 | 0.16 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Iron | 20000 | B | 12 | 6.1 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Lead | 16 | | 0.29 | 0.13 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Magnesium | 4400 | B | 5.8 | 2.9 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Calcium | 2600 | B | 12 | 2.0 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Manganese | 410 | | 0.58 | 0.084 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Nickel | 27 | | 0.58 | 0.17 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Selenium | 1.1 | | 0.58 | 0.34 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Silver | 0.32 | | 0.29 | 0.075 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Thallium | <0.29 | | 0.58 | 0.29 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Vanadium | 31 | | 0.29 | 0.069 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Zinc | 60 | | 1.2 | 0.51 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Potassium | 2000 | | 29 | 10 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Sodium | 550 | | 58 | 8.6 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.010 | | 0.050 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:17 | 1 |
| Barium | 0.14 | J | 0.50 | 0.050 | mg/L | | 06/12/18 16:35 | 06/13/18 22:17 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 06/12/18 16:35 | 06/13/18 22:17 | 1 |
| Cadmium | 0.0020 | J | 0.0050 | 0.0020 | mg/L | | 06/12/18 16:35 | 06/13/18 22:17 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B04 (0-3)

Lab Sample ID: 500-146450-2

Date Collected: 06/05/18 08:10

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 82.1

Method: 6010B - Metals (ICP) - TCLP (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Calcium | 49 | | 5.0 | 0.50 | mg/L | | 06/12/18 16:35 | 06/13/18 22:17 | 1 |
| Chromium | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:17 | 1 |
| Cobalt | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:17 | 1 |
| Copper | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:17 | 1 |
| Iron | 0.59 | | 0.40 | 0.20 | mg/L | | 06/12/18 16:35 | 06/13/18 22:17 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 06/12/18 16:35 | 06/13/18 22:17 | 1 |
| Magnesium | 14 | | 2.5 | 0.50 | mg/L | | 06/12/18 16:35 | 06/13/18 22:17 | 1 |
| Manganese | 0.014 | J | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:17 | 1 |
| Nickel | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:17 | 1 |
| Potassium | 0.67 | J | 2.5 | 0.50 | mg/L | | 06/12/18 16:35 | 06/13/18 22:17 | 1 |
| Selenium | <0.020 | | 0.050 | 0.020 | mg/L | | 06/12/18 16:35 | 06/13/18 22:17 | 1 |
| Silver | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:17 | 1 |
| Vanadium | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:17 | 1 |
| Zinc | <0.020 | | 0.50 | 0.020 | mg/L | | 06/12/18 16:35 | 06/13/18 22:17 | 1 |

Method: 6020A - Metals (ICP/MS) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|---------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Antimony | <0.0060 | | 0.0060 | 0.0060 | mg/L | | 06/12/18 16:35 | 06/13/18 13:54 | 1 |
| Thallium | <0.0020 | | 0.0020 | 0.0020 | mg/L | | 06/12/18 16:35 | 06/13/18 13:54 | 1 |

Method: 7470A - TCLP Mercury - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|---------|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | 0.00020 | mg/L | | 06/12/18 14:05 | 06/14/18 07:29 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|--------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Mercury | 0.032 | B | 0.018 | 0.0060 | mg/Kg | ☼ | 06/08/18 16:15 | 06/12/18 17:03 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|------------|-----------|------|------|-------|---|----------------|----------------|---------|
| Cyanide, Total | <0.20 | | 0.58 | 0.20 | mg/Kg | ☼ | 06/15/18 18:05 | 06/16/18 14:01 | 1 |
| pH | 8.0 | | 0.20 | 0.20 | SU | | | 06/12/18 14:45 | 1 |

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B03 (0-3)

Lab Sample ID: 500-146450-3

Date Collected: 06/05/18 08:35

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 84.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------------|-----------|--------|---------|-------|---|----------------|----------------|---------|
| Acetone | 0.014 | J | 0.017 | 0.0072 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Benzene | <0.00042 | | 0.0017 | 0.00042 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Bromodichloromethane | <0.00034 | | 0.0017 | 0.00034 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Bromoform | <0.00049 | | 0.0017 | 0.00049 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Bromomethane | <0.0016 | * | 0.0042 | 0.0016 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| 2-Butanone (MEK) | <0.0018 | | 0.0042 | 0.0018 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Carbon disulfide | <0.00087 | | 0.0042 | 0.00087 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Carbon tetrachloride | <0.00048 | | 0.0017 | 0.00048 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Chlorobenzene | <0.00061 | | 0.0017 | 0.00061 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Chloroethane | <0.0012 | * | 0.0042 | 0.0012 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Chloroform | <0.00058 | | 0.0017 | 0.00058 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Chloromethane | <0.0017 | | 0.0042 | 0.0017 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| cis-1,2-Dichloroethene | <0.00047 | | 0.0017 | 0.00047 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| cis-1,3-Dichloropropene | <0.00050 | | 0.0017 | 0.00050 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Dibromochloromethane | <0.00054 | | 0.0017 | 0.00054 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| 1,1-Dichloroethane | <0.00057 | | 0.0017 | 0.00057 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| 1,2-Dichloroethane | <0.0013 | | 0.0042 | 0.0013 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| 1,1-Dichloroethene | <0.00057 | | 0.0017 | 0.00057 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| 1,2-Dichloropropane | <0.00043 | | 0.0017 | 0.00043 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| 1,3-Dichloropropane, Total | <0.00058 | | 0.0017 | 0.00058 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Ethylbenzene | <0.00080 | | 0.0017 | 0.00080 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| 2-Hexanone | <0.0013 | | 0.0042 | 0.0013 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Methylene Chloride | <0.0016 | | 0.0042 | 0.0016 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| 4-Methyl-2-pentanone (MIBK) | <0.0012 | | 0.0042 | 0.0012 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Methyl tert-butyl ether | <0.00049 | | 0.0017 | 0.00049 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Styrene | <0.00050 | | 0.0017 | 0.00050 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| 1,1,2,2-Tetrachloroethane | <0.00053 | | 0.0017 | 0.00053 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Tetrachloroethene | <0.00057 | | 0.0017 | 0.00057 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Toluene | <0.00042 | | 0.0017 | 0.00042 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| trans-1,2-Dichloroethene | <0.00074 | | 0.0017 | 0.00074 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| trans-1,3-Dichloropropene | <0.00058 | | 0.0017 | 0.00058 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| 1,1,1-Trichloroethane | <0.00056 | | 0.0017 | 0.00056 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| 1,1,2-Trichloroethane | <0.00071 | | 0.0017 | 0.00071 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Trichloroethene | <0.00056 | | 0.0017 | 0.00056 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Vinyl acetate | <0.0014 | | 0.0042 | 0.0014 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Vinyl chloride | <0.00074 | | 0.0017 | 0.00074 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Xylenes, Total | <0.00053 | | 0.0033 | 0.00053 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 109 | | 75 - 131 | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Dibromofluoromethane | 108 | | 75 - 126 | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 113 | | 70 - 134 | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Toluene-d8 (Surr) | 111 | | 75 - 124 | 06/06/18 09:41 | 06/18/18 23:53 | 1 |

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Acenaphthene | <0.0068 | | 0.037 | 0.0068 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Acenaphthylene | <0.0050 | | 0.037 | 0.0050 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Anthracene | 0.014 | J | 0.037 | 0.0063 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Benzo[a]anthracene | 0.098 | | 0.037 | 0.0051 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B03 (0-3)

Lab Sample ID: 500-146450-3

Date Collected: 06/05/18 08:35

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 84.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|---------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Benzo[a]pyrene | 0.12 | | 0.037 | 0.0073 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Benzo[b]fluoranthene | 0.19 | | 0.037 | 0.0081 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Benzo[g,h,i]perylene | 0.082 | | 0.037 | 0.012 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Benzo[k]fluoranthene | 0.052 | | 0.037 | 0.011 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Bis(2-chloroethoxy)methane | <0.038 | | 0.19 | 0.038 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Bis(2-chloroethyl)ether | <0.057 | | 0.19 | 0.057 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Bis(2-ethylhexyl) phthalate | <0.069 | | 0.19 | 0.069 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 4-Bromophenyl phenyl ether | <0.050 | | 0.19 | 0.050 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Butyl benzyl phthalate | <0.072 | | 0.19 | 0.072 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Carbazole | 0.12 | J | 0.19 | 0.094 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 4-Chloroaniline | <0.18 | | 0.76 | 0.18 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 4-Chloro-3-methylphenol | <0.13 | | 0.37 | 0.13 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 2-Chloronaphthalene | <0.042 | | 0.19 | 0.042 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 2-Chlorophenol | <0.064 | | 0.19 | 0.064 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 4-Chlorophenyl phenyl ether | <0.044 | | 0.19 | 0.044 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Chrysene | 0.13 | | 0.037 | 0.010 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Dibenz(a,h)anthracene | 0.021 | J | 0.037 | 0.0073 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Dibenzofuran | <0.044 | | 0.19 | 0.044 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 1,2-Dichlorobenzene | <0.045 | | 0.19 | 0.045 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 1,3-Dichlorobenzene | <0.042 | | 0.19 | 0.042 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 1,4-Dichlorobenzene | <0.048 | | 0.19 | 0.048 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 3,3'-Dichlorobenzidine | <0.053 | * | 0.19 | 0.053 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 2,4-Dichlorophenol | <0.090 | | 0.37 | 0.090 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Diethyl phthalate | <0.064 | | 0.19 | 0.064 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 2,4-Dimethylphenol | <0.14 | | 0.37 | 0.14 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Dimethyl phthalate | <0.049 | | 0.19 | 0.049 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Di-n-butyl phthalate | <0.057 | | 0.19 | 0.057 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 4,6-Dinitro-2-methylphenol | <0.30 | | 0.76 | 0.30 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 2,4-Dinitrophenol | <0.66 | | 0.76 | 0.66 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 2,4-Dinitrotoluene | <0.060 | | 0.19 | 0.060 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 2,6-Dinitrotoluene | <0.074 | | 0.19 | 0.074 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Di-n-octyl phthalate | <0.061 | | 0.19 | 0.061 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Fluoranthene | 0.21 | | 0.037 | 0.0070 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Fluorene | <0.0053 | | 0.037 | 0.0053 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Hexachlorobenzene | <0.0087 | | 0.076 | 0.0087 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Hexachlorobutadiene | <0.059 | | 0.19 | 0.059 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Hexachlorocyclopentadiene | <0.22 | | 0.76 | 0.22 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Hexachloroethane | <0.057 | | 0.19 | 0.057 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Indeno[1,2,3-cd]pyrene | 0.076 | | 0.037 | 0.0098 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Isophorone | <0.042 | | 0.19 | 0.042 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 2-Methylnaphthalene | 0.0082 | J | 0.076 | 0.0069 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 2-Methylphenol | <0.060 | | 0.19 | 0.060 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 3 & 4 Methylphenol | <0.063 | | 0.19 | 0.063 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Naphthalene | <0.0058 | | 0.037 | 0.0058 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 2-Nitroaniline | <0.051 | | 0.19 | 0.051 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 3-Nitroaniline | <0.12 | | 0.37 | 0.12 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 4-Nitroaniline | <0.16 | | 0.37 | 0.16 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Nitrobenzene | <0.0094 | | 0.037 | 0.0094 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 2-Nitrophenol | <0.089 | | 0.37 | 0.089 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B03 (0-3)

Lab Sample ID: 500-146450-3

Date Collected: 06/05/18 08:35

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 84.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| 4-Nitrophenol | <0.36 | | 0.76 | 0.36 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| N-Nitrosodi-n-propylamine | <0.046 | | 0.076 | 0.046 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| N-Nitrosodiphenylamine | <0.044 | | 0.19 | 0.044 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 2,2'-oxybis[1-chloropropane] | <0.044 | | 0.19 | 0.044 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Pentachlorophenol | <0.60 | | 0.76 | 0.60 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Phenanthrene | 0.071 | | 0.037 | 0.0053 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Phenol | <0.084 | | 0.19 | 0.084 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Pyrene | 0.18 | | 0.037 | 0.0075 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 1,2,4-Trichlorobenzene | <0.041 | | 0.19 | 0.041 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 2,4,5-Trichlorophenol | <0.086 | | 0.37 | 0.086 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 2,4,6-Trichlorophenol | <0.13 | | 0.37 | 0.13 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl | 98 | | 44 - 121 | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 2-Fluorophenol | 116 | | 46 - 133 | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Nitrobenzene-d5 | 92 | | 41 - 120 | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Phenol-d5 | 109 | | 46 - 125 | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Terphenyl-d14 | 104 | | 35 - 160 | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 2,4,6-Tribromophenol | 80 | | 25 - 139 | 06/12/18 07:02 | 06/13/18 20:51 | 1 |

Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | 0.31 | J | 1.1 | 0.22 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Arsenic | 6.7 | | 0.57 | 0.19 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Barium | 62 | | 0.57 | 0.065 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Beryllium | 0.61 | | 0.23 | 0.053 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Cadmium | 0.51 | B | 0.11 | 0.020 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Chromium | 19 | | 0.57 | 0.28 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Cobalt | 9.1 | | 0.28 | 0.075 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Copper | 31 | | 0.57 | 0.16 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Iron | 16000 | B | 11 | 5.9 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Lead | 200 | | 0.28 | 0.13 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Magnesium | 10000 | B | 5.7 | 2.8 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Calcium | 15000 | B | 11 | 1.9 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Manganese | 370 | | 0.57 | 0.083 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Nickel | 21 | | 0.57 | 0.17 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Selenium | 1.0 | | 0.57 | 0.33 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Silver | 0.28 | | 0.28 | 0.073 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Thallium | <0.28 | | 0.57 | 0.28 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Vanadium | 23 | | 0.28 | 0.067 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Zinc | 100 | | 1.1 | 0.50 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Potassium | 1600 | | 28 | 10 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Sodium | 460 | | 57 | 8.4 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.010 | | 0.050 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:22 | 1 |
| Barium | 0.28 | J | 0.50 | 0.050 | mg/L | | 06/12/18 16:35 | 06/13/18 22:22 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 06/12/18 16:35 | 06/13/18 22:22 | 1 |
| Cadmium | 0.0040 | J | 0.0050 | 0.0020 | mg/L | | 06/12/18 16:35 | 06/13/18 22:22 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B03 (0-3)

Lab Sample ID: 500-146450-3

Date Collected: 06/05/18 08:35

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 84.6

Method: 6010B - Metals (ICP) - TCLP (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Calcium | 200 | | 5.0 | 0.50 | mg/L | | 06/12/18 16:35 | 06/13/18 22:22 | 1 |
| Chromium | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:22 | 1 |
| Cobalt | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:22 | 1 |
| Copper | 0.012 | J | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:22 | 1 |
| Iron | <0.20 | | 0.40 | 0.20 | mg/L | | 06/12/18 16:35 | 06/13/18 22:22 | 1 |
| Lead | 0.034 | | 0.0075 | 0.0075 | mg/L | | 06/12/18 16:35 | 06/13/18 22:22 | 1 |
| Magnesium | 90 | | 2.5 | 0.50 | mg/L | | 06/12/18 16:35 | 06/13/18 22:22 | 1 |
| Manganese | 0.91 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:22 | 1 |
| Nickel | 0.016 | J | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:22 | 1 |
| Potassium | 1.0 | J | 2.5 | 0.50 | mg/L | | 06/12/18 16:35 | 06/13/18 22:22 | 1 |
| Selenium | <0.020 | | 0.050 | 0.020 | mg/L | | 06/12/18 16:35 | 06/13/18 22:22 | 1 |
| Silver | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:22 | 1 |
| Vanadium | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:22 | 1 |
| Zinc | 0.086 | J | 0.50 | 0.020 | mg/L | | 06/12/18 16:35 | 06/13/18 22:22 | 1 |

Method: 6010B - SPLP Metals - SPLP East

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|-------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Lead | 0.18 | | 0.0075 | 0.0075 | mg/L | | 06/12/18 15:23 | 06/14/18 00:23 | 1 |
| Manganese | 0.42 | | 0.025 | 0.010 | mg/L | | 06/12/18 15:23 | 06/14/18 00:23 | 1 |

Method: 6020A - Metals (ICP/MS) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|---------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Antimony | <0.0060 | | 0.0060 | 0.0060 | mg/L | | 06/12/18 16:35 | 06/13/18 13:55 | 1 |
| Thallium | <0.0020 | | 0.0020 | 0.0020 | mg/L | | 06/12/18 16:35 | 06/13/18 13:55 | 1 |

Method: 7470A - TCLP Mercury - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|---------|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | 0.00020 | mg/L | | 06/12/18 14:05 | 06/14/18 07:31 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|--------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Mercury | 0.086 | B | 0.018 | 0.0061 | mg/Kg | ☼ | 06/08/18 16:15 | 06/12/18 17:05 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|------------|-----------|------|------|-------|---|----------------|----------------|---------|
| Cyanide, Total | <0.20 | | 0.57 | 0.20 | mg/Kg | ☼ | 06/15/18 18:05 | 06/16/18 14:01 | 1 |
| pH | 8.4 | | 0.20 | 0.20 | SU | | | 06/12/18 14:45 | 1 |

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B02 (0-3)

Lab Sample ID: 500-146450-4

Date Collected: 06/05/18 08:55

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 80.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|---------------|-----------|--------|---------|-------|---|----------------|----------------|---------|
| Acetone | 0.0093 | J | 0.016 | 0.0071 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Benzene | <0.00042 | | 0.0016 | 0.00042 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Bromodichloromethane | <0.00033 | | 0.0016 | 0.00033 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Bromoform | <0.00048 | | 0.0016 | 0.00048 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Bromomethane | <0.0015 | * | 0.0041 | 0.0015 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| 2-Butanone (MEK) | <0.0018 | | 0.0041 | 0.0018 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Carbon disulfide | <0.00085 | | 0.0041 | 0.00085 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Carbon tetrachloride | <0.00047 | | 0.0016 | 0.00047 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Chlorobenzene | <0.00060 | | 0.0016 | 0.00060 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Chloroethane | <0.0012 | * | 0.0041 | 0.0012 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Chloroform | <0.00057 | | 0.0016 | 0.00057 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Chloromethane | <0.0016 | | 0.0041 | 0.0016 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| cis-1,2-Dichloroethene | <0.00046 | | 0.0016 | 0.00046 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| cis-1,3-Dichloropropene | <0.00049 | | 0.0016 | 0.00049 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Dibromochloromethane | <0.00053 | | 0.0016 | 0.00053 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| 1,1-Dichloroethane | <0.00056 | | 0.0016 | 0.00056 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| 1,2-Dichloroethane | <0.0013 | | 0.0041 | 0.0013 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| 1,1-Dichloroethene | <0.00056 | | 0.0016 | 0.00056 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| 1,2-Dichloropropane | <0.00042 | | 0.0016 | 0.00042 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| 1,3-Dichloropropane, Total | <0.00057 | | 0.0016 | 0.00057 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Ethylbenzene | <0.00078 | | 0.0016 | 0.00078 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| 2-Hexanone | <0.0013 | | 0.0041 | 0.0013 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Methylene Chloride | <0.0016 | | 0.0041 | 0.0016 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| 4-Methyl-2-pentanone (MIBK) | <0.0012 | | 0.0041 | 0.0012 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Methyl tert-butyl ether | <0.00048 | | 0.0016 | 0.00048 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Styrene | <0.00049 | | 0.0016 | 0.00049 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| 1,1,1,2-Tetrachloroethane | <0.00052 | | 0.0016 | 0.00052 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Tetrachloroethene | <0.00055 | | 0.0016 | 0.00055 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Toluene | <0.00041 | | 0.0016 | 0.00041 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| trans-1,2-Dichloroethene | <0.00072 | | 0.0016 | 0.00072 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| trans-1,3-Dichloropropene | <0.00057 | | 0.0016 | 0.00057 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| 1,1,1-Trichloroethane | <0.00055 | | 0.0016 | 0.00055 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| 1,1,2-Trichloroethane | <0.00070 | | 0.0016 | 0.00070 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Trichloroethene | <0.00055 | | 0.0016 | 0.00055 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Vinyl acetate | <0.0014 | | 0.0041 | 0.0014 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Vinyl chloride | <0.00072 | | 0.0016 | 0.00072 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Xylenes, Total | <0.00052 | | 0.0033 | 0.00052 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 108 | | 75 - 131 | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Dibromofluoromethane | 105 | | 75 - 126 | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 109 | | 70 - 134 | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Toluene-d8 (Surr) | 112 | | 75 - 124 | 06/06/18 09:41 | 06/19/18 00:21 | 1 |

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Acenaphthene | <0.0072 | | 0.040 | 0.0072 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Acenaphthylene | <0.0053 | | 0.040 | 0.0053 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Anthracene | <0.0067 | | 0.040 | 0.0067 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Benzo[a]anthracene | 0.013 | J | 0.040 | 0.0054 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B02 (0-3)

Lab Sample ID: 500-146450-4

Date Collected: 06/05/18 08:55

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 80.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|--------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Benzo[a]pyrene | 0.017 | J | 0.040 | 0.0078 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Benzo[b]fluoranthene | 0.021 | J | 0.040 | 0.0087 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Benzo[g,h,i]perylene | 0.013 | J | 0.040 | 0.013 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Benzo[k]fluoranthene | <0.012 | | 0.040 | 0.012 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Bis(2-chloroethoxy)methane | <0.041 | | 0.20 | 0.041 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Bis(2-chloroethyl)ether | <0.060 | | 0.20 | 0.060 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Bis(2-ethylhexyl) phthalate | <0.074 | | 0.20 | 0.074 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 4-Bromophenyl phenyl ether | <0.053 | | 0.20 | 0.053 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Butyl benzyl phthalate | <0.077 | | 0.20 | 0.077 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Carbazole | <0.10 | | 0.20 | 0.10 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 4-Chloroaniline | <0.19 | | 0.81 | 0.19 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 4-Chloro-3-methylphenol | <0.14 | | 0.40 | 0.14 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 2-Chloronaphthalene | <0.045 | | 0.20 | 0.045 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 2-Chlorophenol | <0.069 | | 0.20 | 0.069 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 4-Chlorophenyl phenyl ether | <0.047 | | 0.20 | 0.047 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Chrysene | 0.017 | J | 0.040 | 0.011 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Dibenz(a,h)anthracene | <0.0078 | | 0.040 | 0.0078 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Dibenzofuran | <0.047 | | 0.20 | 0.047 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 1,2-Dichlorobenzene | <0.048 | | 0.20 | 0.048 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 1,3-Dichlorobenzene | <0.045 | | 0.20 | 0.045 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 1,4-Dichlorobenzene | <0.052 | | 0.20 | 0.052 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 3,3'-Dichlorobenzidine | <0.056 | * | 0.20 | 0.056 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 2,4-Dichlorophenol | <0.096 | | 0.40 | 0.096 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Diethyl phthalate | <0.068 | | 0.20 | 0.068 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 2,4-Dimethylphenol | <0.15 | | 0.40 | 0.15 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Dimethyl phthalate | <0.053 | | 0.20 | 0.053 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Di-n-butyl phthalate | <0.061 | | 0.20 | 0.061 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 4,6-Dinitro-2-methylphenol | <0.32 | | 0.81 | 0.32 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 2,4-Dinitrophenol | <0.71 | | 0.81 | 0.71 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 2,4-Dinitrotoluene | <0.064 | | 0.20 | 0.064 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 2,6-Dinitrotoluene | <0.079 | | 0.20 | 0.079 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Di-n-octyl phthalate | <0.066 | | 0.20 | 0.066 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Fluoranthene | 0.021 | J | 0.040 | 0.0075 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Fluorene | <0.0057 | | 0.040 | 0.0057 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Hexachlorobenzene | <0.0093 | | 0.081 | 0.0093 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Hexachlorobutadiene | <0.063 | | 0.20 | 0.063 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Hexachlorocyclopentadiene | <0.23 | | 0.81 | 0.23 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Hexachloroethane | <0.061 | | 0.20 | 0.061 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Indeno[1,2,3-cd]pyrene | 0.010 | J | 0.040 | 0.010 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Isophorone | <0.045 | | 0.20 | 0.045 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 2-Methylnaphthalene | <0.0074 | | 0.081 | 0.0074 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 2-Methylphenol | <0.065 | | 0.20 | 0.065 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 3 & 4 Methylphenol | <0.067 | | 0.20 | 0.067 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Naphthalene | <0.0062 | | 0.040 | 0.0062 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 2-Nitroaniline | <0.054 | | 0.20 | 0.054 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 3-Nitroaniline | <0.12 | | 0.40 | 0.12 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 4-Nitroaniline | <0.17 | | 0.40 | 0.17 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Nitrobenzene | <0.010 | | 0.040 | 0.010 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 2-Nitrophenol | <0.095 | | 0.40 | 0.095 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B02 (0-3)

Lab Sample ID: 500-146450-4

Date Collected: 06/05/18 08:55

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 80.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|---------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| 4-Nitrophenol | <0.38 | | 0.81 | 0.38 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| N-Nitrosodi-n-propylamine | <0.049 | | 0.081 | 0.049 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| N-Nitrosodiphenylamine | <0.048 | | 0.20 | 0.048 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 2,2'-oxybis[1-chloropropane] | <0.047 | | 0.20 | 0.047 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Pentachlorophenol | <0.65 | | 0.81 | 0.65 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Phenanthrene | 0.0078 | J | 0.040 | 0.0056 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Phenol | <0.090 | | 0.20 | 0.090 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Pyrene | 0.019 | J | 0.040 | 0.0080 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 1,2,4-Trichlorobenzene | <0.043 | | 0.20 | 0.043 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 2,4,5-Trichlorophenol | <0.092 | | 0.40 | 0.092 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 2,4,6-Trichlorophenol | <0.14 | | 0.40 | 0.14 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl | 98 | | 44 - 121 | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 2-Fluorophenol | 120 | | 46 - 133 | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Nitrobenzene-d5 | 91 | | 41 - 120 | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Phenol-d5 | 109 | | 46 - 125 | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Terphenyl-d14 | 109 | | 35 - 160 | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 2,4,6-Tribromophenol | 81 | | 25 - 139 | 06/12/18 07:02 | 06/13/18 21:19 | 1 |

Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | 0.38 | J | 1.2 | 0.23 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Arsenic | 6.2 | | 0.60 | 0.21 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Barium | 81 | | 0.60 | 0.069 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Beryllium | 0.53 | | 0.24 | 0.056 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Cadmium | 0.36 | B | 0.12 | 0.022 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Chromium | 13 | | 0.60 | 0.30 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Cobalt | 16 | | 0.30 | 0.079 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Copper | 22 | | 0.60 | 0.17 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Iron | 18000 | B | 12 | 6.3 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Lead | 30 | | 0.30 | 0.14 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Magnesium | 19000 | B | 6.0 | 3.0 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Calcium | 30000 | B | 12 | 2.0 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Manganese | 870 | | 0.60 | 0.087 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Nickel | 30 | | 0.60 | 0.18 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Selenium | 0.79 | | 0.60 | 0.35 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Silver | 0.27 | J | 0.30 | 0.078 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Thallium | <0.30 | | 0.60 | 0.30 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Vanadium | 26 | | 0.30 | 0.071 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Zinc | 46 | | 1.2 | 0.53 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Potassium | 1500 | | 30 | 11 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Sodium | 250 | | 60 | 8.9 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.010 | | 0.050 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:26 | 1 |
| Barium | 0.28 | J | 0.50 | 0.050 | mg/L | | 06/12/18 16:35 | 06/13/18 22:26 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 06/12/18 16:35 | 06/13/18 22:26 | 1 |
| Cadmium | 0.0039 | J | 0.0050 | 0.0020 | mg/L | | 06/12/18 16:35 | 06/13/18 22:26 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B02 (0-3)

Lab Sample ID: 500-146450-4

Date Collected: 06/05/18 08:55

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 80.9

Method: 6010B - Metals (ICP) - TCLP (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Calcium | 270 | | 5.0 | 0.50 | mg/L | | 06/12/18 16:35 | 06/13/18 22:26 | 1 |
| Chromium | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:26 | 1 |
| Cobalt | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:26 | 1 |
| Copper | 0.012 | J | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:26 | 1 |
| Iron | <0.20 | | 0.40 | 0.20 | mg/L | | 06/12/18 16:35 | 06/13/18 22:26 | 1 |
| Lead | 0.015 | | 0.0075 | 0.0075 | mg/L | | 06/12/18 16:35 | 06/13/18 22:26 | 1 |
| Magnesium | 140 | | 2.5 | 0.50 | mg/L | | 06/12/18 16:35 | 06/13/18 22:26 | 1 |
| Manganese | 1.1 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:26 | 1 |
| Nickel | 0.016 | J | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:26 | 1 |
| Potassium | 1.0 | J | 2.5 | 0.50 | mg/L | | 06/12/18 16:35 | 06/13/18 22:26 | 1 |
| Selenium | <0.020 | | 0.050 | 0.020 | mg/L | | 06/12/18 16:35 | 06/13/18 22:26 | 1 |
| Silver | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:26 | 1 |
| Vanadium | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:26 | 1 |
| Zinc | <0.020 | | 0.50 | 0.020 | mg/L | | 06/12/18 16:35 | 06/13/18 22:26 | 1 |

Method: 6010B - SPLP Metals - SPLP East

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|-------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Lead | 0.17 | | 0.0075 | 0.0075 | mg/L | | 06/12/18 15:23 | 06/14/18 00:35 | 1 |
| Manganese | 0.36 | | 0.025 | 0.010 | mg/L | | 06/12/18 15:23 | 06/14/18 00:35 | 1 |

Method: 6020A - Metals (ICP/MS) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|---------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Antimony | <0.0060 | | 0.0060 | 0.0060 | mg/L | | 06/12/18 16:35 | 06/13/18 13:56 | 1 |
| Thallium | <0.0020 | | 0.0020 | 0.0020 | mg/L | | 06/12/18 16:35 | 06/13/18 13:56 | 1 |

Method: 7470A - TCLP Mercury - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|---------|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | 0.00020 | mg/L | | 06/12/18 14:05 | 06/14/18 07:33 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|--------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Mercury | 0.031 | B | 0.020 | 0.0066 | mg/Kg | ☼ | 06/08/18 16:15 | 06/12/18 17:07 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|------------|-----------|------|------|-------|---|----------------|----------------|---------|
| Cyanide, Total | <0.20 | | 0.59 | 0.20 | mg/Kg | ☼ | 06/15/18 18:05 | 06/16/18 14:01 | 1 |
| pH | 7.8 | | 0.20 | 0.20 | SU | | | 06/12/18 14:46 | 1 |

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B01 (0-3)

Lab Sample ID: 500-146450-5

Date Collected: 06/05/18 09:15

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 81.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|-----------|--------|---------|-------|---|----------------|----------------|---------|
| Acetone | <0.0073 | | 0.017 | 0.0073 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Benzene | <0.00043 | | 0.0017 | 0.00043 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Bromodichloromethane | <0.00034 | | 0.0017 | 0.00034 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Bromoform | <0.00049 | | 0.0017 | 0.00049 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Bromomethane | <0.0016 | * | 0.0042 | 0.0016 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| 2-Butanone (MEK) | <0.0019 | | 0.0042 | 0.0019 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Carbon disulfide | <0.00087 | | 0.0042 | 0.00087 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Carbon tetrachloride | <0.00048 | | 0.0017 | 0.00048 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Chlorobenzene | <0.00062 | | 0.0017 | 0.00062 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Chloroethane | <0.0012 | * | 0.0042 | 0.0012 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Chloroform | <0.00058 | | 0.0017 | 0.00058 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Chloromethane | <0.0017 | | 0.0042 | 0.0017 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| cis-1,2-Dichloroethene | <0.00047 | | 0.0017 | 0.00047 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| cis-1,3-Dichloropropene | <0.00050 | | 0.0017 | 0.00050 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Dibromochloromethane | <0.00055 | | 0.0017 | 0.00055 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| 1,1-Dichloroethane | <0.00057 | | 0.0017 | 0.00057 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| 1,2-Dichloroethane | <0.0013 | | 0.0042 | 0.0013 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| 1,1-Dichloroethene | <0.00057 | | 0.0017 | 0.00057 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| 1,2-Dichloropropane | <0.00043 | | 0.0017 | 0.00043 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| 1,3-Dichloropropane, Total | <0.00059 | | 0.0017 | 0.00059 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Ethylbenzene | <0.00080 | | 0.0017 | 0.00080 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| 2-Hexanone | <0.0013 | | 0.0042 | 0.0013 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Methylene Chloride | <0.0016 | | 0.0042 | 0.0016 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| 4-Methyl-2-pentanone (MIBK) | <0.0012 | | 0.0042 | 0.0012 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Methyl tert-butyl ether | <0.00049 | | 0.0017 | 0.00049 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Styrene | <0.00050 | | 0.0017 | 0.00050 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| 1,1,2,2-Tetrachloroethane | <0.00053 | | 0.0017 | 0.00053 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Tetrachloroethene | <0.00057 | | 0.0017 | 0.00057 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Toluene | <0.00042 | | 0.0017 | 0.00042 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| trans-1,2-Dichloroethene | <0.00074 | | 0.0017 | 0.00074 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| trans-1,3-Dichloropropene | <0.00059 | | 0.0017 | 0.00059 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| 1,1,1-Trichloroethane | <0.00056 | | 0.0017 | 0.00056 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| 1,1,2-Trichloroethane | <0.00072 | | 0.0017 | 0.00072 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Trichloroethene | <0.00056 | | 0.0017 | 0.00056 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Vinyl acetate | <0.0015 | | 0.0042 | 0.0015 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Vinyl chloride | <0.00074 | | 0.0017 | 0.00074 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Xylenes, Total | <0.00053 | | 0.0033 | 0.00053 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 110 | | 75 - 131 | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Dibromofluoromethane | 108 | | 75 - 126 | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 112 | | 70 - 134 | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Toluene-d8 (Surr) | 113 | | 75 - 124 | 06/06/18 09:41 | 06/19/18 00:48 | 1 |

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Acenaphthene | <0.0072 | | 0.040 | 0.0072 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Acenaphthylene | <0.0053 | | 0.040 | 0.0053 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Anthracene | <0.0067 | | 0.040 | 0.0067 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Benzo[a]anthracene | 0.036 | J | 0.040 | 0.0054 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B01 (0-3)

Lab Sample ID: 500-146450-5

Date Collected: 06/05/18 09:15

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 81.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|--------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Benzo[a]pyrene | 0.045 | | 0.040 | 0.0077 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Benzo[b]fluoranthene | 0.060 | | 0.040 | 0.0086 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Benzo[g,h,i]perylene | 0.025 | J | 0.040 | 0.013 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Benzo[k]fluoranthene | 0.018 | J | 0.040 | 0.012 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Bis(2-chloroethoxy)methane | <0.041 | | 0.20 | 0.041 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Bis(2-chloroethyl)ether | <0.060 | | 0.20 | 0.060 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Bis(2-ethylhexyl) phthalate | <0.073 | | 0.20 | 0.073 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 4-Bromophenyl phenyl ether | <0.053 | | 0.20 | 0.053 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Butyl benzyl phthalate | <0.076 | | 0.20 | 0.076 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Carbazole | 0.12 | J | 0.20 | 0.10 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 4-Chloroaniline | <0.19 | | 0.80 | 0.19 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 4-Chloro-3-methylphenol | <0.14 | | 0.40 | 0.14 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 2-Chloronaphthalene | <0.044 | | 0.20 | 0.044 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 2-Chlorophenol | <0.068 | | 0.20 | 0.068 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 4-Chlorophenyl phenyl ether | <0.047 | | 0.20 | 0.047 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Chrysene | 0.049 | | 0.040 | 0.011 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Dibenz(a,h)anthracene | <0.0077 | | 0.040 | 0.0077 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Dibenzofuran | <0.047 | | 0.20 | 0.047 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 1,2-Dichlorobenzene | <0.048 | | 0.20 | 0.048 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 1,3-Dichlorobenzene | <0.045 | | 0.20 | 0.045 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 1,4-Dichlorobenzene | <0.051 | | 0.20 | 0.051 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 3,3'-Dichlorobenzidine | <0.056 | * | 0.20 | 0.056 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 2,4-Dichlorophenol | <0.095 | | 0.40 | 0.095 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Diethyl phthalate | <0.068 | | 0.20 | 0.068 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 2,4-Dimethylphenol | <0.15 | | 0.40 | 0.15 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Dimethyl phthalate | <0.052 | | 0.20 | 0.052 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Di-n-butyl phthalate | <0.061 | | 0.20 | 0.061 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 4,6-Dinitro-2-methylphenol | <0.32 | | 0.80 | 0.32 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 2,4-Dinitrophenol | <0.70 | | 0.80 | 0.70 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 2,4-Dinitrotoluene | <0.063 | | 0.20 | 0.063 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 2,6-Dinitrotoluene | <0.078 | | 0.20 | 0.078 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Di-n-octyl phthalate | <0.065 | | 0.20 | 0.065 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Fluoranthene | 0.070 | | 0.040 | 0.0074 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Fluorene | <0.0056 | | 0.040 | 0.0056 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Hexachlorobenzene | <0.0093 | | 0.080 | 0.0093 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Hexachlorobutadiene | <0.063 | | 0.20 | 0.063 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Hexachlorocyclopentadiene | <0.23 | | 0.80 | 0.23 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Hexachloroethane | <0.061 | | 0.20 | 0.061 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Indeno[1,2,3-cd]pyrene | 0.022 | J | 0.040 | 0.010 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Isophorone | <0.045 | | 0.20 | 0.045 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 2-Methylnaphthalene | <0.0073 | | 0.080 | 0.0073 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 2-Methylphenol | <0.064 | | 0.20 | 0.064 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 3 & 4 Methylphenol | <0.067 | | 0.20 | 0.067 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Naphthalene | <0.0061 | | 0.040 | 0.0061 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 2-Nitroaniline | <0.054 | | 0.20 | 0.054 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 3-Nitroaniline | <0.12 | | 0.40 | 0.12 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 4-Nitroaniline | <0.17 | | 0.40 | 0.17 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Nitrobenzene | <0.010 | | 0.040 | 0.010 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 2-Nitrophenol | <0.094 | | 0.40 | 0.094 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B01 (0-3)

Lab Sample ID: 500-146450-5

Date Collected: 06/05/18 09:15

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 81.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| 4-Nitrophenol | <0.38 | | 0.80 | 0.38 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| N-Nitrosodi-n-propylamine | <0.049 | | 0.080 | 0.049 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| N-Nitrosodiphenylamine | <0.047 | | 0.20 | 0.047 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 2,2'-oxybis[1-chloropropane] | <0.046 | | 0.20 | 0.046 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Pentachlorophenol | <0.64 | | 0.80 | 0.64 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Phenanthrene | 0.030 | J | 0.040 | 0.0056 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Phenol | <0.089 | | 0.20 | 0.089 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Pyrene | 0.065 | | 0.040 | 0.0079 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 1,2,4-Trichlorobenzene | <0.043 | | 0.20 | 0.043 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 2,4,5-Trichlorophenol | <0.091 | | 0.40 | 0.091 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 2,4,6-Trichlorophenol | <0.14 | | 0.40 | 0.14 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl | 98 | | 44 - 121 | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 2-Fluorophenol | 120 | | 46 - 133 | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Nitrobenzene-d5 | 92 | | 41 - 120 | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Phenol-d5 | 104 | | 46 - 125 | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Terphenyl-d14 | 103 | | 35 - 160 | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 2,4,6-Tribromophenol | 81 | | 25 - 139 | 06/12/18 07:02 | 06/13/18 21:46 | 1 |

Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <0.22 | | 1.1 | 0.22 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Arsenic | 5.2 | | 0.56 | 0.19 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Barium | 56 | | 0.56 | 0.064 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Beryllium | 0.65 | | 0.23 | 0.053 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Cadmium | 0.36 | B | 0.11 | 0.020 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Chromium | 17 | | 0.56 | 0.28 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Cobalt | 9.0 | | 0.28 | 0.074 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Copper | 23 | | 0.56 | 0.16 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Iron | 16000 | B | 11 | 5.9 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Lead | 47 | | 0.28 | 0.13 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Magnesium | 4400 | B | 5.6 | 2.8 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Calcium | 3900 | B | 11 | 1.9 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Manganese | 300 | | 0.56 | 0.082 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Nickel | 25 | | 0.56 | 0.16 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Selenium | 0.68 | | 0.56 | 0.33 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Silver | 0.24 | J | 0.28 | 0.073 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Thallium | <0.28 | | 0.56 | 0.28 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Vanadium | 25 | | 0.28 | 0.066 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Zinc | 64 | | 1.1 | 0.49 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Potassium | 1700 | | 28 | 10 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Sodium | 390 | | 56 | 8.3 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.010 | | 0.050 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:30 | 1 |
| Barium | 0.27 | J | 0.50 | 0.050 | mg/L | | 06/12/18 16:35 | 06/13/18 22:30 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 06/12/18 16:35 | 06/13/18 22:30 | 1 |
| Cadmium | 0.0046 | J | 0.0050 | 0.0020 | mg/L | | 06/12/18 16:35 | 06/13/18 22:30 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B01 (0-3)

Lab Sample ID: 500-146450-5

Date Collected: 06/05/18 09:15

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 81.5

Method: 6010B - Metals (ICP) - TCLP (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Calcium | 110 | | 5.0 | 0.50 | mg/L | | 06/12/18 16:35 | 06/13/18 22:30 | 1 |
| Chromium | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:30 | 1 |
| Cobalt | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:30 | 1 |
| Copper | 0.014 | J | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:30 | 1 |
| Iron | 0.38 | J | 0.40 | 0.20 | mg/L | | 06/12/18 16:35 | 06/13/18 22:30 | 1 |
| Lead | 0.016 | | 0.0075 | 0.0075 | mg/L | | 06/12/18 16:35 | 06/13/18 22:30 | 1 |
| Magnesium | 46 | | 2.5 | 0.50 | mg/L | | 06/12/18 16:35 | 06/13/18 22:30 | 1 |
| Manganese | 0.30 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:30 | 1 |
| Nickel | 0.015 | J | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:30 | 1 |
| Potassium | 1.3 | J | 2.5 | 0.50 | mg/L | | 06/12/18 16:35 | 06/13/18 22:30 | 1 |
| Selenium | <0.020 | | 0.050 | 0.020 | mg/L | | 06/12/18 16:35 | 06/13/18 22:30 | 1 |
| Silver | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:30 | 1 |
| Vanadium | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:30 | 1 |
| Zinc | 0.073 | J | 0.50 | 0.020 | mg/L | | 06/12/18 16:35 | 06/13/18 22:30 | 1 |

Method: 6010B - SPLP Metals - SPLP East

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Lead | 0.32 | | 0.0075 | 0.0075 | mg/L | | 06/12/18 15:23 | 06/14/18 00:39 | 1 |
| Manganese | 0.78 | | 0.025 | 0.010 | mg/L | | 06/12/18 15:23 | 06/14/18 00:39 | 1 |

Method: 6020A - Metals (ICP/MS) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|---------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Antimony | <0.0060 | | 0.0060 | 0.0060 | mg/L | | 06/12/18 16:35 | 06/13/18 13:57 | 1 |
| Thallium | <0.0020 | | 0.0020 | 0.0020 | mg/L | | 06/12/18 16:35 | 06/13/18 13:57 | 1 |

Method: 7470A - TCLP Mercury - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|---------|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | 0.00020 | mg/L | | 06/12/18 14:05 | 06/14/18 07:34 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Mercury | 0.083 | B | 0.018 | 0.0060 | mg/Kg | ☼ | 06/08/18 16:15 | 06/12/18 17:12 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Cyanide, Total | <0.19 | | 0.55 | 0.19 | mg/Kg | ☼ | 06/15/18 18:05 | 06/16/18 14:02 | 1 |
| pH | 7.6 | | 0.20 | 0.20 | SU | | | 06/12/18 14:46 | 1 |

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Qualifiers

GC/MS VOA

| Qualifier | Qualifier Description |
|-----------|----------------------------------------------------------------------------------------------------------------|
| * | LCS or LCSD is outside acceptance limits. |
| * | RPD of the LCS and LCSD exceeds the control limits |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

GC/MS Semi VOA

| Qualifier | Qualifier Description |
|-----------|----------------------------------------------------------------------------------------------------------------|
| * | LCS or LCSD is outside acceptance limits. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

Metals

| Qualifier | Qualifier Description |
|-----------|----------------------------------------------------------------------------------------------------------------|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| B | Compound was found in the blank and sample. |

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 |
| CFL | Contains Free Liquid |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| 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) |

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

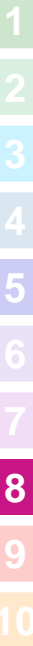
Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | EPA Region | Identification Number | Expiration Date |
|-----------|---------|------------|-----------------------|-----------------|
| Illinois | NELAP | 5 | 100201 | 04-30-19 |

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

| Analysis Method | Prep Method | Matrix | Analyte |
|-----------------|-------------|--------|----------------------------|
| 6020A | 3010A | Solid | Antimony |
| 6020A | 3010A | Solid | Thallium |
| 8260B | 5035 | Solid | 1,3-Dichloropropene, Total |
| Moisture | | Solid | Percent Moisture |
| Moisture | | Solid | Percent Solids |



THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 604
Phone: 708.534.5200 Fax: 708.534.



500-146450 COC

Report To (optional)
Contact: Matt Weiss
Company: Terracon
Address: 192 Exchange Blvd.
Address: Glenview Heights, IL
Phone: 630-445-0166
Fax:
E-Mail: Matt.Weiss@Terracon.com

Bill To (optional)
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-146450
Chain of Custody Number:
Page 1 of 1
Temperature °C of Cooler: 213, 52, 45, 6, 56

| Client | | Client Project # | | Preservative | | Parameter | | None | | None | | None | | None | | None | | None | | None | |
|-----------------|--------|--------------------------|----------------|---------------|-----------------|-----------------|----------|-------------|----------|-------------|----------|-------------|----------|-------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------|--|-------------|--|
| <u>IDOT</u> | | <u>111870075</u> | | <u>Other</u> | | <u>None</u> | | <u>None</u> | | <u>None</u> | | <u>None</u> | | <u>None</u> | | <u>None</u> | | <u>None</u> | | <u>None</u> | |
| Project Name | | Project Location/State | | Lab Project # | | Lab PM | | | | | | | | | | | | | | | |
| <u>FAU 1312</u> | | <u>Morton Grove, IL</u> | | | | <u>P. G. Ft</u> | | | | | | | | | | | | | | | |
| Lab ID | MS/MSD | Sample ID | Date | Time | # of Containers | Matrix | UVC | SWAC | Total 23 | Inorganics | TCLP 23 | Inorganics | SPLP 23 | Inorganics | PH | Preservative Key | | | | | |
| | | | | | | | | | | | | | | | | 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other | | | | | |
| | | | | | | | | | | | | | | | | Comments | | | | | |
| <u>1</u> | | <u>2409U-1-B05 (0-3)</u> | <u>6/05/18</u> | <u>0740</u> | <u>6</u> | <u>S</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | | | | | | |
| <u>2</u> | | <u>2409U-1-B04 (0-3)</u> | <u>6/05/18</u> | <u>0810</u> | <u>6</u> | <u>S</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | | | | | | |
| <u>3</u> | | <u>2409U-1-B03 (0-3)</u> | <u>6/05/18</u> | <u>0835</u> | <u>6</u> | <u>S</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | | | | | | |
| <u>4</u> | | <u>2409U-1-B02 (0-3)</u> | <u>6/05/18</u> | <u>0855</u> | <u>6</u> | <u>S</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | | | | | | |
| <u>5</u> | | <u>2409U-1-B01 (0-3)</u> | <u>6/05/18</u> | <u>0915</u> | <u>6</u> | <u>S</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | | | | | | |

Turnaround Time Required (Business Days)

1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other

Requested Due Date

Sample Disposal

Return to Client

Disposal by Lab

Archive for _____ Months

(A fee may be assessed if samples are retained longer than 1 month)

| | | | | | | | |
|-------------------------------------|--------------------------|----------------------|-------------------|---------------------------------|---------------------|---------------------|-------------------|
| Relinquished By: <u>[Signature]</u> | Company: <u>Terracon</u> | Date: <u>6/05/18</u> | Time: <u>1615</u> | Received By: <u>[Signature]</u> | Company: <u>TAL</u> | Date: <u>6-5-18</u> | Time: <u>1615</u> |
| Relinquished By: <u>[Signature]</u> | Company: <u>TAL</u> | Date: <u>6-5-18</u> | Time: <u>1830</u> | Received By: <u>[Signature]</u> | Company: <u>TAL</u> | Date: <u>6/6/18</u> | Time: <u>0805</u> |
| Relinquished By: | Company: | Date: | Time: | Received By: | Company: | Date: | Time: |

Lab Courier: [Signature]
Shipped:
Hand Delivered:

Matrix Key
 WW - Wastewater
 W - Water
 S - Soil
 SL - Sludge
 MS - Miscellaneous
 OL - Oil
 A - Air
 SE - Sediment
 SO - Soil
 L - Leachate
 WI - Wipe
 DW - Drinking Water
 O - Other

Client Comments:
NO Aluminum
SPLP AS directed by Terracon

Lab Comments:

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-146450-1

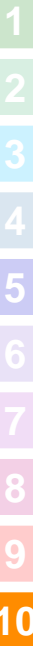
Login Number: 146450

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

| Question | Answer | Comment |
|-----------------------------------------------------------------------------------------------------|--------|-----------------|
| Radioactivity wasn't checked or is \leq 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 | 2.3,5.4,5.1,5.6 |
| 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. | False | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | 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 <math><6\text{mm}</math> (1/4"). | False | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |





Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAU 1312-Golf Road at Harms Road Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

Golf Road (Eastbound) IDOT STA 379+70 to 380+98.57 (ISGS Site 2409V-9)

City: Morton Grove State: IL Zip Code: 60077

County: Cook Township: Niles

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 42.05542 Longitude: -87.76638
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

- GPS Map Interpolation Photo Interpolation Survey Other

IEPA Site Number(s), if assigned: _____ BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Zip Code: 60196 Phone: 847-705-4122

Contact: Kristine Kutscher

Contact: Kristine Kutscher

Email, if available: kristine.kutscher@illinois.gov

Email, if available: kristine.kutscher@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAU 1312-Golf Road at Harms Road

Latitude: 42.05542 Longitude: -87.76638

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

Soil from boring B01 was sampled adjacent to ISGS Site No 2409V-9.
See Exhibits 3, 3A, and Table 6 of the Preliminary Site Investigation Report prepared by Terracon.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TestAmerica Lab Report No J146450-1.
Also see Preliminary Site Investigation Report prepared by Terracon. CCDD/USFO facility in MSA County.

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Matt Weiss (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Terracon Consultants, Inc

Street Address: 135 Ambassador Drive

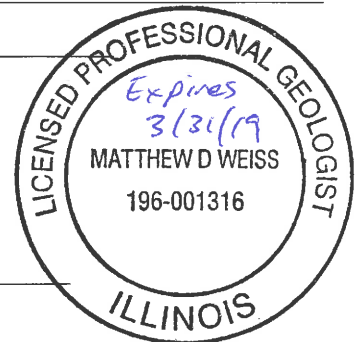
City: Naperville State: IL Zip Code: 60540

Phone: 630-717-4263

Matt Weiss
Printed Name:

[Signature]
Licensed Professional Engineer or
Licensed Professional Geologist Signature:

8/3/18
Date:



Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:049A
Preliminary Site Investigation
FAU 1312 -Golf Rd at Harms Rd (PESA #2409V-9)
Morton Grove, Cook County, IL
Terracon Project No. 11187007J
Page 1 of 2

| Analyte | Units | Background | | Maximum Allowed Concentration | Sample Identification | 2409V-9-B01 (0-2) |
|---------------------------------------------------|-------|------------|--------|-------------------------------|-----------------------|-------------------|
| | | | | CCDD | Sample Depth (feet) | (0-2) |
| | | Chicago | MSAs | mg/kg pH 6.25-9.0 | Date Collected | 06/05/2018 |
| Semivolatile Organic Analytical Parameters | | | | | | |
| Anthracene | mg/kg | 0.25 | 0.4 | 12000 | | 0.0074 |
| Benzo(a)anthracene | mg/kg | 1.1 | 1.8 | 0.9 | | 0.041 |
| Benzo(a)pyrene | mg/kg | 1.3 | 2.1 | 0.09 | | 0.041 |
| Benzo(b)fluoranthene | mg/kg | 1.5 | 2.1 | 0.9 | | 0.063 |
| Benzo(g,h,i)perylene | mg/kg | 0.68 | 1.7 | 2300 | | 0.027 |
| Benzo(k)fluoranthene | mg/kg | 0.99 | 1.7 | 9 | | 0.019 |
| Chrysene | mg/kg | 1.2 | 2.7 | 88 | | 0.053 |
| Fluoranthene | mg/kg | 2.7 | 4.1 | 3100 | | 0.08 |
| Indeno(1,2,3-c,d)pyrene | mg/kg | 0.86 | 1.6 | 0.9 | | 0.025 |
| Phenanthrene | mg/kg | 1.3 | 2.5 | 210 | | 0.039 |
| Pyrene | mg/kg | 1.9 | 3.0 | 2300 | | 0.076 |
| Inorganic Analytical Parameters | | | | | | |
| Arsenic | mg/kg | --- | 13 | 11.3 | | 5 |
| Barium | mg/kg | --- | 110 | 1500 | | 100 |
| Cadmium | mg/kg | --- | 0.6 | 5.2 | | 0.48 |
| Chromium, total | mg/kg | --- | 16.2 | 21 | | 24 |
| Lead | mg/kg | --- | 36 | 107 | | 65 |
| Mercury | mg/kg | --- | 0.06 | 0.89 | | 0.059 |
| Selenium | mg/kg | --- | 0.48 | 1.3 | | 1.4 |
| Silver | mg/kg | --- | 0.55 | 4.4 | | 0.31 |
| Antimony | mg/kg | --- | 4.0 | 5 | | <0.24 |
| Beryllium | mg/kg | --- | 0.59 | 22 | | 0.93 |
| Calcium | mg/kg | --- | 9,300 | --- | | 5200 |
| Cobalt | mg/kg | --- | 8.9 | 20 | | 12 |
| Copper | mg/kg | --- | 19.6 | 2900 | | 22 |
| Cyanide | mg/kg | --- | 0.51 | --- | | <0.21 |
| Iron | mg/kg | --- | 15,900 | 15000 | | 19000 |
| Magnesium | mg/kg | --- | 4,820 | 325000 | | 5400 |
| Manganese | mg/kg | --- | 636 | 630 | | 540 |
| Nickel | mg/kg | --- | 18 | 100 | | 31 |
| Potassium | mg/kg | --- | 1,268 | --- | | 1800 |
| Sodium | mg/kg | --- | 130 | --- | | 1300 |
| Thallium | mg/kg | --- | 0.32 | 2.6 | | <0.30 |
| Vanadium | mg/kg | --- | 25.2 | 550 | | 36 |
| Zinc | mg/kg | --- | 95 | 5100 | | 95 |
| pH | | | 6.25 | 9 | | 7.8 |

Comparison of Detected Constituents to MACs-PTB 174-009;Work Order:049A

Preliminary Site Investigation

FAU 1312 -Golf Rd at Harms Rd (PESA #2409V-9)

Morton Grove, Cook County, IL

Terracon Project No. 11187007J

Page 2 of 2

| Analyte | Units | Background | | Maximum Allowed Concentration | Sample Identification | 2409V-9-B01 (0-2) |
|-----------------------------------------------|-------|------------|------|-------------------------------|-----------------------|-------------------|
| | | | | CCDD | Sample Depth (feet) | (0-2) |
| | | Chicago | MSAs | mg/kg pH 6.25-9.0 | Date Collected | 06/05/2018 |
| Inorganic Analytical Parameters (SPLP) | | | | | | |
| Antimony,SPLP | mg/L | --- | --- | --- | | -- |
| Arsenic,SPLP | mg/L | --- | --- | --- | | -- |
| Barium,SPLP | mg/L | --- | --- | --- | | -- |
| Beryllium,SPLP | mg/L | --- | --- | --- | | -- |
| Cadmium,SPLP | mg/L | --- | --- | --- | | -- |
| Calcium,SPLP | mg/L | --- | --- | --- | | -- |
| Chromium,SPLP | mg/L | --- | --- | --- | | -- |
| Cobalt,SPLP | mg/L | --- | --- | --- | | -- |
| Copper,SPLP | mg/L | --- | --- | --- | | -- |
| Iron,SPLP | mg/L | --- | --- | --- | | -- |
| Lead,SPLP | mg/L | --- | --- | --- | | -- |
| Magnesium,SPLP | mg/L | --- | --- | --- | | -- |
| Manganese,SPLP | mg/L | --- | --- | --- | | -- |
| Mercury,SPLP | mg/L | --- | --- | --- | | -- |
| Nickel,SPLP | mg/L | --- | --- | --- | | -- |
| Potassium,SPLP | mg/L | --- | --- | --- | | -- |
| Selenium,SPLP | mg/L | --- | --- | --- | | -- |
| Silver,SPLP | mg/L | --- | --- | --- | | -- |
| Sodium,SPLP | mg/L | --- | --- | --- | | -- |
| Thallium,SPLP | mg/L | --- | --- | --- | | -- |
| Vanadium,SPLP | mg/L | --- | --- | --- | | -- |
| Zinc,SPLP | mg/L | --- | --- | --- | | -- |
| Cyanide,SPLP | mg/L | --- | --- | --- | | -- |
| Inorganic Analytical Parameters (TCLP) | | | | | | |
| Arsenic,TCLP | mg/L | --- | --- | --- | | <0.010 |
| Barium,TCLP | mg/L | --- | --- | --- | | 0.19 |
| Cadmium,TCLP | mg/L | --- | --- | --- | | 0.0024 |
| Chromium,TCLP | mg/L | --- | --- | --- | | <0.010 |
| Lead,TCLP | mg/L | --- | --- | --- | | <0.0075 |
| Mercury,TCLP | mg/L | --- | --- | --- | | <0.00020 |
| Selenium,TCLP | mg/L | --- | --- | --- | | <0.020 |
| Silver,TCLP | mg/L | --- | --- | --- | | <0.010 |
| Antimony,TCLP | mg/L | --- | --- | --- | | <0.0060 |
| Beryllium,TCLP | mg/L | --- | --- | --- | | <0.0040 |
| Calcium,TCLP | mg/L | --- | --- | --- | | 84 |
| Cobalt,TCLP | mg/L | --- | --- | --- | | <0.010 |
| Copper,TCLP | mg/L | --- | --- | --- | | <0.010 |
| Cyanide,TCLP | mg/L | --- | --- | --- | | -- |
| Iron,TCLP | mg/L | --- | --- | --- | | <0.20 |
| Magnesium,TCLP | mg/L | --- | --- | --- | | 26 |
| Manganese,TCLP | mg/L | --- | --- | --- | | 0.14 |
| Nickel,TCLP | mg/L | --- | --- | --- | | <0.010 |
| Potassium,TCLP | mg/L | --- | --- | --- | | 0.55 |
| Sodium,TCLP | mg/L | --- | --- | --- | | -- |
| Thallium,TCLP | mg/L | --- | --- | --- | | <0.0020 |
| Vanadium,TCLP | mg/L | --- | --- | --- | | <0.010 |
| Zinc,TCLP | mg/L | --- | --- | --- | | 0.091 |

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: 500-146450-1

Client Project/Site: IDOT - Morton Grove - WO 049

For:

Terracon Consulting Eng & Scientists

192 Exchange Blvd

Glendale Heights, Illinois 60139

Attn: Mr. Matthew Weiss

Jodie Bracken

Authorized for release by:

6/21/2018 5:21:01 PM

Jodie Bracken, Project Management Assistant II

jodie.bracken@testamericainc.com

Designee for

Richard Wright, Senior Project Manager

(708)534-5200

richard.wright@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

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: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Job ID: 500-146450-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-146450-1

Receipt

The samples were received on 6/5/2018 6:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 2.3° C, 5.1° C, 5.4° C and 5.6° C.

GC/MS VOA

Method(s) 8260B: The following analyte recovered outside control limits for the LCS/LCSD associated with 437354: Bromomethane. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method(s) 8260B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch 437354 recovered outside control limits for the following analytes: Chloroethane.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270D: The laboratory control sample (LCS) for preparation batch 500-436422 and analytical batch 500-436747 recovered outside control limits for 3,3'-Dichlorobenzidine. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data has been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B05 (0-3)

Lab Sample ID: 500-146450-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil | Fac | D | Method | Prep Type |
|----------------------|--------|-----------|--------|--------|-------|-----|-----|-------|-----------|-----------|
| Benzo[a]anthracene | 0.016 | J | 0.039 | 0.0053 | mg/Kg | 1 | ☼ | 8270D | Total/NA | |
| Benzo[a]pyrene | 0.018 | J | 0.039 | 0.0076 | mg/Kg | 1 | ☼ | 8270D | Total/NA | |
| Benzo[b]fluoranthene | 0.020 | J | 0.039 | 0.0084 | mg/Kg | 1 | ☼ | 8270D | Total/NA | |
| Benzo[g,h,i]perylene | 0.014 | J | 0.039 | 0.013 | mg/Kg | 1 | ☼ | 8270D | Total/NA | |
| Carbazole | 0.12 | J | 0.20 | 0.098 | mg/Kg | 1 | ☼ | 8270D | Total/NA | |
| Chrysene | 0.016 | J | 0.039 | 0.011 | mg/Kg | 1 | ☼ | 8270D | Total/NA | |
| Fluoranthene | 0.024 | J | 0.039 | 0.0073 | mg/Kg | 1 | ☼ | 8270D | Total/NA | |
| Phenanthrene | 0.0096 | J | 0.039 | 0.0055 | mg/Kg | 1 | ☼ | 8270D | Total/NA | |
| Pyrene | 0.023 | J | 0.039 | 0.0078 | mg/Kg | 1 | ☼ | 8270D | Total/NA | |
| Antimony | 0.27 | J | 1.1 | 0.21 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Arsenic | 4.6 | | 0.55 | 0.19 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Barium | 49 | | 0.55 | 0.063 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Beryllium | 0.48 | | 0.22 | 0.052 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Cadmium | 0.37 | B | 0.11 | 0.020 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Chromium | 14 | | 0.55 | 0.27 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Cobalt | 6.3 | | 0.28 | 0.072 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Copper | 44 | | 0.55 | 0.15 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Iron | 12000 | B | 11 | 5.7 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Lead | 230 | | 0.28 | 0.13 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Magnesium | 21000 | B | 5.5 | 2.7 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Calcium | 50000 | B | 110 | 19 | mg/Kg | 10 | ☼ | 6010B | Total/NA | |
| Manganese | 340 | | 0.55 | 0.080 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Nickel | 17 | | 0.55 | 0.16 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Selenium | 0.73 | | 0.55 | 0.32 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Silver | 0.18 | J | 0.28 | 0.071 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Vanadium | 20 | | 0.28 | 0.065 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Zinc | 72 | | 1.1 | 0.49 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Potassium | 1200 | | 28 | 9.8 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Sodium | 600 | | 55 | 8.2 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Barium | 0.30 | J | 0.50 | 0.050 | mg/L | 1 | | 6010B | TCLP | |
| Cadmium | 0.0035 | J | 0.0050 | 0.0020 | mg/L | 1 | | 6010B | TCLP | |
| Calcium | 320 | | 5.0 | 0.50 | mg/L | 1 | | 6010B | TCLP | |
| Copper | 0.013 | J | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP | |
| Lead | 0.036 | | 0.0075 | 0.0075 | mg/L | 1 | | 6010B | TCLP | |
| Magnesium | 97 | | 2.5 | 0.50 | mg/L | 1 | | 6010B | TCLP | |
| Manganese | 0.74 | | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP | |
| Nickel | 0.018 | J | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP | |
| Potassium | 0.58 | J | 2.5 | 0.50 | mg/L | 1 | | 6010B | TCLP | |
| Zinc | 0.15 | J | 0.50 | 0.020 | mg/L | 1 | | 6010B | TCLP | |
| Lead | 0.33 | | 0.0075 | 0.0075 | mg/L | 1 | | 6010B | SPLP East | |
| Manganese | 0.64 | | 0.025 | 0.010 | mg/L | 1 | | 6010B | SPLP East | |
| Mercury | 0.025 | B | 0.018 | 0.0059 | mg/Kg | 1 | ☼ | 7471B | Total/NA | |
| pH | 8.2 | | 0.20 | 0.20 | SU | 1 | | 9045D | Total/NA | |

Client Sample ID: 2409V-1-B04 (0-3)

Lab Sample ID: 500-146450-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil | Fac | D | Method | Prep Type |
|---------|--------|-----------|-------|--------|-------|-----|-----|-------|----------|-----------|
| Acetone | 0.0087 | J | 0.016 | 0.0072 | mg/Kg | 1 | ☼ | 8260B | Total/NA | |
| Arsenic | 5.1 | | 0.58 | 0.20 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |
| Barium | 70 | | 0.58 | 0.066 | mg/Kg | 1 | ☼ | 6010B | Total/NA | |

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B04 (0-3) (Continued)

Lab Sample ID: 500-146450-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------|--------|-----------|--------|--------|-------|---------|---|--------|-----------|
| Beryllium | 0.79 | | 0.23 | 0.054 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Cadmium | 0.21 | B | 0.12 | 0.021 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Chromium | 20 | | 0.58 | 0.29 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Cobalt | 12 | | 0.29 | 0.076 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Copper | 17 | | 0.58 | 0.16 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Iron | 20000 | B | 12 | 6.1 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Lead | 16 | | 0.29 | 0.13 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Magnesium | 4400 | B | 5.8 | 2.9 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Calcium | 2600 | B | 12 | 2.0 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Manganese | 410 | | 0.58 | 0.084 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Nickel | 27 | | 0.58 | 0.17 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Selenium | 1.1 | | 0.58 | 0.34 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Silver | 0.32 | | 0.29 | 0.075 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Vanadium | 31 | | 0.29 | 0.069 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Zinc | 60 | | 1.2 | 0.51 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Potassium | 2000 | | 29 | 10 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Sodium | 550 | | 58 | 8.6 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Barium | 0.14 | J | 0.50 | 0.050 | mg/L | 1 | | 6010B | TCLP |
| Cadmium | 0.0020 | J | 0.0050 | 0.0020 | mg/L | 1 | | 6010B | TCLP |
| Calcium | 49 | | 5.0 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Iron | 0.59 | | 0.40 | 0.20 | mg/L | 1 | | 6010B | TCLP |
| Magnesium | 14 | | 2.5 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Manganese | 0.014 | J | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP |
| Potassium | 0.67 | J | 2.5 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Mercury | 0.032 | B | 0.018 | 0.0060 | mg/Kg | 1 | ☼ | 7471B | Total/NA |
| pH | 8.0 | | 0.20 | 0.20 | SU | 1 | | 9045D | Total/NA |

Client Sample ID: 2409V-1-B03 (0-3)

Lab Sample ID: 500-146450-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-------|--------|-------|---------|---|--------|-----------|
| Acetone | 0.014 | J | 0.017 | 0.0072 | mg/Kg | 1 | ☼ | 8260B | Total/NA |
| Anthracene | 0.014 | J | 0.037 | 0.0063 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[a]anthracene | 0.098 | | 0.037 | 0.0051 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[a]pyrene | 0.12 | | 0.037 | 0.0073 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[b]fluoranthene | 0.19 | | 0.037 | 0.0081 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[g,h,i]perylene | 0.082 | | 0.037 | 0.012 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[k]fluoranthene | 0.052 | | 0.037 | 0.011 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Carbazole | 0.12 | J | 0.19 | 0.094 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Chrysene | 0.13 | | 0.037 | 0.010 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Dibenz(a,h)anthracene | 0.021 | J | 0.037 | 0.0073 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Fluoranthene | 0.21 | | 0.037 | 0.0070 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Indeno[1,2,3-cd]pyrene | 0.076 | | 0.037 | 0.0098 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| 2-Methylnaphthalene | 0.0082 | J | 0.076 | 0.0069 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Phenanthrene | 0.071 | | 0.037 | 0.0053 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Pyrene | 0.18 | | 0.037 | 0.0075 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Antimony | 0.31 | J | 1.1 | 0.22 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Arsenic | 6.7 | | 0.57 | 0.19 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Barium | 62 | | 0.57 | 0.065 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Beryllium | 0.61 | | 0.23 | 0.053 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Cadmium | 0.51 | B | 0.11 | 0.020 | mg/Kg | 1 | ☼ | 6010B | Total/NA |

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B03 (0-3) (Continued)

Lab Sample ID: 500-146450-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------|--------|-----------|--------|--------|-------|---------|---|--------|-----------|
| Chromium | 19 | | 0.57 | 0.28 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Cobalt | 9.1 | | 0.28 | 0.075 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Copper | 31 | | 0.57 | 0.16 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Iron | 16000 | B | 11 | 5.9 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Lead | 200 | | 0.28 | 0.13 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Magnesium | 10000 | B | 5.7 | 2.8 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Calcium | 15000 | B | 11 | 1.9 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Manganese | 370 | | 0.57 | 0.083 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Nickel | 21 | | 0.57 | 0.17 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Selenium | 1.0 | | 0.57 | 0.33 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Silver | 0.28 | | 0.28 | 0.073 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Vanadium | 23 | | 0.28 | 0.067 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Zinc | 100 | | 1.1 | 0.50 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Potassium | 1600 | | 28 | 10 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Sodium | 460 | | 57 | 8.4 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Barium | 0.28 | J | 0.50 | 0.050 | mg/L | 1 | | 6010B | TCLP |
| Cadmium | 0.0040 | J | 0.0050 | 0.0020 | mg/L | 1 | | 6010B | TCLP |
| Calcium | 200 | | 5.0 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Copper | 0.012 | J | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP |
| Lead | 0.034 | | 0.0075 | 0.0075 | mg/L | 1 | | 6010B | TCLP |
| Magnesium | 90 | | 2.5 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Manganese | 0.91 | | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP |
| Nickel | 0.016 | J | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP |
| Potassium | 1.0 | J | 2.5 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Zinc | 0.086 | J | 0.50 | 0.020 | mg/L | 1 | | 6010B | TCLP |
| Lead | 0.18 | | 0.0075 | 0.0075 | mg/L | 1 | | 6010B | SPLP East |
| Manganese | 0.42 | | 0.025 | 0.010 | mg/L | 1 | | 6010B | SPLP East |
| Mercury | 0.086 | B | 0.018 | 0.0061 | mg/Kg | 1 | ☼ | 7471B | Total/NA |
| pH | 8.4 | | 0.20 | 0.20 | SU | 1 | | 9045D | Total/NA |

Client Sample ID: 2409V-1-B02 (0-3)

Lab Sample ID: 500-146450-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-------|--------|-------|---------|---|--------|-----------|
| Acetone | 0.0093 | J | 0.016 | 0.0071 | mg/Kg | 1 | ☼ | 8260B | Total/NA |
| Benzo[a]anthracene | 0.013 | J | 0.040 | 0.0054 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[a]pyrene | 0.017 | J | 0.040 | 0.0078 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[b]fluoranthene | 0.021 | J | 0.040 | 0.0087 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[g,h,i]perylene | 0.013 | J | 0.040 | 0.013 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Chrysene | 0.017 | J | 0.040 | 0.011 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Fluoranthene | 0.021 | J | 0.040 | 0.0075 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Indeno[1,2,3-cd]pyrene | 0.010 | J | 0.040 | 0.010 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Phenanthrene | 0.0078 | J | 0.040 | 0.0056 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Pyrene | 0.019 | J | 0.040 | 0.0080 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Antimony | 0.38 | J | 1.2 | 0.23 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Arsenic | 6.2 | | 0.60 | 0.21 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Barium | 81 | | 0.60 | 0.069 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Beryllium | 0.53 | | 0.24 | 0.056 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Cadmium | 0.36 | B | 0.12 | 0.022 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Chromium | 13 | | 0.60 | 0.30 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Cobalt | 16 | | 0.30 | 0.079 | mg/Kg | 1 | ☼ | 6010B | Total/NA |

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B02 (0-3) (Continued)

Lab Sample ID: 500-146450-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------|--------|-----------|--------|--------|-------|---------|---|--------|-----------|
| Copper | 22 | | 0.60 | 0.17 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Iron | 18000 | B | 12 | 6.3 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Lead | 30 | | 0.30 | 0.14 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Magnesium | 19000 | B | 6.0 | 3.0 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Calcium | 30000 | B | 12 | 2.0 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Manganese | 870 | | 0.60 | 0.087 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Nickel | 30 | | 0.60 | 0.18 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Selenium | 0.79 | | 0.60 | 0.35 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Silver | 0.27 | J | 0.30 | 0.078 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Vanadium | 26 | | 0.30 | 0.071 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Zinc | 46 | | 1.2 | 0.53 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Potassium | 1500 | | 30 | 11 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Sodium | 250 | | 60 | 8.9 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Barium | 0.28 | J | 0.50 | 0.050 | mg/L | 1 | | 6010B | TCLP |
| Cadmium | 0.0039 | J | 0.0050 | 0.0020 | mg/L | 1 | | 6010B | TCLP |
| Calcium | 270 | | 5.0 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Copper | 0.012 | J | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP |
| Lead | 0.015 | | 0.0075 | 0.0075 | mg/L | 1 | | 6010B | TCLP |
| Magnesium | 140 | | 2.5 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Manganese | 1.1 | | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP |
| Nickel | 0.016 | J | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP |
| Potassium | 1.0 | J | 2.5 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Lead | 0.17 | | 0.0075 | 0.0075 | mg/L | 1 | | 6010B | SPLP East |
| Manganese | 0.36 | | 0.025 | 0.010 | mg/L | 1 | | 6010B | SPLP East |
| Mercury | 0.031 | B | 0.020 | 0.0066 | mg/Kg | 1 | ☼ | 7471B | Total/NA |
| pH | 7.8 | | 0.20 | 0.20 | SU | 1 | | 9045D | Total/NA |

Client Sample ID: 2409V-1-B01 (0-3)

Lab Sample ID: 500-146450-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-------|--------|-------|---------|---|--------|-----------|
| Benzo[a]anthracene | 0.036 | J | 0.040 | 0.0054 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[a]pyrene | 0.045 | | 0.040 | 0.0077 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[b]fluoranthene | 0.060 | | 0.040 | 0.0086 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[g,h,i]perylene | 0.025 | J | 0.040 | 0.013 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[k]fluoranthene | 0.018 | J | 0.040 | 0.012 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Carbazole | 0.12 | J | 0.20 | 0.10 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Chrysene | 0.049 | | 0.040 | 0.011 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Fluoranthene | 0.070 | | 0.040 | 0.0074 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Indeno[1,2,3-cd]pyrene | 0.022 | J | 0.040 | 0.010 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Phenanthrene | 0.030 | J | 0.040 | 0.0056 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Pyrene | 0.065 | | 0.040 | 0.0079 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Arsenic | 5.2 | | 0.56 | 0.19 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Barium | 56 | | 0.56 | 0.064 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Beryllium | 0.65 | | 0.23 | 0.053 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Cadmium | 0.36 | B | 0.11 | 0.020 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Chromium | 17 | | 0.56 | 0.28 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Cobalt | 9.0 | | 0.28 | 0.074 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Copper | 23 | | 0.56 | 0.16 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Iron | 16000 | B | 11 | 5.9 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Lead | 47 | | 0.28 | 0.13 | mg/Kg | 1 | ☼ | 6010B | Total/NA |

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B01 (0-3) (Continued)

Lab Sample ID: 500-146450-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------|--------|-----------|--------|--------|-------|---------|---|--------|-----------|
| Magnesium | 4400 | B | 5.6 | 2.8 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Calcium | 3900 | B | 11 | 1.9 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Manganese | 300 | | 0.56 | 0.082 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Nickel | 25 | | 0.56 | 0.16 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Selenium | 0.68 | | 0.56 | 0.33 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Silver | 0.24 | J | 0.28 | 0.073 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Vanadium | 25 | | 0.28 | 0.066 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Zinc | 64 | | 1.1 | 0.49 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Potassium | 1700 | | 28 | 10 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Sodium | 390 | | 56 | 8.3 | mg/Kg | 1 | ☼ | 6010B | Total/NA |
| Barium | 0.27 | J | 0.50 | 0.050 | mg/L | 1 | | 6010B | TCLP |
| Cadmium | 0.0046 | J | 0.0050 | 0.0020 | mg/L | 1 | | 6010B | TCLP |
| Calcium | 110 | | 5.0 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Copper | 0.014 | J | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP |
| Iron | 0.38 | J | 0.40 | 0.20 | mg/L | 1 | | 6010B | TCLP |
| Lead | 0.016 | | 0.0075 | 0.0075 | mg/L | 1 | | 6010B | TCLP |
| Magnesium | 46 | | 2.5 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Manganese | 0.30 | | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP |
| Nickel | 0.015 | J | 0.025 | 0.010 | mg/L | 1 | | 6010B | TCLP |
| Potassium | 1.3 | J | 2.5 | 0.50 | mg/L | 1 | | 6010B | TCLP |
| Zinc | 0.073 | J | 0.50 | 0.020 | mg/L | 1 | | 6010B | TCLP |
| Lead | 0.32 | | 0.0075 | 0.0075 | mg/L | 1 | | 6010B | SPLP East |
| Manganese | 0.78 | | 0.025 | 0.010 | mg/L | 1 | | 6010B | SPLP East |
| Mercury | 0.083 | B | 0.018 | 0.0060 | mg/Kg | 1 | ☼ | 7471B | Total/NA |
| pH | 7.6 | | 0.20 | 0.20 | SU | 1 | | 9045D | Total/NA |

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|-------------------|--------|----------------|----------------|
| 500-146450-1 | 2409V-1-B05 (0-3) | Solid | 06/05/18 07:40 | 06/05/18 18:30 |
| 500-146450-2 | 2409V-1-B04 (0-3) | Solid | 06/05/18 08:10 | 06/05/18 18:30 |
| 500-146450-3 | 2409V-1-B03 (0-3) | Solid | 06/05/18 08:35 | 06/05/18 18:30 |
| 500-146450-4 | 2409V-1-B02 (0-3) | Solid | 06/05/18 08:55 | 06/05/18 18:30 |
| 500-146450-5 | 2409V-1-B01 (0-3) | Solid | 06/05/18 09:15 | 06/05/18 18:30 |

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B05 (0-3)

Lab Sample ID: 500-146450-1

Date Collected: 06/05/18 07:40

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 84.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|-----------|--------|---------|-------|---|----------------|----------------|---------|
| Acetone | <0.0074 | | 0.017 | 0.0074 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Benzene | <0.00043 | | 0.0017 | 0.00043 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Bromodichloromethane | <0.00034 | | 0.0017 | 0.00034 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Bromoform | <0.00049 | | 0.0017 | 0.00049 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Bromomethane | <0.0016 | * | 0.0042 | 0.0016 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| 2-Butanone (MEK) | <0.0019 | | 0.0042 | 0.0019 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Carbon disulfide | <0.00088 | | 0.0042 | 0.00088 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Carbon tetrachloride | <0.00049 | | 0.0017 | 0.00049 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Chlorobenzene | <0.00063 | | 0.0017 | 0.00063 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Chloroethane | <0.0013 | * | 0.0042 | 0.0013 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Chloroform | <0.00059 | | 0.0017 | 0.00059 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Chloromethane | <0.0017 | | 0.0042 | 0.0017 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| cis-1,2-Dichloroethene | <0.00047 | | 0.0017 | 0.00047 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| cis-1,3-Dichloropropene | <0.00051 | | 0.0017 | 0.00051 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Dibromochloromethane | <0.00055 | | 0.0017 | 0.00055 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| 1,1-Dichloroethane | <0.00058 | | 0.0017 | 0.00058 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| 1,2-Dichloroethane | <0.0013 | | 0.0042 | 0.0013 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| 1,1-Dichloroethene | <0.00058 | | 0.0017 | 0.00058 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| 1,2-Dichloropropane | <0.00044 | | 0.0017 | 0.00044 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| 1,3-Dichloropropane, Total | <0.00059 | | 0.0017 | 0.00059 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Ethylbenzene | <0.00081 | | 0.0017 | 0.00081 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| 2-Hexanone | <0.0013 | | 0.0042 | 0.0013 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Methylene Chloride | <0.0017 | | 0.0042 | 0.0017 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| 4-Methyl-2-pentanone (MIBK) | <0.0013 | | 0.0042 | 0.0013 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Methyl tert-butyl ether | <0.00050 | | 0.0017 | 0.00050 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Styrene | <0.00051 | | 0.0017 | 0.00051 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| 1,1,2,2-Tetrachloroethane | <0.00054 | | 0.0017 | 0.00054 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Tetrachloroethene | <0.00058 | | 0.0017 | 0.00058 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Toluene | <0.00043 | | 0.0017 | 0.00043 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| trans-1,2-Dichloroethene | <0.00075 | | 0.0017 | 0.00075 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| trans-1,3-Dichloropropene | <0.00059 | | 0.0017 | 0.00059 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| 1,1,1-Trichloroethane | <0.00057 | | 0.0017 | 0.00057 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| 1,1,2-Trichloroethane | <0.00073 | | 0.0017 | 0.00073 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Trichloroethene | <0.00057 | | 0.0017 | 0.00057 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Vinyl acetate | <0.0015 | | 0.0042 | 0.0015 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Vinyl chloride | <0.00075 | | 0.0017 | 0.00075 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Xylenes, Total | <0.00054 | | 0.0034 | 0.00054 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 22:56 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 116 | | 75 - 131 | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Dibromofluoromethane | 111 | | 75 - 126 | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 116 | | 70 - 134 | 06/06/18 09:41 | 06/18/18 22:56 | 1 |
| Toluene-d8 (Surr) | 116 | | 75 - 124 | 06/06/18 09:41 | 06/18/18 22:56 | 1 |

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Acenaphthene | <0.0070 | | 0.039 | 0.0070 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Acenaphthylene | <0.0052 | | 0.039 | 0.0052 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Anthracene | <0.0065 | | 0.039 | 0.0065 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Benzo[a]anthracene | 0.016 | J | 0.039 | 0.0053 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B05 (0-3)

Lab Sample ID: 500-146450-1

Date Collected: 06/05/18 07:40

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 84.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Benzo[a]pyrene | 0.018 | J | 0.039 | 0.0076 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Benzo[b]fluoranthene | 0.020 | J | 0.039 | 0.0084 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Benzo[g,h,i]perylene | 0.014 | J | 0.039 | 0.013 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Benzo[k]fluoranthene | <0.012 | | 0.039 | 0.012 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Bis(2-chloroethoxy)methane | <0.040 | | 0.20 | 0.040 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Bis(2-chloroethyl)ether | <0.059 | | 0.20 | 0.059 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Bis(2-ethylhexyl) phthalate | <0.071 | | 0.20 | 0.071 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 4-Bromophenyl phenyl ether | <0.052 | | 0.20 | 0.052 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Butyl benzyl phthalate | <0.074 | | 0.20 | 0.074 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Carbazole | 0.12 | J | 0.20 | 0.098 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 4-Chloroaniline | <0.18 | | 0.79 | 0.18 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 4-Chloro-3-methylphenol | <0.13 | | 0.39 | 0.13 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 2-Chloronaphthalene | <0.043 | | 0.20 | 0.043 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 2-Chlorophenol | <0.067 | | 0.20 | 0.067 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 4-Chlorophenyl phenyl ether | <0.046 | | 0.20 | 0.046 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Chrysene | 0.016 | J | 0.039 | 0.011 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Dibenz(a,h)anthracene | <0.0076 | | 0.039 | 0.0076 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Dibenzofuran | <0.046 | | 0.20 | 0.046 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 1,2-Dichlorobenzene | <0.047 | | 0.20 | 0.047 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 1,3-Dichlorobenzene | <0.044 | | 0.20 | 0.044 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 1,4-Dichlorobenzene | <0.050 | | 0.20 | 0.050 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 3,3'-Dichlorobenzidine | <0.055 * | | 0.20 | 0.055 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 2,4-Dichlorophenol | <0.093 | | 0.39 | 0.093 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Diethyl phthalate | <0.066 | | 0.20 | 0.066 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 2,4-Dimethylphenol | <0.15 | | 0.39 | 0.15 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Dimethyl phthalate | <0.051 | | 0.20 | 0.051 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Di-n-butyl phthalate | <0.060 | | 0.20 | 0.060 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 4,6-Dinitro-2-methylphenol | <0.31 | | 0.79 | 0.31 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 2,4-Dinitrophenol | <0.69 | | 0.79 | 0.69 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 2,4-Dinitrotoluene | <0.062 | | 0.20 | 0.062 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 2,6-Dinitrotoluene | <0.077 | | 0.20 | 0.077 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Di-n-octyl phthalate | <0.064 | | 0.20 | 0.064 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Fluoranthene | 0.024 | J | 0.039 | 0.0073 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Fluorene | <0.0055 | | 0.039 | 0.0055 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Hexachlorobenzene | <0.0091 | | 0.079 | 0.0091 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Hexachlorobutadiene | <0.061 | | 0.20 | 0.061 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Hexachlorocyclopentadiene | <0.22 | | 0.79 | 0.22 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Hexachloroethane | <0.059 | | 0.20 | 0.059 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Indeno[1,2,3-cd]pyrene | <0.010 | | 0.039 | 0.010 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Isophorone | <0.044 | | 0.20 | 0.044 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 2-Methylnaphthalene | <0.0072 | | 0.079 | 0.0072 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 2-Methylphenol | <0.063 | | 0.20 | 0.063 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 3 & 4 Methylphenol | <0.065 | | 0.20 | 0.065 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Naphthalene | <0.0060 | | 0.039 | 0.0060 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 2-Nitroaniline | <0.053 | | 0.20 | 0.053 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 3-Nitroaniline | <0.12 | | 0.39 | 0.12 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 4-Nitroaniline | <0.16 | | 0.39 | 0.16 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Nitrobenzene | <0.0098 | | 0.039 | 0.0098 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 2-Nitrophenol | <0.092 | | 0.39 | 0.092 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B05 (0-3)

Lab Sample ID: 500-146450-1

Date Collected: 06/05/18 07:40

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 84.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|---------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| 4-Nitrophenol | <0.37 | | 0.79 | 0.37 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| N-Nitrosodi-n-propylamine | <0.048 | | 0.079 | 0.048 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| N-Nitrosodiphenylamine | <0.046 | | 0.20 | 0.046 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 2,2'-oxybis[1-chloropropane] | <0.045 | | 0.20 | 0.045 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Pentachlorophenol | <0.63 | | 0.79 | 0.63 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Phenanthrene | 0.0096 | J | 0.039 | 0.0055 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Phenol | <0.087 | | 0.20 | 0.087 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Pyrene | 0.023 | J | 0.039 | 0.0078 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 1,2,4-Trichlorobenzene | <0.042 | | 0.20 | 0.042 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 2,4,5-Trichlorophenol | <0.089 | | 0.39 | 0.089 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 2,4,6-Trichlorophenol | <0.13 | | 0.39 | 0.13 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 19:01 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl | 96 | | 44 - 121 | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 2-Fluorophenol | 118 | | 46 - 133 | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Nitrobenzene-d5 | 90 | | 41 - 120 | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Phenol-d5 | 102 | | 46 - 125 | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| Terphenyl-d14 | 109 | | 35 - 160 | 06/12/18 07:02 | 06/13/18 19:01 | 1 |
| 2,4,6-Tribromophenol | 75 | | 25 - 139 | 06/12/18 07:02 | 06/13/18 19:01 | 1 |

Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | 0.27 | J | 1.1 | 0.21 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Arsenic | 4.6 | | 0.55 | 0.19 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Barium | 49 | | 0.55 | 0.063 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Beryllium | 0.48 | | 0.22 | 0.052 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Cadmium | 0.37 | B | 0.11 | 0.020 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Chromium | 14 | | 0.55 | 0.27 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Cobalt | 6.3 | | 0.28 | 0.072 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Copper | 44 | | 0.55 | 0.15 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Iron | 12000 | B | 11 | 5.7 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Lead | 230 | | 0.28 | 0.13 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Magnesium | 21000 | B | 5.5 | 2.7 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Calcium | 50000 | B | 110 | 19 | mg/Kg | ☼ | 06/07/18 08:45 | 06/09/18 04:50 | 10 |
| Manganese | 340 | | 0.55 | 0.080 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Nickel | 17 | | 0.55 | 0.16 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Selenium | 0.73 | | 0.55 | 0.32 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Silver | 0.18 | J | 0.28 | 0.071 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Thallium | <0.28 | | 0.55 | 0.28 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Vanadium | 20 | | 0.28 | 0.065 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Zinc | 72 | | 1.1 | 0.49 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Potassium | 1200 | | 28 | 9.8 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |
| Sodium | 600 | | 55 | 8.2 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:04 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.010 | | 0.050 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:13 | 1 |
| Barium | 0.30 | J | 0.50 | 0.050 | mg/L | | 06/12/18 16:35 | 06/13/18 22:13 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 06/12/18 16:35 | 06/13/18 22:13 | 1 |
| Cadmium | 0.0035 | J | 0.0050 | 0.0020 | mg/L | | 06/12/18 16:35 | 06/13/18 22:13 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B05 (0-3)

Lab Sample ID: 500-146450-1

Date Collected: 06/05/18 07:40

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 84.6

Method: 6010B - Metals (ICP) - TCLP (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Calcium | 320 | | 5.0 | 0.50 | mg/L | | 06/12/18 16:35 | 06/13/18 22:13 | 1 |
| Chromium | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:13 | 1 |
| Cobalt | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:13 | 1 |
| Copper | 0.013 | J | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:13 | 1 |
| Iron | <0.20 | | 0.40 | 0.20 | mg/L | | 06/12/18 16:35 | 06/13/18 22:13 | 1 |
| Lead | 0.036 | | 0.0075 | 0.0075 | mg/L | | 06/12/18 16:35 | 06/13/18 22:13 | 1 |
| Magnesium | 97 | | 2.5 | 0.50 | mg/L | | 06/12/18 16:35 | 06/13/18 22:13 | 1 |
| Manganese | 0.74 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:13 | 1 |
| Nickel | 0.018 | J | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:13 | 1 |
| Potassium | 0.58 | J | 2.5 | 0.50 | mg/L | | 06/12/18 16:35 | 06/13/18 22:13 | 1 |
| Selenium | <0.020 | | 0.050 | 0.020 | mg/L | | 06/12/18 16:35 | 06/13/18 22:13 | 1 |
| Silver | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:13 | 1 |
| Vanadium | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:13 | 1 |
| Zinc | 0.15 | J | 0.50 | 0.020 | mg/L | | 06/12/18 16:35 | 06/13/18 22:13 | 1 |

Method: 6010B - SPLP Metals - SPLP East

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|-------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Lead | 0.33 | | 0.0075 | 0.0075 | mg/L | | 06/12/18 15:23 | 06/14/18 00:15 | 1 |
| Manganese | 0.64 | | 0.025 | 0.010 | mg/L | | 06/12/18 15:23 | 06/14/18 00:15 | 1 |

Method: 6020A - Metals (ICP/MS) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|---------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Antimony | <0.0060 | | 0.0060 | 0.0060 | mg/L | | 06/12/18 16:35 | 06/13/18 13:53 | 1 |
| Thallium | <0.0020 | | 0.0020 | 0.0020 | mg/L | | 06/12/18 16:35 | 06/13/18 13:53 | 1 |

Method: 7470A - TCLP Mercury - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|---------|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | 0.00020 | mg/L | | 06/12/18 14:05 | 06/14/18 07:28 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Mercury | 0.025 | B | 0.018 | 0.0059 | mg/Kg | ☼ | 06/08/18 16:15 | 06/12/18 17:01 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|------------|-----------|------|------|-------|---|----------------|----------------|---------|
| Cyanide, Total | <0.19 | | 0.54 | 0.19 | mg/Kg | ☼ | 06/15/18 18:05 | 06/16/18 14:01 | 1 |
| pH | 8.2 | | 0.20 | 0.20 | SU | | | 06/12/18 14:44 | 1 |

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B04 (0-3)

Lab Sample ID: 500-146450-2

Date Collected: 06/05/18 08:10

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 82.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|-----------|--------|---------|-------|---|----------------|----------------|---------|
| Acetone | 0.0087 | J | 0.016 | 0.0072 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Benzene | <0.00042 | | 0.0016 | 0.00042 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Bromodichloromethane | <0.00033 | | 0.0016 | 0.00033 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Bromoform | <0.00048 | | 0.0016 | 0.00048 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Bromomethane | <0.0016 | * | 0.0041 | 0.0016 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| 2-Butanone (MEK) | <0.0018 | | 0.0041 | 0.0018 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Carbon disulfide | <0.00086 | | 0.0041 | 0.00086 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Carbon tetrachloride | <0.00048 | | 0.0016 | 0.00048 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Chlorobenzene | <0.00061 | | 0.0016 | 0.00061 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Chloroethane | <0.0012 | * | 0.0041 | 0.0012 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Chloroform | <0.00057 | | 0.0016 | 0.00057 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Chloromethane | <0.0017 | | 0.0041 | 0.0017 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| cis-1,2-Dichloroethene | <0.00046 | | 0.0016 | 0.00046 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| cis-1,3-Dichloropropene | <0.00050 | | 0.0016 | 0.00050 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Dibromochloromethane | <0.00054 | | 0.0016 | 0.00054 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| 1,1-Dichloroethane | <0.00056 | | 0.0016 | 0.00056 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| 1,2-Dichloroethane | <0.0013 | | 0.0041 | 0.0013 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| 1,1-Dichloroethene | <0.00057 | | 0.0016 | 0.00057 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| 1,2-Dichloropropane | <0.00043 | | 0.0016 | 0.00043 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| 1,3-Dichloropropene, Total | <0.00058 | | 0.0016 | 0.00058 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Ethylbenzene | <0.00079 | | 0.0016 | 0.00079 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| 2-Hexanone | <0.0013 | | 0.0041 | 0.0013 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Methylene Chloride | <0.0016 | | 0.0041 | 0.0016 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| 4-Methyl-2-pentanone (MIBK) | <0.0012 | | 0.0041 | 0.0012 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Methyl tert-butyl ether | <0.00048 | | 0.0016 | 0.00048 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Styrene | <0.00050 | | 0.0016 | 0.00050 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| 1,1,2,2-Tetrachloroethane | <0.00053 | | 0.0016 | 0.00053 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Tetrachloroethene | <0.00056 | | 0.0016 | 0.00056 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Toluene | <0.00042 | | 0.0016 | 0.00042 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| trans-1,2-Dichloroethene | <0.00073 | | 0.0016 | 0.00073 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| trans-1,3-Dichloropropene | <0.00058 | | 0.0016 | 0.00058 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| 1,1,1-Trichloroethane | <0.00055 | | 0.0016 | 0.00055 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| 1,1,2-Trichloroethane | <0.00071 | | 0.0016 | 0.00071 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Trichloroethene | <0.00056 | | 0.0016 | 0.00056 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Vinyl acetate | <0.0014 | | 0.0041 | 0.0014 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Vinyl chloride | <0.00073 | | 0.0016 | 0.00073 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Xylenes, Total | <0.00053 | | 0.0033 | 0.00053 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:25 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 106 | | 75 - 131 | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Dibromofluoromethane | 106 | | 75 - 126 | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 114 | | 70 - 134 | 06/06/18 09:41 | 06/18/18 23:25 | 1 |
| Toluene-d8 (Surr) | 110 | | 75 - 124 | 06/06/18 09:41 | 06/18/18 23:25 | 1 |

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------|---------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Acenaphthene | <0.0072 | | 0.040 | 0.0072 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Acenaphthylene | <0.0053 | | 0.040 | 0.0053 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Anthracene | <0.0067 | | 0.040 | 0.0067 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Benzo[a]anthracene | <0.0054 | | 0.040 | 0.0054 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B04 (0-3)

Lab Sample ID: 500-146450-2

Date Collected: 06/05/18 08:10

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 82.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Benzo[a]pyrene | <0.0077 | | 0.040 | 0.0077 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Benzo[b]fluoranthene | <0.0086 | | 0.040 | 0.0086 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Benzo[g,h,i]perylene | <0.013 | | 0.040 | 0.013 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Benzo[k]fluoranthene | <0.012 | | 0.040 | 0.012 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Bis(2-chloroethoxy)methane | <0.041 | | 0.20 | 0.041 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Bis(2-chloroethyl)ether | <0.060 | | 0.20 | 0.060 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Bis(2-ethylhexyl) phthalate | <0.073 | | 0.20 | 0.073 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 4-Bromophenyl phenyl ether | <0.053 | | 0.20 | 0.053 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Butyl benzyl phthalate | <0.076 | | 0.20 | 0.076 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Carbazole | <0.10 | | 0.20 | 0.10 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 4-Chloroaniline | <0.19 | | 0.81 | 0.19 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 4-Chloro-3-methylphenol | <0.14 | | 0.40 | 0.14 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 2-Chloronaphthalene | <0.044 | | 0.20 | 0.044 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 2-Chlorophenol | <0.068 | | 0.20 | 0.068 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 4-Chlorophenyl phenyl ether | <0.047 | | 0.20 | 0.047 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Chrysene | <0.011 | | 0.040 | 0.011 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Dibenz(a,h)anthracene | <0.0077 | | 0.040 | 0.0077 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Dibenzofuran | <0.047 | | 0.20 | 0.047 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 1,2-Dichlorobenzene | <0.048 | | 0.20 | 0.048 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 1,3-Dichlorobenzene | <0.045 | | 0.20 | 0.045 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 1,4-Dichlorobenzene | <0.051 | | 0.20 | 0.051 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 3,3'-Dichlorobenzidine | <0.056 * | | 0.20 | 0.056 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 2,4-Dichlorophenol | <0.095 | | 0.40 | 0.095 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Diethyl phthalate | <0.068 | | 0.20 | 0.068 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 2,4-Dimethylphenol | <0.15 | | 0.40 | 0.15 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Dimethyl phthalate | <0.052 | | 0.20 | 0.052 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Di-n-butyl phthalate | <0.061 | | 0.20 | 0.061 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 4,6-Dinitro-2-methylphenol | <0.32 | | 0.81 | 0.32 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 2,4-Dinitrophenol | <0.70 | | 0.81 | 0.70 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 2,4-Dinitrotoluene | <0.063 | | 0.20 | 0.063 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 2,6-Dinitrotoluene | <0.079 | | 0.20 | 0.079 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Di-n-octyl phthalate | <0.065 | | 0.20 | 0.065 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Fluoranthene | <0.0074 | | 0.040 | 0.0074 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Fluorene | <0.0056 | | 0.040 | 0.0056 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Hexachlorobenzene | <0.0093 | | 0.081 | 0.0093 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Hexachlorobutadiene | <0.063 | | 0.20 | 0.063 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Hexachlorocyclopentadiene | <0.23 | | 0.81 | 0.23 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Hexachloroethane | <0.061 | | 0.20 | 0.061 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Indeno[1,2,3-cd]pyrene | <0.010 | | 0.040 | 0.010 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Isophorone | <0.045 | | 0.20 | 0.045 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 2-Methylnaphthalene | <0.0073 | | 0.081 | 0.0073 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 2-Methylphenol | <0.064 | | 0.20 | 0.064 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 3 & 4 Methylphenol | <0.067 | | 0.20 | 0.067 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Naphthalene | <0.0061 | | 0.040 | 0.0061 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 2-Nitroaniline | <0.054 | | 0.20 | 0.054 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 3-Nitroaniline | <0.12 | | 0.40 | 0.12 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 4-Nitroaniline | <0.17 | | 0.40 | 0.17 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Nitrobenzene | <0.010 | | 0.040 | 0.010 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 2-Nitrophenol | <0.094 | | 0.40 | 0.094 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B04 (0-3)

Lab Sample ID: 500-146450-2

Date Collected: 06/05/18 08:10

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 82.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|---------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| 4-Nitrophenol | <0.38 | | 0.81 | 0.38 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| N-Nitrosodi-n-propylamine | <0.049 | | 0.081 | 0.049 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| N-Nitrosodiphenylamine | <0.047 | | 0.20 | 0.047 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 2,2'-oxybis[1-chloropropane] | <0.046 | | 0.20 | 0.046 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Pentachlorophenol | <0.64 | | 0.81 | 0.64 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Phenanthrene | <0.0056 | | 0.040 | 0.0056 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Phenol | <0.089 | | 0.20 | 0.089 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Pyrene | <0.0079 | | 0.040 | 0.0079 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 1,2,4-Trichlorobenzene | <0.043 | | 0.20 | 0.043 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 2,4,5-Trichlorophenol | <0.091 | | 0.40 | 0.091 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 2,4,6-Trichlorophenol | <0.14 | | 0.40 | 0.14 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:24 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl | 98 | | 44 - 121 | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 2-Fluorophenol | 123 | | 46 - 133 | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Nitrobenzene-d5 | 93 | | 41 - 120 | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Phenol-d5 | 112 | | 46 - 125 | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| Terphenyl-d14 | 108 | | 35 - 160 | 06/12/18 07:02 | 06/13/18 20:24 | 1 |
| 2,4,6-Tribromophenol | 78 | | 25 - 139 | 06/12/18 07:02 | 06/13/18 20:24 | 1 |

Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <0.23 | | 1.2 | 0.23 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Arsenic | 5.1 | | 0.58 | 0.20 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Barium | 70 | | 0.58 | 0.066 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Beryllium | 0.79 | | 0.23 | 0.054 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Cadmium | 0.21 | B | 0.12 | 0.021 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Chromium | 20 | | 0.58 | 0.29 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Cobalt | 12 | | 0.29 | 0.076 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Copper | 17 | | 0.58 | 0.16 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Iron | 20000 | B | 12 | 6.1 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Lead | 16 | | 0.29 | 0.13 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Magnesium | 4400 | B | 5.8 | 2.9 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Calcium | 2600 | B | 12 | 2.0 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Manganese | 410 | | 0.58 | 0.084 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Nickel | 27 | | 0.58 | 0.17 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Selenium | 1.1 | | 0.58 | 0.34 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Silver | 0.32 | | 0.29 | 0.075 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Thallium | <0.29 | | 0.58 | 0.29 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Vanadium | 31 | | 0.29 | 0.069 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Zinc | 60 | | 1.2 | 0.51 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Potassium | 2000 | | 29 | 10 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |
| Sodium | 550 | | 58 | 8.6 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:08 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.010 | | 0.050 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:17 | 1 |
| Barium | 0.14 | J | 0.50 | 0.050 | mg/L | | 06/12/18 16:35 | 06/13/18 22:17 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 06/12/18 16:35 | 06/13/18 22:17 | 1 |
| Cadmium | 0.0020 | J | 0.0050 | 0.0020 | mg/L | | 06/12/18 16:35 | 06/13/18 22:17 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B04 (0-3)

Lab Sample ID: 500-146450-2

Date Collected: 06/05/18 08:10

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 82.1

Method: 6010B - Metals (ICP) - TCLP (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Calcium | 49 | | 5.0 | 0.50 | mg/L | | 06/12/18 16:35 | 06/13/18 22:17 | 1 |
| Chromium | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:17 | 1 |
| Cobalt | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:17 | 1 |
| Copper | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:17 | 1 |
| Iron | 0.59 | | 0.40 | 0.20 | mg/L | | 06/12/18 16:35 | 06/13/18 22:17 | 1 |
| Lead | <0.0075 | | 0.0075 | 0.0075 | mg/L | | 06/12/18 16:35 | 06/13/18 22:17 | 1 |
| Magnesium | 14 | | 2.5 | 0.50 | mg/L | | 06/12/18 16:35 | 06/13/18 22:17 | 1 |
| Manganese | 0.014 | J | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:17 | 1 |
| Nickel | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:17 | 1 |
| Potassium | 0.67 | J | 2.5 | 0.50 | mg/L | | 06/12/18 16:35 | 06/13/18 22:17 | 1 |
| Selenium | <0.020 | | 0.050 | 0.020 | mg/L | | 06/12/18 16:35 | 06/13/18 22:17 | 1 |
| Silver | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:17 | 1 |
| Vanadium | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:17 | 1 |
| Zinc | <0.020 | | 0.50 | 0.020 | mg/L | | 06/12/18 16:35 | 06/13/18 22:17 | 1 |

Method: 6020A - Metals (ICP/MS) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|---------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Antimony | <0.0060 | | 0.0060 | 0.0060 | mg/L | | 06/12/18 16:35 | 06/13/18 13:54 | 1 |
| Thallium | <0.0020 | | 0.0020 | 0.0020 | mg/L | | 06/12/18 16:35 | 06/13/18 13:54 | 1 |

Method: 7470A - TCLP Mercury - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|---------|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | 0.00020 | mg/L | | 06/12/18 14:05 | 06/14/18 07:29 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|--------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Mercury | 0.032 | B | 0.018 | 0.0060 | mg/Kg | ☼ | 06/08/18 16:15 | 06/12/18 17:03 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|------------|-----------|------|------|-------|---|----------------|----------------|---------|
| Cyanide, Total | <0.20 | | 0.58 | 0.20 | mg/Kg | ☼ | 06/15/18 18:05 | 06/16/18 14:01 | 1 |
| pH | 8.0 | | 0.20 | 0.20 | SU | | | 06/12/18 14:45 | 1 |

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B03 (0-3)

Lab Sample ID: 500-146450-3

Date Collected: 06/05/18 08:35

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 84.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------------|-----------|--------|---------|-------|---|----------------|----------------|---------|
| Acetone | 0.014 | J | 0.017 | 0.0072 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Benzene | <0.00042 | | 0.0017 | 0.00042 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Bromodichloromethane | <0.00034 | | 0.0017 | 0.00034 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Bromoform | <0.00049 | | 0.0017 | 0.00049 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Bromomethane | <0.0016 | * | 0.0042 | 0.0016 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| 2-Butanone (MEK) | <0.0018 | | 0.0042 | 0.0018 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Carbon disulfide | <0.00087 | | 0.0042 | 0.00087 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Carbon tetrachloride | <0.00048 | | 0.0017 | 0.00048 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Chlorobenzene | <0.00061 | | 0.0017 | 0.00061 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Chloroethane | <0.0012 | * | 0.0042 | 0.0012 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Chloroform | <0.00058 | | 0.0017 | 0.00058 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Chloromethane | <0.0017 | | 0.0042 | 0.0017 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| cis-1,2-Dichloroethene | <0.00047 | | 0.0017 | 0.00047 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| cis-1,3-Dichloropropene | <0.00050 | | 0.0017 | 0.00050 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Dibromochloromethane | <0.00054 | | 0.0017 | 0.00054 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| 1,1-Dichloroethane | <0.00057 | | 0.0017 | 0.00057 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| 1,2-Dichloroethane | <0.0013 | | 0.0042 | 0.0013 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| 1,1-Dichloroethene | <0.00057 | | 0.0017 | 0.00057 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| 1,2-Dichloropropane | <0.00043 | | 0.0017 | 0.00043 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| 1,3-Dichloropropene, Total | <0.00058 | | 0.0017 | 0.00058 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Ethylbenzene | <0.00080 | | 0.0017 | 0.00080 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| 2-Hexanone | <0.0013 | | 0.0042 | 0.0013 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Methylene Chloride | <0.0016 | | 0.0042 | 0.0016 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| 4-Methyl-2-pentanone (MIBK) | <0.0012 | | 0.0042 | 0.0012 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Methyl tert-butyl ether | <0.00049 | | 0.0017 | 0.00049 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Styrene | <0.00050 | | 0.0017 | 0.00050 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| 1,1,2,2-Tetrachloroethane | <0.00053 | | 0.0017 | 0.00053 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Tetrachloroethene | <0.00057 | | 0.0017 | 0.00057 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Toluene | <0.00042 | | 0.0017 | 0.00042 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| trans-1,2-Dichloroethene | <0.00074 | | 0.0017 | 0.00074 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| trans-1,3-Dichloropropene | <0.00058 | | 0.0017 | 0.00058 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| 1,1,1-Trichloroethane | <0.00056 | | 0.0017 | 0.00056 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| 1,1,2-Trichloroethane | <0.00071 | | 0.0017 | 0.00071 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Trichloroethene | <0.00056 | | 0.0017 | 0.00056 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Vinyl acetate | <0.0014 | | 0.0042 | 0.0014 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Vinyl chloride | <0.00074 | | 0.0017 | 0.00074 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Xylenes, Total | <0.00053 | | 0.0033 | 0.00053 | mg/Kg | ☼ | 06/06/18 09:41 | 06/18/18 23:53 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 109 | | 75 - 131 | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Dibromofluoromethane | 108 | | 75 - 126 | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 113 | | 70 - 134 | 06/06/18 09:41 | 06/18/18 23:53 | 1 |
| Toluene-d8 (Surr) | 111 | | 75 - 124 | 06/06/18 09:41 | 06/18/18 23:53 | 1 |

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Acenaphthene | <0.0068 | | 0.037 | 0.0068 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Acenaphthylene | <0.0050 | | 0.037 | 0.0050 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Anthracene | 0.014 | J | 0.037 | 0.0063 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Benzo[a]anthracene | 0.098 | | 0.037 | 0.0051 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B03 (0-3)

Lab Sample ID: 500-146450-3

Date Collected: 06/05/18 08:35

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 84.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|---------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Benzo[a]pyrene | 0.12 | | 0.037 | 0.0073 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Benzo[b]fluoranthene | 0.19 | | 0.037 | 0.0081 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Benzo[g,h,i]perylene | 0.082 | | 0.037 | 0.012 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Benzo[k]fluoranthene | 0.052 | | 0.037 | 0.011 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Bis(2-chloroethoxy)methane | <0.038 | | 0.19 | 0.038 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Bis(2-chloroethyl)ether | <0.057 | | 0.19 | 0.057 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Bis(2-ethylhexyl) phthalate | <0.069 | | 0.19 | 0.069 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 4-Bromophenyl phenyl ether | <0.050 | | 0.19 | 0.050 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Butyl benzyl phthalate | <0.072 | | 0.19 | 0.072 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Carbazole | 0.12 | J | 0.19 | 0.094 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 4-Chloroaniline | <0.18 | | 0.76 | 0.18 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 4-Chloro-3-methylphenol | <0.13 | | 0.37 | 0.13 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 2-Chloronaphthalene | <0.042 | | 0.19 | 0.042 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 2-Chlorophenol | <0.064 | | 0.19 | 0.064 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 4-Chlorophenyl phenyl ether | <0.044 | | 0.19 | 0.044 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Chrysene | 0.13 | | 0.037 | 0.010 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Dibenz(a,h)anthracene | 0.021 | J | 0.037 | 0.0073 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Dibenzofuran | <0.044 | | 0.19 | 0.044 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 1,2-Dichlorobenzene | <0.045 | | 0.19 | 0.045 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 1,3-Dichlorobenzene | <0.042 | | 0.19 | 0.042 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 1,4-Dichlorobenzene | <0.048 | | 0.19 | 0.048 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 3,3'-Dichlorobenzidine | <0.053 | * | 0.19 | 0.053 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 2,4-Dichlorophenol | <0.090 | | 0.37 | 0.090 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Diethyl phthalate | <0.064 | | 0.19 | 0.064 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 2,4-Dimethylphenol | <0.14 | | 0.37 | 0.14 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Dimethyl phthalate | <0.049 | | 0.19 | 0.049 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Di-n-butyl phthalate | <0.057 | | 0.19 | 0.057 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 4,6-Dinitro-2-methylphenol | <0.30 | | 0.76 | 0.30 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 2,4-Dinitrophenol | <0.66 | | 0.76 | 0.66 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 2,4-Dinitrotoluene | <0.060 | | 0.19 | 0.060 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 2,6-Dinitrotoluene | <0.074 | | 0.19 | 0.074 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Di-n-octyl phthalate | <0.061 | | 0.19 | 0.061 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Fluoranthene | 0.21 | | 0.037 | 0.0070 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Fluorene | <0.0053 | | 0.037 | 0.0053 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Hexachlorobenzene | <0.0087 | | 0.076 | 0.0087 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Hexachlorobutadiene | <0.059 | | 0.19 | 0.059 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Hexachlorocyclopentadiene | <0.22 | | 0.76 | 0.22 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Hexachloroethane | <0.057 | | 0.19 | 0.057 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Indeno[1,2,3-cd]pyrene | 0.076 | | 0.037 | 0.0098 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Isophorone | <0.042 | | 0.19 | 0.042 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 2-Methylnaphthalene | 0.0082 | J | 0.076 | 0.0069 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 2-Methylphenol | <0.060 | | 0.19 | 0.060 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 3 & 4 Methylphenol | <0.063 | | 0.19 | 0.063 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Naphthalene | <0.0058 | | 0.037 | 0.0058 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 2-Nitroaniline | <0.051 | | 0.19 | 0.051 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 3-Nitroaniline | <0.12 | | 0.37 | 0.12 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 4-Nitroaniline | <0.16 | | 0.37 | 0.16 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Nitrobenzene | <0.0094 | | 0.037 | 0.0094 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 2-Nitrophenol | <0.089 | | 0.37 | 0.089 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B03 (0-3)

Lab Sample ID: 500-146450-3

Date Collected: 06/05/18 08:35

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 84.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| 4-Nitrophenol | <0.36 | | 0.76 | 0.36 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| N-Nitrosodi-n-propylamine | <0.046 | | 0.076 | 0.046 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| N-Nitrosodiphenylamine | <0.044 | | 0.19 | 0.044 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 2,2'-oxybis[1-chloropropane] | <0.044 | | 0.19 | 0.044 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Pentachlorophenol | <0.60 | | 0.76 | 0.60 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Phenanthrene | 0.071 | | 0.037 | 0.0053 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Phenol | <0.084 | | 0.19 | 0.084 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Pyrene | 0.18 | | 0.037 | 0.0075 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 1,2,4-Trichlorobenzene | <0.041 | | 0.19 | 0.041 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 2,4,5-Trichlorophenol | <0.086 | | 0.37 | 0.086 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 2,4,6-Trichlorophenol | <0.13 | | 0.37 | 0.13 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 20:51 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl | 98 | | 44 - 121 | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 2-Fluorophenol | 116 | | 46 - 133 | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Nitrobenzene-d5 | 92 | | 41 - 120 | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Phenol-d5 | 109 | | 46 - 125 | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| Terphenyl-d14 | 104 | | 35 - 160 | 06/12/18 07:02 | 06/13/18 20:51 | 1 |
| 2,4,6-Tribromophenol | 80 | | 25 - 139 | 06/12/18 07:02 | 06/13/18 20:51 | 1 |

Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | 0.31 | J | 1.1 | 0.22 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Arsenic | 6.7 | | 0.57 | 0.19 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Barium | 62 | | 0.57 | 0.065 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Beryllium | 0.61 | | 0.23 | 0.053 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Cadmium | 0.51 | B | 0.11 | 0.020 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Chromium | 19 | | 0.57 | 0.28 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Cobalt | 9.1 | | 0.28 | 0.075 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Copper | 31 | | 0.57 | 0.16 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Iron | 16000 | B | 11 | 5.9 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Lead | 200 | | 0.28 | 0.13 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Magnesium | 10000 | B | 5.7 | 2.8 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Calcium | 15000 | B | 11 | 1.9 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Manganese | 370 | | 0.57 | 0.083 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Nickel | 21 | | 0.57 | 0.17 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Selenium | 1.0 | | 0.57 | 0.33 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Silver | 0.28 | | 0.28 | 0.073 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Thallium | <0.28 | | 0.57 | 0.28 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Vanadium | 23 | | 0.28 | 0.067 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Zinc | 100 | | 1.1 | 0.50 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Potassium | 1600 | | 28 | 10 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |
| Sodium | 460 | | 57 | 8.4 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:20 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.010 | | 0.050 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:22 | 1 |
| Barium | 0.28 | J | 0.50 | 0.050 | mg/L | | 06/12/18 16:35 | 06/13/18 22:22 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 06/12/18 16:35 | 06/13/18 22:22 | 1 |
| Cadmium | 0.0040 | J | 0.0050 | 0.0020 | mg/L | | 06/12/18 16:35 | 06/13/18 22:22 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B03 (0-3)

Lab Sample ID: 500-146450-3

Date Collected: 06/05/18 08:35

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 84.6

Method: 6010B - Metals (ICP) - TCLP (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Calcium | 200 | | 5.0 | 0.50 | mg/L | | 06/12/18 16:35 | 06/13/18 22:22 | 1 |
| Chromium | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:22 | 1 |
| Cobalt | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:22 | 1 |
| Copper | 0.012 | J | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:22 | 1 |
| Iron | <0.20 | | 0.40 | 0.20 | mg/L | | 06/12/18 16:35 | 06/13/18 22:22 | 1 |
| Lead | 0.034 | | 0.0075 | 0.0075 | mg/L | | 06/12/18 16:35 | 06/13/18 22:22 | 1 |
| Magnesium | 90 | | 2.5 | 0.50 | mg/L | | 06/12/18 16:35 | 06/13/18 22:22 | 1 |
| Manganese | 0.91 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:22 | 1 |
| Nickel | 0.016 | J | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:22 | 1 |
| Potassium | 1.0 | J | 2.5 | 0.50 | mg/L | | 06/12/18 16:35 | 06/13/18 22:22 | 1 |
| Selenium | <0.020 | | 0.050 | 0.020 | mg/L | | 06/12/18 16:35 | 06/13/18 22:22 | 1 |
| Silver | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:22 | 1 |
| Vanadium | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:22 | 1 |
| Zinc | 0.086 | J | 0.50 | 0.020 | mg/L | | 06/12/18 16:35 | 06/13/18 22:22 | 1 |

Method: 6010B - SPLP Metals - SPLP East

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|-------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Lead | 0.18 | | 0.0075 | 0.0075 | mg/L | | 06/12/18 15:23 | 06/14/18 00:23 | 1 |
| Manganese | 0.42 | | 0.025 | 0.010 | mg/L | | 06/12/18 15:23 | 06/14/18 00:23 | 1 |

Method: 6020A - Metals (ICP/MS) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|---------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Antimony | <0.0060 | | 0.0060 | 0.0060 | mg/L | | 06/12/18 16:35 | 06/13/18 13:55 | 1 |
| Thallium | <0.0020 | | 0.0020 | 0.0020 | mg/L | | 06/12/18 16:35 | 06/13/18 13:55 | 1 |

Method: 7470A - TCLP Mercury - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|---------|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | 0.00020 | mg/L | | 06/12/18 14:05 | 06/14/18 07:31 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|--------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Mercury | 0.086 | B | 0.018 | 0.0061 | mg/Kg | ☼ | 06/08/18 16:15 | 06/12/18 17:05 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|------------|-----------|------|------|-------|---|----------------|----------------|---------|
| Cyanide, Total | <0.20 | | 0.57 | 0.20 | mg/Kg | ☼ | 06/15/18 18:05 | 06/16/18 14:01 | 1 |
| pH | 8.4 | | 0.20 | 0.20 | SU | | | 06/12/18 14:45 | 1 |

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B02 (0-3)

Lab Sample ID: 500-146450-4

Date Collected: 06/05/18 08:55

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 80.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|---------------|-----------|--------|---------|-------|---|----------------|----------------|---------|
| Acetone | 0.0093 | J | 0.016 | 0.0071 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Benzene | <0.00042 | | 0.0016 | 0.00042 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Bromodichloromethane | <0.00033 | | 0.0016 | 0.00033 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Bromoform | <0.00048 | | 0.0016 | 0.00048 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Bromomethane | <0.0015 | * | 0.0041 | 0.0015 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| 2-Butanone (MEK) | <0.0018 | | 0.0041 | 0.0018 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Carbon disulfide | <0.00085 | | 0.0041 | 0.00085 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Carbon tetrachloride | <0.00047 | | 0.0016 | 0.00047 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Chlorobenzene | <0.00060 | | 0.0016 | 0.00060 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Chloroethane | <0.0012 | * | 0.0041 | 0.0012 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Chloroform | <0.00057 | | 0.0016 | 0.00057 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Chloromethane | <0.0016 | | 0.0041 | 0.0016 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| cis-1,2-Dichloroethene | <0.00046 | | 0.0016 | 0.00046 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| cis-1,3-Dichloropropene | <0.00049 | | 0.0016 | 0.00049 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Dibromochloromethane | <0.00053 | | 0.0016 | 0.00053 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| 1,1-Dichloroethane | <0.00056 | | 0.0016 | 0.00056 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| 1,2-Dichloroethane | <0.0013 | | 0.0041 | 0.0013 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| 1,1-Dichloroethene | <0.00056 | | 0.0016 | 0.00056 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| 1,2-Dichloropropane | <0.00042 | | 0.0016 | 0.00042 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| 1,3-Dichloropropane, Total | <0.00057 | | 0.0016 | 0.00057 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Ethylbenzene | <0.00078 | | 0.0016 | 0.00078 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| 2-Hexanone | <0.0013 | | 0.0041 | 0.0013 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Methylene Chloride | <0.0016 | | 0.0041 | 0.0016 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| 4-Methyl-2-pentanone (MIBK) | <0.0012 | | 0.0041 | 0.0012 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Methyl tert-butyl ether | <0.00048 | | 0.0016 | 0.00048 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Styrene | <0.00049 | | 0.0016 | 0.00049 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| 1,1,2,2-Tetrachloroethane | <0.00052 | | 0.0016 | 0.00052 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Tetrachloroethene | <0.00055 | | 0.0016 | 0.00055 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Toluene | <0.00041 | | 0.0016 | 0.00041 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| trans-1,2-Dichloroethene | <0.00072 | | 0.0016 | 0.00072 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| trans-1,3-Dichloropropene | <0.00057 | | 0.0016 | 0.00057 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| 1,1,1-Trichloroethane | <0.00055 | | 0.0016 | 0.00055 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| 1,1,2-Trichloroethane | <0.00070 | | 0.0016 | 0.00070 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Trichloroethene | <0.00055 | | 0.0016 | 0.00055 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Vinyl acetate | <0.0014 | | 0.0041 | 0.0014 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Vinyl chloride | <0.00072 | | 0.0016 | 0.00072 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Xylenes, Total | <0.00052 | | 0.0033 | 0.00052 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:21 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 108 | | 75 - 131 | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Dibromofluoromethane | 105 | | 75 - 126 | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 109 | | 70 - 134 | 06/06/18 09:41 | 06/19/18 00:21 | 1 |
| Toluene-d8 (Surr) | 112 | | 75 - 124 | 06/06/18 09:41 | 06/19/18 00:21 | 1 |

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Acenaphthene | <0.0072 | | 0.040 | 0.0072 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Acenaphthylene | <0.0053 | | 0.040 | 0.0053 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Anthracene | <0.0067 | | 0.040 | 0.0067 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Benzo[a]anthracene | 0.013 | J | 0.040 | 0.0054 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B02 (0-3)

Lab Sample ID: 500-146450-4

Date Collected: 06/05/18 08:55

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 80.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|--------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Benzo[a]pyrene | 0.017 | J | 0.040 | 0.0078 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Benzo[b]fluoranthene | 0.021 | J | 0.040 | 0.0087 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Benzo[g,h,i]perylene | 0.013 | J | 0.040 | 0.013 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Benzo[k]fluoranthene | <0.012 | | 0.040 | 0.012 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Bis(2-chloroethoxy)methane | <0.041 | | 0.20 | 0.041 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Bis(2-chloroethyl)ether | <0.060 | | 0.20 | 0.060 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Bis(2-ethylhexyl) phthalate | <0.074 | | 0.20 | 0.074 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 4-Bromophenyl phenyl ether | <0.053 | | 0.20 | 0.053 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Butyl benzyl phthalate | <0.077 | | 0.20 | 0.077 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Carbazole | <0.10 | | 0.20 | 0.10 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 4-Chloroaniline | <0.19 | | 0.81 | 0.19 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 4-Chloro-3-methylphenol | <0.14 | | 0.40 | 0.14 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 2-Chloronaphthalene | <0.045 | | 0.20 | 0.045 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 2-Chlorophenol | <0.069 | | 0.20 | 0.069 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 4-Chlorophenyl phenyl ether | <0.047 | | 0.20 | 0.047 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Chrysene | 0.017 | J | 0.040 | 0.011 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Dibenz(a,h)anthracene | <0.0078 | | 0.040 | 0.0078 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Dibenzofuran | <0.047 | | 0.20 | 0.047 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 1,2-Dichlorobenzene | <0.048 | | 0.20 | 0.048 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 1,3-Dichlorobenzene | <0.045 | | 0.20 | 0.045 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 1,4-Dichlorobenzene | <0.052 | | 0.20 | 0.052 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 3,3'-Dichlorobenzidine | <0.056 | * | 0.20 | 0.056 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 2,4-Dichlorophenol | <0.096 | | 0.40 | 0.096 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Diethyl phthalate | <0.068 | | 0.20 | 0.068 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 2,4-Dimethylphenol | <0.15 | | 0.40 | 0.15 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Dimethyl phthalate | <0.053 | | 0.20 | 0.053 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Di-n-butyl phthalate | <0.061 | | 0.20 | 0.061 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 4,6-Dinitro-2-methylphenol | <0.32 | | 0.81 | 0.32 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 2,4-Dinitrophenol | <0.71 | | 0.81 | 0.71 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 2,4-Dinitrotoluene | <0.064 | | 0.20 | 0.064 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 2,6-Dinitrotoluene | <0.079 | | 0.20 | 0.079 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Di-n-octyl phthalate | <0.066 | | 0.20 | 0.066 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Fluoranthene | 0.021 | J | 0.040 | 0.0075 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Fluorene | <0.0057 | | 0.040 | 0.0057 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Hexachlorobenzene | <0.0093 | | 0.081 | 0.0093 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Hexachlorobutadiene | <0.063 | | 0.20 | 0.063 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Hexachlorocyclopentadiene | <0.23 | | 0.81 | 0.23 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Hexachloroethane | <0.061 | | 0.20 | 0.061 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Indeno[1,2,3-cd]pyrene | 0.010 | J | 0.040 | 0.010 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Isophorone | <0.045 | | 0.20 | 0.045 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 2-Methylnaphthalene | <0.0074 | | 0.081 | 0.0074 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 2-Methylphenol | <0.065 | | 0.20 | 0.065 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 3 & 4 Methylphenol | <0.067 | | 0.20 | 0.067 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Naphthalene | <0.0062 | | 0.040 | 0.0062 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 2-Nitroaniline | <0.054 | | 0.20 | 0.054 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 3-Nitroaniline | <0.12 | | 0.40 | 0.12 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 4-Nitroaniline | <0.17 | | 0.40 | 0.17 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Nitrobenzene | <0.010 | | 0.040 | 0.010 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 2-Nitrophenol | <0.095 | | 0.40 | 0.095 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B02 (0-3)

Lab Sample ID: 500-146450-4

Date Collected: 06/05/18 08:55

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 80.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|---------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| 4-Nitrophenol | <0.38 | | 0.81 | 0.38 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| N-Nitrosodi-n-propylamine | <0.049 | | 0.081 | 0.049 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| N-Nitrosodiphenylamine | <0.048 | | 0.20 | 0.048 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 2,2'-oxybis[1-chloropropane] | <0.047 | | 0.20 | 0.047 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Pentachlorophenol | <0.65 | | 0.81 | 0.65 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Phenanthrene | 0.0078 | J | 0.040 | 0.0056 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Phenol | <0.090 | | 0.20 | 0.090 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Pyrene | 0.019 | J | 0.040 | 0.0080 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 1,2,4-Trichlorobenzene | <0.043 | | 0.20 | 0.043 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 2,4,5-Trichlorophenol | <0.092 | | 0.40 | 0.092 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 2,4,6-Trichlorophenol | <0.14 | | 0.40 | 0.14 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:19 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl | 98 | | 44 - 121 | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 2-Fluorophenol | 120 | | 46 - 133 | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Nitrobenzene-d5 | 91 | | 41 - 120 | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Phenol-d5 | 109 | | 46 - 125 | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| Terphenyl-d14 | 109 | | 35 - 160 | 06/12/18 07:02 | 06/13/18 21:19 | 1 |
| 2,4,6-Tribromophenol | 81 | | 25 - 139 | 06/12/18 07:02 | 06/13/18 21:19 | 1 |

Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | 0.38 | J | 1.2 | 0.23 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Arsenic | 6.2 | | 0.60 | 0.21 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Barium | 81 | | 0.60 | 0.069 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Beryllium | 0.53 | | 0.24 | 0.056 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Cadmium | 0.36 | B | 0.12 | 0.022 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Chromium | 13 | | 0.60 | 0.30 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Cobalt | 16 | | 0.30 | 0.079 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Copper | 22 | | 0.60 | 0.17 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Iron | 18000 | B | 12 | 6.3 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Lead | 30 | | 0.30 | 0.14 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Magnesium | 19000 | B | 6.0 | 3.0 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Calcium | 30000 | B | 12 | 2.0 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Manganese | 870 | | 0.60 | 0.087 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Nickel | 30 | | 0.60 | 0.18 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Selenium | 0.79 | | 0.60 | 0.35 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Silver | 0.27 | J | 0.30 | 0.078 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Thallium | <0.30 | | 0.60 | 0.30 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Vanadium | 26 | | 0.30 | 0.071 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Zinc | 46 | | 1.2 | 0.53 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Potassium | 1500 | | 30 | 11 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |
| Sodium | 250 | | 60 | 8.9 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:24 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.010 | | 0.050 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:26 | 1 |
| Barium | 0.28 | J | 0.50 | 0.050 | mg/L | | 06/12/18 16:35 | 06/13/18 22:26 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 06/12/18 16:35 | 06/13/18 22:26 | 1 |
| Cadmium | 0.0039 | J | 0.0050 | 0.0020 | mg/L | | 06/12/18 16:35 | 06/13/18 22:26 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B02 (0-3)

Lab Sample ID: 500-146450-4

Date Collected: 06/05/18 08:55

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 80.9

Method: 6010B - Metals (ICP) - TCLP (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Calcium | 270 | | 5.0 | 0.50 | mg/L | | 06/12/18 16:35 | 06/13/18 22:26 | 1 |
| Chromium | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:26 | 1 |
| Cobalt | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:26 | 1 |
| Copper | 0.012 | J | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:26 | 1 |
| Iron | <0.20 | | 0.40 | 0.20 | mg/L | | 06/12/18 16:35 | 06/13/18 22:26 | 1 |
| Lead | 0.015 | | 0.0075 | 0.0075 | mg/L | | 06/12/18 16:35 | 06/13/18 22:26 | 1 |
| Magnesium | 140 | | 2.5 | 0.50 | mg/L | | 06/12/18 16:35 | 06/13/18 22:26 | 1 |
| Manganese | 1.1 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:26 | 1 |
| Nickel | 0.016 | J | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:26 | 1 |
| Potassium | 1.0 | J | 2.5 | 0.50 | mg/L | | 06/12/18 16:35 | 06/13/18 22:26 | 1 |
| Selenium | <0.020 | | 0.050 | 0.020 | mg/L | | 06/12/18 16:35 | 06/13/18 22:26 | 1 |
| Silver | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:26 | 1 |
| Vanadium | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:26 | 1 |
| Zinc | <0.020 | | 0.50 | 0.020 | mg/L | | 06/12/18 16:35 | 06/13/18 22:26 | 1 |

Method: 6010B - SPLP Metals - SPLP East

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|-------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Lead | 0.17 | | 0.0075 | 0.0075 | mg/L | | 06/12/18 15:23 | 06/14/18 00:35 | 1 |
| Manganese | 0.36 | | 0.025 | 0.010 | mg/L | | 06/12/18 15:23 | 06/14/18 00:35 | 1 |

Method: 6020A - Metals (ICP/MS) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|---------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Antimony | <0.0060 | | 0.0060 | 0.0060 | mg/L | | 06/12/18 16:35 | 06/13/18 13:56 | 1 |
| Thallium | <0.0020 | | 0.0020 | 0.0020 | mg/L | | 06/12/18 16:35 | 06/13/18 13:56 | 1 |

Method: 7470A - TCLP Mercury - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|---------|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | 0.00020 | mg/L | | 06/12/18 14:05 | 06/14/18 07:33 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|--------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Mercury | 0.031 | B | 0.020 | 0.0066 | mg/Kg | ☼ | 06/08/18 16:15 | 06/12/18 17:07 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|------------|-----------|------|------|-------|---|----------------|----------------|---------|
| Cyanide, Total | <0.20 | | 0.59 | 0.20 | mg/Kg | ☼ | 06/15/18 18:05 | 06/16/18 14:01 | 1 |
| pH | 7.8 | | 0.20 | 0.20 | SU | | | 06/12/18 14:46 | 1 |

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B01 (0-3)

Lab Sample ID: 500-146450-5

Date Collected: 06/05/18 09:15

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 81.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|-----------|--------|---------|-------|---|----------------|----------------|---------|
| Acetone | <0.0073 | | 0.017 | 0.0073 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Benzene | <0.00043 | | 0.0017 | 0.00043 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Bromodichloromethane | <0.00034 | | 0.0017 | 0.00034 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Bromoform | <0.00049 | | 0.0017 | 0.00049 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Bromomethane | <0.0016 | * | 0.0042 | 0.0016 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| 2-Butanone (MEK) | <0.0019 | | 0.0042 | 0.0019 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Carbon disulfide | <0.00087 | | 0.0042 | 0.00087 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Carbon tetrachloride | <0.00048 | | 0.0017 | 0.00048 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Chlorobenzene | <0.00062 | | 0.0017 | 0.00062 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Chloroethane | <0.0012 | * | 0.0042 | 0.0012 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Chloroform | <0.00058 | | 0.0017 | 0.00058 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Chloromethane | <0.0017 | | 0.0042 | 0.0017 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| cis-1,2-Dichloroethene | <0.00047 | | 0.0017 | 0.00047 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| cis-1,3-Dichloropropene | <0.00050 | | 0.0017 | 0.00050 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Dibromochloromethane | <0.00055 | | 0.0017 | 0.00055 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| 1,1-Dichloroethane | <0.00057 | | 0.0017 | 0.00057 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| 1,2-Dichloroethane | <0.0013 | | 0.0042 | 0.0013 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| 1,1-Dichloroethene | <0.00057 | | 0.0017 | 0.00057 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| 1,2-Dichloropropane | <0.00043 | | 0.0017 | 0.00043 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| 1,3-Dichloropropane, Total | <0.00059 | | 0.0017 | 0.00059 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Ethylbenzene | <0.00080 | | 0.0017 | 0.00080 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| 2-Hexanone | <0.0013 | | 0.0042 | 0.0013 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Methylene Chloride | <0.0016 | | 0.0042 | 0.0016 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| 4-Methyl-2-pentanone (MIBK) | <0.0012 | | 0.0042 | 0.0012 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Methyl tert-butyl ether | <0.00049 | | 0.0017 | 0.00049 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Styrene | <0.00050 | | 0.0017 | 0.00050 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| 1,1,2,2-Tetrachloroethane | <0.00053 | | 0.0017 | 0.00053 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Tetrachloroethene | <0.00057 | | 0.0017 | 0.00057 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Toluene | <0.00042 | | 0.0017 | 0.00042 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| trans-1,2-Dichloroethene | <0.00074 | | 0.0017 | 0.00074 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| trans-1,3-Dichloropropene | <0.00059 | | 0.0017 | 0.00059 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| 1,1,1-Trichloroethane | <0.00056 | | 0.0017 | 0.00056 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| 1,1,2-Trichloroethane | <0.00072 | | 0.0017 | 0.00072 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Trichloroethene | <0.00056 | | 0.0017 | 0.00056 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Vinyl acetate | <0.0015 | | 0.0042 | 0.0015 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Vinyl chloride | <0.00074 | | 0.0017 | 0.00074 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Xylenes, Total | <0.00053 | | 0.0033 | 0.00053 | mg/Kg | ☼ | 06/06/18 09:41 | 06/19/18 00:48 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 110 | | 75 - 131 | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Dibromofluoromethane | 108 | | 75 - 126 | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 112 | | 70 - 134 | 06/06/18 09:41 | 06/19/18 00:48 | 1 |
| Toluene-d8 (Surr) | 113 | | 75 - 124 | 06/06/18 09:41 | 06/19/18 00:48 | 1 |

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Acenaphthene | <0.0072 | | 0.040 | 0.0072 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Acenaphthylene | <0.0053 | | 0.040 | 0.0053 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Anthracene | <0.0067 | | 0.040 | 0.0067 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Benzo[a]anthracene | 0.036 | J | 0.040 | 0.0054 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B01 (0-3)

Lab Sample ID: 500-146450-5

Date Collected: 06/05/18 09:15

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 81.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|--------------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Benzo[a]pyrene | 0.045 | | 0.040 | 0.0077 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Benzo[b]fluoranthene | 0.060 | | 0.040 | 0.0086 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Benzo[g,h,i]perylene | 0.025 | J | 0.040 | 0.013 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Benzo[k]fluoranthene | 0.018 | J | 0.040 | 0.012 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Bis(2-chloroethoxy)methane | <0.041 | | 0.20 | 0.041 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Bis(2-chloroethyl)ether | <0.060 | | 0.20 | 0.060 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Bis(2-ethylhexyl) phthalate | <0.073 | | 0.20 | 0.073 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 4-Bromophenyl phenyl ether | <0.053 | | 0.20 | 0.053 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Butyl benzyl phthalate | <0.076 | | 0.20 | 0.076 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Carbazole | 0.12 | J | 0.20 | 0.10 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 4-Chloroaniline | <0.19 | | 0.80 | 0.19 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 4-Chloro-3-methylphenol | <0.14 | | 0.40 | 0.14 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 2-Chloronaphthalene | <0.044 | | 0.20 | 0.044 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 2-Chlorophenol | <0.068 | | 0.20 | 0.068 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 4-Chlorophenyl phenyl ether | <0.047 | | 0.20 | 0.047 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Chrysene | 0.049 | | 0.040 | 0.011 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Dibenz(a,h)anthracene | <0.0077 | | 0.040 | 0.0077 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Dibenzofuran | <0.047 | | 0.20 | 0.047 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 1,2-Dichlorobenzene | <0.048 | | 0.20 | 0.048 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 1,3-Dichlorobenzene | <0.045 | | 0.20 | 0.045 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 1,4-Dichlorobenzene | <0.051 | | 0.20 | 0.051 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 3,3'-Dichlorobenzidine | <0.056 | * | 0.20 | 0.056 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 2,4-Dichlorophenol | <0.095 | | 0.40 | 0.095 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Diethyl phthalate | <0.068 | | 0.20 | 0.068 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 2,4-Dimethylphenol | <0.15 | | 0.40 | 0.15 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Dimethyl phthalate | <0.052 | | 0.20 | 0.052 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Di-n-butyl phthalate | <0.061 | | 0.20 | 0.061 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 4,6-Dinitro-2-methylphenol | <0.32 | | 0.80 | 0.32 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 2,4-Dinitrophenol | <0.70 | | 0.80 | 0.70 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 2,4-Dinitrotoluene | <0.063 | | 0.20 | 0.063 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 2,6-Dinitrotoluene | <0.078 | | 0.20 | 0.078 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Di-n-octyl phthalate | <0.065 | | 0.20 | 0.065 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Fluoranthene | 0.070 | | 0.040 | 0.0074 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Fluorene | <0.0056 | | 0.040 | 0.0056 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Hexachlorobenzene | <0.0093 | | 0.080 | 0.0093 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Hexachlorobutadiene | <0.063 | | 0.20 | 0.063 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Hexachlorocyclopentadiene | <0.23 | | 0.80 | 0.23 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Hexachloroethane | <0.061 | | 0.20 | 0.061 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Indeno[1,2,3-cd]pyrene | 0.022 | J | 0.040 | 0.010 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Isophorone | <0.045 | | 0.20 | 0.045 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 2-Methylnaphthalene | <0.0073 | | 0.080 | 0.0073 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 2-Methylphenol | <0.064 | | 0.20 | 0.064 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 3 & 4 Methylphenol | <0.067 | | 0.20 | 0.067 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Naphthalene | <0.0061 | | 0.040 | 0.0061 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 2-Nitroaniline | <0.054 | | 0.20 | 0.054 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 3-Nitroaniline | <0.12 | | 0.40 | 0.12 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 4-Nitroaniline | <0.17 | | 0.40 | 0.17 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Nitrobenzene | <0.010 | | 0.040 | 0.010 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 2-Nitrophenol | <0.094 | | 0.40 | 0.094 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B01 (0-3)

Lab Sample ID: 500-146450-5

Date Collected: 06/05/18 09:15

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 81.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------------|-----------|----------|--------|-------|---|----------------|----------------|---------|
| 4-Nitrophenol | <0.38 | | 0.80 | 0.38 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| N-Nitrosodi-n-propylamine | <0.049 | | 0.080 | 0.049 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| N-Nitrosodiphenylamine | <0.047 | | 0.20 | 0.047 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 2,2'-oxybis[1-chloropropane] | <0.046 | | 0.20 | 0.046 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Pentachlorophenol | <0.64 | | 0.80 | 0.64 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Phenanthrene | 0.030 | J | 0.040 | 0.0056 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Phenol | <0.089 | | 0.20 | 0.089 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Pyrene | 0.065 | | 0.040 | 0.0079 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 1,2,4-Trichlorobenzene | <0.043 | | 0.20 | 0.043 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 2,4,5-Trichlorophenol | <0.091 | | 0.40 | 0.091 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 2,4,6-Trichlorophenol | <0.14 | | 0.40 | 0.14 | mg/Kg | ☼ | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2-Fluorobiphenyl | 98 | | 44 - 121 | | | | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 2-Fluorophenol | 120 | | 46 - 133 | | | | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Nitrobenzene-d5 | 92 | | 41 - 120 | | | | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Phenol-d5 | 104 | | 46 - 125 | | | | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| Terphenyl-d14 | 103 | | 35 - 160 | | | | 06/12/18 07:02 | 06/13/18 21:46 | 1 |
| 2,4,6-Tribromophenol | 81 | | 25 - 139 | | | | 06/12/18 07:02 | 06/13/18 21:46 | 1 |

Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Antimony | <0.22 | | 1.1 | 0.22 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Arsenic | 5.2 | | 0.56 | 0.19 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Barium | 56 | | 0.56 | 0.064 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Beryllium | 0.65 | | 0.23 | 0.053 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Cadmium | 0.36 | B | 0.11 | 0.020 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Chromium | 17 | | 0.56 | 0.28 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Cobalt | 9.0 | | 0.28 | 0.074 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Copper | 23 | | 0.56 | 0.16 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Iron | 16000 | B | 11 | 5.9 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Lead | 47 | | 0.28 | 0.13 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Magnesium | 4400 | B | 5.6 | 2.8 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Calcium | 3900 | B | 11 | 1.9 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Manganese | 300 | | 0.56 | 0.082 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Nickel | 25 | | 0.56 | 0.16 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Selenium | 0.68 | | 0.56 | 0.33 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Silver | 0.24 | J | 0.28 | 0.073 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Thallium | <0.28 | | 0.56 | 0.28 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Vanadium | 25 | | 0.28 | 0.066 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Zinc | 64 | | 1.1 | 0.49 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Potassium | 1700 | | 28 | 10 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |
| Sodium | 390 | | 56 | 8.3 | mg/Kg | ☼ | 06/07/18 08:45 | 06/08/18 05:28 | 1 |

Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|---------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.010 | | 0.050 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:30 | 1 |
| Barium | 0.27 | J | 0.50 | 0.050 | mg/L | | 06/12/18 16:35 | 06/13/18 22:30 | 1 |
| Beryllium | <0.0040 | | 0.0040 | 0.0040 | mg/L | | 06/12/18 16:35 | 06/13/18 22:30 | 1 |
| Cadmium | 0.0046 | J | 0.0050 | 0.0020 | mg/L | | 06/12/18 16:35 | 06/13/18 22:30 | 1 |

TestAmerica Chicago

Client Sample Results

Client: Terracon Consulting Eng & Scientists
 Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Client Sample ID: 2409V-1-B01 (0-3)

Lab Sample ID: 500-146450-5

Date Collected: 06/05/18 09:15

Matrix: Solid

Date Received: 06/05/18 18:30

Percent Solids: 81.5

Method: 6010B - Metals (ICP) - TCLP (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Calcium | 110 | | 5.0 | 0.50 | mg/L | | 06/12/18 16:35 | 06/13/18 22:30 | 1 |
| Chromium | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:30 | 1 |
| Cobalt | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:30 | 1 |
| Copper | 0.014 | J | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:30 | 1 |
| Iron | 0.38 | J | 0.40 | 0.20 | mg/L | | 06/12/18 16:35 | 06/13/18 22:30 | 1 |
| Lead | 0.016 | | 0.0075 | 0.0075 | mg/L | | 06/12/18 16:35 | 06/13/18 22:30 | 1 |
| Magnesium | 46 | | 2.5 | 0.50 | mg/L | | 06/12/18 16:35 | 06/13/18 22:30 | 1 |
| Manganese | 0.30 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:30 | 1 |
| Nickel | 0.015 | J | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:30 | 1 |
| Potassium | 1.3 | J | 2.5 | 0.50 | mg/L | | 06/12/18 16:35 | 06/13/18 22:30 | 1 |
| Selenium | <0.020 | | 0.050 | 0.020 | mg/L | | 06/12/18 16:35 | 06/13/18 22:30 | 1 |
| Silver | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:30 | 1 |
| Vanadium | <0.010 | | 0.025 | 0.010 | mg/L | | 06/12/18 16:35 | 06/13/18 22:30 | 1 |
| Zinc | 0.073 | J | 0.50 | 0.020 | mg/L | | 06/12/18 16:35 | 06/13/18 22:30 | 1 |

Method: 6010B - SPLP Metals - SPLP East

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Lead | 0.32 | | 0.0075 | 0.0075 | mg/L | | 06/12/18 15:23 | 06/14/18 00:39 | 1 |
| Manganese | 0.78 | | 0.025 | 0.010 | mg/L | | 06/12/18 15:23 | 06/14/18 00:39 | 1 |

Method: 6020A - Metals (ICP/MS) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|---------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Antimony | <0.0060 | | 0.0060 | 0.0060 | mg/L | | 06/12/18 16:35 | 06/13/18 13:57 | 1 |
| Thallium | <0.0020 | | 0.0020 | 0.0020 | mg/L | | 06/12/18 16:35 | 06/13/18 13:57 | 1 |

Method: 7470A - TCLP Mercury - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|---------|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | 0.00020 | mg/L | | 06/12/18 14:05 | 06/14/18 07:34 | 1 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-------|--------|-------|---|----------------|----------------|---------|
| Mercury | 0.083 | B | 0.018 | 0.0060 | mg/Kg | ☼ | 06/08/18 16:15 | 06/12/18 17:12 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|--------|-----------|------|------|-------|---|----------------|----------------|---------|
| Cyanide, Total | <0.19 | | 0.55 | 0.19 | mg/Kg | ☼ | 06/15/18 18:05 | 06/16/18 14:02 | 1 |
| pH | 7.6 | | 0.20 | 0.20 | SU | | | 06/12/18 14:46 | 1 |

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

Qualifiers

GC/MS VOA

| Qualifier | Qualifier Description |
|-----------|----------------------------------------------------------------------------------------------------------------|
| * | LCS or LCSD is outside acceptance limits. |
| * | RPD of the LCS and LCSD exceeds the control limits |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

GC/MS Semi VOA

| Qualifier | Qualifier Description |
|-----------|----------------------------------------------------------------------------------------------------------------|
| * | LCS or LCSD is outside acceptance limits. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

Metals

| Qualifier | Qualifier Description |
|-----------|----------------------------------------------------------------------------------------------------------------|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| B | Compound was found in the blank and sample. |

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|-------------------------------------------------------------------------------------------------------------|
| α | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| 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) |

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: IDOT - Morton Grove - WO 049

TestAmerica Job ID: 500-146450-1

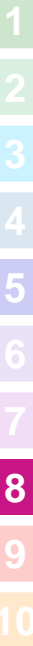
Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | EPA Region | Identification Number | Expiration Date |
|-----------|---------|------------|-----------------------|-----------------|
| Illinois | NELAP | 5 | 100201 | 04-30-19 |

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

| Analysis Method | Prep Method | Matrix | Analyte |
|-----------------|-------------|--------|----------------------------|
| 6020A | 3010A | Solid | Antimony |
| 6020A | 3010A | Solid | Thallium |
| 8260B | 5035 | Solid | 1,3-Dichloropropene, Total |
| Moisture | | Solid | Percent Moisture |
| Moisture | | Solid | Percent Solids |



Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 500-146450-1

Login Number: 146450

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

| Question | Answer | Comment |
|-----------------------------------------------------------------------------------------------------|--------|-----------------|
| Radioactivity wasn't checked or is \leq 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 | 2.3,5.4,5.1,5.6 |
| 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. | False | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | 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 <math><6\text{mm}</math> (1/4"). | False | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

