PHASE II ENVIRONMENTAL SITE ASSESSMENT

PROPOSED SONIC RESTAURANT
2301 EAST MARKLAND AVENUE
KOKOMO, INDIANA 46901
A&W PROJECT NO.: 16IN0007

PREPARED FOR:
GEAUX SONIC LLC
KOKOMO, INDIANA 46901

PREPARED BY:
ALT & WITZIG CONSULTING SERVICES

Solutions From the Subsurface Up

JANUARY 27, 2016

Alt & Witzig Consulting Services
4105 West 99th Street • Carmel, Indiana 46032
(317) 875-7000 • Fax (317) 876-3705

January 27, 2016

Geaux Sonic LLC
1637 Wynterbrooke Dr
Kokomo, Indiana 46901
Attention: Mr. Drew Keriwala

RE: Phase II Environmental Site Assessment
Proposed Sonic Restaurant
2301 East Markland Avenue
Kokomo, Indiana 46901
A&W Project No.: 16IN0007

Dear Mr. Keriwala:

In compliance with your request, Alt & Witzig Consulting Services has completed a Phase II Environmental Site Assessment for the above mentioned Site. The Statement of Objectives, Scope of Work, and results of our investigation are presented in the following report. It is our pleasure to transmit one (1) electronic .pdf copy of this final version of the report.

If you have questions or comments regarding our investigation or report, please do not hesitate to contact us.

Sincerely,
ALT & WITZIG CONSULTING SERVICES
ENVIRONMENTAL DIVISION

David Herring, CHMM
Project Manager

John C. Flannelly
Senior Project Manager

TABLE OF CONTENTS

EXECUTIVE SUMMARY

Alt & Witzig Consulting Services (A&W) has performed a Phase II Environmental Site Assessment (ESA) on an out-lot located at 2301 East Markland Avenue in Kokomo, Indiana 46901 (Site) in conformance with the scope and limitations of ASTM Practice E 1903-11 and for the following objective(s):

This assessment addresses the following recognized environmental conditions (RECs) and potential vapor encroachment condition (VEC) identified during the Phase I ESA completed by A&W on November 17, 2015 (A&W Project No.: 15IN0782):

REC/VEC:

- *The presence of a west adjoining filling station is considered a REC and a potential VEC to the Site.*

An A&W representative performed this Phase II ESA on January 11, 2016. This investigation was performed for Geaux Sonic LLC. Authorization to perform this investigation was in the form of an A&W proposal accepted by Mr. Drew Keriwala of Geaux Sonic LLC.

Findings and Conclusions

Two (2) soil borings (B-1 and B-2) were advanced on the Site in order to determine if the current and historical use of underground storage tanks (USTs) at the west adjacent fuel station have environmentally impacted the soil and/or groundwater on-Site. Two (2) soil and two (2) groundwater samples were collected and analyzed for the following potential contaminants: Volatile Organic Compounds (VOCs) and Polynuclear Aromatic Hydrocarbons (PAHs).

Analytical results indicated soil located along the west Site boundary adjacent to the off-Site fuel station identified concentrations of PAHs above the laboratory reporting limits, but below the Indiana Department of Environmental Management (IDEM) Remediation Closure Guide (RCG) Soil Migration to Groundwater (MTG), Residential Direct Contact (RDC) and Commercial Direct Contact (CDC) Screening Levels at depths ranging from approximately nine (9) to 12 feet below ground surface (bgs).

There were no groundwater concentrations identified above the laboratory reporting limits or their respective IDEM RCG Residential Tap, Residential Vapor, and/or Commercial Vapor Screening Levels.

Recommendations

Based on the results of this investigation, additional investigations do not appear warranted.

1.0 INTRODUCTION

1.1 Purpose

The purpose of Alt & Witzig Consulting Services (A&W) conducting a Phase II Environmental Site Assessment (ESA) on an out-lot located at 2301 East Markland Avenue, Kokomo, Indiana 46901 (Site) is to evaluate the recognized environmental conditions (RECs) and potential vapor encroachment conditions (VECs) identified in the Phase I ESA process for the purpose of providing sufficient information regarding the nature of potential soil and/or groundwater contamination to assist in making informed business decisions about the property; and where applicable, providing the level of knowledge necessary to establish limitations of or defenses to potential Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) liability via Landowner Liability Protections (LLPs), such as the *bona fide prospective purchaser, contiguous property owner,* and *innocent landowner* LLPs.

Establishing LLPs may not be a realistic objective in some instances. Accordingly, the extent of this investigation is based on the business objectives of Geaux Sonic LLC as well as the degree of uncertainty acceptable to Geaux Sonic LLC.

1.2 Statement of Objectives

This assessment addresses the following REC and VEC identified during the Phase I ESA completed by A&W on November 17, 2015 (A&W Project No.: 15IN0782):

REC/VEC:

- *The presence of a west adjoining filling station is considered a REC and a potential VEC to the Site.*

1.3 Assessment Exclusions

The Phase I ESA did not indicate the presence of other RECs or historical RECs identified with the Site. This Phase II ESA is therefore limited to the REC identified in Section 1.2 and does not contain specific assessment exclusions.

1.4 Scope of Work

During the Phase II ESA, two (2) borings (B-1 and B-2) were advanced on-Site. Two (2) soil samples and two (2) groundwater samples were collected and analyzed for likely potential contaminants.

1.5 Incorporations by Reference

The investigation was conducted in general accordance with the American Society for Testing and Materials (ASTM) "Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process E1903-11 (2011)" (Practice) and contains all of the limitations inherent therein.

This investigation was performed for Geaux Sonic LLC. The proposed statement of objectives and scope of work were outlined in the form of A&W Proposal Number 1512E012 duly authorized by Mr. Drew Keriwala of Geaux Sonic LLC. The Scope of Work proposed to address the objectives of

the Phase II ESA does not include significant schedule, budget, or cost limitations that would compromise A&W's ability to conduct the Phase II ESA in accordance with the Practice.

This investigation was performed in the State of Indiana. Regulatory requirements applicable to the investigation are outlined within the 2012 Indiana Department of Environmental Management (IDEM) *Remediation Closure Guide/Remediation Program Guide* (RCG/RPG), with updates.

1.6 Report Limitations and Exceptions

Soil and groundwater sampling and laboratory analysis focused on potential contaminants outlined in our proposal and were not exhaustive. Professional judgments expressed herein are based on facts currently available within the limits of the existing data, scope of work, budget and schedule. To the extent that the client desires more definitive conclusions than are warranted by the currently available facts, it is A&W's specific intent that the conclusions and recommendations stated herein are provided based on known facts derived from the current investigation. Professional judgment and interpretation are inherent in the completion of any ESA. We make no warranties, express or implied, including, without limitation, warranties as to merchantability or fitness for a particular purpose. Additionally, the information provided to Geaux Sonic LLC in this report is not to be construed as legal advice.

This Phase II ESA does not address the evaluation of business environmental risks in light of data collected through the ESA process. Such evaluation is a function of site- and transaction-specific variables, and of the user's objectives and risk tolerance. The user will evaluate legal, business and environmental risks in light of known data relating to the particular site and transaction, and in consultation with legal and business advisors as well as the Phase II Assessor (A&W).

1.7 Report Reliance

This report is solely for the use of Geaux Sonic LLC and any reliance of this report by third parties shall be at such party's sole risk and may not contain sufficient information for purposes of other parties for other uses. This report shall only be presented in full and may not be used to support any other objectives than those set out in the scope of work, except where written approval and consent are provided by Geaux Sonic LLC and A&W.

2.0 BACKGROUND INFORMATION

2.1 Site Location

The Site is located in the City of Kokomo in Howard County, Indiana at 2301 East Markland Avenue. The Site is further located on the U.S.G.S. 7.5-Minute Series Topographic map of Kokomo East, Indiana (**Figure 1**, **Appendix A**) in the northwest quarter of Section 5, Township 23 North, Range 4 East. The layout of the Site and surrounding properties are depicted on a Site Vicinity Map (**Figure 2**, **Appendix A)**.

2.2 Site Description

The Site includes approximately 0.88-acre of unimproved land. The Site sloped slightly toward the north, in the direction of East Markland Road. No evidence of former Site structures was observed during the Site reconnaissance. The Site consists of an unimproved outlot on the northern portion of a Meijer Supermarket shopping center.

2.3 Regional Setting

2.3.1 Topography

The surface of the immediate Site was relatively flat, with a relief of less than five (5) feet. The approximate mean sea level (msl) elevation of the Site is 816 feet. Drainage on the Site is via ground surface infiltration. Based on topography, the groundwater flow is likely to the north in the direction of Wildcat Creek.

2.3.2 Soils

Topsoil on the Site consists primarily of Crosby-Brookston soil association. Crosby-Brookston soils are described by the U.S. Department of Agriculture Soil Conservation Service as being deep, somewhat poorly drained and very poorly drained, medium-textured and moderately fine textured, nearly level and gently sloping soils; on uplands.

2.4 Summary of Site History and Use

According to the Phase I ESA, from at least 1938 through 1964 the Site appeared to be developed as residential property. By 1974 the Site appeared to consist of unimproved land, possibly agricultural in nature. From 1998 through the present the Site has consisted of grass-covered, unimproved land. At the time of the Site reconnaissance the Site consisted of approximately 0.88-acre of unimproved land. Groundcover on the Site consisted of landscaped grass.

2.5 Summary of Adjacent Property History and Use

The adjoining properties consist primarily of commercial/retail properties.

North: North of the Site is East Markland Avenue. Beyond this are an Advance Auto Parts and Goodwill Store (*2250 & 2258 East Markland Avenue*).

South: South of the Site is large asphalt parking lot, followed by an associated Meijer Supermarket (*2301 East Markland Avenue*).

East: East of the Site is a Walgreens Pharmacy (*2345 East Markland Avenue*). Beyond that is South Goyer Road.

West: West of the Site is an access drive, followed by Meijer filling station (*2297 East Markland Avenue)*. Beyond that is an HH Gregg Appliance Store (*2021 East Markland Avenue*).

The Meijer filling station was identified as a REC/VEC to the Site in the Phase I report.

2.6 Summary of Previous Reports

A Phase I ESA was performed by A&W in November 2015 and identified an adjacent Meijer filling station as a REC/VEC. Additional reports or investigations were not provided for additional historical review in connection with the Site.

3.0 CONCEPTUAL SITE MODEL (CSM)

3.1 CSM Introduction

The conceptual Site model consists of descriptions of the likely environmental conditions of the property relative to the presence or likely presence of target analytes in environmental media. It includes discussion of the potential sources of contamination, likely contaminants based on Site use, and the fate and transport mechanisms of potential contaminants through the subsurface.

3.2 Target Analytes

Based on the use of petroleum USTs, the target analytes associated with this Phase II ESA focused on likely potential contaminants as detailed in table below. Specific analytes of each target group are itemized individually in the analytical summary tables located in the appendices section of this report**.**

Target Analytes for Phase II ESA		
Chemical Name	**Abbreviation**	**Methodology**
Target Analytes		
Volatile Organic Compounds	VOCs	US EPA SW-846 Method 8260
Polynuclear Aromatic Hydrocarbons	PAHs	US EPA SW-846 Method 8270 Selective Ion Monitoring (SIM)

3.2.1 Target Analyte Transformation

The primary target analytes are petroleum-based compounds, which can naturally attenuate into non-toxic byproducts. Therefore, the creation of toxic secondary target analytes (i.e. breakdown products) is unlikely.

3.2.2 Potential Release Source(s) and Entry Mechanism(s)

If a release were to have occurred from the UST system, petroleum contaminants would have originally been present in a liquid phase, which may have adsorbed to native soils adjacent to the UST system. Impacts from a UST system are possible due to slow, sustained release through holes in the tank structure or associated piping. Therefore, suspected impacts are likely in proximity to the UST system.

3.2.3 Target Analyte Behavior, Fate, and Transport Characteristics

Target analytes generally persist, and are commonly at their highest concentration, near the point of entry into environmental media. Migration of a release of target analytes generally results in a three (3)-dimensional expansion of the zone impacted by the target analytes.

Since the likely point of release would be in proximity to the UST system, and estimated regional groundwater direction is postulated to traverse north towards Wildcat Creek, a petroleum contamination plume would likely originate at the UST system and migrate north toward the Site boundary. Based on the nature of the specific gravity of the petroleum contaminant, the impacts would likely be present at the top of the water column and within the smear zone created by seasonal fluctuations of the water table. Additionally, soils within the vadose zone immediately adjacent to the UST system may be impacted from a release.

Depending on concentrations of target analytes, their relative volatility, and Site-specific preferential pathways (i.e. subsurface utilities), vapors emanating from a potential contaminant plume may migrate to environmental receptors.

3.2.4 Target Analyte Migration Pathways

The primary migration pathway for a release from the UST system would be transport via the underlying groundwater table in the presumed north direction of groundwater flow.

3.3 Sampling and Analysis Plan

A Site-specific sampling and analysis plan (SAP) was created based on the hypotheses derived during the creation of the conceptual Site model, following generally accepted Quality Assurance/Quality Control (QA/QC) protocols for sample collection, preservation, and analysis. The SAP is included in **Appendix B.**

During the development of the SAP, available information did not warrant direct evaluation of vapor intrusion pathways. Therefore, vapor sampling was not performed in conjunction with this ESA.

3.4 Additional Research and/or Interviews

No additional research or interviews were conducted as part of this assessment, outside of a review of the available documentation presented in the Phase I ESA, as summarized in Section 2.6.

4.0 WORK PERFORMED

4.1 Boring Locations

On January 11, 2016, two (2) soil borings (B-1 and B-2) were advanced along the west Site boundary adjacent to the off-Site Meijer filling station. Soil boring locations are illustrated on **Figure 3**, **Appendix A**.

4.2 Soil Sampling

This section details the methodology used in collecting representative soil samples, a general overview of soil lithology identified within advanced borings and laboratory analyses of soil samples.

4.2.1 Soil Sampling Methodology

The soil borings were advanced using a truck-mounted Geoprobe® 5410 unit with direct push technology to depths of approximately 16 and 20 feet below ground surface (bgs). Soil samples were continuously collected from a four (4)-foot Geoprobe® dual tube sampling device with an inner acetate liner.

Soil samples from the inner liner were field classified in two (2) foot sections and inspected for observable staining and noticeable odors. Once classified, the soil samples were collected and split into two (2) aliquots. One (1) aliquot was collected in a plastic zip-lock bag. The other aliquot was collected utilizing grab and US EPA 5035A sampling methodology and placed in one (1) unpreserved four (4)-ounce glass jars with Teflon-lined lids for non-volatile analysis and in three (3) 40-milliliter (mL) glass vials with Teflon-lined lids preserved with methanol or deionized water for volatile analysis.

New nitrile gloves were used for each sample collection to prevent cross-contamination. The aliquots collected for potential laboratory analysis were labeled and placed on ice in a cooler.

Each aliquot collected in the zip-lock bags were screened for VOCs using a Mini Rae 2000 photoionization detector (PID) equipped with a 10.2 eV probe. The PID measures the concentration of total photoionizable vapors (TPVs) in the air (headspace) surrounding the sample. Accordingly, the readings reported from the PID are in units relative to the calibration gas, rather than exact concentrations. The PID was calibrated to an isobutylene standard prior to Site operations.

The soil samples were allowed to equilibrate at the ambient temperature for a minimum of 10 minutes prior to screening procedures. Each individual aliquot was agitated for approximately 10 seconds to break soil clods and release vapors. The zip lock bag was opened and the PID probe tip carefully inserted into a small aperture in the bag. The highest instrument reading was immediately recorded. Headspace analysis results are reported on the boring logs located in **Appendix C**.

Since potential contamination (i.e. PID reading, staining, odor) was not encountered in

borings, the soil samples collected from the vadose zone were selected for laboratory analysis. The following soil samples were submitted to the laboratory for analysis:

Boring ID	Sample Depth (ft. bgs)	PID Reading (ppm)
B-1	10-12	0.0
B-2	9-11	0.0

4.2.2 Laboratory Analyses for Soil Samples

Two (2) soil samples collected along the west Site boundary were analyzed at Pace Analytical Services, Inc. in Indianapolis, Indiana for:

- VOCs using US EPA method SW846-8260; and,
- PAHs using US EPA method SW846-8270 SIM.

Table 1, **Appendix D** provides a sample collection and analysis summary. **Table 2**, **Appendix D** provides a summary of laboratory results for soils. The laboratory certificate of analysis and sampling chain of custody form are presented as **Appendix E**.

4.3 Groundwater Sampling

This section details the methodology used in collecting representative groundwater samples, an estimated depth to groundwater within advanced borings and the laboratory analyses of groundwater samples.

4.3.1 Groundwater Elevation

Initial depths to groundwater were estimated based on soil saturation at depths of 13 and 11 feet bgs in borings B-1 and B-2, respectively. Approximately 15 to 20 minutes after boring installation, the depth to water was measured using a 100-foot electronic water level probe consisting of a polyethylene tape with a ½ inch diameter stainless steel probe and an audible buzzer. Groundwater levels were measured at depths of 11 and 12 feet bgs in borings B-1 and B-2, respectively.

4.3.2 Groundwater Sampling Methodology

Groundwater samples B-1 and B-2 were collected from their respective on-Site soil borings for a total of two (2) groundwater samples.

In order to collect groundwater samples for groundwater quality analysis, temporary piezometers were installed in the borings with 10 feet of well screen positioned to intersect the groundwater table. The piezometers were constructed of one (1)-inch diameter, threaded, flush-joint Schedule 40 PVC 0.01-inch slot screens with bottom caps. Disposable plastic bailers were used to collect groundwater from each piezometer. New nitrile gloves were used for each sample collection to prevent cross-contamination. The temporary piezometer diagrams are located on the boring logs in **Appendix C**. The temporary piezometers were removed from each borehole following sample collection. Each borehole was then filled with bentonite chips to the ground surface.

The groundwater samples were placed in two (2) unpreserved 100-mL amber jars and three (3) 40-mL vials preserved with hydrochloric acid. The samples were then labeled and placed on ice in a cooler.

The following groundwater samples were submitted to the laboratory for analysis:

Boring ID	Screen Sample Depth (ft. bgs)
B-1	10-20
B-2	6-16

4.3.3 Laboratory Analyses for Groundwater Samples

Two (2) groundwater samples collected along the west Site boundary were analyzed at Pace Analytical Services, Inc. in Indianapolis, Indiana for:

- VOCs using US EPA method SW846-8260; and,
- PAHs using US EPA method SW846-8270 SIM.

Table 1, **Appendix D** provides a sample collection and analysis summary. **Table 3**, **Appendix D** provides a summary of laboratory results for groundwater. The laboratory certificate of analysis and sampling chain of custody form are presented as **Appendix E**.

5.0 INVESTIGATION RESULTS

5.1 Site-Specific Geologic Results

Soil borings B-1 and B-2 indicated silty clay loam to approximately 11 to 13 feet bgs underlain by sand and gravel to boring termination at 20 feet and 16 feet, respectively. Boring B-1 had a till layer at 15 feet bgs underlain by sand and gravel textured soils. Copies of the boring logs are provided in **Appendix C.**

5.2 Site-Specific Hydrogeologic Results

As described in Section 4.3.1, on-Site groundwater was measured at approximate depths of 11 and 12 feet bgs in borings B-1 and B-2 respectively. The piezometer screens were set to intercept the soil/groundwater interface as estimated by field observations.

5.3 Laboratory Results for Soil Samples

As summarized in **Table 2**, **Appendix D**, laboratory analysis of soil indicated the following:

- Various PAHs were detected above the laboratory reporting limit but below their respective IDEM RCG Residential Direct Contact (RDC), Commercial Direct Contact (CDC) and Soil Migration to Groundwater (MTG) Screening Levels in boring B-1.

As summarized in **Table 2**, **Appendix D**, laboratory analysis of soil indicated all other analyzed potential contaminants in each soil sample were identified below their respective laboratory reporting limits and IDEM RCG MTG, RDC and CDC Screening Levels.[1]

5.4 Laboratory Results for Groundwater Samples

As summarized in **Table 3**, **Appendix D**, laboratory analysis of groundwater indicated all analyses were below their respective laboratory reporting limits and IDEM RCG Residential Tap Screening Level and Residential and Commercial Groundwater Vapor Exposure Screening Levels.

5.5 Sampling and Analysis Plan Deviations

There were no deviations from the SAP for this investigation. A copy of the SAP is provided in **Appendix B**.

5.6 Validation of the Conceptual Site Model

Soil characterization results, hydraulic information, and analytical results confirm that appropriate environmental media were sampled from optimal or other appropriate locations and were tested for the appropriate target analytes based on the historic Site use, in accordance with the SAP and as required to meet the objective of the assessment.

[1] Several analyzed compounds may not have an analytical method available with a detection limit or quantitation limit that will meet the screening level.

6.0 INTERPRETATIONS AND CONCLUSIONS

6.1 Re-Statement of Objectives

A&W has performed a Phase II ESA at the property at 2301 East Markland Avenue in Kokomo, Indiana 46901 in conformance with the scope and limitations of ASTM Practice E 1903-11 and for the following objectives: to determine if Site environmental media have been affected by the REC/VEC identified in the Phase I ESA.

6.2 Investigation Analysis and Conclusions

The subsurface lithology of the likely release area consisted of shallow clays underlain by moist to wet sand and gravel. Groundwater was present in two (2) borings in proximity to the likely release area at a depth of approximately 11 to 12 feet bgs. Based on the soil and groundwater analytical results from samples obtained in proximity to the adjacent filling station and the resultant lack of contaminant detections in the soil and groundwater, it is unlikely that the adjacent UST system has had a negative effect on Site environmental media.

Analytical results indicated soil located along the west Site boundary adjacent to the off-Site fuel station identified concentrations of PAHs above the laboratory reporting limits, but below the IDEM RCG, MTG, RDC and CDC Screening Levels at depths ranging from approximately nine (9) to 12 feet bgs.

There were no groundwater concentrations identified above the laboratory reporting limits or their respective IDEM RCG Residential Tap, Residential Vapor, and/or Commercial Vapor Screening Levels.

According to the IDEM RCG, groundwater analytical results are compared to applicable Vapor Intrusion (VI) Screening Levels, where applicable. Based on these results, VI Investigations are not warranted on the Site.

The Site and surrounding area is connected to municipal drinking water and sewer utilities, and groundwater was encountered at approximately 11 to 12 feet bgs in these borings. Therefore, the lines of evidence indicate there is limited exposure for direct human contact and thus, exposure routes are not complete. Based on the validation of the conceptual Site model, the appropriateness of the SAP, and the interpretations present within this report, the objectives of this Phase II ESA have been satisfied.

6.3 Recommendations

Based on the results of this investigation, additional investigations do not appear warranted.

7.0 WARRANTY

A&W warrants that the findings and conclusions contained herein were derived in accordance with the methodologies and protocol of standard industry practices for subsurface investigations. It should be noted that all environmental evaluations are inherently limited in the sense that conclusions are drawn and recommendations developed from information obtained from limited research and evaluations. Additionally, the passage of time may result in a change in the environmental characteristics at the Site and surrounding properties. This report does not warrant against future operations or conditions, nor does this warrant operations or conditions present of a type or at a location not investigated. This report is not a regulatory compliance audit and is not intended to satisfy the requirements of any federal, state or local real estate laws.

8.0 REFERENCES

Alt & Witzig Consulting Services, Phase I Environmental Site Assessment: 2301 East Markland Avenue, Kokomo, Indiana, A&W Project Number 15IN0782, November 17, 2015.

American Society of Testing and Materials (ASTM), Practice E1903-11 – Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process, 2011.

Indiana Department of Environmental Management, Remediation Closure Guide, March 22, 2012, with updates.

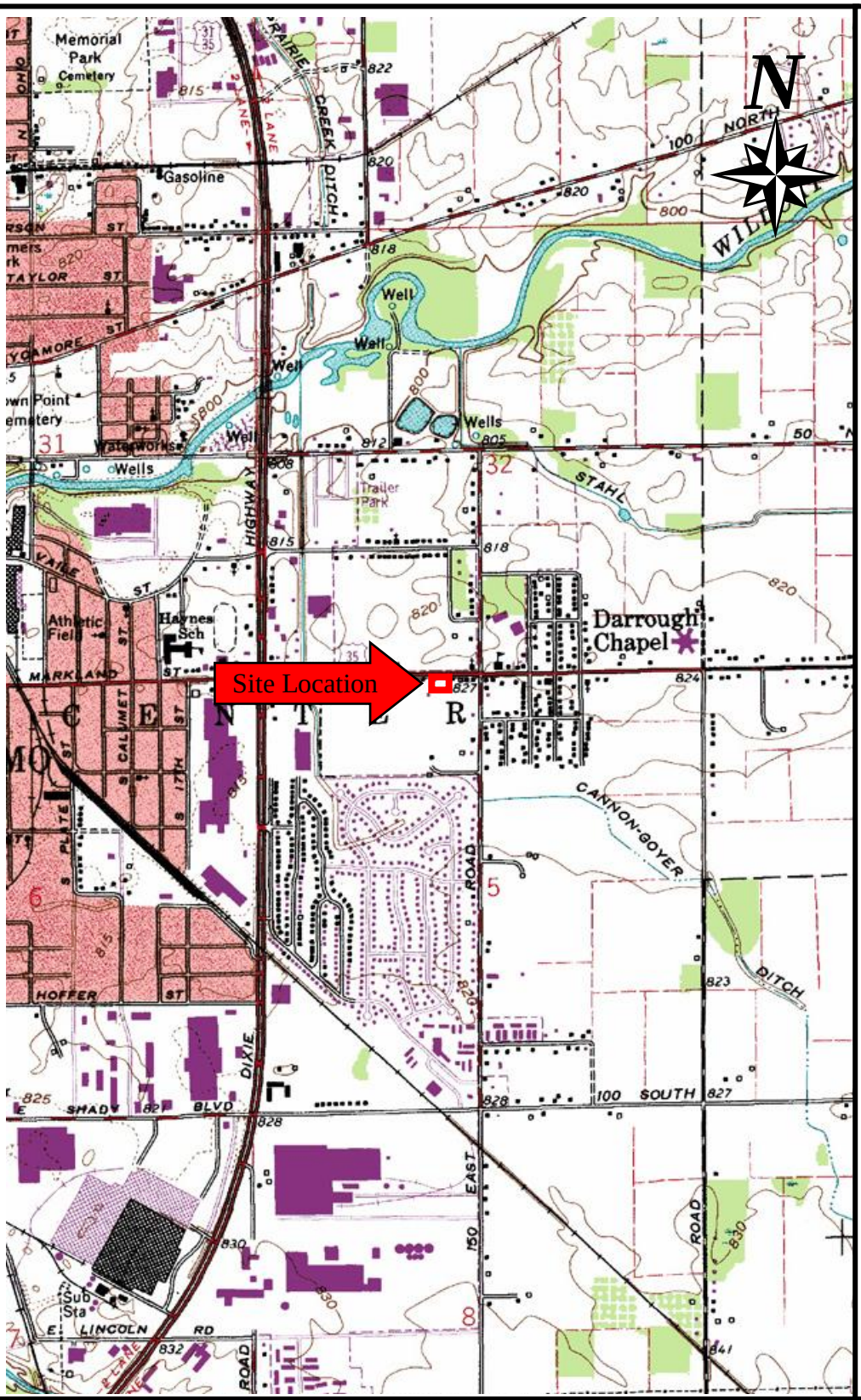
Indiana Department of Environmental Management, Remediation Program Guide, February 2012.

Pace Analytical Services, Laboratory Certificate of Analysis Number 50136269: Proposed Sonic 16IN0007, January 19, 2016.

APPENDIX A

Figures

FIGURE 1: SITE LOCATION MAP



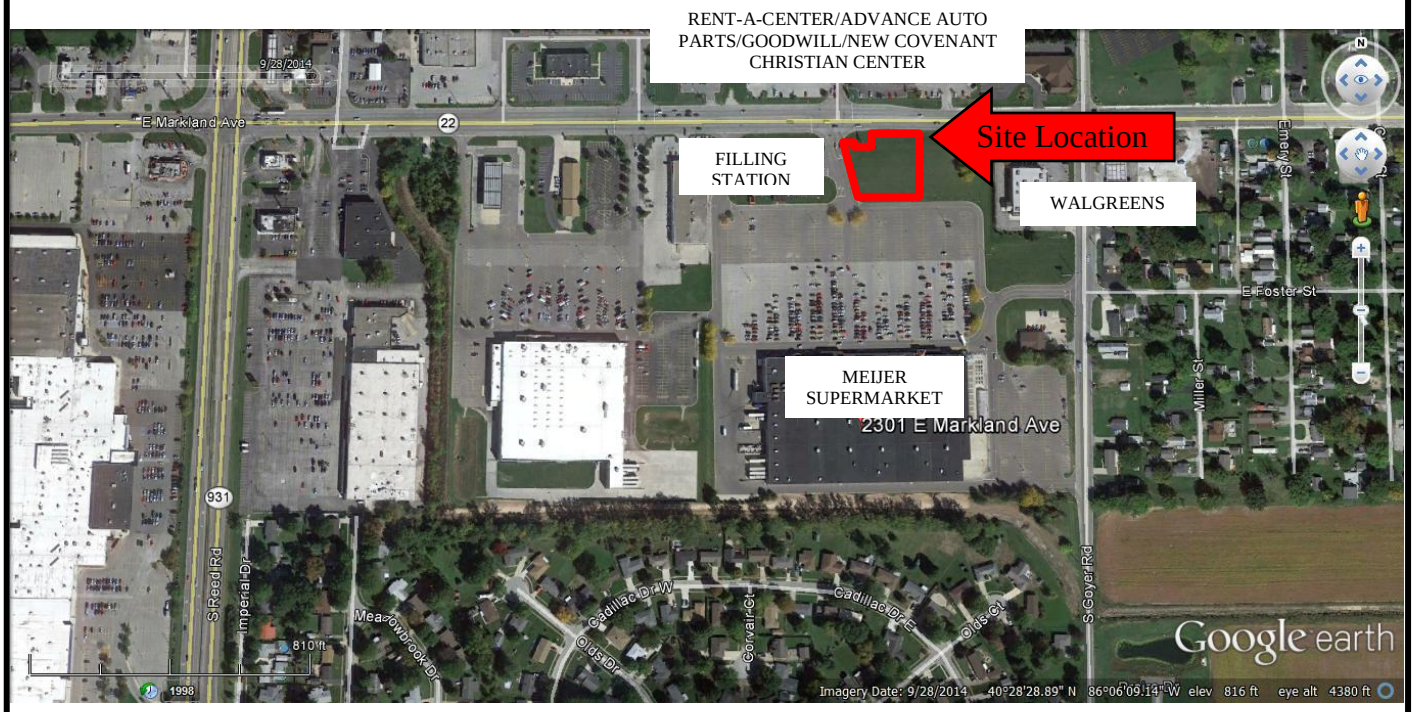
USGS Topographic Map:
Kokomo East Quadrangle

Township: T 23 N.
Range: R 4 E.
Section: 5

PROJECT: Proposed Sonic Restaurant
LOCATION: 2301 E. Markland Ave., Kokomo, IN
CLIENT: Geaux Sonic
A&W File No.: 16IN0007

Alt & Witzig Consulting Services
4105 W. 99th Street ·Carmel, IN 46032
TEL (317)875-7000 · FAX (317) 876-3705
www.altwitzig.com

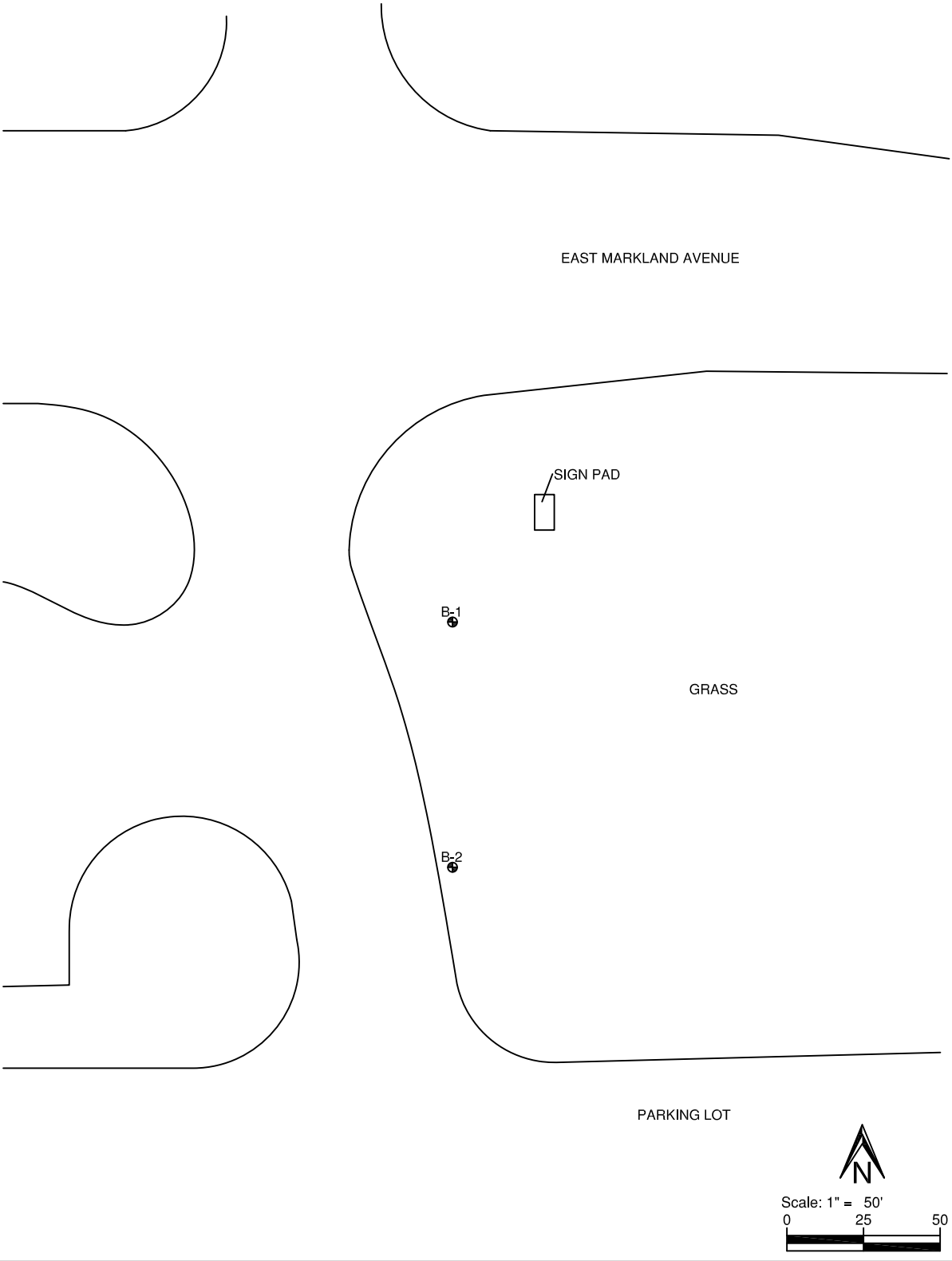
FIGURE 2: SITE VICINITY MAP



PROJECT: Proposed Sonic Restaurant
LOCATION: 2301 E. Markland Ave., Kokomo, IN
CLIENT: Geaux Sonic
A&W File No.: 16IN0007

Alt & Witzig Consulting Services
4105 W. 99th Street ·Carmel, IN 46032
TEL (317)875-7000 · FAX (317) 876-3705
www.altwitzig.com

FIGURE 3
BORING LOCATION PLAN



PROJECT NAME: Proposed Sonic Restaurant LOCATION: 2301 E. Markland Ave., Kokomo, IN PREPARED FOR: Geaux Sonic PROJECT NO: 16IN0007	Project Manager: DH Checked By: JF Drawn By: JT Date: 01/16	Alt & Witzig Consulting Services 4105 West 99th Street • Carmel, IN 46032 Telephone: (317) 875-7000 • Fax (317) 876-3705

APPENDIX B

Sampling and Analysis Plan

Phase II Investigation
Job Name: Proposed Sonic Restaurant
Job Number: 16IN0007

SAMPLING AND ANALYSIS PLAN

Proposal Number: 1512E012

Goal:

Advance two(2) soil borings on-Site along the west property line adjacent to the gas station.

Sample ID	Location	Media		Depth		Analysis		Sample Containers					
								Soil		Groundwater			
		Soil	Groundwater	Soil	Groundwater	Soil	Groundwater	4-oz. glass jars	Terracore Kit	40-mL HCl preserved glass vials	100 mL unpreserved glass jars	250-mL unpreserved plastic bottle	250-mL HNO_3 preserved plastic bottle
B-1	West Property Line	1	1	Highest PID or Vadose zone	Interface	VOCs, PAHs	VOCs, PAHs	1	1	3	2	-	-
B-2	West Property Line	1	1	Highest PID or Vadose zone	Interface	VOCs, PAHs	VOCs, PAHs	1	1	3	2	-	-
Total:		**2**	**2**					**2**	**2**	**6**	**4**	**0**	**0**

Scope and/or Additional Comments:
Collect one (1) soil and one (1) groundwater sample from each boring.
Place on ice. Submit to Pace Analytical Services.

APPENDIX C

Boring Logs

4105 West 99th Street
Carmel, Indiana 46032-1194
317-875-7000/317-876-3705(Fax)

Client: Geaux Sonic		Alt & Witzig File No: 16IN0007	Boring/Well: B-1
Project: Proposed Sonic Restaurant		**Well Construction Data**	
Date Started: 1/11/2016	Date Completed: 1/11/2016	Screen: 3/4" 0.010 Slot PVC	From: 10.0 To: 20.0
Logged By: B. Rutherford	Checked By: D. Herring	Pack: N/A	From: N/A To: N/A
Drilling Co.: A&W Consulting Services	Driller: P. Rose	Seal: N/A	From: N/A To: N/A
Method: Dual Tube	Equipment: Geoprobe 5410	Grout: N/A	From: N/A To: N/A
Boring Depth: 20.0 feet	Ground Surface Elevation: N/A	Inner Casing: N/A	
Initial GW Level: ▽ 13.00	GW Level: ▼ 11.00	Outer Casing/Stick Up: N/A	

Depth	Sample	Sample Number	Blow Count	Rec.(%)	PID (ppm)	Lith.	Description	Remarks	Well Construction
0		1		70	0.0		Very Dark Brown (10 YR 2/2) SILTY CLAY LOAM		
					0.0		Brownish Yellow (10 YR 6/6) SILTY CLAY LOAM		
5		2		70	0.0				
					0.0		Brown (10 YR 4/3) SANDY CLAY LOAM		
					0.0				
10		3		100	0.0		Brown (10 YR 4/3) SILTY CLAY LOAM	Soil Sample @ 10'-12' ▽	
					0.0				
		4		100	0.0		Brown (10 YR 4/3) Moist SAND and GRAVEL		
15					0.0		Grayish Brown (10 YR 5/2) Clayey SILT with a Trace of Sand and Gravel		
		5		80	0.0		Grayish Brown (10 YR 5/2) Wet SAND and GRAVEL		
20							Boring Terminated at 20.0 feet		

4105 West 99th Street
Carmel, Indiana 46032-1194
317-875-7000/317-876-3705(Fax)

Client: Geaux Sonic		Alt & Witzig File No: 16IN0007	Boring/Well: B-2
Project: Proposed Sonic Restaurant		**Well Construction Data**	
Date Started: 1/11/2016	Date Completed: 1/11/2016	Screen: 3/4" 0.010 Slot PVC	From: 6.0 To: 16.0
Logged By: B. Rutherford	Checked By: D. Herring	Pack: N/A	From: N/A To: N/A
Drilling Co.: A&W Consulting Services	Driller: P. Rose	Seal: N/A	From: N/A To: N/A
Method: Dual Tube	Equipment: Geoprobe 5410	Grout: N/A	From: N/A To: N/A
Boring Depth: 16.0 feet	Ground Surface Elevation: N/A	Inner Casing: N/A	
Initial GW Level: ▽ 11.00	GW Level: ▼ 12.00	Outer Casing/Stick Up: N/A	

Depth	Sample	Sample Number	Blow Count	Rec.(%)	PID (ppm)	Lith.	Description	Remarks	Well Construction
		1		90	0.0		Brown (10 YR 4/3) SILTY CLAY LOAM		
					0.0		Very Dark Brown (10 YR 2/2) SILTY CLAY LOAM		
5		2		80	0.0				5
					0.0		Grayish Brown (10 YR 5/2) CLAY LOAM		
					0.0			Soil Sample @ 9'-11'	
10		3		100	0.0				10
					0.0		Grayish Brown (10 YR 5/2) Wet SAND and GRAVEL		
		4		70	0.0		Brown (10 YR 4/3) Wet SANDY LOAM		
15									15
							Boring Terminated at 16.0 feet		

APPENDIX D

Laboratory Analytical Results Tables

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
PROPOSED SONIC RESTAURANT
KOKOMO, INDIANA

Sample Identification	*Sample Depth (feet bgs)*	*Matrix*	*Collection Date*	*Parameters*	*Analytical Method*
B-1	10-12	Soil	1/11/2016	VOCs PAHs	US EPA SW846-8260 US EPA SW846-8270SIM
B-2	9-11	Soil	1/11/2016	VOCs PAHs	US EPA SW846-8260 US EPA SW846-8270SIM
B-1	10-20	Groundwater	1/11/2016	VOCs PAHs	US EPA SW846-8260 US EPA SW846-8270SIM
B-2	6-16	Groundwater	1/11/2016	VOCs PAHs	US EPA SW846-8260 US EPA SW846-8270SIM

Abbreviations & Notes

US EPA = United States Environmental Protection Agency

VOCs = Volatile Organic Compounds

PAHs = Polynuclear Aromatic Hydrocarbons

SIM = Selective Ion Monitoring

TABLE 2

SUMMARY OF SOIL ANALYTICAL DATA
PROPOSED SONIC RESTAURANT
KOKOMO, INDIANA

Sample ID (and Depth - ft.):	***IDEM 2012 RCG RESIDENTIAL DIRECT CONTACT SLs (*)***	***IDEM 2012 RCG COMMERCIAL DIRECT CONTACT SLs (**)***	***IDEM 2012 RCG EXCAVATION DIRECT CONTACT SLs (#)***	***IDEM 2012 RCG SOIL MIGRATION TO GROUNDWATER SLs (^)***	**B-1 (10-12)**		**B-2 (9-11)**	
Sample Date:					01/11/2016		01/11/2016	
Parameters								
FULL LIST VOCs (8260)								
Acetone (2-Propanone)	***85,000***	***100,000***	***100,000***	***57***	<0.089		<0.093	
Acrolein	***0.2***	***0.6***	***3.4***	***0.00017***	<0.089	R	<0.093	R
Acrylonitrile	***3.5***	***11***	***370***	***0.0023***	<0.089	R	<0.093	R
Benzene	***17***	***51***	***1,800***	***0.051***	<0.0045		<0.0047	
Bromobenzene	***410***	***680***	***680***	***0.84***	<0.0045		<0.0047	
Bromochloromethane	***210***	***630***	***3,500***	***0.41***	<0.0045		<0.0047	
Bromodichloromethane	***4.1***	***13***	***930***	***0.43***	<0.0045		<0.0047	
Bromoform (tribromomethane)	***940***	***2,900***	***34,000***	***0.42***	<0.0045		<0.0047	
Bromomethane (methyl bromide)	***9.5***	***30***	***160***	***0.038***	<0.0045		<0.0047	
2-Butanone (MEK)	***28,000***	***28,000***	***28,000***	***23***	<0.022		<0.023	
n-Butylbenzene	***110***	***110***	***110***	***64***	<0.0045		<0.0047	
sec-Butylbenzene	***150***	***150***	***150***	***120***	<0.0045		<0.0047	
tert-Butylbenzene	***180***	***180***	***180***	***31***	<0.0045		<0.0047	
Carbon disulfide	***740***	***740***	***740***	***4.8***	<0.0089		<0.0093	
Carbon Tetrachloride	***9.1***	***29***	***460***	***0.039***	<0.0045		<0.0047	
Chlorobenzene	***390***	***760***	***760***	***1.4***	<0.0045		<0.0047	
Chloroethane	***NE***	***NE***	***NE***	***NE***	<0.0045		<0.0047	
Chloroform	***4.5***	***14***	***1,900***	***0.44***	<0.0045		<0.0047	
Chloromethane	***150***	***460***	***1,300***	***0.98***	<0.0045		<0.0047	
2-Chlorotoluene (o-Chlorotoluene)	***910***	***910***	***910***	***4.7***	<0.0045		<0.0047	
4-Chlorotoluene (p-Chlorotoluene)	***250***	***250***	***250***	***4.8***	<0.0045		<0.0047	
Dibromochloromethane	***10***	***32***	***800***	***0.43***	<0.0045		<0.0047	
1,2-Dibromoethane (EDB)[1]	***0.5***	***1.6***	***180***	***0.00028***	<0.0045	R	<0.0047	R
Dibromomethane (Methylene Bromide)	***32***	***98***	***540***	***0.039***	<0.0045		<0.0047	
1,2-Dichlorobenzene	***380***	***380***	***380***	***12***	<0.0045		<0.0047	
1,3-Dichlorobenzene	***NE***	***NE***	***NE***	***NE***	<0.0045		<0.0047	
1,4-Dichlorobenzene	***36***	***110***	***16,000***	***1.4***	<0.0045		<0.0047	
trans-1,4-Dichloro-2-butene	***0.1***	***0.32***	***44***	***0.00012***	<0.089	R	<0.093	R
Dichlorodifluoromethane	***120***	***370***	***850***	***6***	<0.0045		<0.0047	
1,1-Dichloroethane (1,1-DCA)	***50***	***160***	***1,700***	***0.15***	<0.0045		<0.0047	
1,2-Dichloroethane (1,2-DCA)[1]	***6.4***	***20***	***730***	***0.028***	<0.0045		<0.0047	
1,1-Dichloroethene (1,1-DCE)	***320***	***1,000***	***1,200***	***0.05***	<0.0045		<0.0047	
cis-1,2-Dichloroethene (cis-1,2-DCE)	***220***	***2,300***	***2,400***	***0.41***	<0.0045		<0.0047	
trans-1,2-Dichloroethene (trans-1,2-DCE)	***1,700***	***1,700***	***1,700***	***0.59***	<0.0045		<0.0047	
1,2-Dichloropropane	***14***	***44***	***370***	***0.033***	<0.0045		<0.0047	
1,3-Dichloropropane	***1,500***	***1,500***	***1,500***	***2.6***	<0.0045		<0.0047	
2,2-Dichloropropane	***NE***	***NE***	***NE***	***NE***	<0.0045		<0.0047	
1,1-Dichloropropene	***NE***	***NE***	***NE***	***NE***	<0.0045		<0.0047	
1,3-Dichloropropene (cis)	***NE***	***NE***	***NE***	***NE***	<0.0045		<0.0047	
1,3-Dichloropropene (trans)	***NE***	***NE***	***NE***	***NE***	<0.0045		<0.0047	
Ethylbenzene	***81***	***250***	***480***	***16***	<0.0045		<0.0047	
Ethyl methacrylate	***1,100***	***1,100***	***1,100***	***2.2***	<0.089		<0.093	
Hexachlorobutadiene	***87***	***300***	***1,800***	***0.12***	<0.0045		<0.0047	
n-Hexane	***140***	***140***	***140***	***44***	<0.0045		<0.0047	
2-Hexanone	***280***	***1,300***	***3,300***	***0.18***	<0.089		<0.093	
Iodomethane	***NE***	***NE***	***NE***	***NE***	<0.089		<0.093	
Isopropylbenzene (Cumene)	***270***	***270***	***270***	***15***	<0.0045		<0.0047	
p-Isopropyltoluene	***NE***	***NE***	***NE***	***NE***	<0.0045		<0.0047	
Methylene Chloride	***490***	***3,200***	***3,300***	***0.025***	<0.018		<0.019	

TABLE 2

SUMMARY OF SOIL ANALYTICAL DATA
PROPOSED SONIC RESTAURANT
KOKOMO, INDIANA

Sample ID (and Depth - ft.):	***IDEM 2012 RCG RESIDENTIAL DIRECT CONTACT SLs (*)***	***IDEM 2012 RCG COMMERCIAL DIRECT CONTACT SLs (**)***	***IDEM 2012 RCG EXCAVATION DIRECT CONTACT SLs (#)***	***IDEM 2012 RCG SOIL MIGRATION TO GROUNDWATER SLs (^)***	**B-1 (10-12)**	**B-2 (9-11)**
Sample Date:					01/11/2016	01/11/2016
Parameters						
1-Methylnaphthalene	***240***	***730***	***40,000***	***1.2***	<0.0089	<0.0093
2-Methylnaphthalene	***320***	***3,000***	***6,800***	***3.7***	<0.0089	<0.0093
Methyl Isobutyl Ketone (MIBK)	***3,400***	***3,400***	***3,400***	***5.4***	<0.022	<0.023
Methyl Tert-Butyl Ether (MTBE)	***600***	***2,100***	***8,900***	***0.63***	<0.0045	<0.0047
Naphthalene	***53***	***170***	***3,100***	***0.11***	<0.0045	<0.0047
Propyl benzene	***260***	***260***	***260***	***25***	<0.0045	<0.0047
Styrene	***870***	***870***	***870***	***2.2***	<0.0045	<0.0047
1,1,1,2-Tetrachloroethane	***28***	***88***	***680***	***0.043***	<0.0045	<0.0047
1,1,2,2-Tetrachloroethane	***8.4***	***27***	***1,900***	***0.0059***	<0.0045	<0.0047
Tetrachloroethene (PCE)	***110***	***170***	***170***	***0.045***	<0.0045	<0.0047
Toluene	***820***	***820***	***820***	***14***	<0.0045	<0.0047
1,2,3-Trichlorobenzene	***69***	***660***	***1,400***	***0.42***	<0.0045	<0.0047
1,2,4-Trichlorobenzene	***81***	***260***	***400***	***4.1***	<0.0045	<0.0047
1,1,1-Trichloroethane (1,1,1-TCA)	***640***	***640***	***640***	***1.4***	<0.0045	<0.0047
1,1,2-Trichloroethane (1,1,2-TCA)	***2.1***	***6.3***	***35***	***0.032***	<0.0045	<0.0047
Trichloroethene (TCE)	***5.7***	***19***	***95***	***0.036***	<0.0045	<0.0047
Trichlorofluoromethane	***1,100***	***1,200***	***1,200***	***14***	<0.0045	<0.0047
1,2,3-Trichloropropane	***0.071***	***1.1***	***46***	***0.000065***	<0.0045 R	<0.0047 R
1,2,4-Trimethylbenzene	***81***	***220***	***220***	***0.44***	<0.0045	<0.0047
1,3,5-Trimethylbenzene	***180***	***180***	***180***	***3.4***	<0.0045	<0.0047
Vinyl acetate	***1,300***	***2,800***	***2,800***	***1.7***	<0.089	<0.093
Vinyl Chloride	***0.83***	***17***	***1,300***	***0.014***	<0.0045	<0.0047
Xylene (Total)	***260***	***260***	***260***	***200***	<0.0089	<0.0093
PAHs (8270)						
Acenaphthene	***4,900***	***45,000***	***100,000***	***100***	<0.0055	<0.0061
Acenaphthylene	***NE***	***NE***	***NE***	***NE***	<0.0055	<0.0061
Anthracene	***24,000***	***100,000***	***100,000***	***1,200***	<0.0055	<0.0061
Benzo(a)anthracene	***2.1***	***29***	***1,600***	***2.4***	<0.0055	<0.0061
Benzo(a)pyrene	***0.21***	***2.9***	***160***	***4.7***	<0.0055	<0.0061
Benzo(b)fluoranthene	***2.1***	***29***	***1,600***	***8.2***	<0.0055	<0.0061
Benzo(g,h,i)perylene	***NE***	***NE***	***NE***	***NE***	<0.0055	<0.0061
Benzo(k)fluoranthene	***21***	***290***	***16,000***	***80***	<0.0055	<0.0061
Chrysene	***210***	***2,900***	***100,000***	***250***	0.0068	<0.0061
Dibenz(a,h)anthracene	***0.21***	***2.9***	***160***	***2.6***	<0.0055	<0.0061
Fluoranthene	***3,200***	***30,000***	***68,000***	***1,800***	0.0079	<0.0061
Fluorene	***3,200***	***30,000***	***68,000***	***110***	<0.0055	<0.0061
Indeno(1,2,3-cd)pyrene	***2.1***	***29***	***1,600***	***47***	<0.0055	<0.0061
1-Methylnaphthalene	***240***	***730***	***40,000***	***1.2***	<0.0055	<0.0061
2-Methylnaphthalene	***320***	***3,000***	***6,800***	***3.7***	<0.0055	<0.0061
Naphthalene	***53***	***170***	***3,100***	***0.11***	<0.0055	<0.0061
Phenanthrene	***NE***	***NE***	***NE***	***NE***	0.012	<0.0061
Pyrene	***2,400***	***23,000***	***51,000***	***260***	0.0087	<0.0061

Abbreviations & Notes

All results and IDEM Screening Levels are reported in mg/kg or parts per million (ppm)

IDEM = Indiana Department of Environmental Management

RCG = Remediation Closure Guide

SLs = Screening Levels (updated March 2015)

[1] = Identified in the IDEM guidance as Lead Scavangers

NA = Not analyzed NE=Not Established

R = Reporting limit (RL) above closure level due to dilution

* = Above Residential Direct Contact Screening Level

** = Above Commercial/Industrial Direct Contact Screening Level

= Above Excavation Direct Contact Screening Level

^ = Above Soil Migration to Groundwater Screening Level

TABLE 3

SUMMARY OF GROUNDWATER ANALYTICAL DATA
PROPOSED SONIC RESTAURANT
KOKOMO, INDIANA

Sample ID (and Depth - ft.):	***IDEM 2012 RCG RESIDENTIAL TAP SLs (^)***	***IDEM 2012 RCG RESIDENTIAL VAPOR SLs (*)***	***IDEM 2012 RCG COM/IND VAPOR SLs (**)***	**B-1 (10-20)**		**B-2 (6-16)**	
Sample Date:				01/11/2016		01/11/2016	
Parameters							
FULL LIST VOCs (8260)							
Acetone (2-Propanone)	***12,000***	***NE***	***NE***	<100		<100	
Acrolein	***0.041***	***NE***	***NE***	<50.0	R	<50.0	R
Acrylonitrile	***0.45***	***NE***	***NE***	<100	R	<100	R
Benzene	***5***	***28***	***120***	<5.0		<5.0	
Bromobenzene	***62***	***NE***	***NE***	<5.0		<5.0	
Bromochloromethane	***83***	***NE***	***NE***	<5.0		<5.0	
Bromodichloromethane	***80***	***NE***	***NE***	<5.0		<5.0	
Bromoform (tribromomethane)	***80***	***NE***	***NE***	<5.0		<5.0	
Bromomethane (methyl bromide)	***8***	***NE***	***NE***	<5.0		<5.0	
2-Butanone (MEK)	***5,600***	***NE***	***NE***	<25.0		<25.0	
n-Butylbenzene	***1,000***	***NE***	***NE***	<5.0		<5.0	
sec-Butylbenzene	***2,000***	***NE***	***NE***	<5.0		<5.0	
tert-Butylbenzene	***690***	***NE***	***NE***	<5.0		<5.0	
Carbon disulfide	***810***	***NE***	***NE***	<10.0		<10.0	
Carbon Tetrachloride	***5***	***6.5***	***28***	<5.0		<5.0	
Chlorobenzene	***100***	***NE***	***NE***	<5.0		<5.0	
Chloroethane	***NE***	***NE***	***NE***	<5.0		<5.0	
Chloroform	***80***	***NE***	***NE***	<5.0		<5.0	
Chloromethane	***190***	***NE***	***NE***	<5.0		<5.0	
2-Chlorotoluene (o-Chlorotoluene)	***240***	***NE***	***NE***	<5.0		<5.0	
4-Chlorotoluene (p-Chlorotoluene)	***250***	***NE***	***NE***	<5.0		<5.0	
Dibromochloromethane	***80***	***NE***	***NE***	<5.0		<5.0	
1,2-Dibromoethane (EDB)	***0.05***	***NE***	***NE***	<5.0	R	<5.0	R
Dibromomethane (Methylene Bromide)	***8***	***NE***	***NE***	<5.0		<5.0	
1,2-Dichlorobenzene	***600***	***NE***	***NE***	<5.0		<5.0	
1,3-Dichlorobenzene	***NE***	***NE***	***NE***	<5.0		<5.0	
1,4-Dichlorobenzene	***75***	***NE***	***NE***	<5.0		<5.0	
trans-1,4-Dichloro-2-butene	***0.013***	***NE***	***NE***	<100	R	<100	R
Dichlorodifluoromethane	***200***	***NE***	***NE***	<5.0		<5.0	
1,1-Dichloroethane (1,1-DCA)[1]	***27***	***130***	***550***	<5.0		<5.0	
1,2-Dichloroethane (1,2-DCA)	***5***	***50***	***210***	<5.0		<5.0	
1,1-Dichloroethene (1,1-DCE)	***7***	***300***	***1,300***	<5.0		<5.0	
cis-1,2-Dichloroethene (cis-1,2-DCE)	***70***	***NE***	***NE***	<5.0		<5.0	
trans-1,2-Dichloroethene (trans-1,2-DCE)	***100***	***NE***	***NE***	<5.0		<5.0	
1,2-Dichloropropane	***5***	***NE***	***NE***	<5.0		<5.0	
1,3-Dichloropropane	***370***	***NE***	***NE***	<5.0		<5.0	
2,2-Dichloropropane	***NE***	***NE***	***NE***	<5.0		<5.0	
1,1-Dichloropropene	***NE***	***NE***	***NE***	<5.0		<5.0	
1,3-Dichloropropene (cis)	***NE***	***NE***	***NE***	<5.0		<5.0	
1,3-Dichloropropene (trans)	***NE***	***NE***	***NE***	<5.0		<5.0	
Ethylbenzene	***700***	***NE***	***NE***	<5.0		<5.0	
Ethyl methacrylate	***460***	***NE***	***NE***	<100		<100	
Hexachlorobutadiene	***3.0***	***NE***	***NE***	<5.0	R	<5.0	R
n-Hexane	***320***	***NE***	***NE***	<5.0		<5.0	
2-Hexanone	***38***	***NE***	***NE***	<25.0		<25.0	
Iodomethane	***NE***	***NE***	***NE***	<10.0		<10.0	
Isopropylbenzene (Cumene)	***450***	***NE***	***NE***	<5.0		<5.0	
p-Isopropyltoluene	***NE***	***NE***	***NE***	<5.0		<5.0	
Methylene Chloride	***5***	***NE***	***NE***	<5.0		<5.0	

TABLE 3

SUMMARY OF GROUNDWATER ANALYTICAL DATA
PROPOSED SONIC RESTAURANT
KOKOMO, INDIANA

Sample ID (and Depth - ft.):	***IDEM 2012 RCG RESIDENTIAL TAP SLs (^)***	***IDEM 2012 RCG RESIDENTIAL VAPOR SLs (*)***	***IDEM 2012 RCG COM/IND VAPOR SLs (**)***	**B-1 (10-20)**		**B-2 (6-16)**	
Sample Date:				01/11/2016		01/11/2016	
Parameters							
1-Methylnaphthalene	***11.0***	***NE***	***NE***	<5.0		<5.0	
2-Methylnaphthalene	***36***	***NE***	***NE***	<10.0		<10.0	
Methyl Isobutyl Ketone (MIBK)	***1,200***	***NE***	***NE***	<25.0		<25.0	
Methyl Tert-Butyl Ether (MTBE)	***140***	***NE***	***NE***	<4.0		<4.0	
Naphthalene	***1.7***	***110***	***460***	<1.7		<1.7	
Propylbenzene	***660***	***NE***	***NE***	<5.0		<5.0	
Styrene	***100***	***NE***	***NE***	<5.0		<5.0	
1,1,1,2-Tetrachloroethane	***6***	***NE***	***NE***	<5.0		<5.0	
1,1,2,2-Tetrachloroethane	***0.76***	***72***	***310***	<5.0	R	<5.0	R
Tetrachloroethene (PCE)	***5***	***110***	***470***	<5.0		<5.0	
Toluene	***1,000***	***NE***	***NE***	<5.0		<5.0	
1,2,3-Trichlorobenzene	***7.0***	***NE***	***NE***	<5.0		<5.0	
1,2,4-Trichlorobenzene	***70***	***NE***	***NE***	<5.0		<5.0	
1,1,1-Trichloroethane (1,1,1-TCA)	***200***	***13,000***	***54,000***	<5.0		<5.0	
1,1,2-Trichloroethane (1,1,2-TCA)	***5***	***11***	***46***	<5.0		<5.0	
Trichloroethene (TCE)	***5***	***9.1***	***38***	<5.0		<5.0	
Trichlorofluoromethane	***1,100***	***NE***	***NE***	<5.0		<5.0	
1,2,3-Trichloropropane	***0.0075***	***NE***	***NE***	<5.0	R	<5.0	R
1,2,4-Trimethylbenzene	***15***	***NE***	***NE***	<5.0		<5.0	
1,3,5-Trimethylbenzene	***120***	***NE***	***NE***	<5.0		<5.0	
Vinyl acetate	***410***	***NE***	***NE***	<50.0		<50.0	
Vinyl Chloride	***2.0***	***2.1***	***35***	<2.0		<2.0	
Xylene (Total)	***10,000***	***NE***	***NE***	<10.0		<10.0	
PAHs (8270)							
Acenaphthene	***530***	***NE***	***NE***	<1.0		<1.0	
Acenaphthylene	***NE***	***NE***	***NE***	<1.0		<1.0	
Anthracene	***1,800***	***NE***	***NE***	<0.10		<0.10	
Benzo(a)anthracene	***0.34***	***NE***	***NE***	<0.10		<0.10	
Benzo(a)pyrene	***0.2***	***NE***	***NE***	<0.10		<0.10	
Benzo(b)fluoranthene	***0.34***	***NE***	***NE***	<0.10		<0.10	
Benzo(g,h,i)perylene	***NE***	***NE***	***NE***	<0.10		<0.10	
Benzo(k)fluoranthene	***3.4***	***NE***	***NE***	<0.10		<0.10	
Chrysene	***34***	***NE***	***NE***	<0.50		<0.50	
Dibenz(a,h)anthracene	***0.034***	***NE***	***NE***	<0.10	R	<0.10	R
Fluoranthene	***800***	***NE***	***NE***	<1.0		<1.0	
Fluorene	***290***	***NE***	***NE***	<1.0		<1.0	
Indeno(1,2,3-cd)pyrene	***0.34***	***NE***	***NE***	<0.10		<0.10	
1-Methylnaphthalene	***11***	***NE***	***NE***	<1.0		<1.0	
2-Methylnaphthalene	***36***	***NE***	***NE***	<1.0		<1.0	
Naphthalene	***1.7***	***110***	***460***	<1.0		<1.0	
Phenanthrene	***NE***	***NE***	***NE***	<1.0		<1.0	
Pyrene	***120***	***NE***	***NE***	<1.0		<1.0	

Abbreviations & Notes

All results and IDEM Screening Levels are reported in µg/L or parts per billion (ppb)

IDEM = Indiana Department of Environmental Management

RCG = Remediation Closure Guide

SLs = Screening Levels (updated March 2015)

[1] = Identified in the IDEM guidance as Lead Scavangers

NA = Not analyzed NE = Not Established

R = Reporting limit (RL) above closure level due to dilution

^ = Above Residential Tap Screening Level

* = Above Residential Vapor Screening Level

** = Above Commercial/Industrial Vapor Screening Level

APPENDIX E

Laboratory Certificate of Analysis and Sampling Chain of Custody

Pace Analytical Services, Inc.
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4860 Blazer Parkway
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Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

January 19, 2016

Mr. David Herring
Alt & Witzig Engineering, Inc.
4105 West 99th Street
Carmel, IN 46032

RE: Project: Proposed Sonic 16IN0007
Pace Project No.: 50136269

Dear Mr. Herring:
Enclosed are the analytical results for sample(s) received by the laboratory on January 11, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Regina Bedel
regina.bedel@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: Proposed Sonic 16IN0007
Pace Project No.: 50136269

Indiana Certification IDs
7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas Certification #:E-10177
Kentucky UST Certification #: 0042
Kentucky WW Certification #:98019
Louisiana Certification #: 04076
Ohio VAP Certification #: CL-0065
Oklahoma Certification #: 2014-148
Texas Certification #: T104704355-15-9
West Virginia Certification #: 330
Wisconsin Certification #: 999788130
USDA Soil Permit #: P330-10-00128

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Proposed Sonic 16IN0007
Pace Project No.: 50136269

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50136269001	**B-1 (10-12)**	Solid	01/11/16 10:45	01/11/16 14:25
50136269002	**B-2 (9-11)**	Solid	01/11/16 11:30	01/11/16 14:25
50136269003	**B-1 (10-20)**	Water	01/11/16 11:00	01/11/16 14:25
50136269004	**B-2 (6-16)**	Water	01/11/16 11:50	01/11/16 14:25

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SAMPLE ANALYTE COUNT

Project: Proposed Sonic 16IN0007
Pace Project No.: 50136269

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50136269001	**B-1 (10-12)**	EPA 8270 by SIM	JCM	20
		EPA 8260	GRM	75
		SM 2540G	ESC	1
50136269002	**B-2 (9-11)**	EPA 8270 by SIM	JCM	20
		EPA 8260	GRM	75
		SM 2540G	ESC	1
50136269003	**B-1 (10-20)**	EPA 8270 by SIM LVE	TBP	20
		EPA 8260	JLZ	75
50136269004	**B-2 (6-16)**	EPA 8270 by SIM LVE	TBP	20
		EPA 8260	JLZ	75

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SUMMARY OF DETECTION

Project: Proposed Sonic 16IN0007
Pace Project No.: 50136269

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50136269001	**B-1 (10-12)**					
EPA 8270 by SIM	Chrysene	0.0068	mg/kg	0.0055	01/13/16 02:37	
EPA 8270 by SIM	Fluoranthene	0.0079	mg/kg	0.0055	01/13/16 02:37	
EPA 8270 by SIM	Phenanthrene	0.012	mg/kg	0.0055	01/13/16 02:37	
EPA 8270 by SIM	Pyrene	0.0087	mg/kg	0.0055	01/13/16 02:37	
SM 2540G	Percent Moisture	9.7	%	0.10	01/12/16 14:08	
50136269002	**B-2 (9-11)**					
SM 2540G	Percent Moisture	18.1	%	0.10	01/12/16 14:08	

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ANALYTICAL RESULTS

Project: Proposed Sonic 16IN0007
Pace Project No.: 50136269

Sample: B-1 (10-12) **Lab ID: 50136269001** Collected: 01/11/16 10:45 Received: 01/11/16 14:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	mg/kg	0.0055	1	01/12/16 13:00	01/13/16 02:37	83-32-9	
Acenaphthylene	ND	mg/kg	0.0055	1	01/12/16 13:00	01/13/16 02:37	208-96-8	
Anthracene	ND	mg/kg	0.0055	1	01/12/16 13:00	01/13/16 02:37	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0055	1	01/12/16 13:00	01/13/16 02:37	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0055	1	01/12/16 13:00	01/13/16 02:37	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0055	1	01/12/16 13:00	01/13/16 02:37	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0055	1	01/12/16 13:00	01/13/16 02:37	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0055	1	01/12/16 13:00	01/13/16 02:37	207-08-9	
Chrysene	**0.0068**	mg/kg	0.0055	1	01/12/16 13:00	01/13/16 02:37	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0055	1	01/12/16 13:00	01/13/16 02:37	53-70-3	
Fluoranthene	**0.0079**	mg/kg	0.0055	1	01/12/16 13:00	01/13/16 02:37	206-44-0	
Fluorene	ND	mg/kg	0.0055	1	01/12/16 13:00	01/13/16 02:37	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0055	1	01/12/16 13:00	01/13/16 02:37	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0055	1	01/12/16 13:00	01/13/16 02:37	90-12-0	
2-Methylnaphthalene	ND	mg/kg	0.0055	1	01/12/16 13:00	01/13/16 02:37	91-57-6	
Naphthalene	ND	mg/kg	0.0055	1	01/12/16 13:00	01/13/16 02:37	91-20-3	
Phenanthrene	**0.012**	mg/kg	0.0055	1	01/12/16 13:00	01/13/16 02:37	85-01-8	
Pyrene	**0.0087**	mg/kg	0.0055	1	01/12/16 13:00	01/13/16 02:37	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	84	%.	38-110	1	01/12/16 13:00	01/13/16 02:37	321-60-8	
p-Terphenyl-d14 (S)	81	%.	32-111	1	01/12/16 13:00	01/13/16 02:37	1718-51-0	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.089	1		01/13/16 15:53	67-64-1	
Acrolein	ND	mg/kg	0.089	1		01/13/16 15:53	107-02-8	
Acrylonitrile	ND	mg/kg	0.089	1		01/13/16 15:53	107-13-1	
Benzene	ND	mg/kg	0.0045	1		01/13/16 15:53	71-43-2	
Bromobenzene	ND	mg/kg	0.0045	1		01/13/16 15:53	108-86-1	
Bromochloromethane	ND	mg/kg	0.0045	1		01/13/16 15:53	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0045	1		01/13/16 15:53	75-27-4	
Bromoform	ND	mg/kg	0.0045	1		01/13/16 15:53	75-25-2	
Bromomethane	ND	mg/kg	0.0045	1		01/13/16 15:53	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.022	1		01/13/16 15:53	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0045	1		01/13/16 15:53	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0045	1		01/13/16 15:53	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0045	1		01/13/16 15:53	98-06-6	
Carbon disulfide	ND	mg/kg	0.0089	1		01/13/16 15:53	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0045	1		01/13/16 15:53	56-23-5	
Chlorobenzene	ND	mg/kg	0.0045	1		01/13/16 15:53	108-90-7	
Chloroethane	ND	mg/kg	0.0045	1		01/13/16 15:53	75-00-3	
Chloroform	ND	mg/kg	0.0045	1		01/13/16 15:53	67-66-3	
Chloromethane	ND	mg/kg	0.0045	1		01/13/16 15:53	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0045	1		01/13/16 15:53	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0045	1		01/13/16 15:53	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0045	1		01/13/16 15:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0045	1		01/13/16 15:53	106-93-4	

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ANALYTICAL RESULTS

Project: Proposed Sonic 16IN0007
Pace Project No.: 50136269

Sample: B-1 (10-12) **Lab ID: 50136269001** Collected: 01/11/16 10:45 Received: 01/11/16 14:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Dibromomethane	ND	mg/kg	0.0045	1		01/13/16 15:53	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0045	1		01/13/16 15:53	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0045	1		01/13/16 15:53	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0045	1		01/13/16 15:53	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.089	1		01/13/16 15:53	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0045	1		01/13/16 15:53	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0045	1		01/13/16 15:53	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0045	1		01/13/16 15:53	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0045	1		01/13/16 15:53	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0045	1		01/13/16 15:53	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0045	1		01/13/16 15:53	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0045	1		01/13/16 15:53	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0045	1		01/13/16 15:53	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0045	1		01/13/16 15:53	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0045	1		01/13/16 15:53	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0045	1		01/13/16 15:53	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0045	1		01/13/16 15:53	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0045	1		01/13/16 15:53	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.089	1		01/13/16 15:53	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0045	1		01/13/16 15:53	87-68-3	
n-Hexane	ND	mg/kg	0.0045	1		01/13/16 15:53	110-54-3	
2-Hexanone	ND	mg/kg	0.089	1		01/13/16 15:53	591-78-6	
Iodomethane	ND	mg/kg	0.089	1		01/13/16 15:53	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0045	1		01/13/16 15:53	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0045	1		01/13/16 15:53	99-87-6	
Methylene Chloride	ND	mg/kg	0.018	1		01/13/16 15:53	75-09-2	
1-Methylnaphthalene	ND	mg/kg	0.0089	1		01/13/16 15:53	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0089	1		01/13/16 15:53	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.022	1		01/13/16 15:53	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0045	1		01/13/16 15:53	1634-04-4	
Naphthalene	ND	mg/kg	0.0045	1		01/13/16 15:53	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0045	1		01/13/16 15:53	103-65-1	
Styrene	ND	mg/kg	0.0045	1		01/13/16 15:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0045	1		01/13/16 15:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0045	1		01/13/16 15:53	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0045	1		01/13/16 15:53	127-18-4	
Toluene	ND	mg/kg	0.0045	1		01/13/16 15:53	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0045	1		01/13/16 15:53	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0045	1		01/13/16 15:53	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0045	1		01/13/16 15:53	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0045	1		01/13/16 15:53	79-00-5	
Trichloroethene	ND	mg/kg	0.0045	1		01/13/16 15:53	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0045	1		01/13/16 15:53	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0045	1		01/13/16 15:53	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0045	1		01/13/16 15:53	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0045	1		01/13/16 15:53	108-67-8	

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ANALYTICAL RESULTS

Project: Proposed Sonic 16IN0007
Pace Project No.: 50136269

Sample: B-1 (10-12) **Lab ID: 50136269001** Collected: 01/11/16 10:45 Received: 01/11/16 14:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Vinyl acetate	ND	mg/kg	0.089	1		01/13/16 15:53	108-05-4	
Vinyl chloride	ND	mg/kg	0.0045	1		01/13/16 15:53	75-01-4	
Xylene (Total)	ND	mg/kg	0.0089	1		01/13/16 15:53	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	107	%.	85-118	1		01/13/16 15:53	1868-53-7	
Toluene-d8 (S)	117	%.	71-128	1		01/13/16 15:53	2037-26-5	
4-Bromofluorobenzene (S)	57	%.	56-144	1		01/13/16 15:53	460-00-4	
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**9.7**	%	0.10	1		01/12/16 14:08		

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ANALYTICAL RESULTS

Project: Proposed Sonic 16IN0007
Pace Project No.: 50136269

Sample: B-2 (9-11) **Lab ID: 50136269002** Collected: 01/11/16 11:30 Received: 01/11/16 14:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	mg/kg	0.0061	1	01/12/16 13:00	01/13/16 02:54	83-32-9	
Acenaphthylene	ND	mg/kg	0.0061	1	01/12/16 13:00	01/13/16 02:54	208-96-8	
Anthracene	ND	mg/kg	0.0061	1	01/12/16 13:00	01/13/16 02:54	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0061	1	01/12/16 13:00	01/13/16 02:54	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0061	1	01/12/16 13:00	01/13/16 02:54	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0061	1	01/12/16 13:00	01/13/16 02:54	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0061	1	01/12/16 13:00	01/13/16 02:54	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0061	1	01/12/16 13:00	01/13/16 02:54	207-08-9	
Chrysene	ND	mg/kg	0.0061	1	01/12/16 13:00	01/13/16 02:54	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0061	1	01/12/16 13:00	01/13/16 02:54	53-70-3	
Fluoranthene	ND	mg/kg	0.0061	1	01/12/16 13:00	01/13/16 02:54	206-44-0	
Fluorene	ND	mg/kg	0.0061	1	01/12/16 13:00	01/13/16 02:54	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0061	1	01/12/16 13:00	01/13/16 02:54	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0061	1	01/12/16 13:00	01/13/16 02:54	90-12-0	
2-Methylnaphthalene	ND	mg/kg	0.0061	1	01/12/16 13:00	01/13/16 02:54	91-57-6	
Naphthalene	ND	mg/kg	0.0061	1	01/12/16 13:00	01/13/16 02:54	91-20-3	
Phenanthrene	ND	mg/kg	0.0061	1	01/12/16 13:00	01/13/16 02:54	85-01-8	
Pyrene	ND	mg/kg	0.0061	1	01/12/16 13:00	01/13/16 02:54	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	66	%.	38-110	1	01/12/16 13:00	01/13/16 02:54	321-60-8	
p-Terphenyl-d14 (S)	64	%.	32-111	1	01/12/16 13:00	01/13/16 02:54	1718-51-0	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.093	1		01/13/16 16:20	67-64-1	
Acrolein	ND	mg/kg	0.093	1		01/13/16 16:20	107-02-8	
Acrylonitrile	ND	mg/kg	0.093	1		01/13/16 16:20	107-13-1	
Benzene	ND	mg/kg	0.0047	1		01/13/16 16:20	71-43-2	
Bromobenzene	ND	mg/kg	0.0047	1		01/13/16 16:20	108-86-1	
Bromochloromethane	ND	mg/kg	0.0047	1		01/13/16 16:20	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0047	1		01/13/16 16:20	75-27-4	
Bromoform	ND	mg/kg	0.0047	1		01/13/16 16:20	75-25-2	
Bromomethane	ND	mg/kg	0.0047	1		01/13/16 16:20	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.023	1		01/13/16 16:20	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0047	1		01/13/16 16:20	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0047	1		01/13/16 16:20	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0047	1		01/13/16 16:20	98-06-6	
Carbon disulfide	ND	mg/kg	0.0093	1		01/13/16 16:20	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0047	1		01/13/16 16:20	56-23-5	
Chlorobenzene	ND	mg/kg	0.0047	1		01/13/16 16:20	108-90-7	
Chloroethane	ND	mg/kg	0.0047	1		01/13/16 16:20	75-00-3	
Chloroform	ND	mg/kg	0.0047	1		01/13/16 16:20	67-66-3	
Chloromethane	ND	mg/kg	0.0047	1		01/13/16 16:20	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0047	1		01/13/16 16:20	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0047	1		01/13/16 16:20	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0047	1		01/13/16 16:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0047	1		01/13/16 16:20	106-93-4	

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ANALYTICAL RESULTS

Project: Proposed Sonic 16IN0007
Pace Project No.: 50136269

Sample: B-2 (9-11) **Lab ID: 50136269002** Collected: 01/11/16 11:30 Received: 01/11/16 14:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Dibromomethane	ND	mg/kg	0.0047	1		01/13/16 16:20	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0047	1		01/13/16 16:20	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0047	1		01/13/16 16:20	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0047	1		01/13/16 16:20	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.093	1		01/13/16 16:20	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0047	1		01/13/16 16:20	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0047	1		01/13/16 16:20	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0047	1		01/13/16 16:20	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0047	1		01/13/16 16:20	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0047	1		01/13/16 16:20	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0047	1		01/13/16 16:20	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0047	1		01/13/16 16:20	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0047	1		01/13/16 16:20	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0047	1		01/13/16 16:20	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0047	1		01/13/16 16:20	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0047	1		01/13/16 16:20	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0047	1		01/13/16 16:20	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0047	1		01/13/16 16:20	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.093	1		01/13/16 16:20	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0047	1		01/13/16 16:20	87-68-3	
n-Hexane	ND	mg/kg	0.0047	1		01/13/16 16:20	110-54-3	
2-Hexanone	ND	mg/kg	0.093	1		01/13/16 16:20	591-78-6	
Iodomethane	ND	mg/kg	0.093	1		01/13/16 16:20	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0047	1		01/13/16 16:20	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0047	1		01/13/16 16:20	99-87-6	
Methylene Chloride	ND	mg/kg	0.019	1		01/13/16 16:20	75-09-2	
1-Methylnaphthalene	ND	mg/kg	0.0093	1		01/13/16 16:20	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0093	1		01/13/16 16:20	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.023	1		01/13/16 16:20	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0047	1		01/13/16 16:20	1634-04-4	
Naphthalene	ND	mg/kg	0.0047	1		01/13/16 16:20	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0047	1		01/13/16 16:20	103-65-1	
Styrene	ND	mg/kg	0.0047	1		01/13/16 16:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0047	1		01/13/16 16:20	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0047	1		01/13/16 16:20	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0047	1		01/13/16 16:20	127-18-4	
Toluene	ND	mg/kg	0.0047	1		01/13/16 16:20	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0047	1		01/13/16 16:20	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0047	1		01/13/16 16:20	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0047	1		01/13/16 16:20	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0047	1		01/13/16 16:20	79-00-5	
Trichloroethene	ND	mg/kg	0.0047	1		01/13/16 16:20	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0047	1		01/13/16 16:20	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0047	1		01/13/16 16:20	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0047	1		01/13/16 16:20	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0047	1		01/13/16 16:20	108-67-8	

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ANALYTICAL RESULTS

Project: Proposed Sonic 16IN0007
Pace Project No.: 50136269

Sample: B-2 (9-11) **Lab ID: 50136269002** Collected: 01/11/16 11:30 Received: 01/11/16 14:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Vinyl acetate	ND	mg/kg	0.093	1		01/13/16 16:20	108-05-4	
Vinyl chloride	ND	mg/kg	0.0047	1		01/13/16 16:20	75-01-4	
Xylene (Total)	ND	mg/kg	0.0093	1		01/13/16 16:20	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105	%.	85-118	1		01/13/16 16:20	1868-53-7	
Toluene-d8 (S)	99	%.	71-128	1		01/13/16 16:20	2037-26-5	
4-Bromofluorobenzene (S)	73	%.	56-144	1		01/13/16 16:20	460-00-4	
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**18.1**	%	0.10	1		01/12/16 14:08		

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ANALYTICAL RESULTS

Project: Proposed Sonic 16IN0007
Pace Project No.: 50136269

Sample: B-1 (10-20) **Lab ID: 50136269003** Collected: 01/11/16 11:00 Received: 01/11/16 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAHLV	Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	01/14/16 14:58	01/15/16 20:10	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	01/14/16 14:58	01/15/16 20:10	208-96-8	
Anthracene	ND	ug/L	0.10	1	01/14/16 14:58	01/15/16 20:10	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	01/14/16 14:58	01/15/16 20:10	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	01/14/16 14:58	01/15/16 20:10	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	01/14/16 14:58	01/15/16 20:10	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	01/14/16 14:58	01/15/16 20:10	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	01/14/16 14:58	01/15/16 20:10	207-08-9	
Chrysene	ND	ug/L	0.50	1	01/14/16 14:58	01/15/16 20:10	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	01/14/16 14:58	01/15/16 20:10	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	01/14/16 14:58	01/15/16 20:10	206-44-0	
Fluorene	ND	ug/L	1.0	1	01/14/16 14:58	01/15/16 20:10	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	01/14/16 14:58	01/15/16 20:10	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.0	1	01/14/16 14:58	01/15/16 20:10	90-12-0	
2-Methylnaphthalene	ND	ug/L	1.0	1	01/14/16 14:58	01/15/16 20:10	91-57-6	
Naphthalene	ND	ug/L	1.0	1	01/14/16 14:58	01/15/16 20:10	91-20-3	
Phenanthrene	ND	ug/L	1.0	1	01/14/16 14:58	01/15/16 20:10	85-01-8	
Pyrene	ND	ug/L	1.0	1	01/14/16 14:58	01/15/16 20:10	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	79	%.	21-114	1	01/14/16 14:58	01/15/16 20:10	321-60-8	
p-Terphenyl-d14 (S)	106	%.	25-131	1	01/14/16 14:58	01/15/16 20:10	1718-51-0	
8260 MSV Indiana	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		01/16/16 04:02	67-64-1	
Acrolein	ND	ug/L	50.0	1		01/16/16 04:02	107-02-8	
Acrylonitrile	ND	ug/L	100	1		01/16/16 04:02	107-13-1	
Benzene	ND	ug/L	5.0	1		01/16/16 04:02	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		01/16/16 04:02	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		01/16/16 04:02	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		01/16/16 04:02	75-27-4	
Bromoform	ND	ug/L	5.0	1		01/16/16 04:02	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/16/16 04:02	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		01/16/16 04:02	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		01/16/16 04:02	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		01/16/16 04:02	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		01/16/16 04:02	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		01/16/16 04:02	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		01/16/16 04:02	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		01/16/16 04:02	108-90-7	
Chloroethane	ND	ug/L	5.0	1		01/16/16 04:02	75-00-3	
Chloroform	ND	ug/L	5.0	1		01/16/16 04:02	67-66-3	
Chloromethane	ND	ug/L	5.0	1		01/16/16 04:02	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		01/16/16 04:02	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		01/16/16 04:02	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		01/16/16 04:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		01/16/16 04:02	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		01/16/16 04:02	74-95-3	

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ANALYTICAL RESULTS

Project: Proposed Sonic 16IN0007
Pace Project No.: 50136269

Sample: B-1 (10-20) **Lab ID: 50136269003** Collected: 01/11/16 11:00 Received: 01/11/16 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana	Analytical Method: EPA 8260							
1,2-Dichlorobenzene	ND	ug/L	5.0	1		01/16/16 04:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		01/16/16 04:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		01/16/16 04:02	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		01/16/16 04:02	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		01/16/16 04:02	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		01/16/16 04:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		01/16/16 04:02	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		01/16/16 04:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		01/16/16 04:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		01/16/16 04:02	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		01/16/16 04:02	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		01/16/16 04:02	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		01/16/16 04:02	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		01/16/16 04:02	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		01/16/16 04:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		01/16/16 04:02	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		01/16/16 04:02	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		01/16/16 04:02	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		01/16/16 04:02	87-68-3	
n-Hexane	ND	ug/L	5.0	1		01/16/16 04:02	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		01/16/16 04:02	591-78-6	
Iodomethane	ND	ug/L	10.0	1		01/16/16 04:02	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		01/16/16 04:02	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		01/16/16 04:02	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		01/16/16 04:02	75-09-2	
1-Methylnaphthalene	ND	ug/L	5.0	1		01/16/16 04:02	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	10.0	1		01/16/16 04:02	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		01/16/16 04:02	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		01/16/16 04:02	1634-04-4	
Naphthalene	ND	ug/L	1.7	1		01/16/16 04:02	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		01/16/16 04:02	103-65-1	
Styrene	ND	ug/L	5.0	1		01/16/16 04:02	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		01/16/16 04:02	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		01/16/16 04:02	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		01/16/16 04:02	127-18-4	
Toluene	ND	ug/L	5.0	1		01/16/16 04:02	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		01/16/16 04:02	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		01/16/16 04:02	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		01/16/16 04:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		01/16/16 04:02	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		01/16/16 04:02	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		01/16/16 04:02	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		01/16/16 04:02	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		01/16/16 04:02	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		01/16/16 04:02	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		01/16/16 04:02	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		01/16/16 04:02	75-01-4	

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ANALYTICAL RESULTS

Project: Proposed Sonic 16IN0007
Pace Project No.: 50136269

Sample: B-1 (10-20) **Lab ID: 50136269003** Collected: 01/11/16 11:00 Received: 01/11/16 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		01/16/16 04:02	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	95	%.	79-116	1		01/16/16 04:02	1868-53-7	
4-Bromofluorobenzene (S)	99	%.	80-114	1		01/16/16 04:02	460-00-4	
Toluene-d8 (S)	97	%.	81-110	1		01/16/16 04:02	2037-26-5	

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ANALYTICAL RESULTS

Project: Proposed Sonic 16IN0007
Pace Project No.: 50136269

Sample: B-2 (6-16) **Lab ID: 50136269004** Collected: 01/11/16 11:50 Received: 01/11/16 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAHLV	Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	01/14/16 14:58	01/15/16 20:24	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	01/14/16 14:58	01/15/16 20:24	208-96-8	
Anthracene	ND	ug/L	0.10	1	01/14/16 14:58	01/15/16 20:24	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	01/14/16 14:58	01/15/16 20:24	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	01/14/16 14:58	01/15/16 20:24	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	01/14/16 14:58	01/15/16 20:24	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	01/14/16 14:58	01/15/16 20:24	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	01/14/16 14:58	01/15/16 20:24	207-08-9	
Chrysene	ND	ug/L	0.50	1	01/14/16 14:58	01/15/16 20:24	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	01/14/16 14:58	01/15/16 20:24	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	01/14/16 14:58	01/15/16 20:24	206-44-0	
Fluorene	ND	ug/L	1.0	1	01/14/16 14:58	01/15/16 20:24	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	01/14/16 14:58	01/15/16 20:24	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.0	1	01/14/16 14:58	01/15/16 20:24	90-12-0	
2-Methylnaphthalene	ND	ug/L	1.0	1	01/14/16 14:58	01/15/16 20:24	91-57-6	
Naphthalene	ND	ug/L	1.0	1	01/14/16 14:58	01/15/16 20:24	91-20-3	
Phenanthrene	ND	ug/L	1.0	1	01/14/16 14:58	01/15/16 20:24	85-01-8	
Pyrene	ND	ug/L	1.0	1	01/14/16 14:58	01/15/16 20:24	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	73	%.	21-114	1	01/14/16 14:58	01/15/16 20:24	321-60-8	
p-Terphenyl-d14 (S)	91	%.	25-131	1	01/14/16 14:58	01/15/16 20:24	1718-51-0	
8260 MSV Indiana	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		01/16/16 04:34	67-64-1	
Acrolein	ND	ug/L	50.0	1		01/16/16 04:34	107-02-8	
Acrylonitrile	ND	ug/L	100	1		01/16/16 04:34	107-13-1	
Benzene	ND	ug/L	5.0	1		01/16/16 04:34	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		01/16/16 04:34	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		01/16/16 04:34	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		01/16/16 04:34	75-27-4	
Bromoform	ND	ug/L	5.0	1		01/16/16 04:34	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/16/16 04:34	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		01/16/16 04:34	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		01/16/16 04:34	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		01/16/16 04:34	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		01/16/16 04:34	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		01/16/16 04:34	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		01/16/16 04:34	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		01/16/16 04:34	108-90-7	
Chloroethane	ND	ug/L	5.0	1		01/16/16 04:34	75-00-3	
Chloroform	ND	ug/L	5.0	1		01/16/16 04:34	67-66-3	
Chloromethane	ND	ug/L	5.0	1		01/16/16 04:34	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		01/16/16 04:34	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		01/16/16 04:34	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		01/16/16 04:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		01/16/16 04:34	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		01/16/16 04:34	74-95-3	

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ANALYTICAL RESULTS

Project: Proposed Sonic 16IN0007
Pace Project No.: 50136269

Sample: B-2 (6-16) **Lab ID: 50136269004** Collected: 01/11/16 11:50 Received: 01/11/16 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana	Analytical Method: EPA 8260							
1,2-Dichlorobenzene	ND	ug/L	5.0	1		01/16/16 04:34	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		01/16/16 04:34	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		01/16/16 04:34	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		01/16/16 04:34	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		01/16/16 04:34	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		01/16/16 04:34	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		01/16/16 04:34	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		01/16/16 04:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		01/16/16 04:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		01/16/16 04:34	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		01/16/16 04:34	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		01/16/16 04:34	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		01/16/16 04:34	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		01/16/16 04:34	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		01/16/16 04:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		01/16/16 04:34	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		01/16/16 04:34	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		01/16/16 04:34	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		01/16/16 04:34	87-68-3	
n-Hexane	ND	ug/L	5.0	1		01/16/16 04:34	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		01/16/16 04:34	591-78-6	
Iodomethane	ND	ug/L	10.0	1		01/16/16 04:34	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		01/16/16 04:34	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		01/16/16 04:34	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		01/16/16 04:34	75-09-2	
1-Methylnaphthalene	ND	ug/L	5.0	1		01/16/16 04:34	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	10.0	1		01/16/16 04:34	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		01/16/16 04:34	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		01/16/16 04:34	1634-04-4	
Naphthalene	ND	ug/L	1.7	1		01/16/16 04:34	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		01/16/16 04:34	103-65-1	
Styrene	ND	ug/L	5.0	1		01/16/16 04:34	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		01/16/16 04:34	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		01/16/16 04:34	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		01/16/16 04:34	127-18-4	
Toluene	ND	ug/L	5.0	1		01/16/16 04:34	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		01/16/16 04:34	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		01/16/16 04:34	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		01/16/16 04:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		01/16/16 04:34	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		01/16/16 04:34	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		01/16/16 04:34	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		01/16/16 04:34	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		01/16/16 04:34	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		01/16/16 04:34	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		01/16/16 04:34	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		01/16/16 04:34	75-01-4	

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ANALYTICAL RESULTS

Project: Proposed Sonic 16IN0007
Pace Project No.: 50136269

Sample: B-2 (6-16) **Lab ID: 50136269004** Collected: 01/11/16 11:50 Received: 01/11/16 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		01/16/16 04:34	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	94	%.	79-116	1		01/16/16 04:34	1868-53-7	
4-Bromofluorobenzene (S)	100	%.	80-114	1		01/16/16 04:34	460-00-4	
Toluene-d8 (S)	99	%.	81-110	1		01/16/16 04:34	2037-26-5	

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QUALITY CONTROL DATA

Project: Proposed Sonic 16IN0007
Pace Project No.: 50136269

QC Batch: MSV/85827 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 50136269003, 50136269004

METHOD BLANK: 1460580 Matrix: Water
Associated Lab Samples: 50136269003, 50136269004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	01/16/16 03:30	
1,1,1-Trichloroethane	ug/L	ND	5.0	01/16/16 03:30	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	01/16/16 03:30	
1,1,2-Trichloroethane	ug/L	ND	5.0	01/16/16 03:30	
1,1-Dichloroethane	ug/L	ND	5.0	01/16/16 03:30	
1,1-Dichloroethene	ug/L	ND	5.0	01/16/16 03:30	
1,1-Dichloropropene	ug/L	ND	5.0	01/16/16 03:30	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	01/16/16 03:30	
1,2,3-Trichloropropane	ug/L	ND	5.0	01/16/16 03:30	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	01/16/16 03:30	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	01/16/16 03:30	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	01/16/16 03:30	
1,2-Dichlorobenzene	ug/L	ND	5.0	01/16/16 03:30	
1,2-Dichloroethane	ug/L	ND	5.0	01/16/16 03:30	
1,2-Dichloropropane	ug/L	ND	5.0	01/16/16 03:30	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	01/16/16 03:30	
1,3-Dichlorobenzene	ug/L	ND	5.0	01/16/16 03:30	
1,3-Dichloropropane	ug/L	ND	5.0	01/16/16 03:30	
1,4-Dichlorobenzene	ug/L	ND	5.0	01/16/16 03:30	
1-Methylnaphthalene	ug/L	ND	5.0	01/16/16 03:30	N2
2,2-Dichloropropane	ug/L	ND	5.0	01/16/16 03:30	
2-Butanone (MEK)	ug/L	ND	25.0	01/16/16 03:30	
2-Chlorotoluene	ug/L	ND	5.0	01/16/16 03:30	
2-Hexanone	ug/L	ND	25.0	01/16/16 03:30	
2-Methylnaphthalene	ug/L	ND	10.0	01/16/16 03:30	
4-Chlorotoluene	ug/L	ND	5.0	01/16/16 03:30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	01/16/16 03:30	
Acetone	ug/L	ND	100	01/16/16 03:30	
Acrolein	ug/L	ND	50.0	01/16/16 03:30	
Acrylonitrile	ug/L	ND	100	01/16/16 03:30	
Benzene	ug/L	ND	5.0	01/16/16 03:30	
Bromobenzene	ug/L	ND	5.0	01/16/16 03:30	
Bromochloromethane	ug/L	ND	5.0	01/16/16 03:30	
Bromodichloromethane	ug/L	ND	5.0	01/16/16 03:30	
Bromoform	ug/L	ND	5.0	01/16/16 03:30	
Bromomethane	ug/L	ND	5.0	01/16/16 03:30	
Carbon disulfide	ug/L	ND	10.0	01/16/16 03:30	
Carbon tetrachloride	ug/L	ND	5.0	01/16/16 03:30	
Chlorobenzene	ug/L	ND	5.0	01/16/16 03:30	
Chloroethane	ug/L	ND	5.0	01/16/16 03:30	
Chloroform	ug/L	ND	5.0	01/16/16 03:30	

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QUALITY CONTROL DATA

Project: Proposed Sonic 16IN0007
Pace Project No.: 50136269

METHOD BLANK: 1460580 Matrix: Water
Associated Lab Samples: 50136269003, 50136269004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloromethane	ug/L	ND	5.0	01/16/16 03:30	
cis-1,2-Dichloroethene	ug/L	ND	5.0	01/16/16 03:30	
cis-1,3-Dichloropropene	ug/L	ND	5.0	01/16/16 03:30	
Dibromochloromethane	ug/L	ND	5.0	01/16/16 03:30	
Dibromomethane	ug/L	ND	5.0	01/16/16 03:30	
Dichlorodifluoromethane	ug/L	ND	5.0	01/16/16 03:30	
Ethyl methacrylate	ug/L	ND	100	01/16/16 03:30	
Ethylbenzene	ug/L	ND	5.0	01/16/16 03:30	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	01/16/16 03:30	
Iodomethane	ug/L	ND	10.0	01/16/16 03:30	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	01/16/16 03:30	
Methyl-tert-butyl ether	ug/L	ND	4.0	01/16/16 03:30	
Methylene Chloride	ug/L	ND	5.0	01/16/16 03:30	
n-Butylbenzene	ug/L	ND	5.0	01/16/16 03:30	
n-Hexane	ug/L	ND	5.0	01/16/16 03:30	
n-Propylbenzene	ug/L	ND	5.0	01/16/16 03:30	
Naphthalene	ug/L	ND	1.7	01/16/16 03:30	
p-Isopropyltoluene	ug/L	ND	5.0	01/16/16 03:30	
sec-Butylbenzene	ug/L	ND	5.0	01/16/16 03:30	
Styrene	ug/L	ND	5.0	01/16/16 03:30	
tert-Butylbenzene	ug/L	ND	5.0	01/16/16 03:30	
Tetrachloroethene	ug/L	ND	5.0	01/16/16 03:30	
Toluene	ug/L	ND	5.0	01/16/16 03:30	
trans-1,2-Dichloroethene	ug/L	ND	5.0	01/16/16 03:30	
trans-1,3-Dichloropropene	ug/L	ND	5.0	01/16/16 03:30	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	01/16/16 03:30	
Trichloroethene	ug/L	ND	5.0	01/16/16 03:30	
Trichlorofluoromethane	ug/L	ND	5.0	01/16/16 03:30	
Vinyl acetate	ug/L	ND	50.0	01/16/16 03:30	
Vinyl chloride	ug/L	ND	2.0	01/16/16 03:30	
Xylene (Total)	ug/L	ND	10.0	01/16/16 03:30	
4-Bromofluorobenzene (S)	%.	99	80-114	01/16/16 03:30	
Dibromofluoromethane (S)	%.	96	79-116	01/16/16 03:30	
Toluene-d8 (S)	%.	101	81-110	01/16/16 03:30	

LABORATORY CONTROL SAMPLE: 1460581

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	43.6	87	71-129	
1,1,2,2-Tetrachloroethane	ug/L	50	45.3	91	66-126	
1,1-Dichloroethene	ug/L	50	45.5	91	68-127	
1,2,4-Trimethylbenzene	ug/L	50	42.0	84	69-127	
1,2-Dichloropropane	ug/L	50	45.8	92	74-121	
Benzene	ug/L	50	45.8	92	74-122	

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QUALITY CONTROL DATA

Project: Proposed Sonic 16IN0007
Pace Project No.: 50136269

LABORATORY CONTROL SAMPLE: 1460581

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlorobenzene	ug/L	50	44.1	88	78-123	
Chloroform	ug/L	50	43.4	87	78-126	
cis-1,2-Dichloroethene	ug/L	50	44.5	89	75-122	
Ethylbenzene	ug/L	50	45.6	91	66-133	
Isopropylbenzene (Cumene)	ug/L	50	46.2	92	69-124	
Methyl-tert-butyl ether	ug/L	50	42.5	85	69-122	
Naphthalene	ug/L	50	44.5	89	68-127	
Tetrachloroethene	ug/L	50	43.5	87	69-130	
Toluene	ug/L	50	42.4	85	72-122	
trans-1,2-Dichloroethene	ug/L	50	45.1	90	72-124	
Trichloroethene	ug/L	50	47.3	95	76-126	
Vinyl chloride	ug/L	50	39.2	78	59-126	
Xylene (Total)	ug/L	150	134	89	70-124	
4-Bromofluorobenzene (S)	%.			101	80-114	
Dibromofluoromethane (S)	%.			97	79-116	
Toluene-d8 (S)	%.			97	81-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1461887 1461888

Parameter	Units	50136269003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	50	50	39.6	37.0	79	74	60-138	7	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	45.8	45.1	92	90	55-128	1	20	
1,1-Dichloroethene	ug/L	ND	50	50	42.3	43.5	85	87	55-145	3	20	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	17.8	19.5	36	39	18-149	9	20	
1,2-Dichloropropane	ug/L	ND	50	50	43.6	42.7	87	85	59-130	2	20	
Benzene	ug/L	ND	50	50	39.4	39.4	79	79	62-129	0	20	
Chlorobenzene	ug/L	ND	50	50	28.5	26.7	57	53	49-136	6	20	
Chloroform	ug/L	ND	50	50	41.4	40.0	83	80	54-150	3	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	41.3	42.0	83	84	60-135	2	20	
Ethylbenzene	ug/L	ND	50	50	25.0	25.0	50	50	28-153	0	20	
Isopropylbenzene (Cumene)	ug/L	ND	50	50	20.4	19.2	41	38	18-152	6	20	
Methyl-tert-butyl ether	ug/L	ND	50	50	46.3	46.0	93	92	63-130	1	20	
Naphthalene	ug/L	ND	50	50	37.1	50.8	74	102	39-140	31	20	R1
Tetrachloroethene	ug/L	ND	50	50	25.9	25.0	52	50	33-151	3	20	
Toluene	ug/L	ND	50	50	30.7	28.7	61	57	50-132	7	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	39.8	38.5	80	77	40-153	3	20	
Trichloroethene	ug/L	ND	50	50	35.3	35.1	71	70	50-143	1	20	
Vinyl chloride	ug/L	ND	50	50	41.2	36.8	82	74	44-145	11	20	
Xylene (Total)	ug/L	ND	150	150	72.2	66.2	48	44	29-145	9	20	
4-Bromofluorobenzene (S)	%.						101	103	80-114			
Dibromofluoromethane (S)	%.						96	93	79-116			
Toluene-d8 (S)	%.						101	98	81-110			

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QUALITY CONTROL DATA

Project: Proposed Sonic 16IN0007
Pace Project No.: 50136269

QC Batch: MSV/85822
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 50136269001, 50136269002

METHOD BLANK: 1460538
Matrix: Solid
Associated Lab Samples: 50136269001, 50136269002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.0050	01/13/16 15:25	
1,1,1-Trichloroethane	mg/kg	ND	0.0050	01/13/16 15:25	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.0050	01/13/16 15:25	
1,1,2-Trichloroethane	mg/kg	ND	0.0050	01/13/16 15:25	
1,1-Dichloroethane	mg/kg	ND	0.0050	01/13/16 15:25	
1,1-Dichloroethene	mg/kg	ND	0.0050	01/13/16 15:25	
1,1-Dichloropropene	mg/kg	ND	0.0050	01/13/16 15:25	
1,2,3-Trichlorobenzene	mg/kg	ND	0.0050	01/13/16 15:25	
1,2,3-Trichloropropane	mg/kg	ND	0.0050	01/13/16 15:25	
1,2,4-Trichlorobenzene	mg/kg	ND	0.0050	01/13/16 15:25	
1,2,4-Trimethylbenzene	mg/kg	ND	0.0050	01/13/16 15:25	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.0050	01/13/16 15:25	
1,2-Dichlorobenzene	mg/kg	ND	0.0050	01/13/16 15:25	
1,2-Dichloroethane	mg/kg	ND	0.0050	01/13/16 15:25	
1,2-Dichloropropane	mg/kg	ND	0.0050	01/13/16 15:25	
1,3,5-Trimethylbenzene	mg/kg	ND	0.0050	01/13/16 15:25	
1,3-Dichlorobenzene	mg/kg	ND	0.0050	01/13/16 15:25	
1,3-Dichloropropane	mg/kg	ND	0.0050	01/13/16 15:25	
1,4-Dichlorobenzene	mg/kg	ND	0.0050	01/13/16 15:25	
1-Methylnaphthalene	mg/kg	ND	0.010	01/13/16 15:25	N2
2,2-Dichloropropane	mg/kg	ND	0.0050	01/13/16 15:25	
2-Butanone (MEK)	mg/kg	ND	0.025	01/13/16 15:25	
2-Chlorotoluene	mg/kg	ND	0.0050	01/13/16 15:25	
2-Hexanone	mg/kg	ND	0.10	01/13/16 15:25	
2-Methylnaphthalene	mg/kg	ND	0.010	01/13/16 15:25	
4-Chlorotoluene	mg/kg	ND	0.0050	01/13/16 15:25	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.025	01/13/16 15:25	
Acetone	mg/kg	ND	0.10	01/13/16 15:25	
Acrolein	mg/kg	ND	0.10	01/13/16 15:25	
Acrylonitrile	mg/kg	ND	0.10	01/13/16 15:25	
Benzene	mg/kg	ND	0.0050	01/13/16 15:25	
Bromobenzene	mg/kg	ND	0.0050	01/13/16 15:25	
Bromochloromethane	mg/kg	ND	0.0050	01/13/16 15:25	
Bromodichloromethane	mg/kg	ND	0.0050	01/13/16 15:25	
Bromoform	mg/kg	ND	0.0050	01/13/16 15:25	
Bromomethane	mg/kg	ND	0.0050	01/13/16 15:25	
Carbon disulfide	mg/kg	ND	0.010	01/13/16 15:25	
Carbon tetrachloride	mg/kg	ND	0.0050	01/13/16 15:25	
Chlorobenzene	mg/kg	ND	0.0050	01/13/16 15:25	
Chloroethane	mg/kg	ND	0.0050	01/13/16 15:25	
Chloroform	mg/kg	ND	0.0050	01/13/16 15:25	

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QUALITY CONTROL DATA

Project: Proposed Sonic 16IN0007
Pace Project No.: 50136269

METHOD BLANK: 1460538 Matrix: Solid
Associated Lab Samples: 50136269001, 50136269002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloromethane	mg/kg	ND	0.0050	01/13/16 15:25	
cis-1,2-Dichloroethene	mg/kg	ND	0.0050	01/13/16 15:25	
cis-1,3-Dichloropropene	mg/kg	ND	0.0050	01/13/16 15:25	
Dibromochloromethane	mg/kg	ND	0.0050	01/13/16 15:25	
Dibromomethane	mg/kg	ND	0.0050	01/13/16 15:25	
Dichlorodifluoromethane	mg/kg	ND	0.0050	01/13/16 15:25	
Ethyl methacrylate	mg/kg	ND	0.10	01/13/16 15:25	
Ethylbenzene	mg/kg	ND	0.0050	01/13/16 15:25	
Hexachloro-1,3-butadiene	mg/kg	ND	0.0050	01/13/16 15:25	
Iodomethane	mg/kg	ND	0.10	01/13/16 15:25	
Isopropylbenzene (Cumene)	mg/kg	ND	0.0050	01/13/16 15:25	
Methyl-tert-butyl ether	mg/kg	ND	0.0050	01/13/16 15:25	
Methylene Chloride	mg/kg	ND	0.020	01/13/16 15:25	
n-Butylbenzene	mg/kg	ND	0.0050	01/13/16 15:25	
n-Hexane	mg/kg	ND	0.0050	01/13/16 15:25	
n-Propylbenzene	mg/kg	ND	0.0050	01/13/16 15:25	
Naphthalene	mg/kg	ND	0.0050	01/13/16 15:25	
p-Isopropyltoluene	mg/kg	ND	0.0050	01/13/16 15:25	
sec-Butylbenzene	mg/kg	ND	0.0050	01/13/16 15:25	
Styrene	mg/kg	ND	0.0050	01/13/16 15:25	
tert-Butylbenzene	mg/kg	ND	0.0050	01/13/16 15:25	
Tetrachloroethene	mg/kg	ND	0.0050	01/13/16 15:25	
Toluene	mg/kg	ND	0.0050	01/13/16 15:25	
trans-1,2-Dichloroethene	mg/kg	ND	0.0050	01/13/16 15:25	
trans-1,3-Dichloropropene	mg/kg	ND	0.0050	01/13/16 15:25	
trans-1,4-Dichloro-2-butene	mg/kg	ND	0.10	01/13/16 15:25	
Trichloroethene	mg/kg	ND	0.0050	01/13/16 15:25	
Trichlorofluoromethane	mg/kg	ND	0.0050	01/13/16 15:25	
Vinyl acetate	mg/kg	ND	0.10	01/13/16 15:25	
Vinyl chloride	mg/kg	ND	0.0050	01/13/16 15:25	
Xylene (Total)	mg/kg	ND	0.010	01/13/16 15:25	
4-Bromofluorobenzene (S)	%.	84	56-144	01/13/16 15:25	
Dibromofluoromethane (S)	%.	103	85-118	01/13/16 15:25	
Toluene-d8 (S)	%.	89	71-128	01/13/16 15:25	

LABORATORY CONTROL SAMPLE: 1460539

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/kg	.05	0.052	103	70-123	
1,1,2,2-Tetrachloroethane	mg/kg	.05	0.051	102	65-124	
1,1-Dichloroethene	mg/kg	.05	0.058	116	66-126	
1,2,4-Trimethylbenzene	mg/kg	.05	0.054	108	67-126	
1,2-Dichloropropane	mg/kg	.05	0.051	101	75-118	
Benzene	mg/kg	.05	0.055	110	74-119	

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QUALITY CONTROL DATA

Project: Proposed Sonic 16IN0007
Pace Project No.: 50136269

LABORATORY CONTROL SAMPLE: 1460539

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlorobenzene	mg/kg	.05	0.049	97	77-122	
Chloroform	mg/kg	.05	0.050	100	75-124	
cis-1,2-Dichloroethene	mg/kg	.05	0.055	111	72-122	
Ethylbenzene	mg/kg	.05	0.057	113	72-123	
Isopropylbenzene (Cumene)	mg/kg	.05	0.055	109	65-123	
Methyl-tert-butyl ether	mg/kg	.05	0.055	110	68-120	
Naphthalene	mg/kg	.05	0.061	122	67-131	
Tetrachloroethene	mg/kg	.05	0.043	86	72-126	
Toluene	mg/kg	.05	0.052	103	71-121	
trans-1,2-Dichloroethene	mg/kg	.05	0.056	113	69-123	
Trichloroethene	mg/kg	.05	0.057	113	74-123	
Vinyl chloride	mg/kg	.05	0.053	107	55-128	
Xylene (Total)	mg/kg	.15	0.17	113	66-124	
4-Bromofluorobenzene (S)	%.			96	56-144	
Dibromofluoromethane (S)	%.			99	85-118	
Toluene-d8 (S)	%.			94	71-128	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1460605 1460606

Parameter	Units	50136063002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	mg/kg	ND	.042	.043	0.042	0.043	102	101	26-143	1	20	
1,1,2,2-Tetrachloroethane	mg/kg	ND	.042	.043	0.046	0.044	111	102	10-156	5	20	
1,1-Dichloroethene	mg/kg	ND	.042	.043	0.048	0.049	116	115	31-146	2	20	
1,2,4-Trimethylbenzene	mg/kg	ND	.042	.043	0.049	0.044	119	102	10-139	12	20	
1,2-Dichloropropane	mg/kg	ND	.042	.043	0.042	0.043	102	101	29-135	3	20	
Benzene	mg/kg	ND	.042	.043	0.043	0.045	105	104	27-140	3	20	
Chlorobenzene	mg/kg	ND	.042	.043	0.039	0.039	95	92	10-136	1	20	
Chloroform	mg/kg	ND	.042	.043	0.040	0.041	98	96	36-138	1	20	
cis-1,2-Dichloroethene	mg/kg	ND	.042	.043	0.045	0.047	110	110	29-136	3	20	
Ethylbenzene	mg/kg	ND	.042	.043	0.045	0.045	109	106	10-144	1	20	
Isopropylbenzene (Cumene)	mg/kg	ND	.042	.043	0.044	0.042	106	97	10-134	5	20	
Methyl-tert-butyl ether	mg/kg	ND	.042	.043	0.049	0.051	118	118	30-147	4	20	
Naphthalene	mg/kg	ND	.042	.043	0.023	0.029	56	67	10-130	21	20	R1
Tetrachloroethene	mg/kg	ND	.042	.043	0.035	0.033	84	77	10-153	6	20	
Toluene	mg/kg	ND	.042	.043	0.041	0.040	98	93	10-140	2	20	
trans-1,2-Dichloroethene	mg/kg	ND	.042	.043	0.045	0.046	109	108	28-139	3	20	
Trichloroethene	mg/kg	ND	.042	.043	0.043	0.045	105	105	17-148	3	20	
Vinyl chloride	mg/kg	ND	.042	.043	0.045	0.047	109	111	30-145	5	20	
Xylene (Total)	mg/kg	ND	.12	.13	0.13	0.13	108	102	10-143	3	20	
4-Bromofluorobenzene (S)	%.						91	90	56-144			
Dibromofluoromethane (S)	%.						97	99	85-118			
Toluene-d8 (S)	%.						100	95	71-128			

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QUALITY CONTROL DATA

Project: Proposed Sonic 16IN0007
Pace Project No.: 50136269

QC Batch: OEXT/42094
QC Batch Method: EPA 3510
Analysis Method: EPA 8270 by SIM LVE
Analysis Description: 8270 Water PAH LV by SIM MSSV
Associated Lab Samples: 50136269003, 50136269004

METHOD BLANK: 1461004 Matrix: Water
Associated Lab Samples: 50136269003, 50136269004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	ND	1.0	01/15/16 19:44	
2-Methylnaphthalene	ug/L	ND	1.0	01/15/16 19:44	
Acenaphthene	ug/L	ND	1.0	01/15/16 19:44	
Acenaphthylene	ug/L	ND	1.0	01/15/16 19:44	
Anthracene	ug/L	ND	0.10	01/15/16 19:44	
Benzo(a)anthracene	ug/L	ND	0.10	01/15/16 19:44	
Benzo(a)pyrene	ug/L	ND	0.10	01/15/16 19:44	
Benzo(b)fluoranthene	ug/L	ND	0.10	01/15/16 19:44	
Benzo(g,h,i)perylene	ug/L	ND	0.10	01/15/16 19:44	
Benzo(k)fluoranthene	ug/L	ND	0.10	01/15/16 19:44	
Chrysene	ug/L	ND	0.50	01/15/16 19:44	
Dibenz(a,h)anthracene	ug/L	ND	0.10	01/15/16 19:44	
Fluoranthene	ug/L	ND	1.0	01/15/16 19:44	
Fluorene	ug/L	ND	1.0	01/15/16 19:44	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	01/15/16 19:44	
Naphthalene	ug/L	ND	1.0	01/15/16 19:44	
Phenanthrene	ug/L	ND	1.0	01/15/16 19:44	
Pyrene	ug/L	ND	1.0	01/15/16 19:44	
2-Fluorobiphenyl (S)	%.	71	21-114	01/15/16 19:44	
p-Terphenyl-d14 (S)	%.	111	25-131	01/15/16 19:44	

LABORATORY CONTROL SAMPLE: 1461005

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	10	6.0	60	29-112	
2-Methylnaphthalene	ug/L	10	5.8	58	29-110	
Acenaphthene	ug/L	10	7.1	71	39-117	
Acenaphthylene	ug/L	10	7.5	75	40-120	
Anthracene	ug/L	10	8.4	84	48-126	
Benzo(a)anthracene	ug/L	10	9.5	95	51-134	
Benzo(a)pyrene	ug/L	10	7.6	76	48-141	
Benzo(b)fluoranthene	ug/L	10	7.0	70	49-139	
Benzo(g,h,i)perylene	ug/L	10	6.5	65	44-134	
Benzo(k)fluoranthene	ug/L	10	8.7	87	48-140	
Chrysene	ug/L	10	9.5	95	53-136	
Dibenz(a,h)anthracene	ug/L	10	6.6	66	44-132	
Fluoranthene	ug/L	10	9.1	91	50-135	
Fluorene	ug/L	10	8.3	83	44-124	
Indeno(1,2,3-cd)pyrene	ug/L	10	6.8	68	45-132	
Naphthalene	ug/L	10	6.0	60	30-112	

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QUALITY CONTROL DATA

Project: Proposed Sonic 16IN0007
Pace Project No.: 50136269

LABORATORY CONTROL SAMPLE: 1461005

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	10	8.7	87	47-128	
Pyrene	ug/L	10	10.2	102	50-134	
2-Fluorobiphenyl (S)	%.			70	21-114	
p-Terphenyl-d14 (S)	%.			108	25-131	

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QUALITY CONTROL DATA

Project: Proposed Sonic 16IN0007
Pace Project No.: 50136269

QC Batch: OEXT/42066
QC Batch Method: EPA 3546
Analysis Method: EPA 8270 by SIM
Analysis Description: 8270 MSSV PAH by SIM
Associated Lab Samples: 50136269001, 50136269002

METHOD BLANK: 1459549
Matrix: Solid
Associated Lab Samples: 50136269001, 50136269002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	mg/kg	ND	0.0050	01/12/16 18:12	N2
2-Methylnaphthalene	mg/kg	ND	0.0050	01/12/16 18:12	
Acenaphthene	mg/kg	ND	0.0050	01/12/16 18:12	
Acenaphthylene	mg/kg	ND	0.0050	01/12/16 18:12	
Anthracene	mg/kg	ND	0.0050	01/12/16 18:12	
Benzo(a)anthracene	mg/kg	ND	0.0050	01/12/16 18:12	
Benzo(a)pyrene	mg/kg	ND	0.0050	01/12/16 18:12	
Benzo(b)fluoranthene	mg/kg	ND	0.0050	01/12/16 18:12	
Benzo(g,h,i)perylene	mg/kg	ND	0.0050	01/12/16 18:12	
Benzo(k)fluoranthene	mg/kg	ND	0.0050	01/12/16 18:12	
Chrysene	mg/kg	ND	0.0050	01/12/16 18:12	
Dibenz(a,h)anthracene	mg/kg	ND	0.0050	01/12/16 18:12	
Fluoranthene	mg/kg	ND	0.0050	01/12/16 18:12	
Fluorene	mg/kg	ND	0.0050	01/12/16 18:12	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	0.0050	01/12/16 18:12	
Naphthalene	mg/kg	ND	0.0050	01/12/16 18:12	
Phenanthrene	mg/kg	ND	0.0050	01/12/16 18:12	
Pyrene	mg/kg	ND	0.0050	01/12/16 18:12	
2-Fluorobiphenyl (S)	%.	96	38-110	01/12/16 18:12	
p-Terphenyl-d14 (S)	%.	101	32-111	01/12/16 18:12	

LABORATORY CONTROL SAMPLE: 1459550

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	mg/kg	.33	0.31	93	40-102	N2
2-Methylnaphthalene	mg/kg	.33	0.32	95	39-104	
Acenaphthene	mg/kg	.33	0.34	102	43-108	
Acenaphthylene	mg/kg	.33	0.34	103	44-110	
Anthracene	mg/kg	.33	0.34	102	44-112	
Benzo(a)anthracene	mg/kg	.33	0.36	108	43-124	
Benzo(a)pyrene	mg/kg	.33	0.39	116	44-124	
Benzo(b)fluoranthene	mg/kg	.33	0.38	115	44-123	
Benzo(g,h,i)perylene	mg/kg	.33	0.37	110	44-118	
Benzo(k)fluoranthene	mg/kg	.33	0.38	113	42-122	
Chrysene	mg/kg	.33	0.36	109	44-124	
Dibenz(a,h)anthracene	mg/kg	.33	0.38	115	44-119	
Fluoranthene	mg/kg	.33	0.36	108	45-119	
Fluorene	mg/kg	.33	0.37	110	44-113	
Indeno(1,2,3-cd)pyrene	mg/kg	.33	0.38	113	44-119	
Naphthalene	mg/kg	.33	0.31	92	42-103	

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QUALITY CONTROL DATA

Project: Proposed Sonic 16IN0007
Pace Project No.: 50136269

LABORATORY CONTROL SAMPLE: 1459550

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	mg/kg	.33	0.35	104	44-113	
Pyrene	mg/kg	.33	0.36	107	45-123	
2-Fluorobiphenyl (S)	%.			85	38-110	
p-Terphenyl-d14 (S)	%.			88	32-111	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1459551 1459552

Parameter	Units	50136213001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	mg/kg	ND	.39	.39	0.34	0.36	86	91	20-116	6	20	N2
2-Methylnaphthalene	mg/kg	ND	.39	.39	0.34	0.36	85	90	10-131	6	20	
Acenaphthene	mg/kg	ND	.39	.39	0.34	0.36	85	90	25-117	6	20	
Acenaphthylene	mg/kg	ND	.39	.39	0.35	0.36	89	92	27-123	4	20	
Anthracene	mg/kg	ND	.39	.39	0.34	0.40	87	100	20-123	14	20	
Benzo(a)anthracene	mg/kg	ND	.39	.39	0.35	0.37	88	93	23-124	5	20	
Benzo(a)pyrene	mg/kg	ND	.39	.39	0.38	0.39	95	100	23-120	5	20	
Benzo(b)fluoranthene	mg/kg	ND	.39	.39	0.36	0.39	90	99	24-117	10	20	
Benzo(g,h,i)perylene	mg/kg	ND	.39	.39	0.35	0.37	88	94	12-122	6	20	
Benzo(k)fluoranthene	mg/kg	ND	.39	.39	0.39	0.39	100	100	14-123	0	20	
Chrysene	mg/kg	ND	.39	.39	0.36	0.38	93	97	22-124	4	20	
Dibenz(a,h)anthracene	mg/kg	ND	.39	.39	0.37	0.38	95	98	26-113	3	20	
Fluoranthene	mg/kg	ND	.39	.39	0.35	0.37	88	94	21-125	7	20	
Fluorene	mg/kg	ND	.39	.39	0.36	0.38	92	96	19-127	4	20	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	.39	.39	0.36	0.38	91	95	15-121	5	20	
Naphthalene	mg/kg	ND	.39	.39	0.33	0.34	85	87	15-125	3	20	
Phenanthrene	mg/kg	ND	.39	.39	0.34	0.36	87	92	10-139	6	20	
Pyrene	mg/kg	ND	.39	.39	0.35	0.37	89	94	17-132	6	20	
2-Fluorobiphenyl (S)	%.						77	81	38-110			
p-Terphenyl-d14 (S)	%.						74	81	32-111			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Proposed Sonic 16IN0007
Pace Project No.: 50136269

QC Batch: PMST/11546
QC Batch Method: SM 2540G
Analysis Method: SM 2540G
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 50136269001, 50136269002

SAMPLE DUPLICATE: 1459832

Parameter	Units	50136063002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	8.7	9.1	5	5	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: Proposed Sonic 16IN0007
Pace Project No.: 50136269

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

N2	The lab does not hold TNI accreditation for this parameter.
R1	RPD value was outside control limits.

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METHOD CROSS REFERENCE TABLE

Project: Proposed Sonic 16IN0007
Pace Project No.: 50136269

Parameter	Matrix	Analytical Method	Preparation Method
8260 MSV 5035A VOA	Solid	SW-846 8260C	SW-846 5035A
8270 MSSV PAH by SIM	Solid	SW-846 8270C	SW-846 3546
8270 MSSV PAHLV	Water	SW-846 8270C	SW-846 3510C

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Proposed Sonic 16IN0007
Pace Project No.: 50136269

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50136269003	**B-1 (10-20)**	EPA 3510	OEXT/42094	EPA 8270 by SIM LVE	MSSV/20015
50136269004	**B-2 (6-16)**	EPA 3510	OEXT/42094	EPA 8270 by SIM LVE	MSSV/20015
50136269001	**B-1 (10-12)**	EPA 3546	OEXT/42066	EPA 8270 by SIM	MSSV/19991
50136269002	**B-2 (9-11)**	EPA 3546	OEXT/42066	EPA 8270 by SIM	MSSV/19991
50136269003	**B-1 (10-20)**	EPA 8260	MSV/85827		
50136269004	**B-2 (6-16)**	EPA 8260	MSV/85827		
50136269001	**B-1 (10-12)**	EPA 8260	MSV/85822		
50136269002	**B-2 (9-11)**	EPA 8260	MSV/85822		
50136269001	**B-1 (10-12)**	SM 2540G	PMST/11546		
50136269002	**B-2 (9-11)**	SM 2540G	PMST/11546		

Pace Analytical™
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

7726 Moller Road, Indianapolis, IN 46268

Page:

Required Client Information: **Section A**	Required Client Information: **Section B**	**Client Information (Check quote/contract):**	To Be Completed by Pace Analytical Client: **Section C**
Company: Alt & Witzig Consulting Services	Report To: dherring@altwitzig.com	Requested Due Date:	Quote Reference:
Address: 4105 West 99th Street	Copy To:	*TAT: Normal	Project Manager:
Carmel, Indiana 46032	Invoice To: dherring@altwitzig.com	* Turn around times less than 14 days subject	Project #:
Phone: 317-875-7000 Fax: 317-876-3705	P.O. 16IN0007	laboratory and contractual obligations and may	Profile #:
	Project Name: Proposed Sonic	in a Rush Turnaround Surcharge.	
	Project Number: 16IN0007	Turn Around Time (TAT) in calender days.	

Required Client Information: **Section D**

SAMPLE ID (One character per box.)

Valid Matrix Codes

Matrix	Code
Water	WT
Soil	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

ITEM NUMBER	SAMPLE ID	MATRIX CODE	DATE COLLECTED	TIME COLLECTED	# Containers	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Requested Analysis: VOCs 8260	PAHs 8270	REMARKS / Lab ID
1	B-1 (10-12)	SL	1/11/16	1045	5	2						1	X	X	001
2	B-2 (9-11)	SL	1/11/16	1130	5	2						1	X	X	002
3															
4	B-1 (10-20)	WT	1/11/16	1100	5	2			3				X	X	003
5	B-2 (6-16)	WT	1/11/16	1150	5	2			3				X	X	004
6															
7															
8															
9															
10															
11															
12															

5013626e9

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS	ITEM #	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
					Bill / A+W	1/11/16	1225	Alaina Jones	1/11/16	2225

SAMPLE CONDITION:

Temp in C	1.9
Received on Ice	(Y) / N
Sealed Cooler	Y / (N)
Sample Intact	(Y) / N

SAMPLE NOTES:

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Bill Rutherford

SIGNATURE of SAMPLER: Bill Rutherford

DATE Signed: 1/11/16

[redacted] Sample Condition Upon Receipt

Pace Analytical Client Name: AH + Wittig Project # 60136269

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

Tracking #:

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

Date/Time 5035A kits placed in freezer:

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

Thermometer 1 2 3 4 5 6 A B C D E F Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature (Initial/Corrected) 1.9°C/1.9°C Ice Visible in Sample Containers: ☐ yes ☑ no

Temp should be above freezing to 6°C

Comments: Date and initials of person examining contents: AT 1/11/16

Are samples from West Virginia? Document any containers out of temp.	☐Yes ☑No	1.
Chain of Custody Present:	☑Yes ☐No ☐N/A	2.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	3.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	4.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Containers Intact:	☑Yes ☐No ☐N/A	8.
Sample Labels match COC: -Includes date/time/ID/Analysis	☐Yes ☑No ☐N/A	9. No time or date on samples
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, TOC, O&G All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.	☐Yes ☐No ☑N/A	10 (Circle) HNO3 H2SO4 NaOH NaOH/ZnAc
Residual Chlorine Check (SVOC 625 Pest/PCB 608)		11. Present Absent
Residual Chlorine Check (Total/Amenable/Free Cyanide)		12. Present Absent
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	13
Headspace Wisconsin Sulfide	☐Yes ☐No	14
Trip Blank Present:	☐Yes ☑No ☐N/A	15
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Project Manager Review		
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	15.
Sufficient Volume:	☑Yes ☐No ☐N/A	16.
Correct Containers Used:	☑Yes ☐No ☐N/A	17.

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

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: Regina M Bradt Date: 1/11/16

Form F-IN-Q-290-rev.09, 13Oct2015

Sample Container Count

CLIENT: Att & Witzig

COC PAGE 1 of 1

COC ID# _____

Project # 501362269

Sample Line Item	DG9H	AG1U	WGFU	AG0U	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	BP3C	BP1U	SP5T	AG2U	pH <2	pH >9	pH>12
1			1		4															
2			1		4															
3																				
4	3			2																
5	3			2																
6																				
7																				
8																				
9																				
10																				
11																				
12																				

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber glass	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved **amber** vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	SP5T	120mL Coliform Na Thiosulfate
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber glass	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber glass	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved **clear** vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear glass	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag