

Environmental Site Assessment – Supplemental Soil Investigation



Shady Oak Property

4312 Shady Oak Road and
4292 Oak Drive Lane
Minnetonka, MN 55343

Prepared for:
**City of Minnetonka and Hennepin
County**

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1.0 Purpose and Scope

Wenck Associates, Inc. (Wenck) was authorized by Hennepin County Contaminated Lands Unit and The City of Minnetonka to conduct this Supplemental Soil Investigation Environmental Site Assessment (ESA) of the property located at 4312 Shady Oak Road, Minnetonka, Hennepin County, Minnesota (the Subject Property).

The purpose of the Supplemental Soil Investigation ESA activities described herein was to determine the scope and extent of contaminated soils on the Subject Property that may have been impacted by hazardous substances, pollutants or contaminants at concentrations of potential concern. The potential for such impact was identified during completion of a recent Phase II ESA for the Subject Property.

1.1 SCOPE OF SERVICES

This following scope of services was completed for this Supplemental Soil Investigation ESA:

- ▲ Cleared public and private utilities;
- ▲ Completed eight (8) soil borings to assess current soil conditions;
- ▲ Observed and collected soil samples recovered from the soil borings, created soil boring logs, and field-screened soil for the presence of volatile organics with a photoionization detector (PID);
- ▲ Collected a total of eight (8) soil samples for analysis of diesel range organics (DRO), volatile organic compounds (VOCs), polynuclear aromatic hydrocarbons (PAHs), Resource Conservation and Recovery Act (RCRA) metals and/or polychlorinated biphenyls (PCBs);
- ▲ Prepared this report.

2.0 Site Description

The Subject Property is located in a commercial/residential area in the City of Minnetonka, MN.

Site Address/Location	Address: 4312 Shady Oak Road County: Hennepin Addition: Ginkels Oakridge Addition	City: Minnetonka State: Minnesota Lot: 020 Block: 002
Property Information	Size: 1.6 acres Property Identification Number: 23-117-22-42-0057	
Improvements	The Subject Property has one commercial/retail building with multiple tenant spaces, a paved parking area on the west side of the commercial building, and greenspace.	
Building Information	Size: Approximately 25,680-square feet	Year of Construction: 1951
Use of the Property	Description: The building on the 4312 Parcel is two levels. The upper level tenant spaces are accessed from the east side of the building off Shady Oak Road and the lower level tenant spaces are accessed by a walkout basement level on the west side of the building. Current Use: The current tenants at the 4312 Parcel consist of Ammo Craft (4314), Tara's Chalet Pizza (4316), Sewing and Alterations (4318), 3x3 Fit (4330), P3 Hair Design (4332), E-Cigs and Accessories (4334), Mission Animal Hospital (4338), Second Hand Hounds (4340 and 4334B), Mid-Tool (4316B), Electric City (4330B and 4332B), and Practical Systems – HVAC (4340B and 4342B) Past Use: Historic commercial tenants include machine shops, a dry cleaner, HVAC/building contractors, pizza restaurant and various commercial tenants	
Ownership and Operation of the Property	Current Ownership & Operation: The 4312 Shady Oak Road parcel is currently owned by the City of Minnetonka.	

The Subject Property location is depicted in Figure 1. A Site Detail Map showing the Subject Property is provided in Figure 2.

2.1 CURRENT USE OF ADJOINING PROPERTIES

The following land uses were noted on adjoining properties:

Direction	Description
North	Oak Drive Lane and residential properties
South	Vacant Lot and commercial properties
East	Shady Oak Road and commercial properties
West	Residential properties

2.2 PHYSICAL SETTING

2.2.1 Topography

The Subject Property is generally level and is at an elevation of approximately 920-930 feet above mean sea level. Site surface drainage is to the southwest. Historic development may have included grading or filling of the Subject Property to improve the location for construction and drainage.

2.2.2 Geology

Published references describe the surficial geology at the Subject Property as outwash consisting of sand, loamy sand, and gravel (University of Minnesota, 1989).

Surficial bedrock in the vicinity of the Subject Property consists of the Platteville and Glenwood Formations at a depth of approximately 100-150 feet (University of Minnesota, 1989).

2.2.3 Hydrogeology

The general direction of regional groundwater flow in the area of the Subject Property is noted in Minnesota Department of Natural Resources County Geologic Atlas to be to the west towards the Mississippi River. However, local conditions may vary due to surface water features, perched groundwater conditions or artificially created drainage systems. Depth to regional groundwater is noted to be approximately 25 feet below ground surface (MN Department of Natural Resources, 1989).

3.0 Previous Investigations

The following previous environmental reports prepared for the Subject Property were reviewed:

- ▲ *Phase I Environmental Site Assessment, Ring Property, 4312-4342 Shady Oak Road, Minnetonka, Minnesota, report prepared for Hennepin County, report prepared by Service Engineering Group, report dated September 21, 2007 (2007 Phase I ESA Report).*
- ▲ *Phase I Environmental Site Assessment, Shady Oak Property, 4312 Shady Oak Road and 4292 Oak Drive Lane, Minnetonka, Minnesota, report prepared for the City of Minnetonka, report prepared by Wenck Associates Inc., report dated November 6, 2014 (2014 Phase I ESA Report);*
- ▲ *Phase II Environmental Site Assessment, Shady Oak Property, 4312 Shady Oak Road and 4292 Oak Drive Lane, Minnetonka, Minnesota, report prepared for the City of Minnetonka, report prepared by Wenck Associates Inc., Report dated November 13, 2014 (2014 Phase I ESA Report).*
- ▲ *Phase I Environmental Site Assessment, Shady Oak Property, 4312 Shady Oak Road and 4292 Oak Drive Lane, Minnetonka, Minnesota, report prepared for the City of Minnetonka, report prepared by Wenck Associates Inc., report dated June 27, 2016 (2016 Phase I ESA Report);*

3.1.1 2007 Phase I ESA Report

The 2007 Phase I ESA Report noted that the tenants at the 4312 Parcel consisted of Knight Machining, Ammocraft Firearms Supply, Chalet Pizza, James Gang Hair, a woodworking shop, Shady Oak Vet, and Practical Systems HVAC. The Phase I notes that these tenants or like-industries, have occupied the 4312 Parcel since at least the 1980's. Prior to that time, other light commercial or service industry tenants have periodically occupied the site including county offices, an antique store, restaurant, furniture store, hardware store, sheet metal workings, dentist office, and a drive in cleaners. The 2007 report notes the cleaners was drop-off only as shown in a 1975 City Directory reviewed by Service Engineering Group.

The 2007 Report stated that there were no identified recognized environmental conditions. The 2007 Report does not mention the septic tank and cesspool system at the Subject Property.

The dry-cleaner noted in City of Minnetonka files for the 2014 Wenck Phase I report is not the same dry-cleaner noted in the 2007 Phase I ESA Report and 1975 City Directory.

3.1.2 2014 Wenck Phase I Report

The 2014 Wenck Phase I Report indicated that the Subject Property consisted of one commercial/retail building with multiple tenant spaces, a single-family residence, a paved parking area on the west side of the commercial building, and greenspace. At the time the 2014 Wenck Phase I Report was prepared the Subject Property was owned by E H Ring Credit Shelter (4312 Parcel) and EGR Premier Properties (4292 Parcel).



According to the 2014 Wenck Phase I Report the tenants at the 4312 Parcel consisted of Ammo Craft (4314), Tara's Chalet Pizza (4316), Sewing and Alterations (4318), 3x3 Fit (4330), P3 Hair Design (4332), E-Cigs and Accessories (4334), Mission Animal Hospital (4338), Second Hand Hounds (4340 and 4334B), Mid-Tool (4316B), Electric City (4330B and 4332B), and Practical Systems – HVAC (4340B and 4342B).

The 2014 Wenck Phase I Report identified the following RECs relative to the Subject Property:

- ▲ "The presence of historical machine shop and drycleaner tenants at the Subject Property that handled various oils and solvents and operated at the same time as the former septic and cesspool system is considered an REC.
- ▲ Heavy oil staining from a leaking compressor located in the northwest corner of the building in a vacant tenant space is considered an REC."

The 2014 Wenck Phase I Report identified the following items that constituted an business environmental risk at the Subject Property:

- ▲ "There is a domestic well located at the Subject Property that is currently not in use on the 4292 Parcel and two wells not in use on the 4312 parcel. According to the Minnesota Department of Health, a well must be in use, be under a maintenance permit, or be sealed by a licensed contractor.
- ▲ A former septic system may still be present on the Subject Property at the 4312 Parcel on the west of the building. Septic systems no longer in use should be abandoned/decommissioned in accordance with local regulations. A septic system was not observed on the 4292 Parcel; however, a septic system may also be present on the 4292 Parcel, based on the similar time of construction."

3.1.3 2014 Wenck Phase II Report

The 2014 Wenck Phase II consisted of the advancement of five (5) soil borings to depths of 15 to 30 feet below ground surface (bgs) to assess current soil and groundwater conditions at the Subject Property. Soil samples were collected from five of the borings and analyzed for diesel range organics (DRO), volatile organic compounds (VOCs), and Resource Conservation and Recovery Act (RCRA) metals; four (4) samples for polynuclear aromatic hydrocarbons (PAHs); and one (1) soil samples for PCBs. Groundwater samples were collected from three borings and analyzed for DRO and VOCs. Two soil vapor samples were also collected and analyzed for VOCs using method TO-15. Additionally, Wenck collected three PCB wipe samples from areas where staining was observed in the basement of the 4312 Building noted in the Wenck 2014 Phase I ESA.

During the Phase II investigation fill soils consisting of predominately brown to black silty sand with gravel were encountered to depths of approximately 5 feet bgs in the west parking lot area of the 4312 Building. The fill soil was generally underlain by brown silty sand with gravel. Groundwater was encountered in each boring drilled on the Subject Property at depths of approximately 10 to 20 feet bgs.

The soil investigation results from the 2014 Wenck Phase II compared detected concentrations of RCRA metals, VOCs, PAHs and PCBs to the Minnesota Pollution Control



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Agency's Tier 1 Residential and Tier 2 Industrial Soil Reference Values (SRVs). Additionally, MPCA Tier 1 Soil Leaching Values (SLVs) were referenced to evaluate the potential risk to groundwater at the Subject Property from the soil-to-groundwater leaching pathway.

DRO was identified in three of the six soil samples collected at concentrations ranging from 494 mg/kg to 9.99 mg/kg. Various RCRA metals were detected in all of the samples collected and analyzed; however, detected concentrations of metals do not exceed the MPCA SLVs, Residential SRVs, or Industrial SRVs. VOCs were not identified in soil samples above their respective laboratory method reporting limits in any of the soil samples collected. In one of the two samples collected and analyzed for PCBs, total PCBs were detected at 0.265 mg/kg above the MPCA SLV of 0.1 mg/kg. Various PAHs were detected in the soil samples. However, none of the samples were identified to exceed the MPCA Residential or Industrial SRVs or MPCA SLVs for individual PAHs or the BaP equivalent concentrations calculated.

The groundwater analytical data collected during the 2014 Wenck Phase II compared detected concentrations of VOCs to the Minnesota Department of Health's (MDH) and MPCA's Health Risk Limits (HRL) and MDH Health Based Values (HBVs) guidance values to assess potential human health risks from exposures to chemicals in groundwater. There are no established HRLs or HBVs for DRO and GRO.

The VOC tetrachloroethene (PCE), a common drycleaner solvent, was detected in two groundwater samples collected at the Subject Property at concentrations ranging from 1.81 ug/L to 1.23 ug/L. Both detections were below the MPCA HRL/MDH HBV of 5.0 ug/L. DRO was detected in all three temporary wells at 21.2 ug/L, 314 ug/L, and 267 ug/L.

The soil vapor data collected during the 2014 Wenck Phase II was compared to the MPCA's Intrusion Screening Values (ISVs) for Vapor Intrusion Risk. Various VOCs were detected above the method detection limits in the soil vapor samples collected from the Subject Property. PCE was detected at 130 ug/m³ above 10x the Residential ISV, but below 10x the Industrial ISV (*The Residential ISV for PCE as of May 2016 is revised to 3.3 ug/m³*) and trichloroethene (TCE) was detected at 20 ug/m³ equal to 10x the Residential ISV, but below 10x the Industrial ISV (*The Residential ISV for TCE as of May 2016 is revised to 2.1 ug/m³*). The VOC 1,3-butadiene was detected above 10x the Residential ISV in both samples; however, the 2014 Wenck Phase II concluded there was no potential source of 1,3-butadiene and the detection was not indicative of a release at the Subject Property. None of the other detected VOCs exceed 10x the MPCA Residential or Industrial ISVs.

PCBs were detected in one of the wipe samples at a concentration of 25.1 ug/100 cm² from the oil stained concrete under the leaking compressor in the vacant storage space in the northwest corner of the basement of the building on the 4312 Parcel.

The text, tables, and figures portions of the Phase II ESA report are included in **Appendix A**.

3.1.4 2016 Wenck Phase I Report

The Subject Property has one commercial/retail building with multiple tenant spaces, a single-family residence, a paved parking area on the west side of the commercial building,



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and greenspace. Both structures were originally built in 1951. Two additions were completed on the commercial structure by 1964.

The building on the 4312 Parcel is two levels and the upper level tenant spaces are accessed from the east side of the building off Shady Oak Road and the lower level tenant spaces are accessed by a walkout basement level on the west side of the building. The current tenants on the upper level consist of Ammo Craft (4314), Chalet Pizza (4316) and Sewing and Alterations (4318); the remaining spaces on the upper level are vacant. The lower level tenant spaces are occupied by Mid-Tool (4316B), Electric City (4330B and 4332B), and Practical Systems – HVAC (4340B and 4342B).

Wenck reviewed building permits and records for the Subject Property at the City of Minnetonka. Dahl's Cleaners and Laundry were noted in the City file as a drycleaner tenant at the Subject Property at the 4312 Parcel building and the file notes a drycleaning machine was installed in 1962.

Wenck also obtained hazardous waste files from Hennepin County Environmental. The records did not reveal any evidence of a release of hazardous materials at the Property or any major handling violations. Wenck reviewed records for Knight Machining, Inc., Mid-Tool, Liberty Tool, Practical Systems, Clean Flo Labs, and Shady Oak Veterinary Clinic.

Chemicals formerly used by Knight Machine included relatively small quantities of Stoddard Solvent, used oil, and metal working fluid. Waste generated by the Shady Oak Veterinary included Used X-Ray film, x-ray fixer, and bio-waste. Clean Flo labs reported to generate approximately 5-gallons per year of mixed lab chemicals. A letter for Mid-Tool from the MCPA noted that Mid-Tool does not generate any waste, but uses cutting oil and Stoddard Solvent in their operations. The chemicals are reportedly consumed in the process or recycled back to the machines.

City files show that the commercial structure on the 4312 Parcel was originally constructed with a septic system consisting of a 10' wide x 40' long x 8' in height septic tank and four 675-gallon concrete cesspools.

Wenck observed a vent pipe on the west side of the building on the 4312 parcel. This pipe may be associated with a former fuel tank or the former septic system.

The Subject Property was identified on the following reviewed regulatory databases in the GeoSearch™ Radius Report: Resource Conservation & Recovery Act – Generator Facilities (RCRAGR05) and Federal Facility Registry System (FRSMN) and Hazardous Waste Generator Sites (HWGS) databases due to a hazardous waste generator licenses. Other nearby sites were noted in the Geosearch report for various databases.

Wenck observed two wells on the 4312 parcel. One well is located under a stairwell in the Practical Systems space and the other well is located outside off the sidewalk north of the Ammo Craft tenant space. Wenck also observed a well in the basement of the residence at the 4292 parcel.

"This Phase I ESA has identified no recognized environmental conditions (RECs) relative to the Subject Property except for the following:

- ▲ The presence of historical machine shop and drycleaner tenants at the Subject Property that handled various oils and solvents and operated at the same time as the former septic and cesspool system is considered an REC.
- ▲ A Phase II Subsurface Investigation completed at the Subject Property identified DRO, VOCs and PCBs above MPCA and MDH established risk criteria in the soil, groundwater, concrete and soil vapor at the Subject Property. The identified release to multiple materials at the Subject Property is considered a REC.

This Phase I ESA has not identified any controlled recognized environmental conditions (CRECs) or historical recognized environmental conditions (HRECs) relative to the Subject Property.

Although not considered RECs, CRECs, or HRECs; this ESA has revealed the following items that constitute business environmental risks:

- ▲ There is a domestic well located at the Subject Property that is currently not in use on the 4292 Parcel and two wells not in use on the 4312 parcel. According to the Minnesota Department of Health, a well must be in use, be under a maintenance permit, or be sealed by a licensed contractor.
- ▲ A former septic system may still be present on the Subject Property at the 4312 Parcel on the west of the building. Septic systems no longer in use should be abandoned/decommissioned in accordance with local regulations. A septic system was not observed on the 4292 Parcel; however, a septic system may also be present on the 4292 Parcel, based on the similar time of construction."

4.0 Investigation Methods and Procedures

4.1 FIELD INVESTIGATION RATIONALE

The objective of this investigation was to investigate the scope and extent of soil impacts present at the Subject Property identified in the Wenck Phase II ESA.

Procedures for soil activities followed Wenck's standard operating procedures. Standard operating procedures were adhered to with no deviations during the implementation of the work. Methods and procedures are described below.

4.2 SOIL INVESTIGATION

The soil investigation activities were conducted on May 12, 2016. Investigation activities included the advancement of eight hollow-stem auger borings by Northern Technology, LLC (NTI). All borings were advanced to 31 feet below grade surface (bgs). The boring locations were selected to evaluate subsurface conditions in specific locations to provide good spatial coverage of the site, and to evaluate environmental conditions of the Subject Property. Proposed boring locations were adjusted based on the presence of underground or overhead utilities. The locations of underground utilities were verified prior to drilling to ensure the safe advancement of each boring. The locations of the borings are shown on **Figure 3**.

Soil was collected by NTI from a two-inch diameter, two-foot long split-spoon sampler used in conducting SPT sampling. Upon reaching each interval, the nature of the recovered soil was assessed to conduct soil classification and observed for evidence of potential contamination (i.e., odors, staining, fill material, etc.).

Soil samples were collected from the split-spoon sampler by hand using clean dedicated nitrile gloves and placed into dedicated sealable polyethylene storage bags. Vapor headspace readings were collected using a photoionization detector (PID) equipped with a 10.6 eV source lamp calibrated to an isobutylene gas standard. Soil samples from each boring were collected in dedicated glassware, placed in a cooler with ice and submitted under chain-of-custody control to Test America Laboratories, Inc. in Minneapolis, MN for laboratory analysis.

The boring location rationale and analytical parameters sampled for soil are as follows:

Boring ID	Rationale	Sample Depth	Laboratory Analysis
SB-1	Sample soil for potential impacts related to the former septic system.	0-1.5'	DRO, VOCs, PAHs, RCRA Metals, PCBs
SB-2	Sample soil for potential impacts related to the former septic system.	2-3.5'	DRO, VOCs, PAHs, RCRA Metals, PCBs
SB-3	Sample soil for potential impacts related to the former septic system.	4.5-6'	DRO, VOCs, PAHs, RCRA Metals, PCBs

SB-4	Sample soil for potential impacts related to the leaking compressor.	2-3.5'	DRO, VOCs, PAHs, RCRA Metals, PCBs
SB-5	Sample soil for potential impacts related to the leaking compressor, former drycleaner and potential impacts from fill.	2-3.5'	DRO, VOCs, PAHs, RCRA Metals, PCBs
SB-6	Sample soil for potential impacts related to the leaking compressor, former drycleaner and potential impacts from fill.	2-3.5'	DRO, VOCs, PAHs, RCRA Metals, PCBs
SB-7	Sample soil for potential impacts related to the leaking compressor, former drycleaner and potential impacts from fill.	2-3.5'	DRO, VOCs, PAHs, RCRA Metals, PCBs
SB-8	Sample soil for potential impacts related to the leaking compressor, former drycleaner and potential impacts from fill.	4.5-6'	DRO, VOCs, PAHs, RCRA Metals, PCBs

5.0 Investigation Results

5.1 SOIL

5.1.1 Geology

Wenck encountered approximately four feet of fill soils consisting of mainly dark brown to black silty sand with gravel on the Subject Property with approximately 10 feet of fill in boring SB-8 on the south side of the building. In general, the fill is underlain primarily by brown silty sand with gravel in borings SB-1 through SB-4 and brown to grey sandy clays in borings SB-5 through SB-8. Lenses of organic clay ranging from one inch to two feet in thickness were noted in SB-6 through SB-8 from 9-15 feet below grade. Soil boring logs are included in **Appendix B**.

Published references describe the surficial geology at the Subject Property as outwash consisting of sand, loamy sand, and gravel (University of Minnesota, 1989). Surficial bedrock in the vicinity of the Subject Property consists of the Platteville and Glenwood Formations at a depth of approximately 100-150 feet (University of Minnesota, 1989).

5.1.2 Soil Analytical Results

Soil investigation data compared detected concentrations of RCRA metals, VOCs, PAHs and PCBs to the Minnesota Pollution Control Agency's Tier 1 Residential and Tier 2 Industrial Soil Reference Values (SRVs). Additionally, MPCA Tier 1 Soil Leaching Values (SLVs) were referenced to evaluate the potential risk to groundwater at the Subject Property from the soil-to-groundwater leaching pathway. There are no established MPCA SRVs or SLVs for DRO.

Field Screening

A vapor headspace reading was detected at 11.6 parts per million (ppm) in sample SB-7 (2-3.5') via field screening by PID. Vapor headspace readings for VOCs were not detected above background concentrations via field screening by PID in any of the other soil borings. Vapor headspace readings and field observations are included on the soil boring logs in **Appendix B**.

DRO

DRO was detected in all eight of the soil samples collected and analyzed for DRO. Detections ranged from 0.425 mg/kg in sample SB-4 (2-3.5') to 215 mg/kg in sample SB-7 (2-3.5'). DRO was detected above 100 mg/kg in samples SB-3 (4.5-6') at 108 mg/kg, SB-6 (2-3.5') at 170 mg/kg, and SB-7 (2-3.5') at 215 mg/kg. There is no established limit for DRO in the MPCA SLVs or SRVs.

RCRA Metals

Five of the eight RCRA metals were detected in the eight samples collected and analyzed for RCRA metals with at least three metals identified in each sample. However, detected concentrations of metals do not exceed the MPCA SLVs, Residential SRVs, or Industrial SRVs.



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VOCs

PCE was detected at 0.245 mg/kg in sample SB-3 (4.5-6'). No other VOCs were detected above their respective laboratory method reporting limits in any of the other seven soil samples collected and analyzed for VOCs. The detection of PCE exceeds the MPCA SLV, but does not exceed the Residential SRV or Industrial SRV.

PCBs

PCBs were not detected in any of the eight soil samples collected and analyzed for PCBs.

PAHs

Various PAHs were detected above the method reporting limit in six of the eight soil samples collected and analyzed for PAHs. None of the samples were identified to exceed the MPCA Residential or Industrial SRVs or MPCA SLVs for individual PAHs.

Soil sample results are summarized in **Table 1**. Laboratory reports and supporting chain-of-custody documentation are included in **Appendix C**.

5.2 GROUNDWATER

5.2.1 Hydrogeology

Groundwater was encountered in each boring drilled on the Subject Property. Groundwater was encountered at approximately 13 feet below ground surface in SB-2 through SB-4 located at a lower elevation on the west side of the building. Groundwater was encountered at approximately 25 feet below grade in borings SB-5 through SB-8 which were drilled on the west side of the building starting at a higher elevation. Groundwater was also encountered at 25 feet below grade in SB-1 which also appears to be at slightly higher elevation.

The general direction of regional groundwater flow in the area of the Subject Property is noted in Minnesota Department of Natural Resources County Geologic Atlas to be to the west towards the Mississippi River. However, local conditions may vary due to surface water features, perched groundwater conditions or artificially created drainage systems. Depth to regional groundwater is noted to be approximately 25 feet below ground surface (MN Department of Natural Resources, 1989).

6.0 Discussion

6.1 SOIL DISCUSSION

The detection of DRO in SB-3 (4.5-6'), SB-6 (2-3.5) and SB-7 (2-3.5) over 100 mg/kg indicates that impacts are concentrated in the surficial fill soil in the northeastern and central portion of the Subject Property but low-level impacts are also present in the fill soil across the Subject Property, along with PCE and PCBs exceeding the MPCA SLV. The lack of further detections of PCBs in any of the soil borings indicates that the extent of PCB contamination appears to be limited to the vicinity of boring GP-1A (0-2'). With the soil detections of PCBs and PCE above the MPCA SLV and the multiple detections of DRO in fill over 100 mg/kg, the future redevelopment of the Subject Property and soil management should be conducted under an approved MPCA Response Action Plan.

The MPCA document "Best Management Practices for the Off-Site Reuse of Unregulated Fill," dated February 2012, defines unregulated fill as excess soil in which a release of contaminants has been identified at concentrations less than the MPCA's most conservative risk-based values. The criteria for unregulated fill are described as the following:

- ▲ Soil free from solid waste, debris, asbestos containing material, visual staining, and chemical odor;
- ▲ Organic vapors less than 10 ppm as measured by a PID;
- ▲ For petroleum impacted soil, less than 100 mg/kg DRO/GRO;
- ▲ For contaminants detected in soil, less than the MPCA's Residential SRVs and MPCA Tier 1 SLVs.

Wenck recommends removal of the former septic system components as part of the proposed redevelopment. Additional assessment of soil may be necessary at the time of the removal of the former septic system components.

7.0 Conclusions

Based on the field observations and laboratory analysis of the additional soil samples collected and analyzed from the Subject Property and the previous findings, Wenck submits the following conclusions and recommendations:

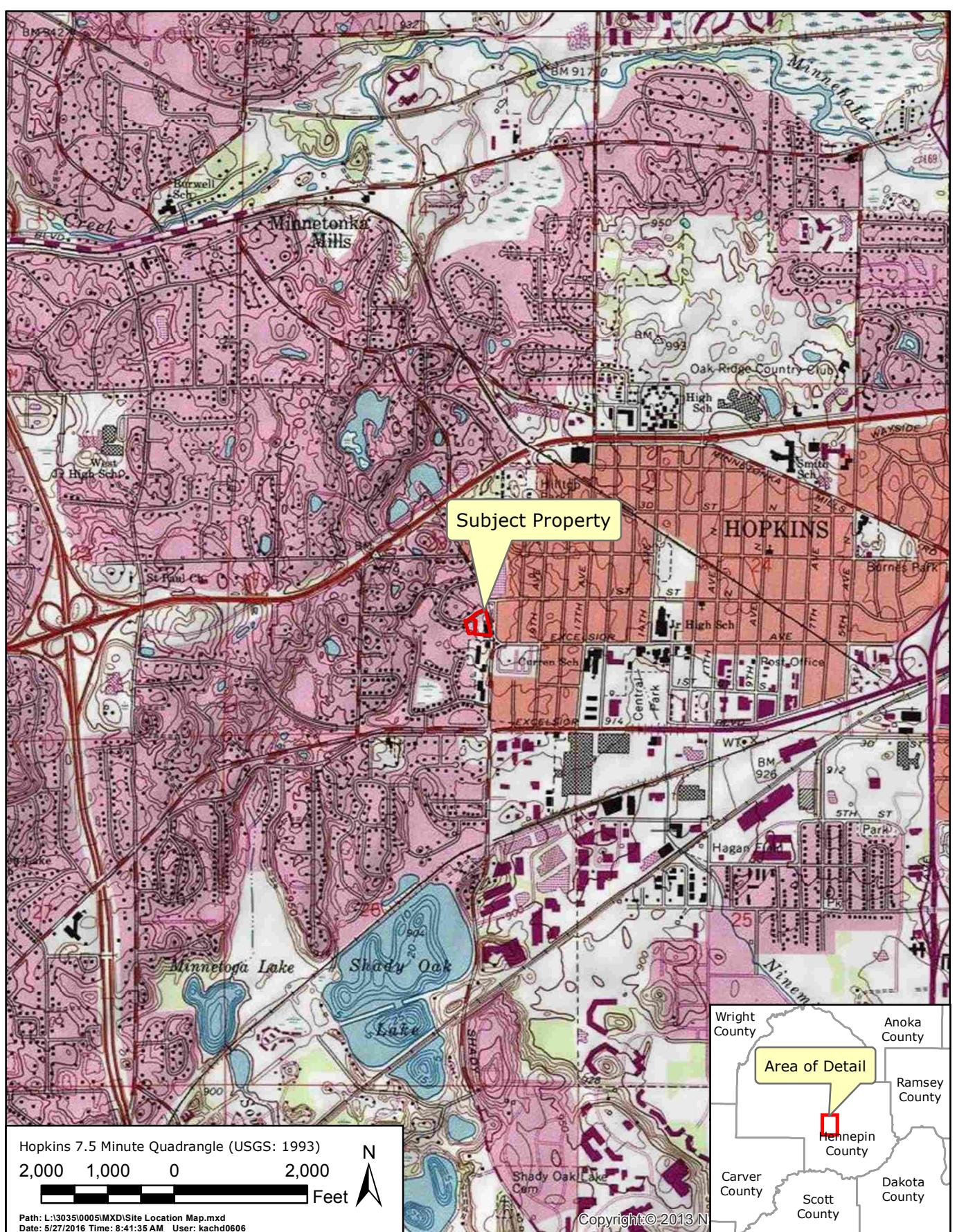
1. Enroll the Subject Property in the MPCA Voluntary Investigation and Cleanup (VIC) Program and Petroleum Brownfields (PB) Program;
2. Apply for a No Association Determination related to the elevated detection of PCBs and PCE in soil, PCE and acetone in groundwater, and PCE and TCE in soil vapor from the VIC Program. The submittal will include a proposed actions letter for the proposed use of the Subject Property.
3. When development plans are known, submit a Response Action Plan to the MPCA Voluntary Brownfield Programs (VIC and the Petroleum Brownfield Program) for review and approval.
4. Apply for a Non-tank Closure Letter from the Petroleum Brownfields Program for the low-level detections of DRO in soil and groundwater at the Subject Property.
5. Wenck recommends the City remove and dispose of the former septic system as part of future redevelopment as an environmental development response action.
6. Wenck recommends collecting bulk samples of the concrete stained with the PCB containing oil prior to demolition to determine if the concrete will require special handling.



Mark G. Davidson, PG (MN)
Geologist

Adam P. Zobel
Senior Environmental Project Manager

Figures



4132 SHADY OAK ROAD

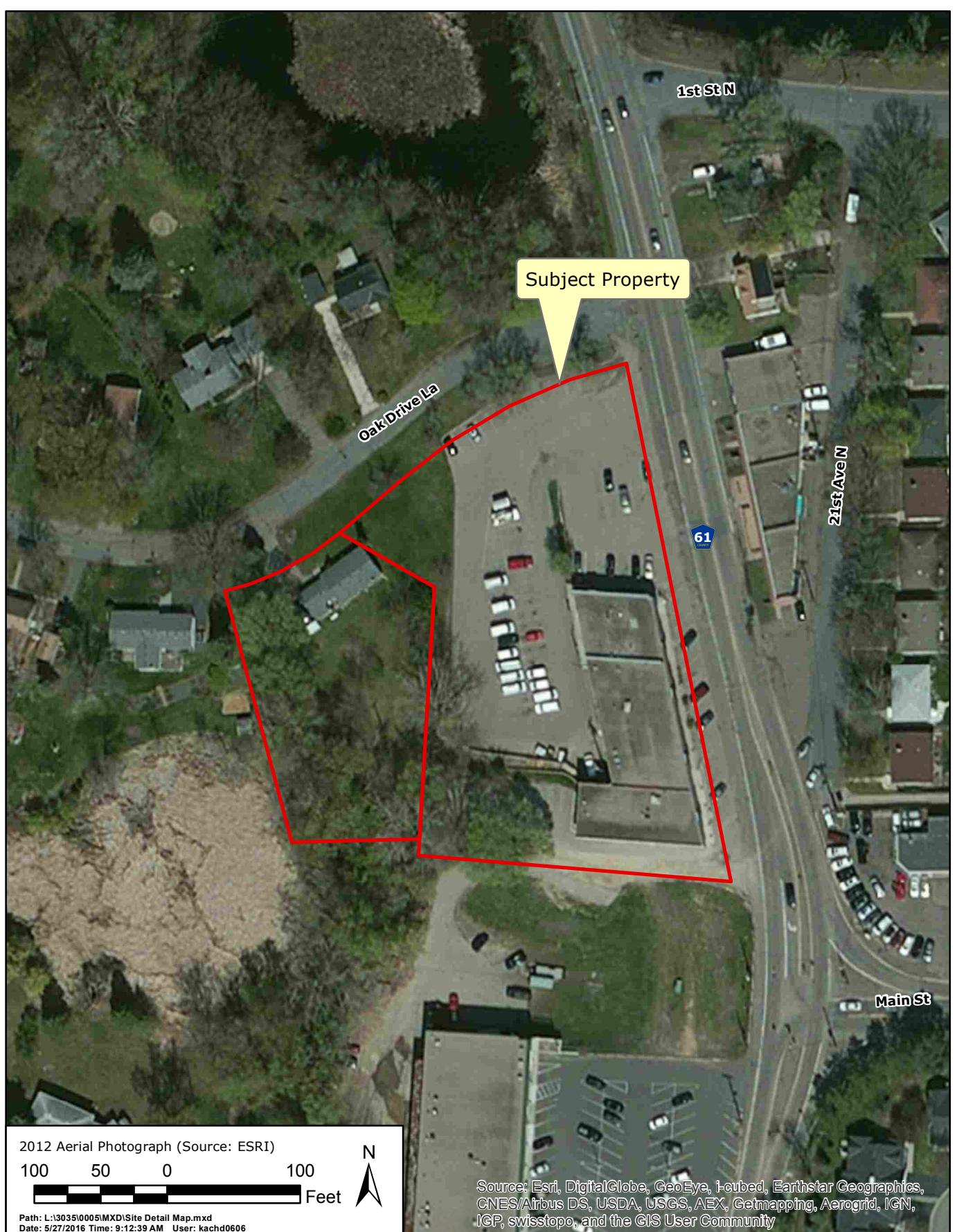
Site Location Map

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MAY 2016

Figure 1



2012 Aerial Photograph (Source: ESRI)

100 50 0 100
[Scale bar] Feet



Path: L:\3035\0005\MXD\Site Detail Map.mxd
Date: 5/27/2016 Time: 9:12:39 AM User: kachd0606

Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

4132 SHADY OAK ROAD

Site Detail Map


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Figure 2



2012 Aerial Photograph (Source: ESRI)

100 50 0 100
[Scale Bar] Feet



Path: L:\3035\0005\MXD\Sample Location Map.mxd
Date: 5/27/2016 Time: 9:21:51 AM User: kachd0606

Source: Esri, Digital
CNES/Airbus DS, U
IGP, swisstopo, and

Legend

Sample Locations (Wenck 2016)

Subject Property

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Sampling Locations

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Figure 3



4132 SHADY OAK ROAD

Historic Sampling Locations



Responsive partner. Exceptional outcomes.

MAY 2016

Figure 4

Tables

Table 1
Soil Analytical Results Summary
4312 Shady Oak Road
Minnetonka, MN
Wenck Project No. 3035-0005
June 2016

Analyte	Units	MPCA SLV	MPCA Residential SRV	MPCA Industrial SRV	GP-1 (10-15') 10/30/2014	GP-1A (0-2') 10/30/2014	GP-2 (10-15') 10/30/2014	GP-3 (0-2') 10/30/2014	GP-4 (4-5') 10/30/2014	GP-5 (3-5') 10/30/2014	SB-1 (0-1.5) 05/12/2016	SB-2 (2-3.5) 05/12/2016	SB-3 (4.5-6) 05/13/2016	SB-4 (2-3.5) 05/13/2016	SB-5 (2-3.5) 05/12/2016	SB-6 (2-3.5) 05/12/2016	SB-7 (2-3.5) 05/12/2016	SB-8 (4.5-6) 05/13/2016
Deisel Range Organics																		
Diesel Range Organics (DRO)	mg/Kg	NE	NE	NE	<7.10	494	<6.01	39.7	<7.03	9.99	10.2	24.9	108	42.5	28.1	170	215	33.2
Volatile Organic Compounds																		
Tetrachloroethene	mg/Kg	0.04	72	131	ND	ND	ND	ND	ND	ND	<0.108	<0.106	0.245	<0.106	<0.114	<0.110	<0.113	<0.105
Polynuclear Aromatic Hydrocarbons																		
Anthracene	mg/Kg	1300	7880	45400	<0.0104	<0.102	<0.0107	<0.106	<0.0121	NA	<0.106	<0.101	<0.0982	<0.105	<0.111	<0.413	<0.115	<0.103
Benzof[a]anthracene	mg/Kg	NE	NE	NE	<0.0104	<0.102	<0.0107	0.158	0.0264	NA	<0.106	0.259	0.342	0.289	0.125	<0.413	0.136	<0.103
Benzof[b]fluoranthene	mg/Kg	NE	NE	NE	<0.0104	0.202	<0.0107	0.25	0.0456	NA	<0.106	0.463	0.484	0.482	0.322	<0.413	0.222	0.139
Benzof[a]pyrene	mg/Kg	1.4	2	3	<0.0104	0.133	<0.0107	0.2	0.0317	NA	<0.106	0.331	0.342	0.356	0.173	<0.413	0.170	<0.103
2-Methylnaphthalene	mg/Kg	100	369	<0.0104	<0.102	<0.0107	<0.106	<0.0121	NA	<0.106	<0.101	<0.0982	<0.105	<0.111	<0.413	<0.115	<0.103	
Naphthalene	mg/Kg	4.5	10	28	<0.0104	<0.102	<0.0107	<0.106	<0.0121	NA	<0.106	<0.101	<0.0982	<0.105	<0.111	<0.413	<0.115	<0.103
Acenaphthylene	mg/Kg	NE	NE	NE	<0.0104	<0.102	<0.0107	<0.106	<0.0121	NA	<0.106	<0.101	<0.0982	<0.105	<0.111	<0.413	<0.115	<0.103
Acenaphthene	mg/Kg	81	1200	5260	<0.0104	<0.102	<0.0107	<0.106	<0.0121	NA	<0.106	<0.101	<0.0982	<0.105	<0.111	<0.413	<0.115	<0.103
Benzof[g,h,i]perylene	mg/Kg	NE	NE	NE	<0.0104	0.131	<0.0107	0.132	0.0205	NA	<0.106	0.222	0.171	0.284	0.182	<0.413	0.121	0.110
Indeno[1,2,3-cd]pyrene	mg/Kg	NE	NE	NE	<0.0104	<0.102	<0.0107	<0.106	0.0177	NA	<0.106	0.185	0.125	0.203	0.138	<0.413	<0.115	<0.103
Fluorene	mg/Kg	110	850	4120	<0.0104	<0.102	<0.0107	<0.106	<0.0121	NA	<0.106	<0.101	<0.0982	<0.105	<0.111	<0.413	<0.115	<0.103
Pyrene	mg/Kg	440	890	5800	<0.0104	0.115	<0.0107	0.133	0.0343	NA	<0.106	0.466	0.601	0.493	0.205	<0.413	0.246	0.267
Phenanthrene	mg/Kg	NE	NE	NE	<0.0104	<0.102	<0.0107	<0.106	0.0374	NA	<0.106	0.141	0.197	0.113	<0.111	<0.413	<0.115	0.157
Chrysene	mg/Kg	NE	NE	NE	<0.0104	0.143	<0.0107	0.196	0.0364	NA	<0.106	0.299	0.369	0.321	0.168	<0.413	0.157	<0.103
Benzof[b]fluoranthene	mg/Kg	NE	NE	NE	<0.0104	<0.102	<0.0107	<0.106	0.0182	NA	<0.106	0.144	0.143	0.144	0.115	<0.413	<0.115	<0.103
Fluoranthene	mg/Kg	670	1080	6800	<0.0104	0.152	<0.0107	0.129	0.0425	NA	<0.106	0.466	0.553	0.423	0.194	<0.413	0.216	0.165
Dibenz(a,h)anthracene	mg/Kg	NE	NE	NE	<0.0104	<0.102	<0.0107	<0.106	<0.0121	NA	<0.106	<0.101	<0.0982	<0.105	<0.111	<0.413	<0.115	<0.103
BaP Equivalent Calculation	mg/Kg	1.4	2	3	<0.0104	0.155	<0.0107	0.243	0.043	NA	<0.106	0.439	0.455	0.471	0.244	<0.413	0.207	0.014
Polychlorinated Biphenyls																		
PCB-1260	mg/Kg	0.1	1.2	8	NA	0.104	NA	<0.0538	NA	NA	<0.0539	<0.0525	<0.0524	<0.0514	<0.0575	<0.0548	<0.0569	<0.0508
PCB-1254	mg/Kg	0.1	1.2	8	NA	0.161	NA	<0.0538	NA	NA	<0.0539	<0.0525	<0.0524	<0.0514	<0.0575	<0.0548	<0.0569	<0.0508
PCB-1016	mg/Kg	0.1	1.2	8	NA	<0.0532	NA	<0.0538	NA	NA	<0.0539	<0.0525	<0.0524	<0.0514	<0.0575	<0.0548	<0.0569	<0.0508
PCB-1268	mg/Kg	0.1	1.2	8	NA	<0.0532	NA	<0.0538	NA	NA	<0.0539	<0.0525	<0.0524	<0.0514	<0.0575	<0.0548	<0.0569	<0.0508
PCB-1322	mg/Kg	0.1	1.2	8	NA	<0.0532	NA	<0.0538	NA	NA	<0.0539	<0.0525	<0.0524	<0.0514	<0.0575	<0.0548	<0.0569	<0.0508
PCB-1221	mg/Kg	0.1	1.2	8	NA	<0.0532	NA	<0.0538	NA	NA	<0.0539	<0.0525	<0.0524	<0.0514	<0.0575	<0.0548	<0.0569	<0.0508
PCB-1248	mg/Kg	0.1	1.2	8	NA	<0.0532	NA	<0.0538	NA	NA	<0.0539	<0.0525	<0.0524	<0.0514	<0.0575	<0.0548	<0.0569	<0.0508
PCB-1242	mg/Kg	0.1	1.2	8	NA	<0.0532	NA	<0.0538	NA	NA	<0.0539	<0.0525	<0.0524	<0.0514	<0.0575	<0.0548	<0.0569	<0.0508
Polychlorinated biphenyls, Total	mg/Kg	0.1	1.2	8	NA	0.265	NA	<0.0538	NA	NA	<0.0539	<0.0525	<0.0524	<0.0514	<0.0575	<0.0548	<0.0569	<0.0508
RCRA Metals																		
Chromium	mg/Kg	36 (VI)	87 (VI)	650 (VI)	6.69	5.59	11.7	10.9	17.2	13.2	16.2	12.6	14.0	11.0	13.0	14.8	13.3	10.4
Cadmium	mg/Kg	8.8	25	200	<0.785	<3.21	<0.838	<0.821	<1.73	<0.861	<0.992	<1.91	<1.76	<0.981	<1.13	<0.911	<2.24	<2.02
Barium	mg/Kg	1700	1100	18000	13.7	145	28.7	43.2	164	58.6	36.7	42.5	36.7	34.1	36.0	56.3	48.4	26.0
Silver	mg/Kg	7.9	160	1300	<0.785	<3.21	<0.838	<0.821	<1.73	<0.861	<0.992	<1.91	<1.76	<0.981	<1.13	<0.911	<2.24	<2.02
Selenium	mg/Kg	2.6 ^b	160	1300	<5.89	<24.1	<6.28	<6.16	<13.0	<6.45	<1.04	<1.04	<1.04	<1.04	<1.13	<0.963	<1.01	<0.898
Lead	mg/Kg	2700	300	700	<3.92	<16.1	<4.19	4.85	30.9	11.1	<4.96	16.3	8.80	9.69	<5.67	9.38	15.8	<10.1
Arsenic	mg/Kg	5.8	9	20	1.4	2.76	1.92	2.47	4.19	3.57	2.16	2.56	1.82	2.29	2.29	2.32	2.85	2.11
Mercury	mg/Kg	3.3	0.5	1.5	<0.0183	<0.0204	0.0211	<0.0202	<0.0208	<0.0186	<0.0214	<0.0211	<0.0203	<0.0192	<0.0212	<0.0199	<0.0214	0.0979

NA = Not Analyzed

mg/kg = PPM

BOLD = The sample exceeded one or more action limits for that parameter

MPCA = Minnesota Pollution Control Agency

SRV = Soil Reference Value

SLV = Soil Leaching Value

BaP Equivalent = Benzo(a)pyrene equivalent calculation (MPCA September 2006 Version)

NE = Not Established

RCRA = Resource Conservation and Recovery Act

VOCs = Volatile Organic Compounds

PAHs = Polynuclear Aromatic Hydrocarbons

DRO = Diesel Range Organics

PCBs = Polychlorinated Biphenyls

Table 2
Groundwater Analytical Results Summary
4312 Shady Oak Road
Minnetonka, MN
Wenck Project No. 5170-0001/3035-0005
November 2014/June 2016

Analyte	Units	Basis	MDH/MPCA Drinking Water Criteria/HRL/MDH HBV	GP-2 10/30/2014	GP-4 10/30/2014	GP-5 10/30/2014
Diesel Range Organics (DRO)						
Diesel Range Organics (DRO)	ug/L	Total	NE	21.2	314	267
Volatile Organic Compounds (VOCs)						
Tetrachloroethene	ug/L	Total	4	1.81	1.23	<1.00
Acetone	ug/L	Total	4000	12.2	<10.0	<10.0

MPCA = Minnesota Pollution Control Agency

MDH = Minnesota Department of Health

HRL = Health Risk Limit

HBV = Health Based Value

ug/L = parts per billion

NE = Not Established

Table 3
Soil Vapor Results Summary
4312 Shady Oak Road
Minnetonka, MN
Wenck Project No. 5170-0001/3035-0001
November 2014/June 2016

Analyte	10x MPCA Residential ISV	10x MPCA Industrial ISV	SV-1 10/30/2014 2:00 PM	SV-2 10/30/2014 4:33 PM
Volatile Organic Compounds EPA Method TO-15 (ug/m³)				
1,1,1-Trichloroethane	50000	100000	ND	3.1
1,2,4-Trimethylbenzene	70	200	2	ND
1,3-Butadiene	3	27	4.4	11
Acetone	310000	870000	23	38
Benzene	46	450	6.8	7
Cyclohexane	60000	200000	0.73	2
Ethylbenzene	41	390	4.4	3.3
m,p-Xylene	1000	3000	13	6.3
Methyl Ethyl Ketone	50000	100000	5.4	11
n-Heptane	NE	NE	4.4	5.4
n-Hexane	20000	60000	6.3	7.3
Propylene	30000	80000	28	79
Styrene	10000	30000	0.91	ND
Tetrachloroethene	33	330	130	ND
Toluene	50000	100000	32	20
Trichloroethene	20	60	20	ND
Trichlorofluoromethane	7000	20000	1.4	ND
Xylene, o-	1000	3000	4.9	3

EPA = Environmental Protection Agency

MPCA = Minnesota Pollution Control Agency

PRP = Petroleum Remediation Program

ISV = Intrusion Screening Value

BOLD

Parameter Exceeds Action Level

VOCs = Volatile Organic Compounds

NE = Not Established

Appendix A

Soil Boring Logs



LOG OF BORING SB-1

(Page 1 of 1)

Responsive partner. Exceptional outcomes.

Shady Oak Road Supplemental Soil Investigation 4312 Shady Oak Road		Date Started : 5/12/16	Ground Elevation : 930 ft. ASL					
Minnetonka, MN		Date Completed : 5/12/16	Drilling Company : NTI					
Project # 3035-0005		Hole Diameter : 6"	Driller(s) : Carl and Dan					
Surf. Elev. 930		Sampling Method : Hollow Stem Auger	Logged By : KJJ					
USCS GRAPHIC		Sampling Method : Split Spoon	Checked By : MGD					
Depth in Feet		Sample Type Analytical Soil Sample	Water Levels During Drilling	Water Level	Sample Recovery (%)	PID Result (ppm)	Analytical Sample	REMARKS
		DESCRIPTION						
0	930	FB	Asphalt		100	1.2		
		SW	CLAYEY SAND, red-brown, with gravel, moist (fill).		70	0.8		
5	925	SC	SANDY CLAY, dark grey, soft, with gravel, moist.		80	1.0		
		SW	CLAYEY SAND, red-brown, with gravel, moist.		5	1.3		
10	920	SC	Medium stiff.		90	0.5		
		SW			60	0.8		
15	915	SC	SANDY CLAY, grey-brown, some gravel, medium stiff, moist.		40	1.0		
		SC			10	0.5		
20	910	SC	SANDY CLAY, grey, some gravel, stiff, very moist to wet.					
		SW			50	0.6		
25	905	CL	SILTY SAND, brown, fine to medium grained, wet.	▼				
		SW			100	0.3		
30		CL	SANDY CLAY, grey, fine grained, medium stiff, wet.					



LOG OF BORING SB-2

(Page 1 of 1)

Responsive partner. Exceptional outcomes.

Shady Oak Road Supplemental Soil Investigation 4312 Shady Oak Road		Date Started : 5/12/16	Ground Elevation : 930 ft. ASL
Minnetonka, MN		Date Completed : 5/12/16	Drilling Company : NTI
Project # 3035-0005		Hole Diameter : 6"	Driller(s) : Carl and Dan
		Drilling Method : Hollow Stem Auger	Logged By : KJJ
		Sampling Method : Split Spoon	Checked By : MGD
Depth in Feet	Surf. Elev. 930	USCS GRAPHIC	Sample Type Analytical Soil Sample Water Levels During Drilling
		DESCRIPTION	
0	930	FB	Asphalt SILTY SAND, dark brown, with gravel, moist (fill).
5	925	SW	SILTY SAND, red-brown, traces of gravel, moist.
10	920	SW	SILTY SAND, red-brown, with coarse gravel to cobble, moist.
15	915	SW	SILTY SAND, brown, fine to medium grained, with gravel, wet.
20	910	SW	SILTY SAND, brown, coarse grained some gravel, wet.
25	905	SW	SILTY SAND, brown, coarse grained, some gravel and clay, wet.
30		SW	SAND, Well Graded, brown, some gravel and clay, wet.
			Water Level
			Sample Recovery (%)
			PID Result (ppm)
			Analytical Sample
			REMARKS



LOG OF BORING SB-3

(Page 1 of 1)

Responsive partner. Exceptional outcomes.

Shady Oak Road Supplemental Soil Investigation 4312 Shady Oak Road		Date Started : 5/12/16	Ground Elevation : 930 ft. ASL
Minnetonka, MN		Date Completed : 5/12/16	Drilling Company : NTI
Project # 3035-0005		Hole Diameter : 6"	Driller(s) : Carl and Dan
		Drilling Method : Hollow Stem Auger	Logged By : KJJ
		Sampling Method : Split Spoon	Checked By : MGD
Depth in Feet	Surf. Elev. 930	USCS GRAPHIC	Sample Type Analytical Soil Sample Water Levels During Drilling
		DESCRIPTION	
0	930	FB	Asphalt
		SW	CLAYEY SAND, red-brown, with gravel, moist (fill).
		SW	SILTY SAND, black, trace of ash, moist (fill).
5	925		
10	920	SW	SILTY SAND, tan, fine grained, moist. With gravel Fine to medium grained.
15	915		SILTY SAND, brown, coarse grained, with gravel, wet.
20	910		
25	905	SW	
30			Coarse gravel.
			Water Level
			Sample Recovery (%)
			PID Result (ppm)
			Analytical Sample
			REMARKS



LOG OF BORING SB-4

(Page 1 of 1)

Responsive partner. Exceptional outcomes.

Shady Oak Road Supplemental Soil Investigation 4312 Shady Oak Road		Date Started : 5/12/16	Ground Elevation : 930 ft. ASL
Minnetonka, MN		Date Completed : 5/12/16	Drilling Company : NTI
Project # 3035-0005		Hole Diameter : 6"	Driller(s) : Carl and Dan
		Drilling Method : Hollow Stem Auger	Logged By : KJJ
		Sampling Method : Split Spoon	Checked By : MGD
Depth in Feet	Surf. Elev. 930	USCS GRAPHIC	Sample Type Analytical Soil Sample Water Levels During Drilling
		DESCRIPTION	
0	930	FB SW SW	<p>Asphalt</p> <p>SILTY SAND, black, with gravel, moist (fill).</p> <p>SILTY SAND, dark brown, with gravel, trace concrete, moist (fill).</p>
5	925	SW	<p>SILTY SAND, light brown, moist.</p> <p>Medium grained with gravel.</p> <p>Medium to coarse grained with gravel.</p> <p>Coarse gravel.</p>
10	920	SW	<p>SILTY SAND, brown, coarse grained, small pockets of clay, wet.</p> <p>Medium to coarse grained with gravel.</p>
15	915	SW	<p>Medium to coarse grained with gravel.</p>
20	910	SW	<p>Coarse gravel.</p>
25	905	SW	
30			



LOG OF BORING SB-5

(Page 1 of 1)

Responsive partner. Exceptional outcomes.

Shady Oak Road Supplemental Soil Investigation 4312 Shady Oak Road		Date Started : 5/12/16	Ground Elevation : 930 ft. ASL
Minnetonka, MN		Date Completed : 5/12/16	Drilling Company : NTI
Project # 3035-0005		Hole Diameter : 6"	Driller(s) : Carl and Dan
		Drilling Method : Hollow Stem Auger	Logged By : KJJ
		Sampling Method : Split Spoon	Checked By : MGD
Depth in Feet	Surf. Elev. 930	USCS GRAPHIC	Sample Type Analytical Soil Sample Water Levels During Drilling
		DESCRIPTION	
0	930	FB	Asphalt
		SW	CLAYEY SAND, red-brown, traces of gravel, moist (fill).
		SW	SILTY SAND, brown, medium grained, with gravel, moist.
5	925	SW	SILTY SAND, dark brown, with gravel, moist.
			SANDY CLAY, red-brown, fine grained, medium stiff, moist.
10	920		Very moist to wet.
15	915	SC	
20	910		Wet
25	905	CH	CLAY, grey, stiff, some sand, moist.
30			
			Water Level
			Sample Recovery (%)
			PID Result (ppm)
			Analytical Sample
			REMARKS



**WENCK
ASSOCIATES**

LOG OF BORING SB-6

(Page 1 of 1)

Responsive partner. Exceptional outcomes.

Shady Oak Road
Supplemental Soil Investigation
4312 Shady Oak Road

Minnetonka, MN

Project # 3035-0005

Project # 3035-0005 Sampling Method :

Date Started : 5/12/16

Date Completed : 5/12/16

Hole Diameter : 6"

Drilling Method : Hollow S

Sampling Method : Split Spoon

Water Levels

Ground Elevation : 930 ft. ASL

Drilling Company : NTI

Driller(s) :

Logged By : KJJ

Checked By : MGD



LOG OF BORING SB-7

(Page 1 of 1)

Responsive partner. Exceptional outcomes.

Shady Oak Road Supplemental Soil Investigation 4312 Shady Oak Road		Date Started : 5/12/16	Ground Elevation : 930 ft. ASL
Minnetonka, MN		Date Completed : 5/12/16	Drilling Company : NTI
Project # 3035-0005		Hole Diameter : 6"	Driller(s) : Carl and Dan
		Drilling Method : Hollow Stem Auger	Logged By : KJJ
		Sampling Method : Split Spoon	Checked By : MGD
Depth in Feet	Surf. Elev. 930	USCS GRAPHIC	Sample Type Analytical Soil Sample Water Levels During Drilling
		DESCRIPTION	
0	930	FB	Asphalt
		SW	SILTY SAND, brown, with gravel, some clay, moist (fill).
		SW	SILTY SAND, dark brown to black, with gravel, trace ash, moist.
5	925	SW	SILTY SAND, red-brown, with gravel , moist.
		SC	SANDY CLAY, red-brown, some gravel, medium stiff, moist. Stiff with trace gravel.
10	920	SC	SANDY CLAY, black, traces of gravel, moist, slight organic odor.
15	915	SC	SANDY CLAY, dark grey, traces of gravel, medium stiff, moist.
20	910	SC	SANDY CLAY, red-brown, fine grained, traces of gravel, medium stiff, moist.
25	905	SW	CLAYEY SAND, brown, fine to coarse grained, some gravel, wet. Coarse gravel.
30			



LOG OF BORING SB-8

(Page 1 of 1)

Responsive partner. Exceptional outcomes.

Shady Oak Road Supplemental Soil Investigation 4312 Shady Oak Road		Date Started : 5/12/16	Ground Elevation : 930 ft. ASL					
Minnetonka, MN		Date Completed : 5/12/16	Drilling Company : NTI					
Project # 3035-0005		Hole Diameter : 6"	Driller(s) : Carl and Dan					
Surf. Elev. 930		Sampling Method : Hollow Stem Auger	Logged By : KJJ					
USCS GRAPHIC		Sampling Method : Split Spoon	Checked By : MGD					
Depth in Feet		Sample Type Analytical Soil Sample	Water Levels During Drilling	Water Level	Sample Recovery (%)	PID Result (ppm)	Analytical Sample	REMARKS
		DESCRIPTION						
0	930	FB	Asphalt		100	0.6		
		SW	SILTY SAND, dark brown, with gravel, moist (fill). Trace Ash		50	0.4		
	925	SW	Trace clay.		60	0.4	■	
	920	SW	SILTY SAND, light brown, some gravel, moist.		40	0.4		
	915	SW	CLAYEY SAND, brown, some gravel, moist.		90	0.3		
	910	SC	SANDY CLAY, brown, traces of gravel, moist. Black lens with organics		50	0.4		
	905	SC	SANDY CLAY, brown, with gravel, moist. Higher sand content, tan color.		90	0.4		
	900	SW	SILTY SAND, brown, coarse grained, with gravel, small pockets of clay, wet.		50	0.4		
	895	SC	SILTY SAND, tan, fine to medium grained, some gravel, wet.	▼	60	0.5		
	890	SC			50	0.3		

WENCK
Engineers, Scientists, Business Professionals

LOG OF BORING GP-1

(Page 1 of 1)

City of Minnetonka Site Investigation 4312 Shady Oak Road Project # B5170-0001			Date Started : 10/30/14 Date Completed : 10/30/14 Hole Diameter : 2" Drilling Method : Geoprobe Sampling Method : Dual Tube	Ground Elevation : Northing Coord. : Easting Coord. : Logged By : DJL Checked By : DJL					
Depth in Feet	USCS	GRAPHIC	Sample Type ■ Analytical Soil Sample □ Analytical Water Sample	Water Levels ▼ After Drilling ▽ During Drilling	Water Level	Sample Recovery (in)	PID Result (PPM)	Analytical Sample	Remarks
DESCRIPTION									
0			SILTY SAND with GRAVEL, brown, medium grained, moist, (Fill)			28	0		PID reading for GP-1A (0-2') = 16.7 PPM
5	SM		larger gravel and rocks 5 to 10 feet			5	0		
10	SP		SAND, Poorly Graded, brown, fine to medium grained, wet			24	0	■	
15			E.O.B. @ 15'						
20									
25									
30									
Notes: Refusal on two attempts at GP-1 location before getting beyond 2', likely resulting from septic tank. 0 to 2' sample of first refusal exhibited a possible petroleum odor - this sample was submitted for laboratory analysis (GP-1A).									

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Engineers, Scientists, Business Professionals

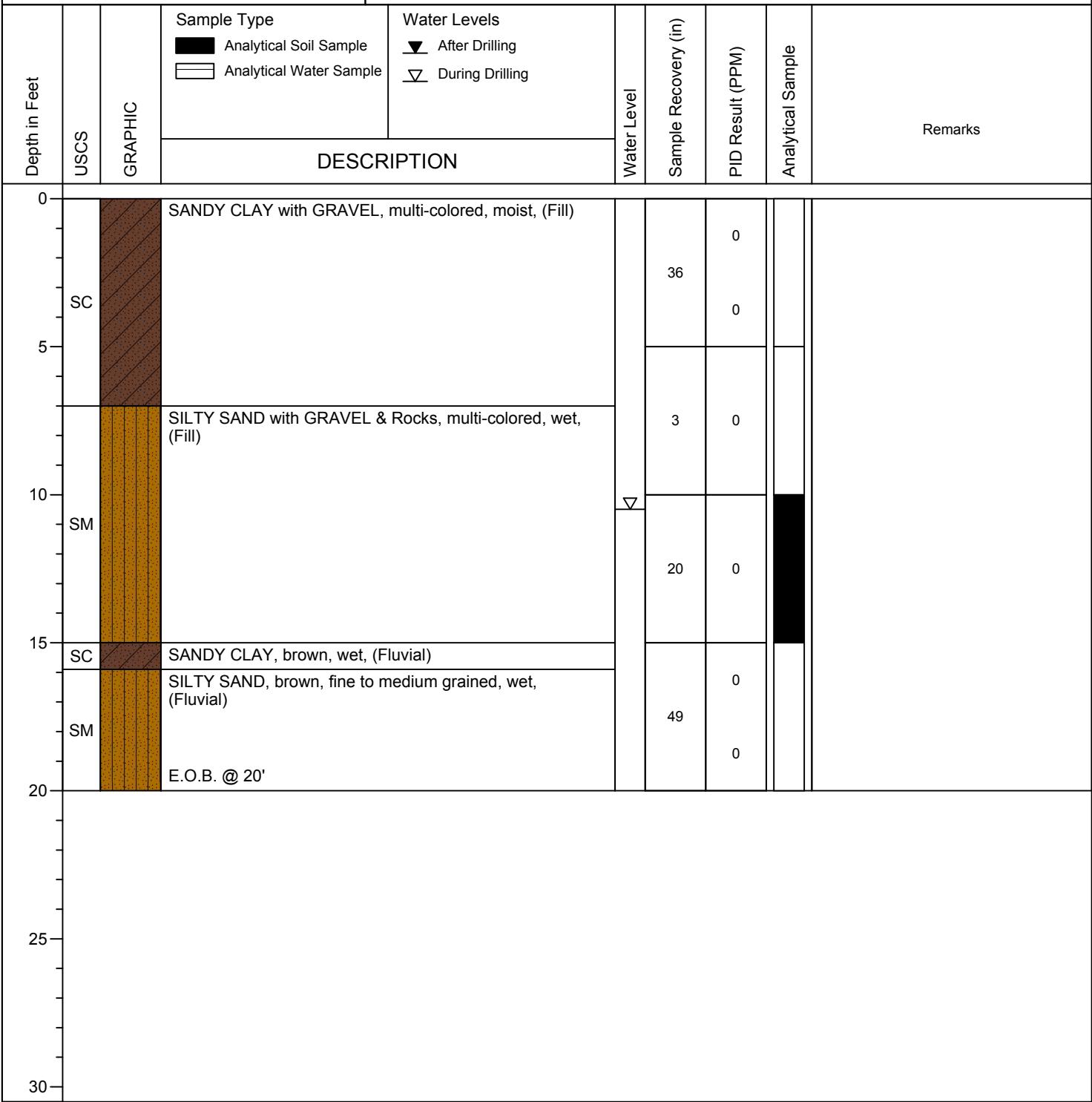
LOG OF BORING GP-2

(Page 1 of 1)

City of Minnetonka
Site Investigation
4312 Shady Oak Road

Project # B5170-0001

Date Started : 10/30/14 Ground Elevation :
 Date Completed : 10/30/14 Northing Coord. :
 Hole Diameter : 2" Easting Coord. :
 Drilling Method : Geoprobe Logged By : DJL
 Sampling Method : Dual Tube Checked By : DJL



Notes: 1" PVC screen set at 10 to 20 feet for groundwater sample

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LOG OF BORING GP-3

(Page 1 of 1)

City of Minnetonka Site Investigation 4312 Shady Oak Road Project # B5170-0001			Date Started : 10/30/14 Date Completed : 10/30/14 Hole Diameter : 2" Drilling Method : Geoprobe Sampling Method : Dual Tube	Ground Elevation : Northing Coord. : Easting Coord. : Logged By : DJL Checked By : DJL					
Depth in Feet	USCS	GRAPHIC	Sample Type ■ Analytical Soil Sample □ Analytical Water Sample	Water Levels ▼ After Drilling ▽ During Drilling	Water Level	Sample Recovery (in)	PID Result (PPM)	Analytical Sample	Remarks
DESCRIPTION									
0	SM		SILTY SAND, brown to dark brown, fine to medium grained, moist, (Fill)			24	0	■	
5	SP		SAND, Poorly Graded with GRAVEL, brown, fine to medium grained, moist, (Fluvial)			24	0	□	
10	SM		SILTY SAND with GRAVEL, brown, fine to medium grained, wet at 12' (Fluvial) Rocks 12 to 15 feet E.O.B. @ 15'			21	0	□	
15									
20									
25									
30									
Notes:									

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LOG OF BORING GP-4

(Page 1 of 1)

City of Minnetonka Site Investigation 4312 Shady Oak Road Project # B5170-0001			Date Started : 10/30/14 Date Completed : 10/30/14 Hole Diameter : 2" Drilling Method : Geoprobe Sampling Method : Dual Tube	Ground Elevation : Northing Coord. : Easting Coord. : Logged By : DJL Checked By : DJL					
Depth in Feet	USCS	GRAPHIC	Sample Type ■ Analytical Soil Sample □ Analytical Water Sample	Water Levels ▼ After Drilling ▽ During Drilling	Water Level	Sample Recovery (in)	PID Result (PPM)	Analytical Sample	Remarks
DESCRIPTION									
0	SM	SILTY SAND with GRAVEL, brown, fine to medium grained, moist, (Fill)			28	0			
5	CL	CLAYdark brown, wet, (Fill)			24	0	■		
10	SM	SILTY SAND with GRAVEL, brown, fine to medium grained, moist			15	0			
15	SP	GRAVELLY SAND, Poorly Graded, brown, fine to medium grained, wet, (Fluvial)		▽	24	0			
20	SP	GRAVELLY SAND, Poorly Graded, grey, fine to medium grained, wet, (Fluvial) E.O.B. @ 20'				0			
25									
30									
Notes: 1" PVC screen set at 6 to 16 feet for groundwater sample (hole collapsed)									

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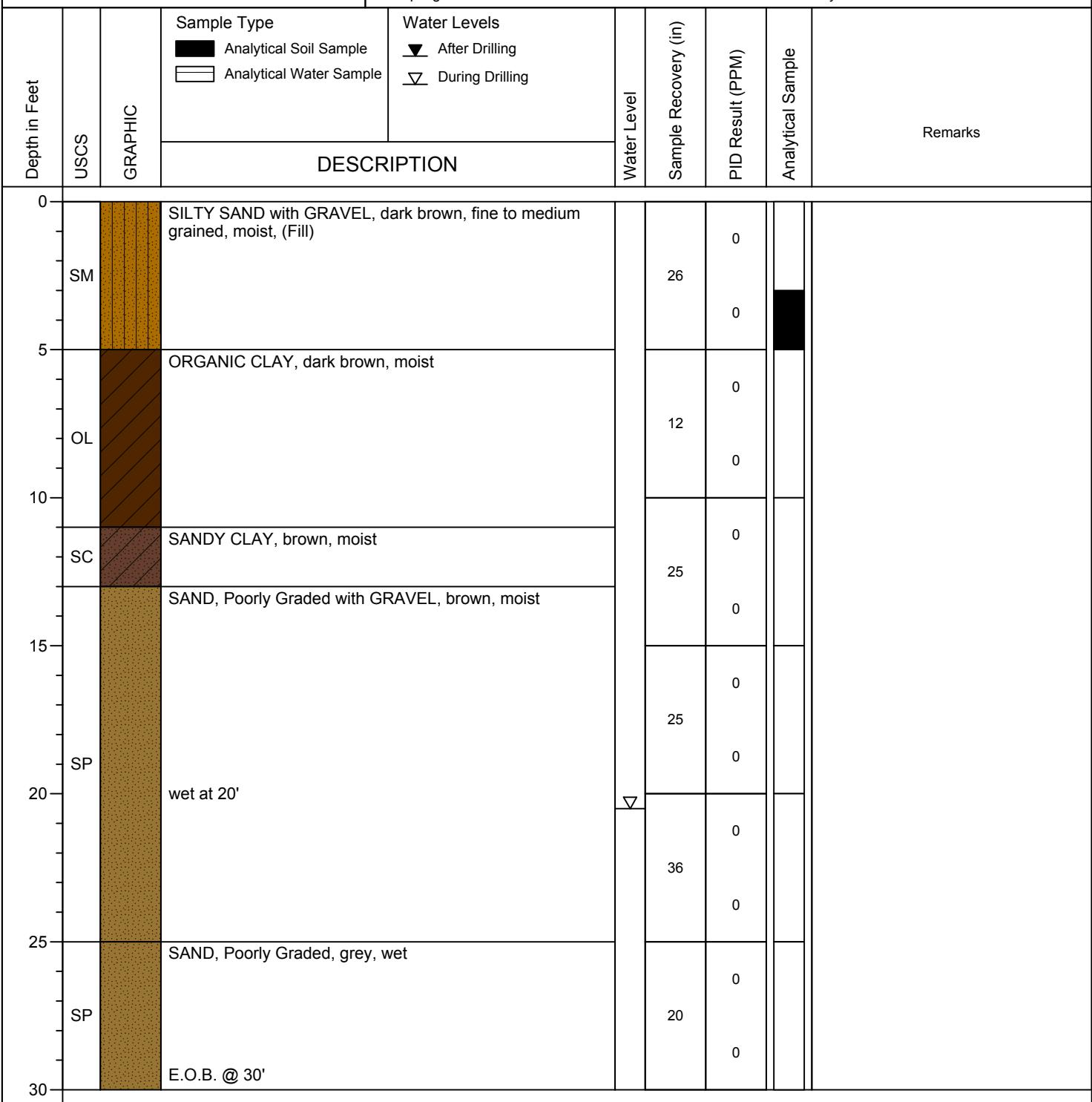
LOG OF BORING GP-5

(Page 1 of 1)

City of Minnetonka
Site Investigation
4312 Shady Oak Road

Project # B5170-0001

Date Started : 10/30/14 Ground Elevation :
 Date Completed : 10/30/14 Northing Coord. :
 Hole Diameter : 2" Easting Coord. :
 Drilling Method : Geoprobe Logged By : DJL
 Sampling Method : Dual Tube Checked By : DJL



Notes: This location is approximately 10 feet higher in elevation than GP-1 through GP-4.

1" PVC screen set at 17 to 27 feet for groundwater sample

Appendix B

Laboratory Reports and Chain-of-Custody Documentation

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Cedar Falls

704 Enterprise Drive

Cedar Falls, IA 50613

Tel: (319)277-2401

TestAmerica Job ID: 310-80618-1

TestAmerica Sample Delivery Group: 3035-0005

Client Project/Site: SHADY OAK - MINNETONKA

Revision: 1

For:

Wenck Associates, Inc

1800 Pioneer Creek Center

Maple Plain, Minnesota 55359

Attn: Adam P Zobel



Authorized for release by:

5/26/2016 4:13:04 PM

Zach Bindert, Project Manager I

(319)277-2401

zach.bindert@testamericainc.com

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results through

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Expert

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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: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

Job ID: 310-80618-1

Laboratory: TestAmerica Cedar Falls

Narrative

Job Narrative 310-80618-1

Comments

This report was revised 5/26/2016. The client questioned a low RL for sample SB-4 (2-3.5) (310-80618-7). The laboratory determined that the initial weight of the sample was entered in the 3550B prep batch incorrectly resulting in a lower reporting limit.

Receipt

The samples were received on 5/14/2016 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.5° C.

Receipt Exceptions

DRO jar for SB-7 was labeled as SB-12 on the container. The client was contacted and confirmed the correct ID for this sample should be SB-7 (2-3.5)

SB-7 (2-3.5) (310-80618-3)

GC/MS VOA

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

GC/MS Semi VOA

Method 8270D SIM: The following samples was diluted due to the nature of the sample matrix: SB-5 (2-3.5) (310-80618-1), SB-6 (2-3.5) (310-80618-2), SB-7 (2-3.5) (310-80618-3), SB-1 (0-1.5) (310-80618-4), SB-2 (2-3.5) (310-80618-5) and SB-3 (4.5-6) (310-80618-6). Elevated reporting limits (RLs) are provided.

Method 8270D SIM: Surrogate recovery was outside acceptance limits for the following matrix spike/matrix spike duplicate (MS/MSD) sample: (310-80548-B-9-A MS). The parent sample's surrogate recovery was within limits. The MS/MSD sample has been qualified and reported.

Method(s) 8270D SIM: The following samples was diluted due to the nature of the sample matrix: SB-4 (2-3.5) (310-80618-7) and SB-8 (4.5-6) (310-80618-8). Elevated reporting limits (RLs) are provided.

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

GC Semi VOA

Method 8082A: The laboratory control sample (LCS) for preparation batch 310-127604 and analytical batch 310-127842 recovered outside control limits for the following analytes: PCB-1016 and PCB-1260. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8082A: The surrogate recovery for the blank associated with preparation batch 310-127604 and analytical batch 310-127842 was outside the upper control limits. All associated sample surrogates fell within acceptance criteria; therefore, the data have been reported.

Method WI-DRO: The laboratory control sample duplicate (LCSD) for preparation batch 310-127730 and analytical batch 310-127812 recovered outside control limits for the following analytes: Diesel Range Organics (DRO). These analytes were biased low in the LCSD and all associated samples have been rerun for confirmation; therefore, the data have been reported.

Method WI-DRO: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 310-127730 recovered outside control limits for the following analytes: Diesel Range Organics (DRO).

Method WI-DRO: Significant peaks, readily distinguished from background, were detected in the following samples within five minutes after the end of the analytical window defined by the last component eluting in the Diesel Range Organics (DRO) mix (i.e., n-Octacosane): SB-5 (2-3.5) (310-80618-1), SB-6 (2-3.5) (310-80618-2), SB-7 (2-3.5) (310-80618-3), SB-1 (0-1.5) (310-80618-4), SB-2 (2-3.5) (310-80618-5), SB-3 (4.5-6) (310-80618-6), SB-4 (2-3.5) (310-80618-7) and SB-8 (4.5-6) (310-80618-8).

Method WI-DRO: The laboratory control sample duplicate (LCSD) for preparation batch 310-127730 and analytical batch 310-127986

Case Narrative

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

Job ID: 310-80618-1 (Continued)

Laboratory: TestAmerica Cedar Falls (Continued)

recovered outside control limits for the following analytes: Diesel Range Organics (DRO). These analytes were biased low in the LCSD and all associated samples have been rerun for confirmation; 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.

Metals

Method 6010C: The following samples was diluted due to the presence of an interferent: SB-7 (2-3.5) (310-80618-3), SB-2 (2-3.5) (310-80618-5), SB-3 (4.5-6) (310-80618-6) and SB-8 (4.5-6) (310-80618-8). Elevated reporting limits (RLs) are provided.

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.

VOA Prep

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

Sample Summary

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-80618-1	SB-5 (2-3.5)	Solid	05/12/16 10:00	05/14/16 09:15
310-80618-2	SB-6 (2-3.5)	Solid	05/12/16 11:00	05/14/16 09:15
310-80618-3	SB-7 (2-3.5)	Solid	05/12/16 12:00	05/14/16 09:15
310-80618-4	SB-1 (0-1.5)	Solid	05/12/16 14:00	05/14/16 09:15
310-80618-5	SB-2 (2-3.5)	Solid	05/12/16 15:30	05/14/16 09:15
310-80618-6	SB-3 (4.5-6)	Solid	05/13/16 09:30	05/14/16 09:15
310-80618-7	SB-4 (2-3.5)	Solid	05/13/16 11:00	05/14/16 09:15
310-80618-8	SB-8 (4.5-6)	Solid	05/13/16 15:00	05/14/16 09:15
310-80618-9	MeOH Trip Blank	Solid	05/13/16 00:00	05/14/16 09:15

Detection Summary

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

Client Sample ID: SB-5 (2-3.5)

Lab Sample ID: 310-80618-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.125		0.111		mg/Kg	10	⊗	8270D SIM	Total/NA
Benzo[a]pyrene	0.173		0.111		mg/Kg	10	⊗	8270D SIM	Total/NA
Benzo[b]fluoranthene	0.322		0.111		mg/Kg	10	⊗	8270D SIM	Total/NA
Benzo[g,h,i]perylene	0.182		0.111		mg/Kg	10	⊗	8270D SIM	Total/NA
Benzo[k]fluoranthene	0.115		0.111		mg/Kg	10	⊗	8270D SIM	Total/NA
Chrysene	0.168		0.111		mg/Kg	10	⊗	8270D SIM	Total/NA
Fluoranthene	0.194		0.111		mg/Kg	10	⊗	8270D SIM	Total/NA
Indeno[1,2,3-cd]pyrene	0.138		0.111		mg/Kg	10	⊗	8270D SIM	Total/NA
Pyrene	0.205		0.111		mg/Kg	10	⊗	8270D SIM	Total/NA
Diesel Range Organics (DRO)	28.1 *		4.22		mg/Kg	1	⊗	WI-DRO	Total/NA
Barium	36.0		0.567		mg/Kg	1	⊗	6010C	Total/NA
Chromium	13.0		1.13		mg/Kg	1	⊗	6010C	Total/NA
Arsenic	2.29		0.677		mg/Kg	12	⊗	7010	Total/NA

Client Sample ID: SB-6 (2-3.5)

Lab Sample ID: 310-80618-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics (DRO)	170 *		23.3		mg/Kg	1	⊗	WI-DRO	Total/NA
Barium	56.3		0.455		mg/Kg	1	⊗	6010C	Total/NA
Chromium	14.8		0.911		mg/Kg	1	⊗	6010C	Total/NA
Lead	9.38		4.55		mg/Kg	1	⊗	6010C	Total/NA
Arsenic	2.32		0.578		mg/Kg	12	⊗	7010	Total/NA

Client Sample ID: SB-7 (2-3.5)

Lab Sample ID: 310-80618-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.136		0.115		mg/Kg	10	⊗	8270D SIM	Total/NA
Benzo[a]pyrene	0.170		0.115		mg/Kg	10	⊗	8270D SIM	Total/NA
Benzo[b]fluoranthene	0.222		0.115		mg/Kg	10	⊗	8270D SIM	Total/NA
Benzo[g,h,i]perylene	0.121		0.115		mg/Kg	10	⊗	8270D SIM	Total/NA
Chrysene	0.157		0.115		mg/Kg	10	⊗	8270D SIM	Total/NA
Fluoranthene	0.216		0.115		mg/Kg	10	⊗	8270D SIM	Total/NA
Pyrene	0.246		0.115		mg/Kg	10	⊗	8270D SIM	Total/NA
Diesel Range Organics (DRO)	215 *		22.6		mg/Kg	1	⊗	WI-DRO	Total/NA
Barium	48.4		1.12		mg/Kg	2	⊗	6010C	Total/NA
Chromium	13.3		2.24		mg/Kg	2	⊗	6010C	Total/NA
Lead	15.8		11.2		mg/Kg	2	⊗	6010C	Total/NA
Arsenic	2.85		0.606		mg/Kg	12	⊗	7010	Total/NA

Client Sample ID: SB-1 (0-1.5)

Lab Sample ID: 310-80618-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics (DRO)	10.2 *		5.17		mg/Kg	1	⊗	WI-DRO	Total/NA
Barium	36.7		0.496		mg/Kg	1	⊗	6010C	Total/NA
Chromium	16.2		0.992		mg/Kg	1	⊗	6010C	Total/NA
Arsenic	2.16		0.626		mg/Kg	12	⊗	7010	Total/NA

Client Sample ID: SB-2 (2-3.5)

Lab Sample ID: 310-80618-5

This Detection Summary does not include radiochemical test results.

TestAmerica Cedar Falls

Detection Summary

Client: Wenck Associates, Inc
 Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
 SDG: 3035-0005

Client Sample ID: SB-2 (2-3.5) (Continued)

Lab Sample ID: 310-80618-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.259		0.101		mg/Kg	10	⊗	8270D SIM	Total/NA
Benzo[a]pyrene	0.331		0.101		mg/Kg	10	⊗	8270D SIM	Total/NA
Benzo[b]fluoranthene	0.463		0.101		mg/Kg	10	⊗	8270D SIM	Total/NA
Benzo[g,h,i]perylene	0.222		0.101		mg/Kg	10	⊗	8270D SIM	Total/NA
Benzo[k]fluoranthene	0.144		0.101		mg/Kg	10	⊗	8270D SIM	Total/NA
Chrysene	0.299		0.101		mg/Kg	10	⊗	8270D SIM	Total/NA
Fluoranthene	0.466		0.101		mg/Kg	10	⊗	8270D SIM	Total/NA
Indeno[1,2,3-cd]pyrene	0.185		0.101		mg/Kg	10	⊗	8270D SIM	Total/NA
Phenanthrene	0.141		0.101		mg/Kg	10	⊗	8270D SIM	Total/NA
Pyrene	0.466		0.101		mg/Kg	10	⊗	8270D SIM	Total/NA
Diesel Range Organics (DRO)	24.9 *		3.90		mg/Kg	1	⊗	WI-DRO	Total/NA
Barium	42.5		0.953		mg/Kg	2	⊗	6010C	Total/NA
Chromium	12.6		1.91		mg/Kg	2	⊗	6010C	Total/NA
Lead	16.3		9.53		mg/Kg	2	⊗	6010C	Total/NA
Arsenic	2.56		0.626		mg/Kg	12	⊗	7010	Total/NA

Client Sample ID: SB-3 (4.5-6)

Lab Sample ID: 310-80618-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.245		0.103		mg/Kg	1	⊗	8260B	Total/NA
Benzo[a]anthracene	0.342		0.0982		mg/Kg	10	⊗	8270D SIM	Total/NA
Benzo[a]pyrene	0.342		0.0982		mg/Kg	10	⊗	8270D SIM	Total/NA
Benzo[b]fluoranthene	0.484		0.0982		mg/Kg	10	⊗	8270D SIM	Total/NA
Benzo[g,h,i]perylene	0.171		0.0982		mg/Kg	10	⊗	8270D SIM	Total/NA
Benzo[k]fluoranthene	0.143		0.0982		mg/Kg	10	⊗	8270D SIM	Total/NA
Chrysene	0.369		0.0982		mg/Kg	10	⊗	8270D SIM	Total/NA
Fluoranthene	0.553		0.0982		mg/Kg	10	⊗	8270D SIM	Total/NA
Indeno[1,2,3-cd]pyrene	0.125		0.0982		mg/Kg	10	⊗	8270D SIM	Total/NA
Phenanthrene	0.197		0.0982		mg/Kg	10	⊗	8270D SIM	Total/NA
Pyrene	0.601		0.0982		mg/Kg	10	⊗	8270D SIM	Total/NA
Diesel Range Organics (DRO)	108 *		22.2		mg/Kg	1	⊗	WI-DRO	Total/NA
Barium	36.7		0.878		mg/Kg	2	⊗	6010C	Total/NA
Chromium	14.0		1.76		mg/Kg	2	⊗	6010C	Total/NA
Lead	8.80		8.78		mg/Kg	2	⊗	6010C	Total/NA
Arsenic	1.82		0.623		mg/Kg	12	⊗	7010	Total/NA

Client Sample ID: SB-4 (2-3.5)

Lab Sample ID: 310-80618-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.289		0.105		mg/Kg	10	⊗	8270D SIM	Total/NA
Benzo[a]pyrene	0.356		0.105		mg/Kg	10	⊗	8270D SIM	Total/NA
Benzo[b]fluoranthene	0.482		0.105		mg/Kg	10	⊗	8270D SIM	Total/NA
Benzo[g,h,i]perylene	0.284		0.105		mg/Kg	10	⊗	8270D SIM	Total/NA
Benzo[k]fluoranthene	0.144		0.105		mg/Kg	10	⊗	8270D SIM	Total/NA
Chrysene	0.321		0.105		mg/Kg	10	⊗	8270D SIM	Total/NA
Fluoranthene	0.423		0.105		mg/Kg	10	⊗	8270D SIM	Total/NA
Indeno[1,2,3-cd]pyrene	0.203		0.105		mg/Kg	10	⊗	8270D SIM	Total/NA
Phenanthrene	0.113		0.105		mg/Kg	10	⊗	8270D SIM	Total/NA
Pyrene	0.493		0.105		mg/Kg	10	⊗	8270D SIM	Total/NA
Diesel Range Organics (DRO)	42.5 *		18.1		mg/Kg	1	⊗	WI-DRO	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Cedar Falls

Detection Summary

Client: Wenck Associates, Inc
 Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
 SDG: 3035-0005

Client Sample ID: SB-4 (2-3.5) (Continued)

Lab Sample ID: 310-80618-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	34.1		0.491		mg/Kg	1	⊗	6010C	Total/NA
Chromium	11.0		0.981		mg/Kg	1	⊗	6010C	Total/NA
Lead	9.69		4.91		mg/Kg	1	⊗	6010C	Total/NA
Arsenic	2.29		0.608		mg/Kg	12	⊗	7010	Total/NA

Client Sample ID: SB-8 (4.5-6)

Lab Sample ID: 310-80618-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	0.139		0.103		mg/Kg	10	⊗	8270D SIM	Total/NA
Benzo[g,h,i]perylene	0.110		0.103		mg/Kg	10	⊗	8270D SIM	Total/NA
Fluoranthene	0.165		0.103		mg/Kg	10	⊗	8270D SIM	Total/NA
Phenanthrene	0.157		0.103		mg/Kg	10	⊗	8270D SIM	Total/NA
Pyrene	0.267		0.103		mg/Kg	10	⊗	8270D SIM	Total/NA
Diesel Range Organics (DRO)	33.2 *		4.22		mg/Kg	1	⊗	WI-DRO	Total/NA
Barium	26.0		1.01		mg/Kg	2	⊗	6010C	Total/NA
Chromium	10.4		2.02		mg/Kg	2	⊗	6010C	Total/NA
Arsenic	2.11		0.539		mg/Kg	12	⊗	7010	Total/NA
Mercury	0.0979		0.0183		mg/Kg	1	⊗	7471B	Total/NA

Client Sample ID: MeOH Trip Blank

Lab Sample ID: 310-80618-9

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Cedar Falls

Client Sample Results

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

Client Sample ID: SB-5 (2-3.5)

Date Collected: 05/12/16 10:00
Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-1

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.572		0.572		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
Allyl chloride	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
Benzene	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
Bromobenzene	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
Bromoform	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
Bromochloromethane	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
Bromodichloromethane	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
Bromoform	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
Bromomethane	<0.572		0.572		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
2-Butanone (MEK)	<0.286		0.286		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
Carbon tetrachloride	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
Chlorobenzene	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
Chlorodibromomethane	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
Chloroethane	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
Chloroform	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
Chloromethane	<0.286		0.286		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
2-Chlorotoluene	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
4-Chlorotoluene	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
cis-1,2-Dichloroethene	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
cis-1,3-Dichloropropene	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
1,2-Dibromo-3-Chloropropane	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
1,2-Dibromoethane (EDB)	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
Dibromomethane	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
1,2-Dichlorobenzene	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
1,3-Dichlorobenzene	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
1,4-Dichlorobenzene	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
Dichlorodifluoromethane	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
1,1-Dichloroethane	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
1,2-Dichloroethane	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
1,1-Dichloroethene	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
Dichlorofluoromethane	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
1,2-Dichloropropene	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
1,3-Dichloropropene	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
2,2-Dichloropropane	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
1,1-Dichloropropene	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
Diethyl ether	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
Ethylbenzene	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
Hexachlorobutadiene	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
Isopropylbenzene	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
Methylene Chloride	<0.286		0.286		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
4-Methyl-2-pentanone (MIBK)	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
Methyl tert-butyl ether	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
Naphthalene	<0.286		0.286		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
n-Butylbenzene	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
N-Propylbenzene	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
p-Isopropyltoluene	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
sec-Butylbenzene	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
Styrene	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
tert-Butylbenzene	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
1,1,1,2-Tetrachloroethane	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1

TestAmerica Cedar Falls

Client Sample Results

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

Client Sample ID: SB-5 (2-3.5)
Date Collected: 05/12/16 10:00
Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
Tetrachloroethene	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
Tetrahydrofuran	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
Toluene	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
trans-1,2-Dichloroethene	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
trans-1,3-Dichloropropene	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
1,2,3-Trichlorobenzene	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
1,2,4-Trichlorobenzene	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
1,1,1-Trichloroethane	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
1,1,2-Trichloroethane	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
Trichloroethylene	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
Trichlorofluoromethane	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
1,2,3-Trichloropropane	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
1,1,2-Trichlorotrifluoroethane	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
1,2,4-Trimethylbenzene	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
1,3,5-Trimethylbenzene	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
Vinyl chloride	<0.114		0.114		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
Xylenes, Total	<0.172		0.172		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 135				05/18/16 07:38	05/18/16 23:07	1
Dibromofluoromethane (Surr)	95		80 - 120				05/18/16 07:38	05/18/16 23:07	1
Toluene-d8 (Surr)	100		80 - 120				05/18/16 07:38	05/18/16 23:07	1

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.111		0.111		mg/Kg	⊗	05/16/16 13:52	05/17/16 19:05	10
Acenaphthylene	<0.111		0.111		mg/Kg	⊗	05/16/16 13:52	05/17/16 19:05	10
Anthracene	<0.111		0.111		mg/Kg	⊗	05/16/16 13:52	05/17/16 19:05	10
Benzo[a]anthracene	0.125		0.111		mg/Kg	⊗	05/16/16 13:52	05/17/16 19:05	10
Benzo[a]pyrene	0.173		0.111		mg/Kg	⊗	05/16/16 13:52	05/17/16 19:05	10
Benzo[b]fluoranthene	0.322		0.111		mg/Kg	⊗	05/16/16 13:52	05/17/16 19:05	10
Benzo[g,h,i]perylene	0.182		0.111		mg/Kg	⊗	05/16/16 13:52	05/17/16 19:05	10
Benzo[k]fluoranthene	0.115		0.111		mg/Kg	⊗	05/16/16 13:52	05/17/16 19:05	10
Chrysene	0.168		0.111		mg/Kg	⊗	05/16/16 13:52	05/17/16 19:05	10
Dibenz(a,h)anthracene	<0.111		0.111		mg/Kg	⊗	05/16/16 13:52	05/17/16 19:05	10
Fluoranthene	0.194		0.111		mg/Kg	⊗	05/16/16 13:52	05/17/16 19:05	10
Fluorene	<0.111		0.111		mg/Kg	⊗	05/16/16 13:52	05/17/16 19:05	10
Indeno[1,2,3-cd]pyrene	0.138		0.111		mg/Kg	⊗	05/16/16 13:52	05/17/16 19:05	10
2-Methylnaphthalene	<0.111		0.111		mg/Kg	⊗	05/16/16 13:52	05/17/16 19:05	10
Naphthalene	<0.111		0.111		mg/Kg	⊗	05/16/16 13:52	05/17/16 19:05	10
Phenanthrene	<0.111		0.111		mg/Kg	⊗	05/16/16 13:52	05/17/16 19:05	10
Pyrene	0.205		0.111		mg/Kg	⊗	05/16/16 13:52	05/17/16 19:05	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	75		10 - 110				05/16/16 13:52	05/17/16 19:05	10
Nitrobenzene-d5 (Surr)	57		10 - 110				05/16/16 13:52	05/17/16 19:05	10
Terphenyl-d14 (Surr)	79		20 - 110				05/16/16 13:52	05/17/16 19:05	10

TestAmerica Cedar Falls

Client Sample Results

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

Client Sample ID: SB-5 (2-3.5)
Date Collected: 05/12/16 10:00
Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0575		0.0575		mg/Kg	⊗	05/24/16 10:09	05/24/16 18:41	1
PCB-1221	<0.0575		0.0575		mg/Kg	⊗	05/24/16 10:09	05/24/16 18:41	1
PCB-1232	<0.0575		0.0575		mg/Kg	⊗	05/24/16 10:09	05/24/16 18:41	1
PCB-1242	<0.0575		0.0575		mg/Kg	⊗	05/24/16 10:09	05/24/16 18:41	1
PCB-1248	<0.0575		0.0575		mg/Kg	⊗	05/24/16 10:09	05/24/16 18:41	1
PCB-1254	<0.0575		0.0575		mg/Kg	⊗	05/24/16 10:09	05/24/16 18:41	1
PCB-1260	<0.0575		0.0575		mg/Kg	⊗	05/24/16 10:09	05/24/16 18:41	1
PCB-1268	<0.0575		0.0575		mg/Kg	⊗	05/24/16 10:09	05/24/16 18:41	1
Polychlorinated biphenyls, Total	<0.0575		0.0575		mg/Kg	⊗	05/24/16 10:09	05/24/16 18:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	48		10 - 110				05/24/16 10:09	05/24/16 18:41	1
Tetrachloro-m-xylene	50		10 - 110				05/24/16 10:09	05/24/16 18:41	1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	28.1	*	4.22		mg/Kg	⊗	05/16/16 14:00	05/17/16 19:39	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	36.0		0.567		mg/Kg	⊗	05/17/16 10:00	05/17/16 19:00	1
Cadmium	<1.13		1.13		mg/Kg	⊗	05/17/16 10:00	05/17/16 19:00	1
Chromium	13.0		1.13		mg/Kg	⊗	05/17/16 10:00	05/17/16 19:00	1
Lead	<5.67		5.67		mg/Kg	⊗	05/17/16 10:00	05/17/16 19:00	1
Silver	<1.13		1.13		mg/Kg	⊗	05/17/16 10:00	05/17/16 19:00	1

Method: 7010 - Metals (GFAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.29		0.677		mg/Kg	⊗	05/17/16 10:00	05/18/16 14:07	12
Selenium	<1.13		1.13		mg/Kg	⊗	05/17/16 10:00	05/17/16 12:15	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0212		0.0212		mg/Kg	⊗	05/16/16 14:10	05/17/16 12:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.2		0.1		%			05/16/16 09:56	1
Percent Solids	86.8		0.1		%			05/16/16 09:56	1

Client Sample Results

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

Client Sample ID: SB-6 (2-3.5)

Date Collected: 05/12/16 11:00
Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-2

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.552		0.552		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
Allyl chloride	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
Benzene	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
Bromobenzene	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
Bromoform	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
Bromochloromethane	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
Bromodichloromethane	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
Bromoform	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
Bromomethane	<0.552		0.552		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
2-Butanone (MEK)	<0.276		0.276		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
Carbon tetrachloride	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
Chlorobenzene	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
Chlorodibromomethane	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
Chloroethane	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
Chloroform	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
Chloromethane	<0.276		0.276		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
2-Chlorotoluene	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
4-Chlorotoluene	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
cis-1,2-Dichloroethene	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
cis-1,3-Dichloropropene	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
1,2-Dibromo-3-Chloropropane	<0.110	F1 F2	0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
1,2-Dibromoethane (EDB)	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
Dibromomethane	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
1,2-Dichlorobenzene	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
1,3-Dichlorobenzene	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
1,4-Dichlorobenzene	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
Dichlorodifluoromethane	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
1,1-Dichloroethane	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
1,2-Dichloroethane	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
1,1-Dichloroethene	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
Dichlorofluoromethane	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
1,2-Dichloropropene	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
1,3-Dichloropropane	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
2,2-Dichloropropane	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
1,1-Dichloropropene	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
Diethyl ether	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
Ethylbenzene	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
Hexachlorobutadiene	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
Isopropylbenzene	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
Methylene Chloride	<0.276		0.276		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
4-Methyl-2-pentanone (MIBK)	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
Methyl tert-butyl ether	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
Naphthalene	<0.276		0.276		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
n-Butylbenzene	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
N-Propylbenzene	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
p-Isopropyltoluene	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
sec-Butylbenzene	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
Styrene	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
tert-Butylbenzene	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
1,1,1,2-Tetrachloroethane	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1

TestAmerica Cedar Falls

Client Sample Results

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

Client Sample ID: SB-6 (2-3.5)
Date Collected: 05/12/16 11:00
Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
Tetrachloroethene	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
Tetrahydrofuran	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
Toluene	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
trans-1,2-Dichloroethene	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
trans-1,3-Dichloropropene	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
1,2,3-Trichlorobenzene	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
1,2,4-Trichlorobenzene	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
1,1,1-Trichloroethane	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
1,1,2-Trichloroethane	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
Trichloroethylene	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
Trichlorofluoromethane	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
1,2,3-Trichloropropane	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
1,1,2-Trichlorotrifluoroethane	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
1,2,4-Trimethylbenzene	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
1,3,5-Trimethylbenzene	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
Vinyl chloride	<0.110		0.110		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1
Xylenes, Total	<0.166		0.166		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 135	05/18/16 07:38	05/18/16 23:32	1
Dibromofluoromethane (Surr)	96		80 - 120	05/18/16 07:38	05/18/16 23:32	1
Toluene-d8 (Surr)	101		80 - 120	05/18/16 07:38	05/18/16 23:32	1

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.413		0.413		mg/Kg	⊗	05/16/16 13:52	05/17/16 19:27	10
Acenaphthylene	<0.413		0.413		mg/Kg	⊗	05/16/16 13:52	05/17/16 19:27	10
Anthracene	<0.413		0.413		mg/Kg	⊗	05/16/16 13:52	05/17/16 19:27	10
Benzo[a]anthracene	<0.413		0.413		mg/Kg	⊗	05/16/16 13:52	05/17/16 19:27	10
Benzo[a]pyrene	<0.413		0.413		mg/Kg	⊗	05/16/16 13:52	05/17/16 19:27	10
Benzo[b]fluoranthene	<0.413		0.413		mg/Kg	⊗	05/16/16 13:52	05/17/16 19:27	10
Benzo[g,h,i]perylene	<0.413		0.413		mg/Kg	⊗	05/16/16 13:52	05/17/16 19:27	10
Benzo[k]fluoranthene	<0.413		0.413		mg/Kg	⊗	05/16/16 13:52	05/17/16 19:27	10
Chrysene	<0.413		0.413		mg/Kg	⊗	05/16/16 13:52	05/17/16 19:27	10
Dibenz(a,h)anthracene	<0.413		0.413		mg/Kg	⊗	05/16/16 13:52	05/17/16 19:27	10
Fluoranthene	<0.413		0.413		mg/Kg	⊗	05/16/16 13:52	05/17/16 19:27	10
Fluorene	<0.413		0.413		mg/Kg	⊗	05/16/16 13:52	05/17/16 19:27	10
Indeno[1,2,3-cd]pyrene	<0.413		0.413		mg/Kg	⊗	05/16/16 13:52	05/17/16 19:27	10
2-Methylnaphthalene	<0.413		0.413		mg/Kg	⊗	05/16/16 13:52	05/17/16 19:27	10
Naphthalene	<0.413		0.413		mg/Kg	⊗	05/16/16 13:52	05/17/16 19:27	10
Phenanthrene	<0.413		0.413		mg/Kg	⊗	05/16/16 13:52	05/17/16 19:27	10
Pyrene	<0.413		0.413		mg/Kg	⊗	05/16/16 13:52	05/17/16 19:27	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	71		10 - 110	05/16/16 13:52	05/17/16 19:27	10
Nitrobenzene-d5 (Surr)	49		10 - 110	05/16/16 13:52	05/17/16 19:27	10
Terphenyl-d14 (Surr)	93		20 - 110	05/16/16 13:52	05/17/16 19:27	10

TestAmerica Cedar Falls

Client Sample Results

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

Client Sample ID: SB-6 (2-3.5)
Date Collected: 05/12/16 11:00
Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0548	*	0.0548		mg/Kg	⊗	05/16/16 13:54	05/17/16 17:57	1
PCB-1221	<0.0548		0.0548		mg/Kg	⊗	05/16/16 13:54	05/17/16 17:57	1
PCB-1232	<0.0548		0.0548		mg/Kg	⊗	05/16/16 13:54	05/17/16 17:57	1
PCB-1242	<0.0548		0.0548		mg/Kg	⊗	05/16/16 13:54	05/17/16 17:57	1
PCB-1248	<0.0548		0.0548		mg/Kg	⊗	05/16/16 13:54	05/17/16 17:57	1
PCB-1254	<0.0548		0.0548		mg/Kg	⊗	05/16/16 13:54	05/17/16 17:57	1
PCB-1260	<0.0548	*	0.0548		mg/Kg	⊗	05/16/16 13:54	05/17/16 17:57	1
PCB-1268	<0.0548		0.0548		mg/Kg	⊗	05/16/16 13:54	05/17/16 17:57	1
Polychlorinated biphenyls, Total	<0.0548		0.0548		mg/Kg	⊗	05/16/16 13:54	05/17/16 17:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	71		10 - 110				05/16/16 13:54	05/17/16 17:57	1
Tetrachloro-m-xylene	62		10 - 110				05/16/16 13:54	05/17/16 17:57	1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	170	*	23.3		mg/Kg	⊗	05/16/16 14:00	05/17/16 20:15	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	56.3		0.455		mg/Kg	⊗	05/17/16 10:00	05/17/16 19:02	1
Cadmium	<0.911		0.911		mg/Kg	⊗	05/17/16 10:00	05/17/16 19:02	1
Chromium	14.8		0.911		mg/Kg	⊗	05/17/16 10:00	05/17/16 19:02	1
Lead	9.38		4.55		mg/Kg	⊗	05/17/16 10:00	05/17/16 19:02	1
Silver	<0.911		0.911		mg/Kg	⊗	05/17/16 10:00	05/17/16 19:02	1

Method: 7010 - Metals (GFAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.32		0.578		mg/Kg	⊗	05/17/16 10:00	05/18/16 14:18	12
Selenium	<0.963		0.963		mg/Kg	⊗	05/17/16 10:00	05/17/16 12:18	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0199		0.0199		mg/Kg	⊗	05/16/16 14:10	05/17/16 12:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.0		0.1		%			05/16/16 09:56	1
Percent Solids	91.0		0.1		%			05/16/16 09:56	1

Client Sample Results

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

Client Sample ID: SB-7 (2-3.5)

Date Collected: 05/12/16 12:00
Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-3

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.566		0.566		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
Allyl chloride	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
Benzene	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
Bromobenzene	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
Bromoform	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
Bromochloromethane	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
Bromodichloromethane	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
Bromoform	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
Bromomethane	<0.566		0.566		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
2-Butanone (MEK)	<0.283		0.283		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
Carbon tetrachloride	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
Chlorobenzene	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
Chlorodibromomethane	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
Chloroethane	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
Chloroform	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
Chloromethane	<0.283		0.283		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
2-Chlorotoluene	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
4-Chlorotoluene	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
cis-1,2-Dichloroethene	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
cis-1,3-Dichloropropene	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
1,2-Dibromo-3-Chloropropane	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
1,2-Dibromoethane (EDB)	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
Dibromomethane	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
1,2-Dichlorobenzene	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
1,3-Dichlorobenzene	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
1,4-Dichlorobenzene	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
Dichlorodifluoromethane	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
1,1-Dichloroethane	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
1,2-Dichloroethane	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
1,1-Dichloroethene	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
Dichlorofluoromethane	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
1,2-Dichloropropene	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
1,3-Dichloropropene	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
2,2-Dichloropropane	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
1,1-Dichloropropene	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
Diethyl ether	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
Ethylbenzene	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
Hexachlorobutadiene	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
Isopropylbenzene	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
Methylene Chloride	<0.283		0.283		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
4-Methyl-2-pentanone (MIBK)	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
Methyl tert-butyl ether	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
Naphthalene	<0.283		0.283		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
n-Butylbenzene	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
N-Propylbenzene	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
p-Isopropyltoluene	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
sec-Butylbenzene	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
Styrene	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
tert-Butylbenzene	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
1,1,1,2-Tetrachloroethane	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1

TestAmerica Cedar Falls

Client Sample Results

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

Client Sample ID: SB-7 (2-3.5)
Date Collected: 05/12/16 12:00
Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
Tetrachloroethene	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
Tetrahydrofuran	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
Toluene	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
trans-1,2-Dichloroethene	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
trans-1,3-Dichloropropene	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
1,2,3-Trichlorobenzene	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
1,2,4-Trichlorobenzene	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
1,1,1-Trichloroethane	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
1,1,2-Trichloroethane	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
Trichloroethylene	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
Trichlorofluoromethane	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
1,2,3-Trichloropropane	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
1,1,2-Trichlorotrifluoroethane	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
1,2,4-Trimethylbenzene	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
1,3,5-Trimethylbenzene	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
Vinyl chloride	<0.113		0.113		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
Xylenes, Total	<0.170		0.170		mg/Kg	⊗	05/18/16 07:38	05/18/16 23:56	1
Surrogate		%Recovery	Qualifier	Limits		Prepared		Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		102		70 - 135		05/18/16 07:38		05/18/16 23:56	1
Dibromofluoromethane (Surr)		94		80 - 120		05/18/16 07:38		05/18/16 23:56	1
Toluene-d8 (Surr)		100		80 - 120		05/18/16 07:38		05/18/16 23:56	1

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.115		0.115		mg/Kg	⊗	05/16/16 13:52	05/17/16 19:50	10
Acenaphthylene	<0.115		0.115		mg/Kg	⊗	05/16/16 13:52	05/17/16 19:50	10
Anthracene	<0.115		0.115		mg/Kg	⊗	05/16/16 13:52	05/17/16 19:50	10
Benzo[a]anthracene	0.136		0.115		mg/Kg	⊗	05/16/16 13:52	05/17/16 19:50	10
Benzo[a]pyrene	0.170		0.115		mg/Kg	⊗	05/16/16 13:52	05/17/16 19:50	10
Benzo[b]fluoranthene	0.222		0.115		mg/Kg	⊗	05/16/16 13:52	05/17/16 19:50	10
Benzo[g,h,i]perylene	0.121		0.115		mg/Kg	⊗	05/16/16 13:52	05/17/16 19:50	10
Benzo[k]fluoranthene	<0.115		0.115		mg/Kg	⊗	05/16/16 13:52	05/17/16 19:50	10
Chrysene	0.157		0.115		mg/Kg	⊗	05/16/16 13:52	05/17/16 19:50	10
Dibenz(a,h)anthracene	<0.115		0.115		mg/Kg	⊗	05/16/16 13:52	05/17/16 19:50	10
Fluoranthene	0.216		0.115		mg/Kg	⊗	05/16/16 13:52	05/17/16 19:50	10
Fluorene	<0.115		0.115		mg/Kg	⊗	05/16/16 13:52	05/17/16 19:50	10
Indeno[1,2,3-cd]pyrene	<0.115		0.115		mg/Kg	⊗	05/16/16 13:52	05/17/16 19:50	10
2-Methylnaphthalene	<0.115		0.115		mg/Kg	⊗	05/16/16 13:52	05/17/16 19:50	10
Naphthalene	<0.115		0.115		mg/Kg	⊗	05/16/16 13:52	05/17/16 19:50	10
Phenanthrene	<0.115		0.115		mg/Kg	⊗	05/16/16 13:52	05/17/16 19:50	10
Pyrene	0.246		0.115		mg/Kg	⊗	05/16/16 13:52	05/17/16 19:50	10
Surrogate		%Recovery	Qualifier	Limits		Prepared		Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)		20		10 - 110		05/16/16 13:52		05/17/16 19:50	10
Nitrobenzene-d5 (Surr)		13		10 - 110		05/16/16 13:52		05/17/16 19:50	10
Terphenyl-d14 (Surr)		24		20 - 110		05/16/16 13:52		05/17/16 19:50	10

TestAmerica Cedar Falls

Client Sample Results

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

Client Sample ID: SB-7 (2-3.5)
Date Collected: 05/12/16 12:00
Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0569	*	0.0569		mg/Kg	⊗	05/16/16 13:54	05/17/16 18:08	1
PCB-1221	<0.0569		0.0569		mg/Kg	⊗	05/16/16 13:54	05/17/16 18:08	1
PCB-1232	<0.0569		0.0569		mg/Kg	⊗	05/16/16 13:54	05/17/16 18:08	1
PCB-1242	<0.0569		0.0569		mg/Kg	⊗	05/16/16 13:54	05/17/16 18:08	1
PCB-1248	<0.0569		0.0569		mg/Kg	⊗	05/16/16 13:54	05/17/16 18:08	1
PCB-1254	<0.0569		0.0569		mg/Kg	⊗	05/16/16 13:54	05/17/16 18:08	1
PCB-1260	<0.0569	*	0.0569		mg/Kg	⊗	05/16/16 13:54	05/17/16 18:08	1
PCB-1268	<0.0569		0.0569		mg/Kg	⊗	05/16/16 13:54	05/17/16 18:08	1
Polychlorinated biphenyls, Total	<0.0569		0.0569		mg/Kg	⊗	05/16/16 13:54	05/17/16 18:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	66		10 - 110				05/16/16 13:54	05/17/16 18:08	1
Tetrachloro-m-xylene	61		10 - 110				05/16/16 13:54	05/17/16 18:08	1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	215	*	22.6		mg/Kg	⊗	05/16/16 14:00	05/17/16 20:52	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	48.4		1.12		mg/Kg	⊗	05/17/16 10:00	05/17/16 21:03	2
Cadmium	<2.24		2.24		mg/Kg	⊗	05/17/16 10:00	05/17/16 21:03	2
Chromium	13.3		2.24		mg/Kg	⊗	05/17/16 10:00	05/17/16 21:03	2
Lead	15.8		11.2		mg/Kg	⊗	05/17/16 10:00	05/17/16 21:03	2
Silver	<2.24		2.24		mg/Kg	⊗	05/17/16 10:00	05/17/16 21:03	2

Method: 7010 - Metals (GFAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.85		0.606		mg/Kg	⊗	05/17/16 10:00	05/18/16 14:22	12
Selenium	<1.01		1.01		mg/Kg	⊗	05/17/16 10:00	05/17/16 12:22	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0214		0.0214		mg/Kg	⊗	05/16/16 14:10	05/17/16 12:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.4		0.1		%			05/16/16 09:56	1
Percent Solids	86.6		0.1		%			05/16/16 09:56	1

Client Sample Results

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

Client Sample ID: SB-1 (0-1.5)

Date Collected: 05/12/16 14:00
Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-4 Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.541		0.541		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
Allyl chloride	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
Benzene	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
Bromobenzene	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
Bromoform	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
Bromochloromethane	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
Bromodichloromethane	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
Bromoform	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
Bromomethane	<0.541		0.541		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
2-Butanone (MEK)	<0.271		0.271		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
Carbon tetrachloride	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
Chlorobenzene	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
Chlorodibromomethane	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
Chloroethane	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
Chloroform	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
Chloromethane	<0.271		0.271		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
2-Chlorotoluene	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
4-Chlorotoluene	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
cis-1,2-Dichloroethene	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
cis-1,3-Dichloropropene	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
1,2-Dibromo-3-Chloropropane	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
1,2-Dibromoethane (EDB)	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
Dibromomethane	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
1,2-Dichlorobenzene	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
1,3-Dichlorobenzene	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
1,4-Dichlorobenzene	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
Dichlorodifluoromethane	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
1,1-Dichloroethane	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
1,2-Dichloroethane	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
1,1-Dichloroethene	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
Dichlorofluoromethane	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
1,2-Dichloropropene	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
1,3-Dichloropropene	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
2,2-Dichloropropane	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
1,1-Dichloropropene	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
Diethyl ether	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
Ethylbenzene	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
Hexachlorobutadiene	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
Isopropylbenzene	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
Methylene Chloride	<0.271		0.271		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
4-Methyl-2-pentanone (MIBK)	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
Methyl tert-butyl ether	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
Naphthalene	<0.271		0.271		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
n-Butylbenzene	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
N-Propylbenzene	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
p-Isopropyltoluene	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
sec-Butylbenzene	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
Styrene	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
tert-Butylbenzene	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
1,1,1,2-Tetrachloroethane	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1

TestAmerica Cedar Falls

Client Sample Results

Client: Wenck Associates, Inc
 Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
 SDG: 3035-0005

Client Sample ID: SB-1 (0-1.5)
Date Collected: 05/12/16 14:00
Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-4
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
Tetrachloroethene	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
Tetrahydrofuran	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
Toluene	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
trans-1,2-Dichloroethene	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
trans-1,3-Dichloropropene	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
1,2,3-Trichlorobenzene	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
1,2,4-Trichlorobenzene	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
1,1,1-Trichloroethane	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
1,1,2-Trichloroethane	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
Trichloroethylene	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
Trichlorofluoromethane	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
1,2,3-Trichloropropane	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
1,1,2-Trichlorotrifluoroethane	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
1,2,4-Trimethylbenzene	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
1,3,5-Trimethylbenzene	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
Vinyl chloride	<0.108		0.108		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
Xylenes, Total	<0.162		0.162		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:20	1
Surrogate		%Recovery	Qualifier	Limits		Prepared		Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		100		70 - 135		05/18/16 07:38		05/19/16 00:20	1
Dibromofluoromethane (Surr)		95		80 - 120		05/18/16 07:38		05/19/16 00:20	1
Toluene-d8 (Surr)		101		80 - 120		05/18/16 07:38		05/19/16 00:20	1

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.106		0.106		mg/Kg	⊗	05/16/16 13:52	05/17/16 20:12	10
Acenaphthylene	<0.106		0.106		mg/Kg	⊗	05/16/16 13:52	05/17/16 20:12	10
Anthracene	<0.106		0.106		mg/Kg	⊗	05/16/16 13:52	05/17/16 20:12	10
Benzo[a]anthracene	<0.106		0.106		mg/Kg	⊗	05/16/16 13:52	05/17/16 20:12	10
Benzo[a]pyrene	<0.106		0.106		mg/Kg	⊗	05/16/16 13:52	05/17/16 20:12	10
Benzo[b]fluoranthene	<0.106		0.106		mg/Kg	⊗	05/16/16 13:52	05/17/16 20:12	10
Benzo[g,h,i]perylene	<0.106		0.106		mg/Kg	⊗	05/16/16 13:52	05/17/16 20:12	10
Benzo[k]fluoranthene	<0.106		0.106		mg/Kg	⊗	05/16/16 13:52	05/17/16 20:12	10
Chrysene	<0.106		0.106		mg/Kg	⊗	05/16/16 13:52	05/17/16 20:12	10
Dibenz(a,h)anthracene	<0.106		0.106		mg/Kg	⊗	05/16/16 13:52	05/17/16 20:12	10
Fluoranthene	<0.106		0.106		mg/Kg	⊗	05/16/16 13:52	05/17/16 20:12	10
Fluorene	<0.106		0.106		mg/Kg	⊗	05/16/16 13:52	05/17/16 20:12	10
Indeno[1,2,3-cd]pyrene	<0.106		0.106		mg/Kg	⊗	05/16/16 13:52	05/17/16 20:12	10
2-Methylnaphthalene	<0.106		0.106		mg/Kg	⊗	05/16/16 13:52	05/17/16 20:12	10
Naphthalene	<0.106		0.106		mg/Kg	⊗	05/16/16 13:52	05/17/16 20:12	10
Phenanthrene	<0.106		0.106		mg/Kg	⊗	05/16/16 13:52	05/17/16 20:12	10
Pyrene	<0.106		0.106		mg/Kg	⊗	05/16/16 13:52	05/17/16 20:12	10
Surrogate		%Recovery	Qualifier	Limits		Prepared		Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)		78		10 - 110		05/16/16 13:52		05/17/16 20:12	10
Nitrobenzene-d5 (Surr)		58		10 - 110		05/16/16 13:52		05/17/16 20:12	10
Terphenyl-d14 (Surr)		84		20 - 110		05/16/16 13:52		05/17/16 20:12	10

TestAmerica Cedar Falls

Client Sample Results

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

Client Sample ID: SB-1 (0-1.5)
Date Collected: 05/12/16 14:00
Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-4
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0539	*	0.0539		mg/Kg	⊗	05/16/16 13:54	05/17/16 18:18	1
PCB-1221	<0.0539		0.0539		mg/Kg	⊗	05/16/16 13:54	05/17/16 18:18	1
PCB-1232	<0.0539		0.0539		mg/Kg	⊗	05/16/16 13:54	05/17/16 18:18	1
PCB-1242	<0.0539		0.0539		mg/Kg	⊗	05/16/16 13:54	05/17/16 18:18	1
PCB-1248	<0.0539		0.0539		mg/Kg	⊗	05/16/16 13:54	05/17/16 18:18	1
PCB-1254	<0.0539		0.0539		mg/Kg	⊗	05/16/16 13:54	05/17/16 18:18	1
PCB-1260	<0.0539	*	0.0539		mg/Kg	⊗	05/16/16 13:54	05/17/16 18:18	1
PCB-1268	<0.0539		0.0539		mg/Kg	⊗	05/16/16 13:54	05/17/16 18:18	1
Polychlorinated biphenyls, Total	<0.0539		0.0539		mg/Kg	⊗	05/16/16 13:54	05/17/16 18:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	65		10 - 110				05/16/16 13:54	05/17/16 18:18	1
Tetrachloro-m-xylene	63		10 - 110				05/16/16 13:54	05/17/16 18:18	1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	10.2	*	5.17		mg/Kg	⊗	05/16/16 14:00	05/17/16 21:28	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	36.7		0.496		mg/Kg	⊗	05/17/16 10:00	05/17/16 19:06	1
Cadmium	<0.992		0.992		mg/Kg	⊗	05/17/16 10:00	05/17/16 19:06	1
Chromium	16.2		0.992		mg/Kg	⊗	05/17/16 10:00	05/17/16 19:06	1
Lead	<4.96		4.96		mg/Kg	⊗	05/17/16 10:00	05/17/16 19:06	1
Silver	<0.992		0.992		mg/Kg	⊗	05/17/16 10:00	05/17/16 19:06	1

Method: 7010 - Metals (GFAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.16		0.626		mg/Kg	⊗	05/17/16 10:00	05/18/16 14:26	12
Selenium	<1.04		1.04		mg/Kg	⊗	05/17/16 10:00	05/17/16 12:25	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0214		0.0214		mg/Kg	⊗	05/16/16 14:10	05/17/16 12:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.7		0.1		%			05/16/16 09:56	1
Percent Solids	91.3		0.1		%			05/16/16 09:56	1

Client Sample Results

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

Client Sample ID: SB-2 (2-3.5)

Date Collected: 05/12/16 15:30
Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-5

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.530		0.530		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
Allyl chloride	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
Benzene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
Bromobenzene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
Bromoform	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
Bromochloromethane	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
Bromodichloromethane	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
Bromoform	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
Bromomethane	<0.530		0.530		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
2-Butanone (MEK)	<0.265		0.265		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
Carbon tetrachloride	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
Chlorobenzene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
Chlorodibromomethane	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
Chloroethane	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
Chloroform	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
Chloromethane	<0.265		0.265		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
2-Chlorotoluene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
4-Chlorotoluene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
cis-1,2-Dichloroethene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
cis-1,3-Dichloropropene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
1,2-Dibromo-3-Chloropropane	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
1,2-Dibromoethane (EDB)	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
Dibromomethane	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
1,2-Dichlorobenzene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
1,3-Dichlorobenzene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
1,4-Dichlorobenzene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
Dichlorodifluoromethane	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
1,1-Dichloroethane	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
1,2-Dichloroethane	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
1,1-Dichloroethene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
Dichlorofluoromethane	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
1,2-Dichloropropene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
1,3-Dichloropropene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
2,2-Dichloropropane	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
1,1-Dichloropropene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
Diethyl ether	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
Ethylbenzene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
Hexachlorobutadiene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
Isopropylbenzene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
Methylene Chloride	<0.265		0.265		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
4-Methyl-2-pentanone (MIBK)	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
Methyl tert-butyl ether	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
Naphthalene	<0.265		0.265		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
n-Butylbenzene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
N-Propylbenzene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
p-Isopropyltoluene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
sec-Butylbenzene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
Styrene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
tert-Butylbenzene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
1,1,1,2-Tetrachloroethane	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1

TestAmerica Cedar Falls

Client Sample Results

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

Client Sample ID: SB-2 (2-3.5)
Date Collected: 05/12/16 15:30
Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-5
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
Tetrachloroethene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
Tetrahydrofuran	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
Toluene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
trans-1,2-Dichloroethene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
trans-1,3-Dichloropropene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
1,2,3-Trichlorobenzene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
1,2,4-Trichlorobenzene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
1,1,1-Trichloroethane	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
1,1,2-Trichloroethane	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
Trichloroethylene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
Trichlorofluoromethane	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
1,2,3-Trichloropropane	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
1,1,2-Trichlorotrifluoroethane	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
1,2,4-Trimethylbenzene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
1,3,5-Trimethylbenzene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
Vinyl chloride	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1
Xylenes, Total	<0.159		0.159		mg/Kg	⊗	05/18/16 07:38	05/19/16 00:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 135	05/18/16 07:38	05/19/16 00:44	1
Dibromofluoromethane (Surr)	95		80 - 120	05/18/16 07:38	05/19/16 00:44	1
Toluene-d8 (Surr)	103		80 - 120	05/18/16 07:38	05/19/16 00:44	1

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.101		0.101		mg/Kg	⊗	05/16/16 13:52	05/17/16 20:34	10
Acenaphthylene	<0.101		0.101		mg/Kg	⊗	05/16/16 13:52	05/17/16 20:34	10
Anthracene	<0.101		0.101		mg/Kg	⊗	05/16/16 13:52	05/17/16 20:34	10
Benzo[a]anthracene	0.259		0.101		mg/Kg	⊗	05/16/16 13:52	05/17/16 20:34	10
Benzo[a]pyrene	0.331		0.101		mg/Kg	⊗	05/16/16 13:52	05/17/16 20:34	10
Benzo[b]fluoranthene	0.463		0.101		mg/Kg	⊗	05/16/16 13:52	05/17/16 20:34	10
Benzo[g,h,i]perylene	0.222		0.101		mg/Kg	⊗	05/16/16 13:52	05/17/16 20:34	10
Benzo[k]fluoranthene	0.144		0.101		mg/Kg	⊗	05/16/16 13:52	05/17/16 20:34	10
Chrysene	0.299		0.101		mg/Kg	⊗	05/16/16 13:52	05/17/16 20:34	10
Dibenz(a,h)anthracene	<0.101		0.101		mg/Kg	⊗	05/16/16 13:52	05/17/16 20:34	10
Fluoranthene	0.466		0.101		mg/Kg	⊗	05/16/16 13:52	05/17/16 20:34	10
Fluorene	<0.101		0.101		mg/Kg	⊗	05/16/16 13:52	05/17/16 20:34	10
Indeno[1,2,3-cd]pyrene	0.185		0.101		mg/Kg	⊗	05/16/16 13:52	05/17/16 20:34	10
2-Methylnaphthalene	<0.101		0.101		mg/Kg	⊗	05/16/16 13:52	05/17/16 20:34	10
Naphthalene	<0.101		0.101		mg/Kg	⊗	05/16/16 13:52	05/17/16 20:34	10
Phenanthrene	0.141		0.101		mg/Kg	⊗	05/16/16 13:52	05/17/16 20:34	10
Pyrene	0.466		0.101		mg/Kg	⊗	05/16/16 13:52	05/17/16 20:34	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	72		10 - 110	05/16/16 13:52	05/17/16 20:34	10
Nitrobenzene-d5 (Surr)	53		10 - 110	05/16/16 13:52	05/17/16 20:34	10
Terphenyl-d14 (Surr)	78		20 - 110	05/16/16 13:52	05/17/16 20:34	10

TestAmerica Cedar Falls

Client Sample Results

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

Client Sample ID: SB-2 (2-3.5)
Date Collected: 05/12/16 15:30
Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-5
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0525	*	0.0525		mg/Kg	⊗	05/16/16 13:54	05/17/16 18:29	1
PCB-1221	<0.0525		0.0525		mg/Kg	⊗	05/16/16 13:54	05/17/16 18:29	1
PCB-1232	<0.0525		0.0525		mg/Kg	⊗	05/16/16 13:54	05/17/16 18:29	1
PCB-1242	<0.0525		0.0525		mg/Kg	⊗	05/16/16 13:54	05/17/16 18:29	1
PCB-1248	<0.0525		0.0525		mg/Kg	⊗	05/16/16 13:54	05/17/16 18:29	1
PCB-1254	<0.0525		0.0525		mg/Kg	⊗	05/16/16 13:54	05/17/16 18:29	1
PCB-1260	<0.0525	*	0.0525		mg/Kg	⊗	05/16/16 13:54	05/17/16 18:29	1
PCB-1268	<0.0525		0.0525		mg/Kg	⊗	05/16/16 13:54	05/17/16 18:29	1
Polychlorinated biphenyls, Total	<0.0525		0.0525		mg/Kg	⊗	05/16/16 13:54	05/17/16 18:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	65		10 - 110				05/16/16 13:54	05/17/16 18:29	1
Tetrachloro-m-xylene	62		10 - 110				05/16/16 13:54	05/17/16 18:29	1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	24.9	*	3.90		mg/Kg	⊗	05/16/16 14:00	05/17/16 22:04	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	42.5		0.953		mg/Kg	⊗	05/17/16 10:00	05/17/16 21:06	2
Cadmium	<1.91		1.91		mg/Kg	⊗	05/17/16 10:00	05/17/16 21:06	2
Chromium	12.6		1.91		mg/Kg	⊗	05/17/16 10:00	05/17/16 21:06	2
Lead	16.3		9.53		mg/Kg	⊗	05/17/16 10:00	05/17/16 21:06	2
Silver	<1.91		1.91		mg/Kg	⊗	05/17/16 10:00	05/17/16 21:06	2

Method: 7010 - Metals (GFAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.56		0.626		mg/Kg	⊗	05/17/16 10:00	05/18/16 14:30	12
Selenium	<1.04		1.04		mg/Kg	⊗	05/17/16 10:00	05/17/16 12:35	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0211		0.0211		mg/Kg	⊗	05/16/16 14:10	05/17/16 13:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.2		0.1		%			05/16/16 09:56	1
Percent Solids	92.8		0.1		%			05/16/16 09:56	1

Client Sample Results

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

Client Sample ID: SB-3 (4.5-6)

Date Collected: 05/13/16 09:30
Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-6

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.517		0.517		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
Allyl chloride	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
Benzene	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
Bromobenzene	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
Bromoform	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
Bromochloromethane	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
Bromodichloromethane	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
Bromoform	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
Bromomethane	<0.517		0.517		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
2-Butanone (MEK)	<0.259		0.259		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
Carbon tetrachloride	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
Chlorobenzene	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
Chlorodibromomethane	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
Chloroethane	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
Chloroform	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
Chloromethane	<0.259		0.259		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
2-Chlorotoluene	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
4-Chlorotoluene	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
cis-1,2-Dichloroethene	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
cis-1,3-Dichloropropene	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
1,2-Dibromo-3-Chloropropane	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
1,2-Dibromoethane (EDB)	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
Dibromomethane	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
1,2-Dichlorobenzene	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
1,3-Dichlorobenzene	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
1,4-Dichlorobenzene	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
Dichlorodifluoromethane	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
1,1-Dichloroethane	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
1,2-Dichloroethane	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
1,1-Dichloroethene	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
Dichlorofluoromethane	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
1,2-Dichloropropene	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
1,3-Dichloropropene	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
2,2-Dichloropropane	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
1,1-Dichloropropene	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
Diethyl ether	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
Ethylbenzene	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
Hexachlorobutadiene	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
Isopropylbenzene	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
Methylene Chloride	<0.259		0.259		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
4-Methyl-2-pentanone (MIBK)	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
Methyl tert-butyl ether	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
Naphthalene	<0.259		0.259		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
n-Butylbenzene	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
N-Propylbenzene	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
p-Isopropyltoluene	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
sec-Butylbenzene	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
Styrene	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
tert-Butylbenzene	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
1,1,1,2-Tetrachloroethane	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1

TestAmerica Cedar Falls

Client Sample Results

Client: Wenck Associates, Inc
 Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
 SDG: 3035-0005

Client Sample ID: SB-3 (4.5-6)
Date Collected: 05/13/16 09:30
Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-6
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
Tetrachloroethene	0.245		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
Tetrahydrofuran	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
Toluene	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
trans-1,2-Dichloroethene	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
trans-1,3-Dichloropropene	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
1,2,3-Trichlorobenzene	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
1,2,4-Trichlorobenzene	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
1,1,1-Trichloroethane	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
1,1,2-Trichloroethane	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
Trichloroethene	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
Trichlorofluoromethane	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
1,2,3-Trichloropropane	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
1,1,2-Trichlorotrifluoroethane	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
1,2,4-Trimethylbenzene	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
1,3,5-Trimethylbenzene	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
Vinyl chloride	<0.103		0.103		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
Xylenes, Total	<0.155		0.155		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 135				05/18/16 07:38	05/19/16 01:08	1
Dibromofluoromethane (Surr)	95		80 - 120				05/18/16 07:38	05/19/16 01:08	1
Toluene-d8 (Surr)	101		80 - 120				05/18/16 07:38	05/19/16 01:08	1

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0982		0.0982		mg/Kg	⊗	05/16/16 13:52	05/17/16 20:57	10
Acenaphthylene	<0.0982		0.0982		mg/Kg	⊗	05/16/16 13:52	05/17/16 20:57	10
Anthracene	<0.0982		0.0982		mg/Kg	⊗	05/16/16 13:52	05/17/16 20:57	10
Benzo[a]anthracene	0.342		0.0982		mg/Kg	⊗	05/16/16 13:52	05/17/16 20:57	10
Benzo[a]pyrene	0.342		0.0982		mg/Kg	⊗	05/16/16 13:52	05/17/16 20:57	10
Benzo[b]fluoranthene	0.484		0.0982		mg/Kg	⊗	05/16/16 13:52	05/17/16 20:57	10
Benzo[g,h,i]perylene	0.171		0.0982		mg/Kg	⊗	05/16/16 13:52	05/17/16 20:57	10
Benzo[k]fluoranthene	0.143		0.0982		mg/Kg	⊗	05/16/16 13:52	05/17/16 20:57	10
Chrysene	0.369		0.0982		mg/Kg	⊗	05/16/16 13:52	05/17/16 20:57	10
Dibenz(a,h)anthracene	<0.0982		0.0982		mg/Kg	⊗	05/16/16 13:52	05/17/16 20:57	10
Fluoranthene	0.553		0.0982		mg/Kg	⊗	05/16/16 13:52	05/17/16 20:57	10
Fluorene	<0.0982		0.0982		mg/Kg	⊗	05/16/16 13:52	05/17/16 20:57	10
Indeno[1,2,3-cd]pyrene	0.125		0.0982		mg/Kg	⊗	05/16/16 13:52	05/17/16 20:57	10
2-Methylnaphthalene	<0.0982		0.0982		mg/Kg	⊗	05/16/16 13:52	05/17/16 20:57	10
Naphthalene	<0.0982		0.0982		mg/Kg	⊗	05/16/16 13:52	05/17/16 20:57	10
Phenanthrene	0.197		0.0982		mg/Kg	⊗	05/16/16 13:52	05/17/16 20:57	10
Pyrene	0.601		0.0982		mg/Kg	⊗	05/16/16 13:52	05/17/16 20:57	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	69		10 - 110				05/16/16 13:52	05/17/16 20:57	10
Nitrobenzene-d5 (Surr)	54		10 - 110				05/16/16 13:52	05/17/16 20:57	10
Terphenyl-d14 (Surr)	70		20 - 110				05/16/16 13:52	05/17/16 20:57	10

TestAmerica Cedar Falls

Client Sample Results

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

Client Sample ID: SB-3 (4.5-6)
Date Collected: 05/13/16 09:30
Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-6
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0524	*	0.0524		mg/Kg	⊗	05/16/16 13:54	05/17/16 18:39	1
PCB-1221	<0.0524		0.0524		mg/Kg	⊗	05/16/16 13:54	05/17/16 18:39	1
PCB-1232	<0.0524		0.0524		mg/Kg	⊗	05/16/16 13:54	05/17/16 18:39	1
PCB-1242	<0.0524		0.0524		mg/Kg	⊗	05/16/16 13:54	05/17/16 18:39	1
PCB-1248	<0.0524		0.0524		mg/Kg	⊗	05/16/16 13:54	05/17/16 18:39	1
PCB-1254	<0.0524		0.0524		mg/Kg	⊗	05/16/16 13:54	05/17/16 18:39	1
PCB-1260	<0.0524	*	0.0524		mg/Kg	⊗	05/16/16 13:54	05/17/16 18:39	1
PCB-1268	<0.0524		0.0524		mg/Kg	⊗	05/16/16 13:54	05/17/16 18:39	1
Polychlorinated biphenyls, Total	<0.0524		0.0524		mg/Kg	⊗	05/16/16 13:54	05/17/16 18:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	57		10 - 110				05/16/16 13:54	05/17/16 18:39	1
Tetrachloro-m-xylene	53		10 - 110				05/16/16 13:54	05/17/16 18:39	1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	108	*	22.2		mg/Kg	⊗	05/16/16 14:00	05/17/16 22:40	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	36.7		0.878		mg/Kg	⊗	05/17/16 10:00	05/17/16 21:08	2
Cadmium	<1.76		1.76		mg/Kg	⊗	05/17/16 10:00	05/17/16 21:08	2
Chromium	14.0		1.76		mg/Kg	⊗	05/17/16 10:00	05/17/16 21:08	2
Lead	8.80		8.78		mg/Kg	⊗	05/17/16 10:00	05/17/16 21:08	2
Silver	<1.76		1.76		mg/Kg	⊗	05/17/16 10:00	05/17/16 21:08	2

Method: 7010 - Metals (GFAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.82		0.623		mg/Kg	⊗	05/17/16 10:00	05/18/16 14:38	12
Selenium	<1.04		1.04		mg/Kg	⊗	05/17/16 10:00	05/17/16 12:41	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0203		0.0203		mg/Kg	⊗	05/16/16 14:10	05/17/16 13:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.6		0.1		%			05/16/16 09:56	1
Percent Solids	94.4		0.1		%			05/16/16 09:56	1

Client Sample Results

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

Client Sample ID: SB-4 (2-3.5)

Date Collected: 05/13/16 11:00
Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-7

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.532		0.532		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
Allyl chloride	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
Benzene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
Bromobenzene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
Bromoform	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
Bromochloromethane	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
Bromodichloromethane	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
Bromoform	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
Bromomethane	<0.532		0.532		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
2-Butanone (MEK)	<0.266		0.266		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
Carbon tetrachloride	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
Chlorobenzene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
Chlorodibromomethane	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
Chloroethane	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
Chloroform	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
Chloromethane	<0.266		0.266		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
2-Chlorotoluene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
4-Chlorotoluene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
cis-1,2-Dichloroethene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
cis-1,3-Dichloropropene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
1,2-Dibromo-3-Chloropropane	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
1,2-Dibromoethane (EDB)	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
Dibromomethane	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
1,2-Dichlorobenzene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
1,3-Dichlorobenzene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
1,4-Dichlorobenzene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
Dichlorodifluoromethane	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
1,1-Dichloroethane	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
1,2-Dichloroethane	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
1,1-Dichloroethene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
Dichlorofluoromethane	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
1,2-Dichloropropene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
1,3-Dichloropropene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
2,2-Dichloropropane	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
1,1-Dichloropropene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
Diethyl ether	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
Ethylbenzene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
Hexachlorobutadiene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
Isopropylbenzene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
Methylene Chloride	<0.266		0.266		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
4-Methyl-2-pentanone (MIBK)	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
Methyl tert-butyl ether	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
Naphthalene	<0.266		0.266		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
n-Butylbenzene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
N-Propylbenzene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
p-Isopropyltoluene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
sec-Butylbenzene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
Styrene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
tert-Butylbenzene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
1,1,1,2-Tetrachloroethane	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1

TestAmerica Cedar Falls

Client Sample Results

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

Client Sample ID: SB-4 (2-3.5)
Date Collected: 05/13/16 11:00
Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-7
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
Tetrachloroethene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
Tetrahydrofuran	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
Toluene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
trans-1,2-Dichloroethene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
trans-1,3-Dichloropropene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
1,2,3-Trichlorobenzene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
1,2,4-Trichlorobenzene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
1,1,1-Trichloroethane	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
1,1,2-Trichloroethane	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
Trichloroethylene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
Trichlorofluoromethane	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
1,2,3-Trichloropropane	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
1,1,2-Trichlorotrifluoroethane	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
1,2,4-Trimethylbenzene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
1,3,5-Trimethylbenzene	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
Vinyl chloride	<0.106		0.106		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1
Xylenes, Total	<0.160		0.160		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 135	05/18/16 07:38	05/19/16 01:32	1
Dibromofluoromethane (Surr)	93		80 - 120	05/18/16 07:38	05/19/16 01:32	1
Toluene-d8 (Surr)	100		80 - 120	05/18/16 07:38	05/19/16 01:32	1

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.105		0.105		mg/Kg	⊗	05/16/16 13:52	05/18/16 15:37	10
Acenaphthylene	<0.105		0.105		mg/Kg	⊗	05/16/16 13:52	05/18/16 15:37	10
Anthracene	<0.105		0.105		mg/Kg	⊗	05/16/16 13:52	05/18/16 15:37	10
Benzo[a]anthracene	0.289		0.105		mg/Kg	⊗	05/16/16 13:52	05/18/16 15:37	10
Benzo[a]pyrene	0.356		0.105		mg/Kg	⊗	05/16/16 13:52	05/18/16 15:37	10
Benzo[b]fluoranthene	0.482		0.105		mg/Kg	⊗	05/16/16 13:52	05/18/16 15:37	10
Benzo[g,h,i]perylene	0.284		0.105		mg/Kg	⊗	05/16/16 13:52	05/18/16 15:37	10
Benzo[k]fluoranthene	0.144		0.105		mg/Kg	⊗	05/16/16 13:52	05/18/16 15:37	10
Chrysene	0.321		0.105		mg/Kg	⊗	05/16/16 13:52	05/18/16 15:37	10
Dibenz(a,h)anthracene	<0.105		0.105		mg/Kg	⊗	05/16/16 13:52	05/18/16 15:37	10
Fluoranthene	0.423		0.105		mg/Kg	⊗	05/16/16 13:52	05/18/16 15:37	10
Fluorene	<0.105		0.105		mg/Kg	⊗	05/16/16 13:52	05/18/16 15:37	10
Indeno[1,2,3-cd]pyrene	0.203		0.105		mg/Kg	⊗	05/16/16 13:52	05/18/16 15:37	10
2-Methylnaphthalene	<0.105		0.105		mg/Kg	⊗	05/16/16 13:52	05/18/16 15:37	10
Naphthalene	<0.105		0.105		mg/Kg	⊗	05/16/16 13:52	05/18/16 15:37	10
Phenanthrene	0.113		0.105		mg/Kg	⊗	05/16/16 13:52	05/18/16 15:37	10
Pyrene	0.493		0.105		mg/Kg	⊗	05/16/16 13:52	05/18/16 15:37	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	79		10 - 110	05/16/16 13:52	05/18/16 15:37	10
Nitrobenzene-d5 (Surr)	62		10 - 110	05/16/16 13:52	05/18/16 15:37	10
Terphenyl-d14 (Surr)	78		20 - 110	05/16/16 13:52	05/18/16 15:37	10

TestAmerica Cedar Falls

Client Sample Results

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

Client Sample ID: SB-4 (2-3.5)
Date Collected: 05/13/16 11:00
Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-7
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0514	*	0.0514		mg/Kg	⊗	05/16/16 13:54	05/17/16 18:50	1
PCB-1221	<0.0514		0.0514		mg/Kg	⊗	05/16/16 13:54	05/17/16 18:50	1
PCB-1232	<0.0514		0.0514		mg/Kg	⊗	05/16/16 13:54	05/17/16 18:50	1
PCB-1242	<0.0514		0.0514		mg/Kg	⊗	05/16/16 13:54	05/17/16 18:50	1
PCB-1248	<0.0514		0.0514		mg/Kg	⊗	05/16/16 13:54	05/17/16 18:50	1
PCB-1254	<0.0514		0.0514		mg/Kg	⊗	05/16/16 13:54	05/17/16 18:50	1
PCB-1260	<0.0514	*	0.0514		mg/Kg	⊗	05/16/16 13:54	05/17/16 18:50	1
PCB-1268	<0.0514		0.0514		mg/Kg	⊗	05/16/16 13:54	05/17/16 18:50	1
Polychlorinated biphenyls, Total	<0.0514		0.0514		mg/Kg	⊗	05/16/16 13:54	05/17/16 18:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	59		10 - 110				05/16/16 13:54	05/17/16 18:50	1
Tetrachloro-m-xylene	54		10 - 110				05/16/16 13:54	05/17/16 18:50	1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	42.5	*		18.1	mg/Kg	⊗	05/16/16 14:00	05/17/16 23:16	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	34.1			0.491	mg/Kg	⊗	05/17/16 10:00	05/17/16 19:14	1
Cadmium	<0.981			0.981	mg/Kg	⊗	05/17/16 10:00	05/17/16 19:14	1
Chromium	11.0			0.981	mg/Kg	⊗	05/17/16 10:00	05/17/16 19:14	1
Lead	9.69			4.91	mg/Kg	⊗	05/17/16 10:00	05/17/16 19:14	1
Silver	<0.981			0.981	mg/Kg	⊗	05/17/16 10:00	05/17/16 19:14	1

Method: 7010 - Metals (GFAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.29			0.608	mg/Kg	⊗	05/17/16 10:00	05/18/16 14:41	12
Selenium	<1.01			1.01	mg/Kg	⊗	05/17/16 10:00	05/17/16 12:44	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0192			0.0192	mg/Kg	⊗	05/16/16 14:10	05/17/16 13:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.0			0.1	%			05/16/16 09:56	1
Percent Solids	95.0			0.1	%			05/16/16 09:56	1

Client Sample Results

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

Client Sample ID: SB-8 (4.5-6)

Date Collected: 05/13/16 15:00
Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-8

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.523		0.523		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
Allyl chloride	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
Benzene	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
Bromobenzene	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
Bromoform	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
Bromochloromethane	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
Bromodichloromethane	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
Bromoform	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
Bromomethane	<0.523		0.523		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
2-Butanone (MEK)	<0.261		0.261		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
Carbon tetrachloride	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
Chlorobenzene	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
Chlorodibromomethane	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
Chloroethane	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
Chloroform	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
Chloromethane	<0.261		0.261		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
2-Chlorotoluene	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
4-Chlorotoluene	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
cis-1,2-Dichloroethene	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
cis-1,3-Dichloropropene	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
1,2-Dibromo-3-Chloropropane	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
1,2-Dibromoethane (EDB)	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
Dibromomethane	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
1,2-Dichlorobenzene	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
1,3-Dichlorobenzene	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
1,4-Dichlorobenzene	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
Dichlorodifluoromethane	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
1,1-Dichloroethane	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
1,2-Dichloroethane	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
1,1-Dichloroethene	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
Dichlorofluoromethane	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
1,2-Dichloropropene	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
1,3-Dichloropropene	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
2,2-Dichloropropane	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
1,1-Dichloropropene	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
Diethyl ether	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
Ethylbenzene	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
Hexachlorobutadiene	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
Isopropylbenzene	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
Methylene Chloride	<0.261		0.261		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
4-Methyl-2-pentanone (MIBK)	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
Methyl tert-butyl ether	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
Naphthalene	<0.261		0.261		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
n-Butylbenzene	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
N-Propylbenzene	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
p-Isopropyltoluene	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
sec-Butylbenzene	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
Styrene	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
tert-Butylbenzene	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
1,1,1,2-Tetrachloroethane	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1

TestAmerica Cedar Falls

Client Sample Results

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

Client Sample ID: SB-8 (4.5-6)
Date Collected: 05/13/16 15:00
Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-8
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
Tetrachloroethene	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
Tetrahydrofuran	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
Toluene	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
trans-1,2-Dichloroethene	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
trans-1,3-Dichloropropene	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
1,2,3-Trichlorobenzene	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
1,2,4-Trichlorobenzene	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
1,1,1-Trichloroethane	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
1,1,2-Trichloroethane	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
Trichloroethene	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
Trichlorofluoromethane	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
1,2,3-Trichloropropane	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
1,1,2-Trichlorotrifluoroethane	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
1,2,4-Trimethylbenzene	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
1,3,5-Trimethylbenzene	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
Vinyl chloride	<0.105		0.105		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
Xylenes, Total	<0.157		0.157		mg/Kg	⊗	05/18/16 07:38	05/19/16 01:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 135				05/18/16 07:38	05/19/16 01:56	1
Dibromofluoromethane (Surr)	94		80 - 120				05/18/16 07:38	05/19/16 01:56	1
Toluene-d8 (Surr)	99		80 - 120				05/18/16 07:38	05/19/16 01:56	1

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.103		0.103		mg/Kg	⊗	05/16/16 13:52	05/18/16 16:00	10
Acenaphthylene	<0.103		0.103		mg/Kg	⊗	05/16/16 13:52	05/18/16 16:00	10
Anthracene	<0.103		0.103		mg/Kg	⊗	05/16/16 13:52	05/18/16 16:00	10
Benzo[a]anthracene	<0.103		0.103		mg/Kg	⊗	05/16/16 13:52	05/18/16 16:00	10
Benzo[a]pyrene	<0.103		0.103		mg/Kg	⊗	05/16/16 13:52	05/18/16 16:00	10
Benzo[b]fluoranthene	0.139		0.103		mg/Kg	⊗	05/16/16 13:52	05/18/16 16:00	10
Benzo[g,h,i]perylene	0.110		0.103		mg/Kg	⊗	05/16/16 13:52	05/18/16 16:00	10
Benzo[k]fluoranthene	<0.103		0.103		mg/Kg	⊗	05/16/16 13:52	05/18/16 16:00	10
Chrysene	<0.103		0.103		mg/Kg	⊗	05/16/16 13:52	05/18/16 16:00	10
Dibenz(a,h)anthracene	<0.103		0.103		mg/Kg	⊗	05/16/16 13:52	05/18/16 16:00	10
Fluoranthene	0.165		0.103		mg/Kg	⊗	05/16/16 13:52	05/18/16 16:00	10
Fluorene	<0.103		0.103		mg/Kg	⊗	05/16/16 13:52	05/18/16 16:00	10
Indeno[1,2,3-cd]pyrene	<0.103		0.103		mg/Kg	⊗	05/16/16 13:52	05/18/16 16:00	10
2-Methylnaphthalene	<0.103		0.103		mg/Kg	⊗	05/16/16 13:52	05/18/16 16:00	10
Naphthalene	<0.103		0.103		mg/Kg	⊗	05/16/16 13:52	05/18/16 16:00	10
Phenanthrene	0.157		0.103		mg/Kg	⊗	05/16/16 13:52	05/18/16 16:00	10
Pyrene	0.267		0.103		mg/Kg	⊗	05/16/16 13:52	05/18/16 16:00	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	68		10 - 110				05/16/16 13:52	05/18/16 16:00	10
Nitrobenzene-d5 (Surr)	52		10 - 110				05/16/16 13:52	05/18/16 16:00	10
Terphenyl-d14 (Surr)	69		20 - 110				05/16/16 13:52	05/18/16 16:00	10

TestAmerica Cedar Falls

Client Sample Results

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

Client Sample ID: SB-8 (4.5-6)
Date Collected: 05/13/16 15:00
Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-8
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0508	*	0.0508		mg/Kg	⊗	05/16/16 13:54	05/17/16 19:00	1
PCB-1221	<0.0508		0.0508		mg/Kg	⊗	05/16/16 13:54	05/17/16 19:00	1
PCB-1232	<0.0508		0.0508		mg/Kg	⊗	05/16/16 13:54	05/17/16 19:00	1
PCB-1242	<0.0508		0.0508		mg/Kg	⊗	05/16/16 13:54	05/17/16 19:00	1
PCB-1248	<0.0508		0.0508		mg/Kg	⊗	05/16/16 13:54	05/17/16 19:00	1
PCB-1254	<0.0508		0.0508		mg/Kg	⊗	05/16/16 13:54	05/17/16 19:00	1
PCB-1260	<0.0508	*	0.0508		mg/Kg	⊗	05/16/16 13:54	05/17/16 19:00	1
PCB-1268	<0.0508		0.0508		mg/Kg	⊗	05/16/16 13:54	05/17/16 19:00	1
Polychlorinated biphenyls, Total	<0.0508		0.0508		mg/Kg	⊗	05/16/16 13:54	05/17/16 19:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	64		10 - 110				05/16/16 13:54	05/17/16 19:00	1
Tetrachloro-m-xylene	60		10 - 110				05/16/16 13:54	05/17/16 19:00	1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	33.2	*	4.22		mg/Kg	⊗	05/16/16 14:00	05/17/16 23:52	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	26.0		1.01		mg/Kg	⊗	05/17/16 10:00	05/17/16 21:10	2
Cadmium	<2.02		2.02		mg/Kg	⊗	05/17/16 10:00	05/17/16 21:10	2
Chromium	10.4		2.02		mg/Kg	⊗	05/17/16 10:00	05/17/16 21:10	2
Lead	<10.1		10.1		mg/Kg	⊗	05/17/16 10:00	05/17/16 21:10	2
Silver	<2.02		2.02		mg/Kg	⊗	05/17/16 10:00	05/17/16 21:10	2

Method: 7010 - Metals (GFAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.11		0.539		mg/Kg	⊗	05/17/16 10:00	05/18/16 14:45	12
Selenium	<0.898		0.898		mg/Kg	⊗	05/17/16 10:00	05/17/16 12:48	4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0979		0.0183		mg/Kg	⊗	05/16/16 14:10	05/17/16 13:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.3		0.1		%			05/16/16 09:56	1
Percent Solids	94.7		0.1		%			05/16/16 09:56	1

Client Sample Results

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

Client Sample ID: MeOH Trip Blank

Date Collected: 05/13/16 00:00
Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-9

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.500		0.500		mg/Kg	05/18/16 07:38	05/19/16 02:21		1
Allyl chloride	<0.100		0.100		mg/Kg	05/18/16 07:38	05/19/16 02:21		1
Benzene	<0.100		0.100		mg/Kg	05/18/16 07:38	05/19/16 02:21		1
Bromobenzene	<0.100		0.100		mg/Kg	05/18/16 07:38	05/19/16 02:21		1
Bromoform	<0.100		0.100		mg/Kg	05/18/16 07:38	05/19/16 02:21		1
Bromochloromethane	<0.100		0.100		mg/Kg	05/18/16 07:38	05/19/16 02:21		1
Bromodichloromethane	<0.100		0.100		mg/Kg	05/18/16 07:38	05/19/16 02:21		1
Bromoform	<0.100		0.100		mg/Kg	05/18/16 07:38	05/19/16 02:21		1
Bromomethane	<0.500		0.500		mg/Kg	05/18/16 07:38	05/19/16 02:21		1
2-Butanone (MEK)	<0.250		0.250		mg/Kg	05/18/16 07:38	05/19/16 02:21		1
Carbon tetrachloride	<0.100		0.100		mg/Kg	05/18/16 07:38	05/19/16 02:21		1
Chlorobenzene	<0.100		0.100		mg/Kg	05/18/16 07:38	05/19/16 02:21		1
Chlorodibromomethane	<0.100		0.100		mg/Kg	05/18/16 07:38	05/19/16 02:21		1
Chloroethane	<0.100		0.100		mg/Kg	05/18/16 07:38	05/19/16 02:21		1
Chloroform	<0.100		0.100		mg/Kg	05/18/16 07:38	05/19/16 02:21		1
Chloromethane	<0.250		0.250		mg/Kg	05/18/16 07:38	05/19/16 02:21		1
2-Chlorotoluene	<0.100		0.100		mg/Kg	05/18/16 07:38	05/19/16 02:21		1
4-Chlorotoluene	<0.100		0.100		mg/Kg	05/18/16 07:38	05/19/16 02:21		1
cis-1,2-Dichloroethene	<0.100		0.100		mg/Kg	05/18/16 07:38	05/19/16 02:21		1
cis-1,3-Dichloropropene	<0.100		0.100		mg/Kg	05/18/16 07:38	05/19/16 02:21		1
1,2-Dibromo-3-Chloropropane	<0.100		0.100		mg/Kg	05/18/16 07:38	05/19/16 02:21		1
1,2-Dibromoethane (EDB)	<0.100		0.100		mg/Kg	05/18/16 07:38	05/19/16 02:21		1
Dibromomethane	<0.100		0.100		mg/Kg	05/18/16 07:38	05/19/16 02:21		1
1,2-Dichlorobenzene	<0.100		0.100		mg/Kg	05/18/16 07:38	05/19/16 02:21		1
1,3-Dichlorobenzene	<0.100		0.100		mg/Kg	05/18/16 07:38	05/19/16 02:21		1
1,4-Dichlorobenzene	<0.100		0.100		mg/Kg	05/18/16 07:38	05/19/16 02:21		1
Dichlorodifluoromethane	<0.100		0.100		mg/Kg	05/18/16 07:38	05/19/16 02:21		1
1,1-Dichloroethane	<0.100		0.100		mg/Kg	05/18/16 07:38	05/19/16 02:21		1
1,2-Dichloroethane	<0.100		0.100		mg/Kg	05/18/16 07:38	05/19/16 02:21		1
1,1-Dichloroethene	<0.100		0.100		mg/Kg	05/18/16 07:38	05/19/16 02:21		1
Dichlorofluoromethane	<0.100		0.100		mg/Kg	05/18/16 07:38	05/19/16 02:21		1
1,2-Dichloropropene	<0.100		0.100		mg/Kg	05/18/16 07:38	05/19/16 02:21		1
1,3-Dichloropropene	<0.100		0.100		mg/Kg	05/18/16 07:38	05/19/16 02:21		1
2,2-Dichloropropane	<0.100		0.100		mg/Kg	05/18/16 07:38	05/19/16 02:21		1
1,1-Dichloropropene	<0.100		0.100		mg/Kg	05/18/16 07:38	05/19/16 02:21		1
Diethyl ether	<0.100		0.100		mg/Kg	05/18/16 07:38	05/19/16 02:21		1
Ethylbenzene	<0.100		0.100		mg/Kg	05/18/16 07:38	05/19/16 02:21		1
Hexachlorobutadiene	<0.100		0.100		mg/Kg	05/18/16 07:38	05/19/16 02:21		1
Isopropylbenzene	<0.100		0.100		mg/Kg	05/18/16 07:38	05/19/16 02:21		1
Methylene Chloride	<0.250		0.250		mg/Kg	05/18/16 07:38	05/19/16 02:21		1
4-Methyl-2-pentanone (MIBK)	<0.100		0.100		mg/Kg	05/18/16 07:38	05/19/16 02:21		1
Methyl tert-butyl ether	<0.100		0.100		mg/Kg	05/18/16 07:38	05/19/16 02:21		1
Naphthalene	<0.250		0.250		mg/Kg	05/18/16 07:38	05/19/16 02:21		1
n-Butylbenzene	<0.100		0.100		mg/Kg	05/18/16 07:38	05/19/16 02:21		1
N-Propylbenzene	<0.100		0.100		mg/Kg	05/18/16 07:38	05/19/16 02:21		1
p-Isopropyltoluene	<0.100		0.100		mg/Kg	05/18/16 07:38	05/19/16 02:21		1
sec-Butylbenzene	<0.100		0.100		mg/Kg	05/18/16 07:38	05/19/16 02:21		1
Styrene	<0.100		0.100		mg/Kg	05/18/16 07:38	05/19/16 02:21		1
tert-Butylbenzene	<0.100		0.100		mg/Kg	05/18/16 07:38	05/19/16 02:21		1
1,1,1,2-Tetrachloroethane	<0.100		0.100		mg/Kg	05/18/16 07:38	05/19/16 02:21		1

TestAmerica Cedar Falls

Client Sample Results

Client: Wenck Associates, Inc
 Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
 SDG: 3035-0005

Client Sample ID: MeOH Trip Blank

Date Collected: 05/13/16 00:00

Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-9

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.100		0.100		mg/Kg		05/18/16 07:38	05/19/16 02:21	1
Tetrachloroethene	<0.100		0.100		mg/Kg		05/18/16 07:38	05/19/16 02:21	1
Tetrahydrofuran	<0.100		0.100		mg/Kg		05/18/16 07:38	05/19/16 02:21	1
Toluene	<0.100		0.100		mg/Kg		05/18/16 07:38	05/19/16 02:21	1
trans-1,2-Dichloroethene	<0.100		0.100		mg/Kg		05/18/16 07:38	05/19/16 02:21	1
trans-1,3-Dichloropropene	<0.100		0.100		mg/Kg		05/18/16 07:38	05/19/16 02:21	1
1,2,3-Trichlorobenzene	<0.100		0.100		mg/Kg		05/18/16 07:38	05/19/16 02:21	1
1,2,4-Trichlorobenzene	<0.100		0.100		mg/Kg		05/18/16 07:38	05/19/16 02:21	1
1,1,1-Trichloroethane	<0.100		0.100		mg/Kg		05/18/16 07:38	05/19/16 02:21	1
1,1,2-Trichloroethane	<0.100		0.100		mg/Kg		05/18/16 07:38	05/19/16 02:21	1
Trichloroethene	<0.100		0.100		mg/Kg		05/18/16 07:38	05/19/16 02:21	1
Trichlorofluoromethane	<0.100		0.100		mg/Kg		05/18/16 07:38	05/19/16 02:21	1
1,2,3-Trichloropropane	<0.100		0.100		mg/Kg		05/18/16 07:38	05/19/16 02:21	1
1,1,2-Trichlorotrifluoroethane	<0.100		0.100		mg/Kg		05/18/16 07:38	05/19/16 02:21	1
1,2,4-Trimethylbenzene	<0.100		0.100		mg/Kg		05/18/16 07:38	05/19/16 02:21	1
1,3,5-Trimethylbenzene	<0.100		0.100		mg/Kg		05/18/16 07:38	05/19/16 02:21	1
Vinyl chloride	<0.100		0.100		mg/Kg		05/18/16 07:38	05/19/16 02:21	1
Xylenes, Total	<0.150		0.150		mg/Kg		05/18/16 07:38	05/19/16 02:21	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		99		70 - 135			05/18/16 07:38	05/19/16 02:21	1
Dibromofluoromethane (Surr)		92		80 - 120			05/18/16 07:38	05/19/16 02:21	1
Toluene-d8 (Surr)		101		80 - 120			05/18/16 07:38	05/19/16 02:21	1

Definitions/Glossary

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits

GC Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits
X	Surrogate is outside control limits

Glossary

Abbreviation

These commonly used abbreviations may or may not be present in this report.

□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
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
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)

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Surrogate Summary

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (70-135)	DBFM (80-120)	TOL (80-120)
310-80618-1	SB-5 (2-3.5)	100	95	100
310-80618-2	SB-6 (2-3.5)	98	96	101
310-80618-2 MS	SB-6 (2-3.5)	100	101	101
310-80618-2 MSD	SB-6 (2-3.5)	99	98	101
310-80618-3	SB-7 (2-3.5)	102	94	100
310-80618-4	SB-1 (0-1.5)	100	95	101
310-80618-5	SB-2 (2-3.5)	102	95	103
310-80618-6	SB-3 (4.5-6)	98	95	101
310-80618-7	SB-4 (2-3.5)	98	93	100
310-80618-8	SB-8 (4.5-6)	98	94	99
310-80618-9	MeOH Trip Blank	99	92	101
LCS 310-127938/2-A	Lab Control Sample	101	101	101
MB 310-127938/1-A	Method Blank	98	93	100

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (10-110)	NBZ (10-110)	TPH (20-110)
310-80618-1	SB-5 (2-3.5)	75	57	79
310-80618-2	SB-6 (2-3.5)	71	49	93
310-80618-3	SB-7 (2-3.5)	20	13	24
310-80618-4	SB-1 (0-1.5)	78	58	84
310-80618-5	SB-2 (2-3.5)	72	53	78
310-80618-6	SB-3 (4.5-6)	69	54	70
310-80618-7	SB-4 (2-3.5)	79	62	78
310-80618-8	SB-8 (4.5-6)	68	52	69
LCS 310-127606/2-A	Lab Control Sample	63	55	72
MB 310-127606/1-A	Method Blank	70	60	76

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)

NBZ = Nitrobenzene-d5 (Surr)

TPH = Terphenyl-d14 (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCB1 (10-110)	TCX1 (10-110)
310-80618-1	SB-5 (2-3.5)	48	50
310-80618-2	SB-6 (2-3.5)	71	62
310-80618-3	SB-7 (2-3.5)	66	61

TestAmerica Cedar Falls

Surrogate Summary

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCB1 (10-110)	TCX1 (10-110)
310-80618-4	SB-1 (0-1.5)	65	63
310-80618-5	SB-2 (2-3.5)	65	62
310-80618-6	SB-3 (4.5-6)	57	53
310-80618-7	SB-4 (2-3.5)	59	54
310-80618-8	SB-8 (4.5-6)	64	60
LCS 310-127604/2-A	Lab Control Sample	102	92
LCS 310-128653/2-A	Lab Control Sample	49	45
MB 310-127604/1-A	Method Blank	111 X	107
MB 310-128653/1-A	Method Blank	51	52

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

QC Sample Results

Client: Wenck Associates, Inc
 Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
 SDG: 3035-0005

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

Lab Sample ID: MB 310-127938/1-A

Matrix: Solid

Analysis Batch: 127941

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 127938

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.457		0.457		mg/Kg	05/18/16 07:38	05/18/16 21:55		1
Allyl chloride	<0.0914		0.0914		mg/Kg	05/18/16 07:38	05/18/16 21:55		1
Benzene	<0.0914		0.0914		mg/Kg	05/18/16 07:38	05/18/16 21:55		1
Bromobenzene	<0.0914		0.0914		mg/Kg	05/18/16 07:38	05/18/16 21:55		1
Bromochloromethane	<0.0914		0.0914		mg/Kg	05/18/16 07:38	05/18/16 21:55		1
Bromodichloromethane	<0.0914		0.0914		mg/Kg	05/18/16 07:38	05/18/16 21:55		1
Bromoform	<0.0914		0.0914		mg/Kg	05/18/16 07:38	05/18/16 21:55		1
Bromomethane	<0.457		0.457		mg/Kg	05/18/16 07:38	05/18/16 21:55		1
2-Butanone (MEK)	<0.228		0.228		mg/Kg	05/18/16 07:38	05/18/16 21:55		1
Carbon tetrachloride	<0.0914		0.0914		mg/Kg	05/18/16 07:38	05/18/16 21:55		1
Chlorobenzene	<0.0914		0.0914		mg/Kg	05/18/16 07:38	05/18/16 21:55		1
Chlorodibromomethane	<0.0914		0.0914		mg/Kg	05/18/16 07:38	05/18/16 21:55		1
Chloroethane	<0.0914		0.0914		mg/Kg	05/18/16 07:38	05/18/16 21:55		1
Chloroform	<0.0914		0.0914		mg/Kg	05/18/16 07:38	05/18/16 21:55		1
Chloromethane	<0.228		0.228		mg/Kg	05/18/16 07:38	05/18/16 21:55		1
2-Chlorotoluene	<0.0914		0.0914		mg/Kg	05/18/16 07:38	05/18/16 21:55		1
4-Chlorotoluene	<0.0914		0.0914		mg/Kg	05/18/16 07:38	05/18/16 21:55		1
cis-1,2-Dichloroethene	<0.0914		0.0914		mg/Kg	05/18/16 07:38	05/18/16 21:55		1
cis-1,3-Dichloropropene	<0.0914		0.0914		mg/Kg	05/18/16 07:38	05/18/16 21:55		1
1,2-Dibromo-3-Chloropropane	<0.0914		0.0914		mg/Kg	05/18/16 07:38	05/18/16 21:55		1
1,2-Dibromoethane (EDB)	<0.0914		0.0914		mg/Kg	05/18/16 07:38	05/18/16 21:55		1
Dibromomethane	<0.0914		0.0914		mg/Kg	05/18/16 07:38	05/18/16 21:55		1
1,2-Dichlorobenzene	<0.0914		0.0914		mg/Kg	05/18/16 07:38	05/18/16 21:55		1
1,3-Dichlorobenzene	<0.0914		0.0914		mg/Kg	05/18/16 07:38	05/18/16 21:55		1
1,4-Dichlorobenzene	<0.0914		0.0914		mg/Kg	05/18/16 07:38	05/18/16 21:55		1
Dichlorodifluoromethane	<0.0914		0.0914		mg/Kg	05/18/16 07:38	05/18/16 21:55		1
1,1-Dichloroethane	<0.0914		0.0914		mg/Kg	05/18/16 07:38	05/18/16 21:55		1
1,2-Dichloroethane	<0.0914		0.0914		mg/Kg	05/18/16 07:38	05/18/16 21:55		1
1,1-Dichloroethene	<0.0914		0.0914		mg/Kg	05/18/16 07:38	05/18/16 21:55		1
Dichlorofluoromethane	<0.0914		0.0914		mg/Kg	05/18/16 07:38	05/18/16 21:55		1
1,2-Dichloropropane	<0.0914		0.0914		mg/Kg	05/18/16 07:38	05/18/16 21:55		1
1,3-Dichloropropane	<0.0914		0.0914		mg/Kg	05/18/16 07:38	05/18/16 21:55		1
2,2-Dichloropropane	<0.0914		0.0914		mg/Kg	05/18/16 07:38	05/18/16 21:55		1
1,1-Dichloropropene	<0.0914		0.0914		mg/Kg	05/18/16 07:38	05/18/16 21:55		1
Diethyl ether	<0.0914		0.0914		mg/Kg	05/18/16 07:38	05/18/16 21:55		1
Ethylbenzene	<0.0914		0.0914		mg/Kg	05/18/16 07:38	05/18/16 21:55		1
Hexachlorobutadiene	<0.0914		0.0914		mg/Kg	05/18/16 07:38	05/18/16 21:55		1
Isopropylbenzene	<0.0914		0.0914		mg/Kg	05/18/16 07:38	05/18/16 21:55		1
Methylene Chloride	<0.228		0.228		mg/Kg	05/18/16 07:38	05/18/16 21:55		1
4-Methyl-2-pentanone (MIBK)	<0.0914		0.0914		mg/Kg	05/18/16 07:38	05/18/16 21:55		1
Methyl tert-butyl ether	<0.0914		0.0914		mg/Kg	05/18/16 07:38	05/18/16 21:55		1
Naphthalene	<0.228		0.228		mg/Kg	05/18/16 07:38	05/18/16 21:55		1
n-Butylbenzene	<0.0914		0.0914		mg/Kg	05/18/16 07:38	05/18/16 21:55		1
N-Propylbenzene	<0.0914		0.0914		mg/Kg	05/18/16 07:38	05/18/16 21:55		1
p-Isopropyltoluene	<0.0914		0.0914		mg/Kg	05/18/16 07:38	05/18/16 21:55		1
sec-Butylbenzene	<0.0914		0.0914		mg/Kg	05/18/16 07:38	05/18/16 21:55		1
Styrene	<0.0914		0.0914		mg/Kg	05/18/16 07:38	05/18/16 21:55		1
tert-Butylbenzene	<0.0914		0.0914		mg/Kg	05/18/16 07:38	05/18/16 21:55		1

TestAmerica Cedar Falls

QC Sample Results

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

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

Lab Sample ID: MB 310-127938/1-A

Matrix: Solid

Analysis Batch: 127941

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 127938

Analyte	MB Result	MB Qualifier	MB RL	MB MDL	MB Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.0914		0.0914		mg/Kg		05/18/16 07:38	05/18/16 21:55	1
1,1,2,2-Tetrachloroethane	<0.0914		0.0914		mg/Kg		05/18/16 07:38	05/18/16 21:55	1
Tetrachloroethene	<0.0914		0.0914		mg/Kg		05/18/16 07:38	05/18/16 21:55	1
Tetrahydrofuran	<0.0914		0.0914		mg/Kg		05/18/16 07:38	05/18/16 21:55	1
Toluene	<0.0914		0.0914		mg/Kg		05/18/16 07:38	05/18/16 21:55	1
trans-1,2-Dichloroethene	<0.0914		0.0914		mg/Kg		05/18/16 07:38	05/18/16 21:55	1
trans-1,3-Dichloropropene	<0.0914		0.0914		mg/Kg		05/18/16 07:38	05/18/16 21:55	1
1,2,3-Trichlorobenzene	<0.0914		0.0914		mg/Kg		05/18/16 07:38	05/18/16 21:55	1
1,2,4-Trichlorobenzene	<0.0914		0.0914		mg/Kg		05/18/16 07:38	05/18/16 21:55	1
1,1,1-Trichloroethane	<0.0914		0.0914		mg/Kg		05/18/16 07:38	05/18/16 21:55	1
1,1,2-Trichloroethane	<0.0914		0.0914		mg/Kg		05/18/16 07:38	05/18/16 21:55	1
Trichloroethene	<0.0914		0.0914		mg/Kg		05/18/16 07:38	05/18/16 21:55	1
Trichlorofluoromethane	<0.0914		0.0914		mg/Kg		05/18/16 07:38	05/18/16 21:55	1
1,2,3-Trichloropropane	<0.0914		0.0914		mg/Kg		05/18/16 07:38	05/18/16 21:55	1
1,1,2-Trichlorotrifluoroethane	<0.0914		0.0914		mg/Kg		05/18/16 07:38	05/18/16 21:55	1
1,2,4-Trimethylbenzene	<0.0914		0.0914		mg/Kg		05/18/16 07:38	05/18/16 21:55	1
1,3,5-Trimethylbenzene	<0.0914		0.0914		mg/Kg		05/18/16 07:38	05/18/16 21:55	1
Vinyl chloride	<0.0914		0.0914		mg/Kg		05/18/16 07:38	05/18/16 21:55	1
Xylenes, Total	<0.137		0.137		mg/Kg		05/18/16 07:38	05/18/16 21:55	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 135			1
Dibromofluoromethane (Surr)	93		80 - 120			1
Toluene-d8 (Surr)	100		80 - 120			1

Lab Sample ID: LCS 310-127938/2-A

Matrix: Solid

Analysis Batch: 127941

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 127938

Analyte	Spike Added	LCS Result	LCS Qualifier	LCS Unit	D	%Rec	%Rec.
Acetone	1.84	2.150		mg/Kg		117	70 - 150
Allyl chloride	0.919	1.013		mg/Kg		110	65 - 150
Benzene	0.919	1.027		mg/Kg		112	65 - 145
Bromobenzene	0.919	1.006		mg/Kg		109	65 - 135
Bromochloromethane	0.919	1.056		mg/Kg		115	65 - 150
Bromodichloromethane	0.919	0.9908		mg/Kg		108	55 - 150
Bromoform	0.919	0.8720		mg/Kg		95	55 - 135
2-Butanone (MEK)	1.84	1.960		mg/Kg		107	55 - 150
Carbon tetrachloride	0.919	0.9959		mg/Kg		108	60 - 145
Chlorobenzene	0.919	1.021		mg/Kg		111	70 - 135
Chlorodibromomethane	0.919	0.9430		mg/Kg		103	55 - 135
Chloroform	0.919	0.9990		mg/Kg		109	65 - 145
2-Chlorotoluene	0.919	1.001		mg/Kg		109	70 - 130
4-Chlorotoluene	0.919	0.9963		mg/Kg		108	70 - 130
cis-1,2-Dichloroethene	0.919	1.008		mg/Kg		110	65 - 145
cis-1,3-Dichloropropene	0.919	0.9991		mg/Kg		109	65 - 140
1,2-Dibromo-3-Chloropropane	0.919	0.8645		mg/Kg		94	45 - 140
1,2-Dibromoethane (EDB)	0.919	1.011		mg/Kg		110	65 - 140

TestAmerica Cedar Falls

QC Sample Results

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

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

Lab Sample ID: LCS 310-127938/2-A

Matrix: Solid

Analysis Batch: 127941

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 127938

%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Dibromomethane	0.919	1.049		mg/Kg	114	65 - 150	
1,2-Dichlorobenzene	0.919	1.015		mg/Kg	110	65 - 135	
1,3-Dichlorobenzene	0.919	1.033		mg/Kg	112	65 - 135	
1,4-Dichlorobenzene	0.919	1.001		mg/Kg	109	65 - 135	
1,1-Dichloroethane	0.919	1.014		mg/Kg	110	65 - 150	
1,2-Dichloroethane	0.919	1.005		mg/Kg	109	60 - 150	
1,1-Dichloroethene	0.919	1.005		mg/Kg	109	65 - 145	
1,2-Dichloropropane	0.919	1.010		mg/Kg	110	65 - 150	
1,3-Dichloropropane	0.919	1.012		mg/Kg	110	65 - 140	
2,2-Dichloropropane	0.919	0.9508		mg/Kg	103	65 - 150	
1,1-Dichloropropene	0.919	1.020		mg/Kg	111	70 - 140	
Diethyl ether	0.919	1.048		mg/Kg	114	60 - 150	
Ethylbenzene	0.919	1.044		mg/Kg	114	70 - 135	
Hexachlorobutadiene	0.919	0.9781		mg/Kg	106	50 - 145	
Isopropylbenzene	0.919	1.043		mg/Kg	114	70 - 135	
Methylene Chloride	0.919	1.026		mg/Kg	112	55 - 150	
4-Methyl-2-pentanone (MIBK)	1.84	2.055		mg/Kg	112	50 - 145	
Methyl tert-butyl ether	0.919	1.050		mg/Kg	114	65 - 150	
Naphthalene	0.919	0.9781		mg/Kg	106	50 - 145	
n-Butylbenzene	0.919	1.010		mg/Kg	110	65 - 135	
N-Propylbenzene	0.919	1.036		mg/Kg	113	70 - 135	
p-Isopropyltoluene	0.919	1.003		mg/Kg	109	65 - 135	
sec-Butylbenzene	0.919	1.011		mg/Kg	110	65 - 130	
Styrene	0.919	1.011		mg/Kg	110	70 - 135	
tert-Butylbenzene	0.919	0.9962		mg/Kg	108	65 - 135	
1,1,1,2-Tetrachloroethane	0.919	1.015		mg/Kg	110	65 - 130	
1,1,2,2-Tetrachloroethane	0.919	1.043		mg/Kg	113	60 - 140	
Tetrachloroethene	0.919	1.057		mg/Kg	115	65 - 140	
Tetrahydrofuran	1.84	2.096		mg/Kg	114	55 - 150	
Toluene	0.919	1.043		mg/Kg	114	70 - 135	
trans-1,2-Dichloroethene	0.919	1.024		mg/Kg	111	65 - 145	
trans-1,3-Dichloropropene	0.919	1.002		mg/Kg	109	65 - 140	
1,2,3-Trichlorobenzene	0.919	1.009		mg/Kg	110	55 - 140	
1,2,4-Trichlorobenzene	0.919	1.001		mg/Kg	109	50 - 140	
1,1,1-Trichloroethane	0.919	1.011		mg/Kg	110	65 - 145	
1,1,2-Trichloroethane	0.919	1.019		mg/Kg	111	65 - 140	
Trichloroethene	0.919	1.049		mg/Kg	114	65 - 145	
1,2,3-Trichloropropane	0.919	1.049		mg/Kg	114	60 - 140	
1,1,2-Trichlorotrifluoroethane	0.919	1.033		mg/Kg	112	60 - 150	
1,2,4-Trimethylbenzene	0.919	0.9839		mg/Kg	107	65 - 130	
1,3,5-Trimethylbenzene	0.919	0.9828		mg/Kg	107	70 - 130	
Xylenes, Total	1.84	2.022		mg/Kg	110	70 - 135	

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 135
Dibromofluoromethane (Surr)	101		80 - 120
Toluene-d8 (Surr)	101		80 - 120

TestAmerica Cedar Falls

QC Sample Results

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

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

Lab Sample ID: 310-80618-2 MS

Matrix: Solid

Analysis Batch: 127941

Client Sample ID: SB-6 (2-3.5)

Prep Type: Total/NA

Prep Batch: 127938

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Acetone	<0.552		2.04	1.725		mg/Kg	⊗	84	70 - 150
Allyl chloride	<0.110		1.02	0.8868		mg/Kg	⊗	87	65 - 150
Benzene	<0.110		1.02	0.9489		mg/Kg	⊗	93	65 - 145
Bromobenzene	<0.110		1.02	0.9407		mg/Kg	⊗	92	65 - 135
Bromochloromethane	<0.110		1.02	0.9280		mg/Kg	⊗	91	65 - 150
Bromodichloromethane	<0.110		1.02	0.8962		mg/Kg	⊗	88	55 - 105
Bromoform	<0.110		1.02	0.7418		mg/Kg	⊗	73	55 - 135
2-Butanone (MEK)	<0.276		2.04	1.571		mg/Kg	⊗	77	55 - 150
Carbon tetrachloride	<0.110		1.02	0.9209		mg/Kg	⊗	90	60 - 145
Chlorobenzene	<0.110		1.02	0.9383		mg/Kg	⊗	92	70 - 135
Chlorodibromomethane	<0.110		1.02	0.7994		mg/Kg	⊗	78	55 - 135
Chloroform	<0.110		1.02	0.9409		mg/Kg	⊗	92	65 - 145
2-Chlorotoluene	<0.110		1.02	0.9204		mg/Kg	⊗	90	70 - 130
4-Chlorotoluene	<0.110		1.02	0.9378		mg/Kg	⊗	92	70 - 130
cis-1,2-Dichloroethene	<0.110		1.02	0.9360		mg/Kg	⊗	92	65 - 145
cis-1,3-Dichloropropene	<0.110		1.02	0.8967		mg/Kg	⊗	88	65 - 140
1,2-Dibromo-3-Chloropropane	<0.110	F1 F2	1.02	0.3845	F1	mg/Kg	⊗	38	45 - 140
1,2-Dibromoethane (EDB)	<0.110		1.02	0.8982		mg/Kg	⊗	88	65 - 140
Dibromomethane	<0.110		1.02	0.8963		mg/Kg	⊗	88	65 - 150
1,2-Dichlorobenzene	<0.110		1.02	0.9580		mg/Kg	⊗	94	65 - 135
1,3-Dichlorobenzene	<0.110		1.02	0.9381		mg/Kg	⊗	92	65 - 135
1,4-Dichlorobenzene	<0.110		1.02	0.9651		mg/Kg	⊗	94	65 - 135
1,1-Dichloroethane	<0.110		1.02	0.9498		mg/Kg	⊗	93	65 - 150
1,2-Dichloroethane	<0.110		1.02	0.9121		mg/Kg	⊗	89	60 - 150
1,1-Dichloroethene	<0.110		1.02	0.9270		mg/Kg	⊗	91	65 - 145
1,2-Dichloropropane	<0.110		1.02	0.9272		mg/Kg	⊗	91	65 - 150
1,3-Dichloropropane	<0.110		1.02	0.9203		mg/Kg	⊗	90	65 - 140
2,2-Dichloropropane	<0.110		1.02	0.8142		mg/Kg	⊗	80	65 - 150
1,1-Dichloropropene	<0.110		1.02	0.9564		mg/Kg	⊗	94	70 - 140
Diethyl ether	<0.110		1.02	0.9133		mg/Kg	⊗	89	60 - 150
Ethylbenzene	<0.110		1.02	0.9654		mg/Kg	⊗	95	70 - 135
Hexachlorobutadiene	<0.110		1.02	0.9360		mg/Kg	⊗	92	50 - 145
Isopropylbenzene	<0.110		1.02	0.9714		mg/Kg	⊗	95	70 - 135
Methylene Chloride	<0.276		1.02	0.9693		mg/Kg	⊗	95	55 - 150
4-Methyl-2-pentanone (MIBK)	<0.110		2.04	1.707		mg/Kg	⊗	84	50 - 145
Methyl tert-butyl ether	<0.110		1.02	0.9060		mg/Kg	⊗	89	65 - 150
Naphthalene	<0.276		1.02	0.8520		mg/Kg	⊗	83	50 - 145
n-Butylbenzene	<0.110		1.02	0.9484		mg/Kg	⊗	93	65 - 135
N-Propylbenzene	<0.110		1.02	0.9749		mg/Kg	⊗	95	70 - 135
p-Isopropyltoluene	<0.110		1.02	0.9454		mg/Kg	⊗	93	65 - 135
sec-Butylbenzene	<0.110		1.02	0.9356		mg/Kg	⊗	92	65 - 130
Styrene	<0.110		1.02	0.9297		mg/Kg	⊗	91	70 - 135
tert-Butylbenzene	<0.110		1.02	0.9142		mg/Kg	⊗	90	65 - 135
1,1,1,2-Tetrachloroethane	<0.110		1.02	0.9144		mg/Kg	⊗	90	65 - 130
1,1,2,2-Tetrachloroethane	<0.110		1.02	0.9302		mg/Kg	⊗	91	60 - 140
Tetrachloroethene	<0.110		1.02	1.050		mg/Kg	⊗	103	65 - 140
Tetrahydrofuran	<0.110		2.04	1.763		mg/Kg	⊗	86	55 - 150
Toluene	<0.110		1.02	0.9692		mg/Kg	⊗	95	70 - 135

TestAmerica Cedar Falls

QC Sample Results

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

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

Lab Sample ID: 310-80618-2 MS

Matrix: Solid

Analysis Batch: 127941

Client Sample ID: SB-6 (2-3.5)

Prep Type: Total/NA

Prep Batch: 127938

%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits		
trans-1,2-Dichloroethene	<0.110		1.02	0.9492		mg/Kg	⊗	93	65 - 145		
trans-1,3-Dichloropropene	<0.110		1.02	0.8585		mg/Kg	⊗	84	65 - 140		
1,2,3-Trichlorobenzene	<0.110		1.02	0.9050		mg/Kg	⊗	89	55 - 140		
1,2,4-Trichlorobenzene	<0.110		1.02	0.9173		mg/Kg	⊗	90	50 - 140		
1,1,1-Trichloroethane	<0.110		1.02	0.9466		mg/Kg	⊗	93	65 - 145		
1,1,2-Trichloroethane	<0.110		1.02	0.9320		mg/Kg	⊗	91	65 - 140		
Trichloroethene	<0.110		1.02	0.9830		mg/Kg	⊗	96	65 - 145		
1,2,3-Trichloropropane	<0.110		1.02	0.9519		mg/Kg	⊗	93	60 - 140		
1,1,2-Trichlorotrifluoroethane	<0.110		1.02	0.9719		mg/Kg	⊗	95	60 - 150		
1,2,4-Trimethylbenzene	<0.110		1.02	0.9269		mg/Kg	⊗	91	65 - 130		
1,3,5-Trimethylbenzene	<0.110		1.02	0.9063		mg/Kg	⊗	89	70 - 130		
Xylenes, Total	<0.166		2.04	1.894		mg/Kg	⊗	93	70 - 135		

MS MS

Surrogate	MS Recovery	MS Qualifier	MS Limits
4-Bromofluorobenzene (Surr)	100		70 - 135
Dibromofluoromethane (Surr)	101		80 - 120
Toluene-d8 (Surr)	101		80 - 120

Lab Sample ID: 310-80618-2 MSD

Matrix: Solid

Analysis Batch: 127941

Client Sample ID: SB-6 (2-3.5)

Prep Type: Total/NA

Prep Batch: 127938

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acetone	<0.552		2.10	1.757		mg/Kg	⊗	84	70 - 150	2	40
Allyl chloride	<0.110		1.05	0.9076		mg/Kg	⊗	86	65 - 150	2	35
Benzene	<0.110		1.05	0.9501		mg/Kg	⊗	91	65 - 145	0	15
Bromobenzene	<0.110		1.05	0.9377		mg/Kg	⊗	89	65 - 135	0	20
Bromochloromethane	<0.110		1.05	0.9420		mg/Kg	⊗	90	65 - 150	2	20
Bromodichloromethane	<0.110		1.05	0.9013		mg/Kg	⊗	86	55 - 105	1	20
Bromoform	<0.110		1.05	0.7836		mg/Kg	⊗	75	55 - 135	5	25
2-Butanone (MEK)	<0.276		2.10	1.662		mg/Kg	⊗	79	55 - 150	6	30
Carbon tetrachloride	<0.110		1.05	0.9224		mg/Kg	⊗	88	60 - 145	0	30
Chlorobenzene	<0.110		1.05	0.9305		mg/Kg	⊗	89	70 - 135	1	15
Chlorodibromomethane	<0.110		1.05	0.8166		mg/Kg	⊗	78	55 - 135	2	20
Chloroform	<0.110		1.05	0.9374		mg/Kg	⊗	89	65 - 145	0	20
2-Chlorotoluene	<0.110		1.05	0.9064		mg/Kg	⊗	86	70 - 130	2	15
4-Chlorotoluene	<0.110		1.05	0.9170		mg/Kg	⊗	87	70 - 130	2	20
cis-1,2-Dichloroethene	<0.110		1.05	0.9279		mg/Kg	⊗	88	65 - 145	1	20
cis-1,3-Dichloropropene	<0.110		1.05	0.8966		mg/Kg	⊗	85	65 - 140	0	20
1,2-Dibromo-3-Chloropropane	<0.110	F1 F2	1.05	0.8547	F2	mg/Kg	⊗	81	45 - 140	76	40
1,2-Dibromoethane (EDB)	<0.110		1.05	0.9291		mg/Kg	⊗	89	65 - 140	3	20
Dibromomethane	<0.110		1.05	0.9249		mg/Kg	⊗	88	65 - 150	3	25
1,2-Dichlorobenzene	<0.110		1.05	0.9551		mg/Kg	⊗	91	65 - 135	0	20
1,3-Dichlorobenzene	<0.110		1.05	0.9306		mg/Kg	⊗	89	65 - 135	1	20
1,4-Dichlorobenzene	<0.110		1.05	0.9373		mg/Kg	⊗	89	65 - 135	3	20
1,1-Dichloroethane	<0.110		1.05	0.9328		mg/Kg	⊗	89	65 - 150	2	20
1,2-Dichloroethane	<0.110		1.05	0.9192		mg/Kg	⊗	88	60 - 150	1	20
1,1-Dichloroethene	<0.110		1.05	0.9248		mg/Kg	⊗	88	65 - 145	0	20

TestAmerica Cedar Falls

QC Sample Results

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

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

Lab Sample ID: 310-80618-2 MSD

Matrix: Solid

Analysis Batch: 127941

Client Sample ID: SB-6 (2-3.5)

Prep Type: Total/NA

Prep Batch: 127938

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
1,2-Dichloropropane	<0.110		1.05	0.9344		mg/Kg	⊗	89	65 - 150	1	15
1,3-Dichloropropane	<0.110		1.05	0.9213		mg/Kg	⊗	88	65 - 140	0	20
2,2-Dichloropropane	<0.110		1.05	0.8121		mg/Kg	⊗	77	65 - 150	0	20
1,1-Dichloropropene	<0.110		1.05	0.9664		mg/Kg	⊗	92	70 - 140	1	20
Diethyl ether	<0.110		1.05	0.9408		mg/Kg	⊗	90	60 - 150	3	25
Ethylbenzene	<0.110		1.05	0.9709		mg/Kg	⊗	93	70 - 135	1	20
Hexachlorobutadiene	<0.110		1.05	0.9521		mg/Kg	⊗	91	50 - 145	2	25
Isopropylbenzene	<0.110		1.05	0.9694		mg/Kg	⊗	92	70 - 135	0	20
Methylene Chloride	<0.276		1.05	0.9672		mg/Kg	⊗	92	55 - 150	0	25
4-Methyl-2-pentanone (MIBK)	<0.110		2.10	1.802		mg/Kg	⊗	86	50 - 145	5	40
Methyl tert-butyl ether	<0.110		1.05	0.9367		mg/Kg	⊗	89	65 - 150	3	20
Naphthalene	<0.276		1.05	0.9278		mg/Kg	⊗	88	50 - 145	9	30
n-Butylbenzene	<0.110		1.05	0.9254		mg/Kg	⊗	88	65 - 135	2	20
N-Propylbenzene	<0.110		1.05	0.9599		mg/Kg	⊗	91	70 - 135	2	20
p-Isopropyltoluene	<0.110		1.05	0.9196		mg/Kg	⊗	88	65 - 135	3	20
sec-Butylbenzene	<0.110		1.05	0.9154		mg/Kg	⊗	87	65 - 130	2	20
Styrene	<0.110		1.05	0.9305		mg/Kg	⊗	89	70 - 135	0	20
tert-Butylbenzene	<0.110		1.05	0.8905		mg/Kg	⊗	85	65 - 135	3	20
1,1,1,2-Tetrachloroethane	<0.110		1.05	0.9096		mg/Kg	⊗	87	65 - 130	1	20
1,1,2,2-Tetrachloroethane	<0.110		1.05	1.003		mg/Kg	⊗	96	60 - 140	8	25
Tetrachloroethene	<0.110		1.05	1.045		mg/Kg	⊗	100	65 - 140	1	25
Tetrahydrofuran	<0.110		2.10	1.881		mg/Kg	⊗	90	55 - 150	6	30
Toluene	<0.110		1.05	0.9647		mg/Kg	⊗	92	70 - 135	0	20
trans-1,2-Dichloroethene	<0.110		1.05	0.9603		mg/Kg	⊗	92	65 - 145	1	20
trans-1,3-Dichloropropene	<0.110		1.05	0.8633		mg/Kg	⊗	82	65 - 140	1	20
1,2,3-Trichlorobenzene	<0.110		1.05	0.9485		mg/Kg	⊗	90	55 - 140	5	25
1,2,4-Trichlorobenzene	<0.110		1.05	0.9573		mg/Kg	⊗	91	50 - 140	4	25
1,1,1-Trichloroethane	<0.110		1.05	0.9415		mg/Kg	⊗	90	65 - 145	1	20
1,1,2-Trichloroethane	<0.110		1.05	0.9469		mg/Kg	⊗	90	65 - 140	2	20
Trichloroethene	<0.110		1.05	0.9764		mg/Kg	⊗	93	65 - 145	1	20
1,2,3-Trichloropropane	<0.110		1.05	0.9377		mg/Kg	⊗	89	60 - 140	2	30
1,1,2-Trichlorotrifluoroethane	<0.110		1.05	0.9634		mg/Kg	⊗	92	60 - 150	1	40
1,2,4-Trimethylbenzene	<0.110		1.05	0.9183		mg/Kg	⊗	87	65 - 130	1	20
1,3,5-Trimethylbenzene	<0.110		1.05	0.9015		mg/Kg	⊗	86	70 - 130	1	20
Xylenes, Total	<0.166		2.10	1.909		mg/Kg	⊗	91	70 - 135	1	20

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	99		70 - 135
Dibromofluoromethane (Surr)	98		80 - 120
Toluene-d8 (Surr)	101		80 - 120

TestAmerica Cedar Falls

QC Sample Results

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL)

Lab Sample ID: MB 310-127606/1-A

Matrix: Solid

Analysis Batch: 127803

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 127606

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00944		0.00944		mg/Kg	05/13/16 19:34	05/17/16 14:14	05/17/16 14:14	1
Acenaphthylene	<0.00944		0.00944		mg/Kg	05/13/16 19:34	05/17/16 14:14	05/17/16 14:14	1
Anthracene	<0.00944		0.00944		mg/Kg	05/13/16 19:34	05/17/16 14:14	05/17/16 14:14	1
Benzo[a]anthracene	<0.00944		0.00944		mg/Kg	05/13/16 19:34	05/17/16 14:14	05/17/16 14:14	1
Benzo[a]pyrene	<0.00944		0.00944		mg/Kg	05/13/16 19:34	05/17/16 14:14	05/17/16 14:14	1
Benzo[b]fluoranthene	<0.00944		0.00944		mg/Kg	05/13/16 19:34	05/17/16 14:14	05/17/16 14:14	1
Benzo[g,h,i]perylene	<0.00944		0.00944		mg/Kg	05/13/16 19:34	05/17/16 14:14	05/17/16 14:14	1
Benzo[k]fluoranthene	<0.00944		0.00944		mg/Kg	05/13/16 19:34	05/17/16 14:14	05/17/16 14:14	1
Chrysene	<0.00944		0.00944		mg/Kg	05/13/16 19:34	05/17/16 14:14	05/17/16 14:14	1
Dibenz(a,h)anthracene	<0.00944		0.00944		mg/Kg	05/13/16 19:34	05/17/16 14:14	05/17/16 14:14	1
Fluoranthene	<0.00944		0.00944		mg/Kg	05/13/16 19:34	05/17/16 14:14	05/17/16 14:14	1
Fluorene	<0.00944		0.00944		mg/Kg	05/13/16 19:34	05/17/16 14:14	05/17/16 14:14	1
Indeno[1,2,3-cd]pyrene	<0.00944		0.00944		mg/Kg	05/13/16 19:34	05/17/16 14:14	05/17/16 14:14	1
2-Methylnaphthalene	<0.00944		0.00944		mg/Kg	05/13/16 19:34	05/17/16 14:14	05/17/16 14:14	1
Naphthalene	<0.00944		0.00944		mg/Kg	05/13/16 19:34	05/17/16 14:14	05/17/16 14:14	1
Phenanthrene	<0.00944		0.00944		mg/Kg	05/13/16 19:34	05/17/16 14:14	05/17/16 14:14	1
Pyrene	<0.00944		0.00944		mg/Kg	05/13/16 19:34	05/17/16 14:14	05/17/16 14:14	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	70		10 - 110	05/13/16 19:34	05/17/16 14:14	1
Nitrobenzene-d5 (Surr)	60		10 - 110	05/13/16 19:34	05/17/16 14:14	1
Terphenyl-d14 (Surr)	76		20 - 110	05/13/16 19:34	05/17/16 14:14	1

Lab Sample ID: LCS 310-127606/2-A

Matrix: Solid

Analysis Batch: 127803

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 127606

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	0.188	0.08576		mg/Kg	46	20 - 110	
Acenaphthylene	0.188	0.09680		mg/Kg	52	20 - 110	
Anthracene	0.188	0.1158		mg/Kg	62	30 - 110	
Benzo[a]anthracene	0.188	0.1247		mg/Kg	66	50 - 110	
Benzo[a]pyrene	0.188	0.1213		mg/Kg	65	45 - 110	
Benzo[b]fluoranthene	0.188	0.1265		mg/Kg	67	40 - 110	
Benzo[g,h,i]perylene	0.188	0.1288		mg/Kg	69	20 - 110	
Benzo[k]fluoranthene	0.188	0.1042		mg/Kg	56	45 - 110	
Chrysene	0.188	0.1079		mg/Kg	58	45 - 110	
Dibenz(a,h)anthracene	0.188	0.1292		mg/Kg	69	10 - 110	
Fluoranthene	0.188	0.1219		mg/Kg	65	40 - 110	
Fluorene	0.188	0.08913		mg/Kg	48	25 - 110	
Indeno[1,2,3-cd]pyrene	0.188	0.1301		mg/Kg	69	40 - 110	
2-Methylnaphthalene	0.188	0.1070		mg/Kg	57	15 - 110	
Naphthalene	0.188	0.1147		mg/Kg	61	15 - 110	
Phenanthrene	0.188	0.1084		mg/Kg	58	25 - 110	
Pyrene	0.188	0.1153		mg/Kg	61	40 - 110	

TestAmerica Cedar Falls

QC Sample Results

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL) (Continued)

Lab Sample ID: LCS 310-127606/2-A
Matrix: Solid
Analysis Batch: 127803

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127606

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	63		10 - 110
Nitrobenzene-d5 (Surr)	55		10 - 110
Terphenyl-d14 (Surr)	72		20 - 110

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

Lab Sample ID: MB 310-127604/1-A
Matrix: Solid
Analysis Batch: 127842

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 127604

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0497		0.0497		mg/Kg		05/13/16 19:31	05/17/16 16:12	1
PCB-1221	<0.0497		0.0497		mg/Kg		05/13/16 19:31	05/17/16 16:12	1
PCB-1232	<0.0497		0.0497		mg/Kg		05/13/16 19:31	05/17/16 16:12	1
PCB-1242	<0.0497		0.0497		mg/Kg		05/13/16 19:31	05/17/16 16:12	1
PCB-1248	<0.0497		0.0497		mg/Kg		05/13/16 19:31	05/17/16 16:12	1
PCB-1254	<0.0497		0.0497		mg/Kg		05/13/16 19:31	05/17/16 16:12	1
PCB-1260	<0.0497		0.0497		mg/Kg		05/13/16 19:31	05/17/16 16:12	1
PCB-1268	<0.0497		0.0497		mg/Kg		05/13/16 19:31	05/17/16 16:12	1
Polychlorinated biphenyls, Total	<0.0497		0.0497		mg/Kg		05/13/16 19:31	05/17/16 16:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	111	X	10 - 110
Tetrachloro-m-xylene	107		10 - 110

Lab Sample ID: LCS 310-127604/2-A
Matrix: Solid
Analysis Batch: 127842

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127604

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
PCB-1016	0.195	0.2676	*	mg/Kg		137	35 - 110
PCB-1260	0.195	0.2664	*	mg/Kg		137	35 - 115
							Limits

Surrogate	MB %Recovery	MB Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	102		10 - 110
Tetrachloro-m-xylene	92		10 - 110

Lab Sample ID: MB 310-128653/1-A
Matrix: Solid
Analysis Batch: 128658

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 128653

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0492		0.0492		mg/Kg		05/24/16 10:09	05/24/16 17:48	1
PCB-1221	<0.0492		0.0492		mg/Kg		05/24/16 10:09	05/24/16 17:48	1
PCB-1232	<0.0492		0.0492		mg/Kg		05/24/16 10:09	05/24/16 17:48	1
PCB-1242	<0.0492		0.0492		mg/Kg		05/24/16 10:09	05/24/16 17:48	1
PCB-1248	<0.0492		0.0492		mg/Kg		05/24/16 10:09	05/24/16 17:48	1

TestAmerica Cedar Falls

QC Sample Results

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

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

Lab Sample ID: MB 310-128653/1-A

Matrix: Solid

Analysis Batch: 128658

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 128653

Analyte	MB		RL	MDL	Unit	D	Prepared		Dil Fac
	Result	Qualifier					Prepared	Analyzed	
PCB-1254	<0.0492		0.0492		mg/Kg		05/24/16 10:09	05/24/16 17:48	1
PCB-1260	<0.0492		0.0492		mg/Kg		05/24/16 10:09	05/24/16 17:48	1
PCB-1268	<0.0492		0.0492		mg/Kg		05/24/16 10:09	05/24/16 17:48	1
Polychlorinated biphenyls, Total	<0.0492		0.0492		mg/Kg		05/24/16 10:09	05/24/16 17:48	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
DCB Decachlorobiphenyl (Surr)	51		10 - 110	05/24/16 10:09	05/24/16 17:48	1
Tetrachloro-m-xylene	52		10 - 110	05/24/16 10:09	05/24/16 17:48	1

Lab Sample ID: LCS 310-128653/2-A

Matrix: Solid

Analysis Batch: 128658

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 128653

Analyte	Spike		LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
	Added	Result						
PCB-1016		0.199	0.1018		mg/Kg		51	35 - 110
PCB-1260		0.199	0.08752		mg/Kg		44	35 - 115

Surrogate	LCS		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
DCB Decachlorobiphenyl (Surr)	49		10 - 110			
Tetrachloro-m-xylene	45		10 - 110			

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Lab Sample ID: MB 310-127730/1-A

Matrix: Solid

Analysis Batch: 127812

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 127730

Analyte	MB		RL	MDL	Unit	D	Prepared		Dil Fac
	Result	Qualifier					Prepared	Analyzed	
Diesel Range Organics (DRO)	<6.81		6.81		mg/Kg		05/16/16 14:00	05/17/16 11:42	1

Analyte	Spike		LCS Result	LCS Qualifier	Unit	D	%Rec	Limits	Prepared	Analyzed	Dil Fac
	Added	Result									
Diesel Range Organics (DRO)		96.9	93.00		mg/Kg		96	70 - 120			

Analyte	Spike		LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
	Added	Result								
Diesel Range Organics (DRO)		97.6	57.95	*	mg/Kg		59	70 - 120	46	20

TestAmerica Cedar Falls

QC Sample Results

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 310-127725/1-A

Matrix: Solid

Analysis Batch: 127945

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 127725

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.461		0.461		mg/Kg		05/17/16 10:00	05/17/16 18:28	1
Cadmium	<0.922		0.922		mg/Kg		05/17/16 10:00	05/17/16 18:28	1
Chromium	<0.922		0.922		mg/Kg		05/17/16 10:00	05/17/16 18:28	1
Lead	<4.61		4.61		mg/Kg		05/17/16 10:00	05/17/16 18:28	1
Silver	<0.922		0.922		mg/Kg		05/17/16 10:00	05/17/16 18:28	1

Lab Sample ID: LCS 310-127725/2-A

Matrix: Solid

Analysis Batch: 127945

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 127725

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Barium	90.5	84.77		mg/Kg		94	80 - 120
Cadmium	90.5	85.74		mg/Kg		95	80 - 120
Chromium	90.5	85.56		mg/Kg		95	80 - 120
Lead	181	171.1		mg/Kg		95	80 - 120
Silver	90.5	89.14		mg/Kg		99	80 - 120

Lab Sample ID: 310-80618-4 DU

Matrix: Solid

Analysis Batch: 127945

Client Sample ID: SB-1 (0-1.5)

Prep Type: Total/NA

Prep Batch: 127725

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Barium	36.7		37.94		mg/Kg	⊗	3	20
Cadmium	<0.992		<0.990		mg/Kg	⊗	NC	20
Chromium	16.2		16.33		mg/Kg	⊗	1	20
Lead	<4.96		5.490		mg/Kg	⊗	NC	20
Silver	<0.992		<0.990		mg/Kg	⊗	NC	20

Method: 7010 - Metals (GFAA)

Lab Sample ID: MB 310-127726/1-A

Matrix: Solid

Analysis Batch: 127880

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 127726

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.233		0.233		mg/Kg		05/17/16 10:00	05/17/16 11:33	1

Lab Sample ID: MB 310-127726/1-A

Matrix: Solid

Analysis Batch: 128080

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 127726

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0465		0.0465		mg/Kg		05/17/16 10:00	05/18/16 13:16	1

TestAmerica Cedar Falls

QC Sample Results

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

Method: 7010 - Metals (GFAA) (Continued)

Lab Sample ID: LCS 310-127726/2-A ^2 Matrix: Solid Analysis Batch: 127880				Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 127726					
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.			
Selenium	3.75	3.486		mg/Kg		93	80 - 120		
Lab Sample ID: LCS 310-127726/2-A ^2 Matrix: Solid Analysis Batch: 128080				Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 127726					
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.			
Arsenic	1.87	2.098		mg/Kg		112	80 - 120		
Lab Sample ID: 310-80618-5 DU Matrix: Solid Analysis Batch: 127880				Client Sample ID: SB-2 (2-3.5) Prep Type: Total/NA Prep Batch: 127726					
Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D		RPD	Limit
Selenium	<1.04		<0.980		mg/Kg	⊗		NC	20
Lab Sample ID: 310-80618-5 DU Matrix: Solid Analysis Batch: 128080				Client Sample ID: SB-2 (2-3.5) Prep Type: Total/NA Prep Batch: 127726					
Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D		RPD	Limit
Arsenic	2.56		2.670		mg/Kg	⊗		4	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 310-127737/1-A Matrix: Solid Analysis Batch: 127878				Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 127737					
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0198		0.0198		mg/Kg		05/16/16 14:10	05/17/16 12:27	1
Lab Sample ID: LCS 310-127737/2-A Matrix: Solid Analysis Batch: 127878				Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 127737					
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.			
Mercury	0.158	0.1357		mg/Kg		86	80 - 120		

Method: Moisture - Percent Moisture

Lab Sample ID: 310-80618-1 DU Matrix: Solid Analysis Batch: 127696				Client Sample ID: SB-5 (2-3.5) Prep Type: Total/NA					
Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D		RPD	Limit
Percent Moisture	13.2		12.8		%			3	20
Percent Solids	86.8		87.2		%			0.5	20

TestAmerica Cedar Falls

QC Association Summary

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

GC/MS VOA

Prep Batch: 127938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-80618-1	SB-5 (2-3.5)	Total/NA	Solid	5035	1
310-80618-2	SB-6 (2-3.5)	Total/NA	Solid	5035	2
310-80618-2 MS	SB-6 (2-3.5)	Total/NA	Solid	5035	3
310-80618-2 MSD	SB-6 (2-3.5)	Total/NA	Solid	5035	4
310-80618-3	SB-7 (2-3.5)	Total/NA	Solid	5035	5
310-80618-4	SB-1 (0-1.5)	Total/NA	Solid	5035	6
310-80618-5	SB-2 (2-3.5)	Total/NA	Solid	5035	7
310-80618-6	SB-3 (4.5-6)	Total/NA	Solid	5035	8
310-80618-7	SB-4 (2-3.5)	Total/NA	Solid	5035	9
310-80618-8	SB-8 (4.5-6)	Total/NA	Solid	5035	10
310-80618-9	MeOH Trip Blank	Total/NA	Solid	5035	11
LCS 310-127938/2-A	Lab Control Sample	Total/NA	Solid	5035	
MB 310-127938/1-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 127941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-80618-1	SB-5 (2-3.5)	Total/NA	Solid	8260B	127938
310-80618-2	SB-6 (2-3.5)	Total/NA	Solid	8260B	127938
310-80618-2 MS	SB-6 (2-3.5)	Total/NA	Solid	8260B	13
310-80618-2 MSD	SB-6 (2-3.5)	Total/NA	Solid	8260B	14
310-80618-3	SB-7 (2-3.5)	Total/NA	Solid	8260B	127938
310-80618-4	SB-1 (0-1.5)	Total/NA	Solid	8260B	127938
310-80618-5	SB-2 (2-3.5)	Total/NA	Solid	8260B	127938
310-80618-6	SB-3 (4.5-6)	Total/NA	Solid	8260B	127938
310-80618-7	SB-4 (2-3.5)	Total/NA	Solid	8260B	127938
310-80618-8	SB-8 (4.5-6)	Total/NA	Solid	8260B	127938
310-80618-9	MeOH Trip Blank	Total/NA	Solid	8260B	127938
LCS 310-127938/2-A	Lab Control Sample	Total/NA	Solid	8260B	127938
MB 310-127938/1-A	Method Blank	Total/NA	Solid	8260B	127938

GC/MS Semi VOA

Prep Batch: 127606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-80618-1	SB-5 (2-3.5)	Total/NA	Solid	3546	1
310-80618-2	SB-6 (2-3.5)	Total/NA	Solid	3546	2
310-80618-3	SB-7 (2-3.5)	Total/NA	Solid	3546	3
310-80618-4	SB-1 (0-1.5)	Total/NA	Solid	3546	4
310-80618-5	SB-2 (2-3.5)	Total/NA	Solid	3546	5
310-80618-6	SB-3 (4.5-6)	Total/NA	Solid	3546	6
310-80618-7	SB-4 (2-3.5)	Total/NA	Solid	3546	7
310-80618-8	SB-8 (4.5-6)	Total/NA	Solid	3546	8
LCS 310-127606/2-A	Lab Control Sample	Total/NA	Solid	3546	9
MB 310-127606/1-A	Method Blank	Total/NA	Solid	3546	10

Analysis Batch: 127803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-80618-1	SB-5 (2-3.5)	Total/NA	Solid	8270D SIM	127606
310-80618-2	SB-6 (2-3.5)	Total/NA	Solid	8270D SIM	127606
310-80618-3	SB-7 (2-3.5)	Total/NA	Solid	8270D SIM	127606

TestAmerica Cedar Falls

QC Association Summary

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

GC/MS Semi VOA (Continued)

Analysis Batch: 127803 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-80618-4	SB-1 (0-1.5)	Total/NA	Solid	8270D SIM	127606
310-80618-5	SB-2 (2-3.5)	Total/NA	Solid	8270D SIM	127606
310-80618-6	SB-3 (4.5-6)	Total/NA	Solid	8270D SIM	127606
LCS 310-127606/2-A	Lab Control Sample	Total/NA	Solid	8270D SIM	127606
MB 310-127606/1-A	Method Blank	Total/NA	Solid	8270D SIM	127606

Analysis Batch: 127958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-80618-7	SB-4 (2-3.5)	Total/NA	Solid	8270D SIM	127606
310-80618-8	SB-8 (4.5-6)	Total/NA	Solid	8270D SIM	127606

GC Semi VOA

Prep Batch: 127604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-80618-2	SB-6 (2-3.5)	Total/NA	Solid	3546	12
310-80618-3	SB-7 (2-3.5)	Total/NA	Solid	3546	13
310-80618-4	SB-1 (0-1.5)	Total/NA	Solid	3546	14
310-80618-5	SB-2 (2-3.5)	Total/NA	Solid	3546	15
310-80618-6	SB-3 (4.5-6)	Total/NA	Solid	3546	
310-80618-7	SB-4 (2-3.5)	Total/NA	Solid	3546	
310-80618-8	SB-8 (4.5-6)	Total/NA	Solid	3546	
LCS 310-127604/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 310-127604/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 127730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-80618-1	SB-5 (2-3.5)	Total/NA	Solid	3550B	
310-80618-2	SB-6 (2-3.5)	Total/NA	Solid	3550B	
310-80618-3	SB-7 (2-3.5)	Total/NA	Solid	3550B	
310-80618-4	SB-1 (0-1.5)	Total/NA	Solid	3550B	
310-80618-5	SB-2 (2-3.5)	Total/NA	Solid	3550B	
310-80618-6	SB-3 (4.5-6)	Total/NA	Solid	3550B	
310-80618-7	SB-4 (2-3.5)	Total/NA	Solid	3550B	
310-80618-8	SB-8 (4.5-6)	Total/NA	Solid	3550B	
LCS 310-127730/2-A	Lab Control Sample	Total/NA	Solid	3550B	
LCSD 310-127730/3-A	Lab Control Sample Dup	Total/NA	Solid	3550B	
MB 310-127730/1-A	Method Blank	Total/NA	Solid	3550B	

Analysis Batch: 127812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-80618-1	SB-5 (2-3.5)	Total/NA	Solid	WI-DRO	127730
310-80618-2	SB-6 (2-3.5)	Total/NA	Solid	WI-DRO	127730
310-80618-3	SB-7 (2-3.5)	Total/NA	Solid	WI-DRO	127730
310-80618-4	SB-1 (0-1.5)	Total/NA	Solid	WI-DRO	127730
310-80618-5	SB-2 (2-3.5)	Total/NA	Solid	WI-DRO	127730
310-80618-6	SB-3 (4.5-6)	Total/NA	Solid	WI-DRO	127730
310-80618-7	SB-4 (2-3.5)	Total/NA	Solid	WI-DRO	127730
310-80618-8	SB-8 (4.5-6)	Total/NA	Solid	WI-DRO	127730
LCS 310-127730/2-A	Lab Control Sample	Total/NA	Solid	WI-DRO	127730

TestAmerica Cedar Falls

QC Association Summary

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

GC Semi VOA (Continued)

Analysis Batch: 127812 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 310-127730/3-A	Lab Control Sample Dup	Total/NA	Solid	WI-DRO	127730
MB 310-127730/1-A	Method Blank	Total/NA	Solid	WI-DRO	127730

Analysis Batch: 127842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-80618-2	SB-6 (2-3.5)	Total/NA	Solid	8082A	127604
310-80618-3	SB-7 (2-3.5)	Total/NA	Solid	8082A	127604
310-80618-4	SB-1 (0-1.5)	Total/NA	Solid	8082A	127604
310-80618-5	SB-2 (2-3.5)	Total/NA	Solid	8082A	127604
310-80618-6	SB-3 (4.5-6)	Total/NA	Solid	8082A	127604
310-80618-7	SB-4 (2-3.5)	Total/NA	Solid	8082A	127604
310-80618-8	SB-8 (4.5-6)	Total/NA	Solid	8082A	127604
LCS 310-127604/2-A	Lab Control Sample	Total/NA	Solid	8082A	127604
MB 310-127604/1-A	Method Blank	Total/NA	Solid	8082A	127604

Prep Batch: 128653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-80618-1	SB-5 (2-3.5)	Total/NA	Solid	3546	128653
LCS 310-128653/2-A	Lab Control Sample	Total/NA	Solid	3546	128653
MB 310-128653/1-A	Method Blank	Total/NA	Solid	3546	128653

Analysis Batch: 128658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-80618-1	SB-5 (2-3.5)	Total/NA	Solid	8082A	128653
LCS 310-128653/2-A	Lab Control Sample	Total/NA	Solid	8082A	128653
MB 310-128653/1-A	Method Blank	Total/NA	Solid	8082A	128653

Metals

Prep Batch: 127725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-80618-1	SB-5 (2-3.5)	Total/NA	Solid	3050B	127725
310-80618-2	SB-6 (2-3.5)	Total/NA	Solid	3050B	127725
310-80618-3	SB-7 (2-3.5)	Total/NA	Solid	3050B	127725
310-80618-4	SB-1 (0-1.5)	Total/NA	Solid	3050B	127725
310-80618-4 DU	SB-1 (0-1.5)	Total/NA	Solid	3050B	127725
310-80618-5	SB-2 (2-3.5)	Total/NA	Solid	3050B	127725
310-80618-6	SB-3 (4.5-6)	Total/NA	Solid	3050B	127725
310-80618-7	SB-4 (2-3.5)	Total/NA	Solid	3050B	127725
310-80618-8	SB-8 (4.5-6)	Total/NA	Solid	3050B	127725
LCS 310-127725/2-A	Lab Control Sample	Total/NA	Solid	3050B	127725
MB 310-127725/1-A	Method Blank	Total/NA	Solid	3050B	127725

Prep Batch: 127726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-80618-1	SB-5 (2-3.5)	Total/NA	Solid	3050B	127726
310-80618-2	SB-6 (2-3.5)	Total/NA	Solid	3050B	127726
310-80618-3	SB-7 (2-3.5)	Total/NA	Solid	3050B	127726
310-80618-4	SB-1 (0-1.5)	Total/NA	Solid	3050B	127726
310-80618-5	SB-2 (2-3.5)	Total/NA	Solid	3050B	127726

QC Association Summary

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

Metals (Continued)

Prep Batch: 127726 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-80618-5 DU	SB-2 (2-3.5)	Total/NA	Solid	3050B	
310-80618-6	SB-3 (4.5-6)	Total/NA	Solid	3050B	
310-80618-7	SB-4 (2-3.5)	Total/NA	Solid	3050B	
310-80618-8	SB-8 (4.5-6)	Total/NA	Solid	3050B	
LCS 310-127726/2-A ^2	Lab Control Sample	Total/NA	Solid	3050B	
MB 310-127726/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 127737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-80618-1	SB-5 (2-3.5)	Total/NA	Solid	7471B	
310-80618-2	SB-6 (2-3.5)	Total/NA	Solid	7471B	
310-80618-3	SB-7 (2-3.5)	Total/NA	Solid	7471B	
310-80618-4	SB-1 (0-1.5)	Total/NA	Solid	7471B	
310-80618-5	SB-2 (2-3.5)	Total/NA	Solid	7471B	
310-80618-6	SB-3 (4.5-6)	Total/NA	Solid	7471B	
310-80618-7	SB-4 (2-3.5)	Total/NA	Solid	7471B	
310-80618-8	SB-8 (4.5-6)	Total/NA	Solid	7471B	
LCS 310-127737/2-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 310-127737/1-A	Method Blank	Total/NA	Solid	7471B	

Analysis Batch: 127878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-80618-1	SB-5 (2-3.5)	Total/NA	Solid	7471B	127737
310-80618-2	SB-6 (2-3.5)	Total/NA	Solid	7471B	127737
310-80618-3	SB-7 (2-3.5)	Total/NA	Solid	7471B	127737
310-80618-4	SB-1 (0-1.5)	Total/NA	Solid	7471B	127737
310-80618-5	SB-2 (2-3.5)	Total/NA	Solid	7471B	127737
310-80618-6	SB-3 (4.5-6)	Total/NA	Solid	7471B	127737
310-80618-7	SB-4 (2-3.5)	Total/NA	Solid	7471B	127737
310-80618-8	SB-8 (4.5-6)	Total/NA	Solid	7471B	127737
LCS 310-127737/2-A	Lab Control Sample	Total/NA	Solid	7471B	127737
MB 310-127737/1-A	Method Blank	Total/NA	Solid	7471B	127737

Analysis Batch: 127880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-80618-1	SB-5 (2-3.5)	Total/NA	Solid	7010	127726
310-80618-2	SB-6 (2-3.5)	Total/NA	Solid	7010	127726
310-80618-3	SB-7 (2-3.5)	Total/NA	Solid	7010	127726
310-80618-4	SB-1 (0-1.5)	Total/NA	Solid	7010	127726
310-80618-5	SB-2 (2-3.5)	Total/NA	Solid	7010	127726
310-80618-5 DU	SB-2 (2-3.5)	Total/NA	Solid	7010	127726
310-80618-6	SB-3 (4.5-6)	Total/NA	Solid	7010	127726
310-80618-7	SB-4 (2-3.5)	Total/NA	Solid	7010	127726
310-80618-8	SB-8 (4.5-6)	Total/NA	Solid	7010	127726
LCS 310-127726/2-A ^2	Lab Control Sample	Total/NA	Solid	7010	127726
MB 310-127726/1-A	Method Blank	Total/NA	Solid	7010	127726

Analysis Batch: 127945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-80618-1	SB-5 (2-3.5)	Total/NA	Solid	6010C	127725
310-80618-2	SB-6 (2-3.5)	Total/NA	Solid	6010C	127725

TestAmerica Cedar Falls

QC Association Summary

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

Metals (Continued)

Analysis Batch: 127945 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-80618-3	SB-7 (2-3.5)	Total/NA	Solid	6010C	127725
310-80618-4	SB-1 (0-1.5)	Total/NA	Solid	6010C	127725
310-80618-4 DU	SB-1 (0-1.5)	Total/NA	Solid	6010C	127725
310-80618-5	SB-2 (2-3.5)	Total/NA	Solid	6010C	127725
310-80618-6	SB-3 (4.5-6)	Total/NA	Solid	6010C	127725
310-80618-7	SB-4 (2-3.5)	Total/NA	Solid	6010C	127725
310-80618-8	SB-8 (4.5-6)	Total/NA	Solid	6010C	127725
LCS 310-127725/2-A	Lab Control Sample	Total/NA	Solid	6010C	127725
MB 310-127725/1-A	Method Blank	Total/NA	Solid	6010C	127725

Analysis Batch: 128080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-80618-1	SB-5 (2-3.5)	Total/NA	Solid	7010	127726
310-80618-2	SB-6 (2-3.5)	Total/NA	Solid	7010	127726
310-80618-3	SB-7 (2-3.5)	Total/NA	Solid	7010	127726
310-80618-4	SB-1 (0-1.5)	Total/NA	Solid	7010	127726
310-80618-5	SB-2 (2-3.5)	Total/NA	Solid	7010	127726
310-80618-5 DU	SB-2 (2-3.5)	Total/NA	Solid	7010	127726
310-80618-6	SB-3 (4.5-6)	Total/NA	Solid	7010	127726
310-80618-7	SB-4 (2-3.5)	Total/NA	Solid	7010	127726
310-80618-8	SB-8 (4.5-6)	Total/NA	Solid	7010	127726
LCS 310-127726/2-A ^2	Lab Control Sample	Total/NA	Solid	7010	127726
MB 310-127726/1-A	Method Blank	Total/NA	Solid	7010	127726

General Chemistry

Analysis Batch: 127696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-80618-1	SB-5 (2-3.5)	Total/NA	Solid	Moisture	
310-80618-1 DU	SB-5 (2-3.5)	Total/NA	Solid	Moisture	
310-80618-2	SB-6 (2-3.5)	Total/NA	Solid	Moisture	
310-80618-3	SB-7 (2-3.5)	Total/NA	Solid	Moisture	
310-80618-4	SB-1 (0-1.5)	Total/NA	Solid	Moisture	
310-80618-5	SB-2 (2-3.5)	Total/NA	Solid	Moisture	
310-80618-6	SB-3 (4.5-6)	Total/NA	Solid	Moisture	
310-80618-7	SB-4 (2-3.5)	Total/NA	Solid	Moisture	
310-80618-8	SB-8 (4.5-6)	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Wenck Associates, Inc
 Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
 SDG: 3035-0005

Client Sample ID: SB-5 (2-3.5)

Date Collected: 05/12/16 10:00

Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			127938	05/18/16 07:38	TCH	TAL CF
Total/NA	Analysis	8260B		1	127941	05/18/16 23:07	TCH	TAL CF
Total/NA	Prep	3546			127606	05/16/16 13:52	AJM	TAL CF
Total/NA	Analysis	8270D SIM		10	127803	05/17/16 19:05	DMD	TAL CF
Total/NA	Prep	3546			128653	05/24/16 10:09	DEM2	TAL CF
Total/NA	Analysis	8082A		1	128658	05/24/16 18:41	BKT	TAL CF
Total/NA	Prep	3550B			127730	05/16/16 14:00	AJM	TAL CF
Total/NA	Analysis	WI-DRO		1	127812	05/17/16 19:39	LLS	TAL CF
Total/NA	Prep	3050B			127725	05/17/16 10:00	JNR	TAL CF
Total/NA	Analysis	6010C		1	127945	05/17/16 19:00	OAD	TAL CF
Total/NA	Prep	3050B			127726	05/17/16 10:00	JNR	TAL CF
Total/NA	Analysis	7010		4	127880	05/17/16 12:15	CJT	TAL CF
Total/NA	Prep	3050B			127726	05/17/16 10:00	JNR	TAL CF
Total/NA	Analysis	7010		12	128080	05/18/16 14:07	AJG	TAL CF
Total/NA	Prep	7471B			127737	05/16/16 14:10	JNR	TAL CF
Total/NA	Analysis	7471B		1	127878	05/17/16 12:53	SAD	TAL CF
Total/NA	Analysis	Moisture		1	127696	05/16/16 09:56	SAS	TAL CF

Client Sample ID: SB-6 (2-3.5)

Date Collected: 05/12/16 11:00

Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			127938	05/18/16 07:38	TCH	TAL CF
Total/NA	Analysis	8260B		1	127941	05/18/16 23:32	TCH	TAL CF
Total/NA	Prep	3546			127606	05/16/16 13:52	AJM	TAL CF
Total/NA	Analysis	8270D SIM		10	127803	05/17/16 19:27	DMD	TAL CF
Total/NA	Prep	3546			127604	05/16/16 13:54	AJM	TAL CF
Total/NA	Analysis	8082A		1	127842	05/17/16 17:57	BKT	TAL CF
Total/NA	Prep	3550B			127730	05/16/16 14:00	AJM	TAL CF
Total/NA	Analysis	WI-DRO		1	127812	05/17/16 20:15	LLS	TAL CF
Total/NA	Prep	3050B			127725	05/17/16 10:00	JNR	TAL CF
Total/NA	Analysis	6010C		1	127945	05/17/16 19:02	OAD	TAL CF
Total/NA	Prep	3050B			127726	05/17/16 10:00	JNR	TAL CF
Total/NA	Analysis	7010		4	127880	05/17/16 12:18	CJT	TAL CF
Total/NA	Prep	3050B			127726	05/17/16 10:00	JNR	TAL CF
Total/NA	Analysis	7010		12	128080	05/18/16 14:18	AJG	TAL CF
Total/NA	Prep	7471B			127737	05/16/16 14:10	JNR	TAL CF
Total/NA	Analysis	7471B		1	127878	05/17/16 12:54	SAD	TAL CF
Total/NA	Analysis	Moisture		1	127696	05/16/16 09:56	SAS	TAL CF

TestAmerica Cedar Falls

Lab Chronicle

Client: Wenck Associates, Inc
 Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
 SDG: 3035-0005

Client Sample ID: SB-7 (2-3.5)

Date Collected: 05/12/16 12:00

Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-3

Matrix: Solid

Prep Type	Batch	Batch	Run	Dilution Factor	Batch	Prepared		Lab
	Type	Method			Number	or Analyzed	Analyst	
Total/NA	Prep	5035			127938	05/18/16 07:38	TCH	TAL CF
Total/NA	Analysis	8260B		1	127941	05/18/16 23:56	TCH	TAL CF
Total/NA	Prep	3546			127606	05/16/16 13:52	AJM	TAL CF
Total/NA	Analysis	8270D SIM		10	127803	05/17/16 19:50	DMD	TAL CF
Total/NA	Prep	3546			127604	05/16/16 13:54	AJM	TAL CF
Total/NA	Analysis	8082A		1	127842	05/17/16 18:08	BKT	TAL CF
Total/NA	Prep	3550B			127730	05/16/16 14:00	AJM	TAL CF
Total/NA	Analysis	WI-DRO		1	127812	05/17/16 20:52	LLS	TAL CF
Total/NA	Prep	3050B			127725	05/17/16 10:00	JNR	TAL CF
Total/NA	Analysis	6010C		2	127945	05/17/16 21:03	OAD	TAL CF
Total/NA	Prep	3050B			127726	05/17/16 10:00	JNR	TAL CF
Total/NA	Analysis	7010		4	127880	05/17/16 12:22	CJT	TAL CF
Total/NA	Prep	3050B			127726	05/17/16 10:00	JNR	TAL CF
Total/NA	Analysis	7010		12	128080	05/18/16 14:22	AJG	TAL CF
Total/NA	Prep	7471B			127737	05/16/16 14:10	JNR	TAL CF
Total/NA	Analysis	7471B		1	127878	05/17/16 12:56	SAD	TAL CF
Total/NA	Analysis	Moisture		1	127696	05/16/16 09:56	SAS	TAL CF

Client Sample ID: SB-1 (0-1.5)

Date Collected: 05/12/16 14:00

Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-4

Matrix: Solid

Prep Type	Batch	Batch	Run	Dilution Factor	Batch	Prepared		Lab
	Type	Method			Number	or Analyzed	Analyst	
Total/NA	Prep	5035			127938	05/18/16 07:38	TCH	TAL CF
Total/NA	Analysis	8260B		1	127941	05/19/16 00:20	TCH	TAL CF
Total/NA	Prep	3546			127606	05/16/16 13:52	AJM	TAL CF
Total/NA	Analysis	8270D SIM		10	127803	05/17/16 20:12	DMD	TAL CF
Total/NA	Prep	3546			127604	05/16/16 13:54	AJM	TAL CF
Total/NA	Analysis	8082A		1	127842	05/17/16 18:18	BKT	TAL CF
Total/NA	Prep	3550B			127730	05/16/16 14:00	AJM	TAL CF
Total/NA	Analysis	WI-DRO		1	127812	05/17/16 21:28	LLS	TAL CF
Total/NA	Prep	3050B			127725	05/17/16 10:00	JNR	TAL CF
Total/NA	Analysis	6010C		1	127945	05/17/16 19:06	OAD	TAL CF
Total/NA	Prep	3050B			127726	05/17/16 10:00	JNR	TAL CF
Total/NA	Analysis	7010		4	127880	05/17/16 12:25	CJT	TAL CF
Total/NA	Prep	3050B			127726	05/17/16 10:00	JNR	TAL CF
Total/NA	Analysis	7010		12	128080	05/18/16 14:26	AJG	TAL CF
Total/NA	Prep	7471B			127737	05/16/16 14:10	JNR	TAL CF
Total/NA	Analysis	7471B		1	127878	05/17/16 12:58	SAD	TAL CF
Total/NA	Analysis	Moisture		1	127696	05/16/16 09:56	SAS	TAL CF

TestAmerica Cedar Falls

Lab Chronicle

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

Client Sample ID: SB-2 (2-3.5)

Date Collected: 05/12/16 15:30

Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			127938	05/18/16 07:38	TCH	TAL CF
Total/NA	Analysis	8260B		1	127941	05/19/16 00:44	TCH	TAL CF
Total/NA	Prep	3546			127606	05/16/16 13:52	AJM	TAL CF
Total/NA	Analysis	8270D SIM		10	127803	05/17/16 20:34	DMD	TAL CF
Total/NA	Prep	3546			127604	05/16/16 13:54	AJM	TAL CF
Total/NA	Analysis	8082A		1	127842	05/17/16 18:29	BKT	TAL CF
Total/NA	Prep	3550B			127730	05/16/16 14:00	AJM	TAL CF
Total/NA	Analysis	WI-DRO		1	127812	05/17/16 22:04	LLS	TAL CF
Total/NA	Prep	3050B			127725	05/17/16 10:00	JNR	TAL CF
Total/NA	Analysis	6010C		2	127945	05/17/16 21:06	OAD	TAL CF
Total/NA	Prep	3050B			127726	05/17/16 10:00	JNR	TAL CF
Total/NA	Analysis	7010		4	127880	05/17/16 12:35	CJT	TAL CF
Total/NA	Prep	3050B			127726	05/17/16 10:00	JNR	TAL CF
Total/NA	Analysis	7010		12	128080	05/18/16 14:30	AJG	TAL CF
Total/NA	Prep	7471B			127737	05/16/16 14:10	JNR	TAL CF
Total/NA	Analysis	7471B		1	127878	05/17/16 13:02	SAD	TAL CF
Total/NA	Analysis	Moisture		1	127696	05/16/16 09:56	SAS	TAL CF

Client Sample ID: SB-3 (4.5-6)

Date Collected: 05/13/16 09:30

Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			127938	05/18/16 07:38	TCH	TAL CF
Total/NA	Analysis	8260B		1	127941	05/19/16 01:08	TCH	TAL CF
Total/NA	Prep	3546			127606	05/16/16 13:52	AJM	TAL CF
Total/NA	Analysis	8270D SIM		10	127803	05/17/16 20:57	DMD	TAL CF
Total/NA	Prep	3546			127604	05/16/16 13:54	AJM	TAL CF
Total/NA	Analysis	8082A		1	127842	05/17/16 18:39	BKT	TAL CF
Total/NA	Prep	3550B			127730	05/16/16 14:00	AJM	TAL CF
Total/NA	Analysis	WI-DRO		1	127812	05/17/16 22:40	LLS	TAL CF
Total/NA	Prep	3050B			127725	05/17/16 10:00	JNR	TAL CF
Total/NA	Analysis	6010C		2	127945	05/17/16 21:08	OAD	TAL CF
Total/NA	Prep	3050B			127726	05/17/16 10:00	JNR	TAL CF
Total/NA	Analysis	7010		4	127880	05/17/16 12:41	CJT	TAL CF
Total/NA	Prep	3050B			127726	05/17/16 10:00	JNR	TAL CF
Total/NA	Analysis	7010		12	128080	05/18/16 14:38	AJG	TAL CF
Total/NA	Prep	7471B			127737	05/16/16 14:10	JNR	TAL CF
Total/NA	Analysis	7471B		1	127878	05/17/16 13:04	SAD	TAL CF
Total/NA	Analysis	Moisture		1	127696	05/16/16 09:56	SAS	TAL CF

TestAmerica Cedar Falls

Lab Chronicle

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

Client Sample ID: SB-4 (2-3.5)

Date Collected: 05/13/16 11:00

Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			127938	05/18/16 07:38	TCH	TAL CF
Total/NA	Analysis	8260B		1	127941	05/19/16 01:32	TCH	TAL CF
Total/NA	Prep	3546			127606	05/16/16 13:52	AJM	TAL CF
Total/NA	Analysis	8270D SIM		10	127958	05/18/16 15:37	DMD	TAL CF
Total/NA	Prep	3546			127604	05/16/16 13:54	AJM	TAL CF
Total/NA	Analysis	8082A		1	127842	05/17/16 18:50	BKT	TAL CF
Total/NA	Prep	3550B			127730	05/16/16 14:00	AJM	TAL CF
Total/NA	Analysis	WI-DRO		1	127812	05/17/16 23:16	LLS	TAL CF
Total/NA	Prep	3050B			127725	05/17/16 10:00	JNR	TAL CF
Total/NA	Analysis	6010C		1	127945	05/17/16 19:14	OAD	TAL CF
Total/NA	Prep	3050B			127726	05/17/16 10:00	JNR	TAL CF
Total/NA	Analysis	7010		4	127880	05/17/16 12:44	CJT	TAL CF
Total/NA	Prep	3050B			127726	05/17/16 10:00	JNR	TAL CF
Total/NA	Analysis	7010		12	128080	05/18/16 14:41	AJG	TAL CF
Total/NA	Prep	7471B			127737	05/16/16 14:10	JNR	TAL CF
Total/NA	Analysis	7471B		1	127878	05/17/16 13:05	SAD	TAL CF
Total/NA	Analysis	Moisture		1	127696	05/16/16 09:56	SAS	TAL CF

Client Sample ID: SB-8 (4.5-6)

Date Collected: 05/13/16 15:00

Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			127938	05/18/16 07:38	TCH	TAL CF
Total/NA	Analysis	8260B		1	127941	05/19/16 01:56	TCH	TAL CF
Total/NA	Prep	3546			127606	05/16/16 13:52	AJM	TAL CF
Total/NA	Analysis	8270D SIM		10	127958	05/18/16 16:00	DMD	TAL CF
Total/NA	Prep	3546			127604	05/16/16 13:54	AJM	TAL CF
Total/NA	Analysis	8082A		1	127842	05/17/16 19:00	BKT	TAL CF
Total/NA	Prep	3550B			127730	05/16/16 14:00	AJM	TAL CF
Total/NA	Analysis	WI-DRO		1	127812	05/17/16 23:52	LLS	TAL CF
Total/NA	Prep	3050B			127725	05/17/16 10:00	JNR	TAL CF
Total/NA	Analysis	6010C		2	127945	05/17/16 21:10	OAD	TAL CF
Total/NA	Prep	3050B			127726	05/17/16 10:00	JNR	TAL CF
Total/NA	Analysis	7010		4	127880	05/17/16 12:48	CJT	TAL CF
Total/NA	Prep	3050B			127726	05/17/16 10:00	JNR	TAL CF
Total/NA	Analysis	7010		12	128080	05/18/16 14:45	AJG	TAL CF
Total/NA	Prep	7471B			127737	05/16/16 14:10	JNR	TAL CF
Total/NA	Analysis	7471B		1	127878	05/17/16 13:07	SAD	TAL CF
Total/NA	Analysis	Moisture		1	127696	05/16/16 09:56	SAS	TAL CF

TestAmerica Cedar Falls

Lab Chronicle

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

Client Sample ID: MeOH Trip Blank

Date Collected: 05/13/16 00:00

Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			127938	05/18/16 07:38	TCH	TAL CF
Total/NA	Analysis	8260B		1	127941	05/19/16 02:21	TCH	TAL CF

Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

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Certification Summary

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

Laboratory: TestAmerica Cedar Falls

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Minnesota	NELAP	5	019-999-319	12-31-16

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

Analysis Method	Prep Method	Matrix	Analyte
8082A	3546	Solid	PCB-1268
8260B	5035	Solid	Dichlorofluoromethane
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CF
8270D SIM	Semivolatile Organic Compound (GC/MS SIM LL)	SW846	TAL CF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CF
WI-DRO	Wisconsin - Diesel Range Organics (GC)	WI-DRO	TAL CF
6010C	Metals (ICP)	SW846	TAL CF
7010	Metals (GFAA)	SW846	TAL CF
7471B	Mercury (CVAA)	SW846	TAL CF
Moisture	Percent Moisture	EPA	TAL CF

Protocol References:

EPA = US Environmental Protection Agency

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

WI-DRO = "Modified DRO: Method For Determining Diesel Range Organics", Wisconsin DNR, Publ-SW-141, September, 1995.

Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401



310-80618 Chain of Custody

Cooler/Sample Receipt and Temperature

Client Information

Client: WENCK ASSOCIATES

City/State: Maple Plain, MN

Project: SHADY OAK

Receipt Information

Date/Time Received: 5/14/16 0915

Received By: ST

Delivery Type: UPS FedEx FedEx Ground US Mail Spee-Dee
 TA Courier TA Field Services Client Drop-off Other:

Condition of Cooler/Containers

Sample(s) received in Cooler? Yes No If yes: Cooler ID: TA Minneapolis

Multiple Coolers? Yes No If yes: Cooler # ____ of ____

Cooler Custody Seals Present? Yes No If yes: Cooler custody seals intact? Yes No

Sample Custody Seals Present? Yes No If yes: Sample custody seals intact? Yes No

Trip Blank Present? Yes No If yes: Which VOA samples are in cooler? ↓

METH Blank

Temperature Record

Coolant: Wet ice Blue ice Dry ice Other: _____ NONE

Temperature Blank? Yes No ID & Bottle Type:

NOTE: If yes, use temp blank for measurement. If no, specify sample ID(s) and bottle type used to take measurement.

Thermometer ID: H Correction Factor (°C): +0.1°C

Uncorrected Temp (°C): 1.4°C Corrected Temp (°C): 1.5°C

Exceptions Noted

- 1) If temperature exceeds criteria, was sample(s) received same day of sampling? Yes No
 a) If yes: Is there evidence that the chilling process began? Yes No
- 2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised?
 (e.g., bulging septa, broken/cracked bottles?) Yes No

NOTE: If yes, contact PM before proceeding. If no, proceed with login

Additional Comments

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Cedar Falls Division
704 Enterprise Drive
Cedar Falls IA 50613

Phone 319-277-2401 or 800-750-2401
Fax 319-277-2425

ASSOCIATES INC.

Client #

Address: 1600 Project Steel Center
City/State/City Code: MEDIE PLAN MI 55357

Project Manager: John Doe Date: 3/2/2021

1. Project Manager: _____
2. Email Address: _____

Telephone Number: _____
Email Address: _____

Customer Name / Direct Name: **KELLY TAYLOR**
Fax: **111-1111-1111**

Sample Signature

Special Instructions:

LABORATORY COMMENTS:

Special Instructions:			
LABORATORY COMMENTS:			
Relinquished By: <u>Tanvi S. Jaiswal</u>	Date: <u>5/13</u>	Time: <u>1335</u>	Received By: <u>Bruce G. Scott</u>
Relinquished By: <u>Frister</u>	Date: <u>5/13</u>	Time: <u>1720</u>	Received By: <u>Prakash</u>
Relinquished By: <u></u>	Date: <u></u>	Time: <u></u>	Received By: <u></u>

TAL-0033 (708) Page 1 of 15

Login Sample Receipt Checklist

Client: Wenck Associates, Inc

Job Number: 310-80618-1
SDG Number: 3035-0005

Login Number: 80618

List Source: TestAmerica Cedar Falls

List Number: 1

Creator: Tuladhar, Sushil X

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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	
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	Received Trip Blank(s) not listed on COC.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	False	One DRO jar for SB-7 labeled as SB-12 on the container.
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Responsive partner.
Exceptional outcomes.

Toll Free: 800-472-2232

Email: wenckmp@wenck.com

Web: wenck.com

MINNESOTA

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763-479-4200

Golden Valley
763-252-6800

New Hope
800-368-8831

Windom
507-831-2703

Woodbury
651-294-4580

COLORADO

Denver
602-370-7420

GEORGIA

Roswell
678-987-5840

NORTH DAKOTA

Fargo
Mandan
701-297-9600
701-751-3370
Williston
800-472-2232

SOUTH DAKOTA

Pierre
605-222-1826

WYOMING

Cheyenne
Sheridan
307-634-7848
307-675-1148