



March 21, 2023

Mr. Alex Crowley
Director
Economic and Sustainable Development Department
City of Bloomington
401 N Morton Street, Suite 150
Bloomington IN 47404

RE: Phase II Environmental Site Assessment
IU Health Bloomington Hospital (Parcels
C & D)
608 W. Wylie Street
Bloomington, IN 47403
BCA Project # 22-227

Dear Mr. Crowley:

Please find enclosed for your review an electronic copy (PDF) of the Phase II Environmental Site Assessment report for the referenced property that we completed for the City of Bloomington and Bloomington Redevelopment Commission under the City's EPA Brownfield Assessment Grant (Cooperative Agreement # BF-00E03051).

Should you have any questions regarding the findings of this report, or should you need additional information, please do not hesitate to contact me at (317) 578-4233.

Sincerely,

A handwritten signature in black ink, appearing to read "Leonard D. Hinrichs II". The signature is fluid and cursive, with a prominent initial "L" and "H".

Leonard D. Hinrichs II, LPG
Project Manager

PHASE II ENVIRONMENTAL SITE ASSESSMENT

**IU Health (Parcels C & D)
608 W. Wylie St.
Bloomington, IN 47403**

March 21, 2023

BCA Project No. 22-227



www.BCAconsultants.com

Goshen (574) 522-1019 • Indianapolis (317) 578-4233 • Louisville (502) 890-7702



PHASE II ENVIRONMENTAL SITE ASSESSMENT

**IU Health (Parcels C & D)
608 W. Wylie St.
Bloomington, IN 47403
(Master Plan Blocks 8-9-10)**

March 21, 2023

BCA Project No. 22-227

**Prepared For:
City of Bloomington Redevelopment Commission
Cooperative Agreement No. BF-00E03051**

**Respectfully Submitted by:
BCA Environmental Consultants, LLC**

**Lillian Routt
Field Scientist**

**Leonard D. Hinrichs II, LPG
Project Manager**

**John W. Kilmer, CHMM
VP Technical Services**

www.BCAconsultants.com

TABLE of CONTENTS

List of Abbreviations	ii
1.0 INTRODUCTION	1
2.0 METHODOLOGY	3
2.1 Sampling and Analysis Plan and Health and Safety Plan	3
2.2 Geophysical Survey	3
2.3 Soil Sampling	3
2.4 Drilling Methods	5
2.5 Soil Vapor Screening	5
2.6 Groundwater Sampling	6
3.0 RESULTS	7
3.1 Physical Setting/Subsurface Conditions.....	7
3.2 Laboratory Analysis of Samples.....	9
3.3 Soil Results	10
4.0 DISCUSSION and CONCLUSIONS	13
5.0 RECOMMENDATIONS	15
6.0 REFERENCES	16

Figures

1. Site Location Map
2. Monroe County GIS Aerial
3. Site Map and Boring Locations
4. Soil Analytical Results

Tables

1. Soil Analytical Results – VOCs
2. Soil Analytical Results – PAHs
3. Soil Analytical Results – Metals

Appendices

- A. Sampling and Analysis Plan & Health and Safety Plan
- B. Soil Boring Logs
- C. GPS Coordinate Data
- D. Analytical Laboratory Reports

List of Abbreviations

BCA	BCA Environmental Consultants, LLC
bgs	Below Ground Surface
CAC	Also, CA&C - Coal Ash & Cinders
CrVI	Hexavalent chromium
CVOCs	Chlorinated Volatile Organic Compounds
EM	Electromagnetic
EPA	United States Environmental Protection Agency
ESA	Environmental Site Assessment
GPM	Gallons per Minute
GPR	Ground Penetrating Radar
GPS	Global Positioning System
GW	Groundwater
HASP	Health and Safety Plan
HDPE	High Density Polyethylene
IDEM	Indiana Department of Environmental Management
LCS	Laboratory Control Standard
mg/kg	milligrams per kilogram
MS/MSD	Matrix Spike/Matrix Spike Duplicate
PAHs	Polycyclic Aromatic Hydrocarbons
PCBs	Polychlorinated biphenyl
PID	Photo-Ionization Detector
QA/QC	Quality Assurance/Quality Control
QAPP	Quality Assurance Project Plan
R2	Risk-based Closure Guide (RbCG)
EHHL	Excavation Human Health Level (Soil)
CHHL	Commercial/Industrial Human Health Level (Soil)
RHHL	Residential Human Health Level (Soil)
RGHHL	Residential Groundwater Human Health Level (Groundwater)
VEHHL	Vapor Exposure Human Health Levels (Soil Gas, Indoor Air)
RCRA	Resource Conservation and Recovery Act
RECs	Recognized Environmental Conditions
RPD	Relative Percent Difference
RoW	Right of Way
SAP	Sampling and Analysis Plan
HHLs	Human Health Levels
SOP	Standard Operating Procedures
SVOCs	Semi-Volatile Organic Compounds
ug/kg	micrograms per kilogram
ug/L	micrograms per Liter
USCS	Unified Soil Classification System
USTs	Underground Storage Tanks
VFC	IDEM Virtual File Cabinet
VOCs	Volatile Organic Compounds
WHPA	Well Head Protection Area

1.0 INTRODUCTION

BCA Environmental Consultants, LLC (BCA) was requested by the City of Bloomington Redevelopment Commission to perform a Phase II Environmental Site Assessment (ESA) of the IU Health (Parcels C & D) site located at 608 W. Wylie Street, Bloomington, IN 47403 (Subject Site) (Figures 1 & 2). The Subject Site also includes two (2) other legal addresses: 717 W. 1st Street and 727 W. 1st Street. This report is prepared for the City of Bloomington Redevelopment Commission through a U.S. EPA Brownfield Assessment Grant to the City of Bloomington (Cooperative Agreement No. BF-00E03051). The following report presents the information obtained during the investigation and provides conclusions and recommendations based on the information.

The Subject Site consists of three (3) parcels (#'s 53-08-05-100-014.000-009, 53-08-05-100-028.000-009, and 53-08-05-402-115.000-009) totaling 6.15 acres of land situated on the southwest corner of the intersection of S. Rogers and W. 1st Streets. The area is predominately mixed-used commercial and residential in nature. The property is currently owned by the City of Bloomington Redevelopment Commission.

A Phase I Environmental Site Assessment of the Subject Site (dated 05/13/2022) was conducted by BCA Environmental Consultants. The Phase I ESA identified the following recognized environmental conditions (RECs):

- IU Health (Parcels C & D) (Subject Site), 608 W. Wylie St.
The Subject Site was historically residential until between 1965 and 1977 when it was developed as commercial/medical offices including a power generation facility for the former Bloomington Hospital (north of the Subject Site). This operation included three (3) 20,000-gallon diesel USTs to fuel the boilers. One (1) 500-gallon diesel fuel UST was also observed on the Subject Site behind (south of) the Olcott Center at 619 W. 1st Street. In addition, a former ambulance maintenance/service facility was historically located directly east of the power generation facility. The types and amounts of chemicals historically used in the maintenance/service of vehicles is unknown.

The possible historical release of chemicals associated with the former ambulance service facility, as well as the unknown status of the diesel USTs on the Subject Site is an environmental concern.

- IU Health Bloomington Hospital (Parcel A), 601 W. 2nd Street
This property, adjacent to the north of the Subject Site across W. 1st Street, operated as a hospital since at least 1967 and was a large quantity generator

(LQG) of hazardous medical waste. A 1992 VFC document ([22512698](#)), indicates that numerous USTs were present on the property. Given that many hospitals utilize back-up generators and heat sources supplied by fuel in USTs, it is possible that some USTs could remain on the property. An NFA determination was made by IDEM in 1996 for a LUST incident on the property, but no letter could be located in the public file regarding this determination.

The potential presence of the petroleum USTs on this adjacent site is an environmental concern. Note: the IU Bloomington Hospital site was undergoing demolition during the performance of the Phase I.

Given the nature of past operations at the Subject Site, a Phase II ESA is necessary to support its redevelopment and sale as a commercial property. Assessment activities will help facilitate the safe redevelopment of the Subject Site and/or surrounding properties. The purpose of the Phase II ESA is to investigate environmental concerns identified in the Phase I ESA to determine the presence or absence of impact on the Subject Site. The scope of work is not sufficient to determine the extent and magnitude of contamination if it were present.

2.0 METHODOLOGY

The investigation procedures will follow BCA's approved Bloomington Quality Assurance Project Plan and Field Standard Operating Procedures (QAPP and Field SOP) and those recommended by the IDEM 2022 Risk-Based Closure Guide (R2), regulations and industry-accepted practices. Investigation results will be compared to R2 Soil Direct Contact Levels and Residential Groundwater Levels from the R2 Table 1: 2022 IDEM OLQ Human Health Levels.

2.1 Sampling and Analysis Plan and Health and Safety Plan

A site-specific SAP and HASP were prepared for the site prior to Phase II site activities and were approved by the EPA Region V Brownfield Program. Unless otherwise noted, the plan and procedures followed the SAP. A copy of the SAP and HASP is provided in Appendix A.

2.2 Geophysical Survey

A limited geophysical survey was conducted for BCA by American Locating Service, LLC at the Subject Site on January 31, 2023, prior to commencing drilling activities, to identify the locations of any unknown and buried utilities. The survey included GPR scans of the area around the proposed borings to identify any potential buried utility or other subsurface anomaly. All detected utilities and all linear anomalies were marked with marking paint as possible utility locations.

2.3 Soil Sampling

The subsurface investigation was conducted February 1-2, 2023 for the purpose of determining subsurface environmental conditions on the property. The locations of the borings were selected based on accessible areas as most likely to be impacted by the identified RECs. For specific information about the locations of the borings, see the SAP in Appendix A.

Boring and sample logs from other subsurface investigations at nearby sites in Bloomington indicated bedrock had been encountered at depths ranging from 6 to 25 feet below ground surface (bgs), sometimes with a thin saturated layer above the bedrock. A total of 13 probes were driven throughout the Subject Site. Nine (9) probes (SP-1 through SP-9) were advanced to refusal, 5 feet past first groundwater, or 25 feet bgs, whichever was shallower, and were sampled for soil and groundwater. Four (4) probes (SP-10 through SP-13) were advanced 5 feet bgs and was sampled for soil only. The probes were placed on the site as indicated on the attached site map (Figure 3) with adjustments

based on site conditions, utility locations, and observations made by BCA personnel upon arrival at the site.

Soil and Groundwater Probes

- Probes SP-1, SP-3, SP-6, and SP-8 were placed along the northern boundary of the Subject Site to evaluate potential impacts to soil and groundwater from the upgradient former main hospital complex and possible USTs to the north.
- Probe SP-2 was placed at a former diesel UST pit on the Subject Site south of 619 W. 1st Street to evaluate potential historical impacts to soil and groundwater from a former UST.
- Probes SP-4 and SP-5 were placed near the down-gradient edge of the diesel fuel USTs at the former power generation facility on the Subject Site to evaluate potential petroleum impacts to soil and groundwater.
- Probe SP-7 was placed downgradient of the former ambulance maintenance facility on the Subject Site to evaluate potential impacts to soil and groundwater from vehicle maintenance chemicals and petroleum products.
- Probe SP-9 was placed downgradient of the emergency generator and fuel AST on the Subject Site south of 714 S. Rogers Street to evaluate potential impacts to soil and groundwater from the use and storage of petroleum products.

Soil Only Probes

- Probes SP-10, SP-11, SP-12, and SP-13 were placed across the central portion of the Subject Site. Although not identified as a REC in the Phase I ESA, these shallow probes were installed and sampled for soil only to help assess the presence and distribution of urban fill materials throughout the Subject Site potentially used to level the property since it is located on a significant slope.

Note: all soil and groundwater probes were assessed for the presence of fill materials during drilling.

Soil samples were collected continuously throughout the depth of each of the probes. For each of the probes, one (1) shallow soil sample (generally 1 to 2 feet bgs) was analyzed for PAHs and metals. For each of the soil and groundwater probes, one (1) soil sample was collected and analyzed for VOCs. For probes SP-1, SP-3, SP-6, SP-7, SP-8, and SP-9, the VOC sample was collected from the bottom of each probe (point of refusal) or 25' bgs, whichever was encountered first. For probes SP-2, SP-4 and SP-5 (all near former or existing USTs), the VOC sample was collected from the interval closest to the

bottom of the UST. In addition, for probe SP-4, a second VOC sample was collected from the bottom of the probe at 16' bgs. Soil samples were field screened as described below.

Deeper soil samples (2-4, 4-6, 6-8 feet bgs etc.) from each probe were also collected and retained for potential follow-up analysis for PAHs and metals. For this project, two (2) deeper soil samples from SP-8 were analyzed for lead to determine the depth of impact and whether contaminants are migrating from shallow soils. In addition, the four (4) sample locations with the highest total chromium concentrations were analyzed for CrVI by EPA Method 7196 at or near the same depth interval.

Based on the initial scope of the project, it was intended that groundwater would be sampled from each of the groundwater probes (SP-1 through SP-9) where a measurable amount of groundwater was encountered, using temporary 1" PVC sampling points with 5' of screen and micro-purge (low-flow) sampling techniques. However, after waiting for 24 hours after the groundwater probes were installed, none of the groundwater sampling points yielded a sufficient quantity of water, so no groundwater samples were collected during the field investigation.

2.4 Drilling Methods

The soil probes were advanced by SeraTech of South Bend, Indiana using a track-mounted Geoprobe direct-push probe system. The soil probes were installed in five (5)-ft. long sections using a 2.5-inch diameter hollow steel sampling rod that contained a clear acetate liner. The rods were pushed into the soil or driven with a hydraulic hammer, advancing the disposable acetate liner through the substratum, allowing the collection of continuous, relatively undisturbed soil cores, minimizing cross-contamination between both stratigraphic horizons and probe locations. The liners containing the soil cores were extracted from the sample rods and were split in the field and sampled by BCA via the screening process described below. The soil was then logged in accordance with the United Soil Classification System (USCS). Specific soil descriptions, screening results and corresponding depths are included on the boring logs in Appendix B.

Boring locations were recorded by means of a Trimble Nomad 900G sub-3-meter GPS and a GPS coordinate data table is presented in Appendix C.

2.5 Soil Vapor Screening

Soil cores collected from the acetate liners via the direct-push probing rig were field screened for organic vapors via headspace analysis (i.e., vapor screening). The acetate liners were split open and immediately scanned with a RAE Systems MiniRAE 3000 PID equipped with a 10.6eV bulb calibrated on 100 ppm isobutylene span gas. A

representative soil type or the soil horizon with the highest PID reading was collected by means of U.S EPA SW-846 Method 5035a and was submitted to a laboratory for VOC analysis.

2.6 Groundwater Sampling

Due to the lack of groundwater present in any of the temporary probes (SP-1 through SP-9) after 24 hours, no groundwater samples were collected during the field investigation.

3.0 RESULTS

Soil descriptions and the results of field screening are presented on boring logs in Appendix B. The analytical laboratory reports and chain-of-custody forms are presented in Appendix D, and laboratory results are summarized in Section 3.3 below and in Tables 1 – 3.

3.1 Physical Setting/Subsurface Conditions

As estimated from the U.S. Geologic Survey 7.5 Minute Series Topographic Quadrangle Map for Bloomington, Indiana (1966; photo revised 1990; C.I. = 10 feet), the elevation of the site varies between approximately 760 to 810 feet above mean sea level, relative to the North American Vertical Datum of 1929. The Subject Site is situated on a crest and ridge line with sloping terrain that declines in elevation towards the east, south, and west. Surface drainage in the area of the Subject Site east of Fairview Street is generally to the east-southeast toward a Clear Creek tributary located 0.23 miles east of the Subject Site. Surface drainage in the area of the Subject Site west of Fairview St. is generally to the west-southwest toward a Clear Creek tributary located 0.17 miles southwest of the Subject Site. However, surface drainage at the Subject Site is also influenced somewhat by the adjacent streets and municipal storm water system.

3.1.1 Soils

The soil under the Subject Site is mapped as belonging to two (2) soil types (Web Soil Survey, 2023):

- Crider-Urban Land Complex (CtC) – 6 to 12 percent slopes, covering 42% of the Subject Site. Crider-Urban Land Complex soils consist of well drained gently sloping soils situated on hills, formed from loess over clayey residuum.
- Crider-Urband Land Complex (CtB) – 2 to 6 percent slopes, covering 58% of the Subject Site. Crider-Urban Land Complex soils consist of well drained gently to moderately sloping soils situated on hills, formed from loess over clayey residuum.

3.1.2 Surficial Geology

The area of the Subject Site is underlain by approximately 5 to 25 feet of unconsolidated deposits that lie on Mississippian age bedrock (Fenelon, et al, 1994). Total thickness of unconsolidated deposits overlying bedrock in Monroe County is commonly reported as 6

to 25 feet. The unconsolidated sediments consist of Terra Rossa – red, clayey regolith, 5 to 50 feet thick, over limestone of Middle Mississippian age.

3.1.3 Bedrock Geology

The Subject Site and surrounding area lie within the Mitchell Plateau physiographic unit within the Southern Hills and Lowlands regional physiographic province (Gray, 2000). The Mitchell Plateau is bounded by the older rocks of Norman Upland on the east and the younger rocks of the Crawford Upland to the west. The Mitchell Plateau (also referred to as the Mitchell Plain) is a karst area in Indiana of relatively low relief. An extensive underlying cave system developed in Mississippian age limestone bedrock. Surface drainage is rare due to most streams in the area disappearing into caves or joints within the rock.

Bedrock at the site is reported to be the Mississippian-aged Sanders Group (that includes the Harrodsburg and Salem Limestones). The Sanders Group consists of a variety of carbonate rocks in complex facies relationships. The Ramp Creek and Muldraugh Formations at the base of the group are dominantly a mixture of fine-grained dolomite and limestone. Cherty and siliceous intervals are common, and minor amounts of siltstone and shale are present. Above that interval in the Harrodsburg Limestone, well-cemented bioclastic calcarenites and calcirudites are dominant over argillaceous limestone, dolosiltites, and shale. The abundance of geodes and chert decreases upward in the group. The Salem Limestone except for the Somerset Shale Member at its base is dominated by porous calcarenite, although it contains a wide variety of other kinds of limestone.

3.1.4 Hydrology

Surface Water

The Subject Site lies within the East Fork White River basin, which has a total drainage area of 5,746 square miles in south-central Indiana. In general, drainage of the Mitchell Plain (including the Subject Site) in Monroe County is considerably different from the rest of the basin; most runoff quickly leaves the surface by entering sinkholes and becoming part of the groundwater system. In the streams that do flow across the Mitchell Plain, some surface water is intercepted by swallow holes and diverted underground into either the groundwater system or subterranean channels. Surface water drainage in the area of the Subject Site east of Fairview St. is generally to the east-southeast toward a Clear Creek tributary located 0.23 miles east of the Subject Site. Surface drainage in the area of the Subject Site west of Fairview St. is generally to the west-southwest toward a Clear Creek tributary located 0.17 miles southwest of the Subject Site.

Unconsolidated Aquifer System

The Subject Site lies in the Dissected Till and Residuum / Unglaciaded Southern Hills and Lowlands Aquifer System. Total thickness of unconsolidated deposits overlying bedrock is commonly 6 to 25 feet. Clay material dominates this unconsolidated aquifer system; however, discontinuous sand or gravel deposits are reported. These deposits are commonly 1 to 3 feet thick. Because of low permeability of surface materials, this system is not considered very susceptible to contamination from surface sources.

Bedrock Aquifer System

The Blue River and Sanders Groups occur as the uppermost bedrock aquifer system over most of the west-central portion of Monroe County. Depth to bedrock is generally between 5 and 30 feet. The Blue River and Sanders Groups Aquifer System is not regarded as a major ground-water resource in the county. Static water levels range from 0 feet to 197 feet below land surface but generally between 15 and 75 feet below surface. Areas of shallow bedrock, especially where joints, fractures, and solution features are present, may allow contamination. These conditions warrant considering the aquifer system as a whole to be susceptible to contaminants introduced at and near land surface.

A report pertaining to the nearby Indiana Gas Company site 0.4 miles to the north-northeast suggests the groundwater flow direction is to the southeast (VFC Document # [47437557](#)). Based on environmental reports for the Josephine Brown Trust Property 0.45 miles northeast of the Subject Site, local groundwater flow around the Subject Site is to the south to southeast (VFC Document # [14582194](#)). Regional groundwater flow of the area is predominately to the south in general conformance with surface topography/drainage and the regional attitude of underlying bedrock.

3.1.5 Subject Site Physical Observations

Based on the probes advanced on the Subject Site, the soils are mostly clay. Bedrock was encountered in the onsite subsurface probes at depths from 6' to 24.5' bgs, and at three (3) locations was deeper than 25' bgs. No groundwater was encountered in the temporary groundwater sample points.

3.2 Laboratory Analysis of Samples

All collected samples were analyzed by Pace Laboratories of Indianapolis, Indiana. All samples were stored on ice and/or refrigerated until couriered to the lab. All soil VOC samples were stored on ice immediately after collection and frozen within 24 hours of sampling. Analytical laboratory reports and chain-of-custody documents are included in Appendix D.

Not including QA/QC samples, a total of 10 soil samples were analyzed for VOCs by EPA Method 8260, 17 soil samples for PAHs by EPA Method 8270SIM, and 17 soil samples for 14 Metals by EPA Method 6010, 6020, and 7471. Follow-up samples included a total of two (2) soil samples analyzed for lead by EPA Method 6010, and four (4) soil samples analyzed for CrVI by EPA Method 7196.

QA/QC samples included both field and laboratory samples. Soil field QA/QC samples included duplicates and MS/MSD. Laboratory QA/QC included method blanks, LCS, and internal surrogate standards. For results of QA/QC sampling and analysis see “Data Assessment” in Sections 3.3 below.

3.3 Soil Results

Analytical laboratory reports are included in Appendix D and the soil sample analytical results are summarized in Tables 1 – 3 and on Figure 4. Detected analytical concentrations were compared to IDEM’s R2 residential, commercial, and excavation soil human health levels (Risk-based Closure Guide, Published Table 1: 2022 IDEM OLQ Human Health Levels).

VOCs:

At least one (1) soil sample from each of the nine (9) soil and groundwater probes was collected and analyzed for full range VOCs by EPA Method 8260.

All analyzed VOCs were either below the R2 HHLs or were not detected.

PAHs:

One (1) or two (2) soil samples from each of the 13 probes (18 total) were collected and analyzed for PAHs by EPA Method 8270 SIM.

All analyzed PAHs were either below the R2 HHLs or were not detected.

Naphthalene exceeded the (no-longer current) RCG MTGW (0.079 mg/kg) in the sample from SP-10 (0-2’) (0.27 mg/kg).

Metals:

One (1) or two (2) soil samples from each of the 13 probes (18 total) were analyzed for 14 metals by EPA Methods 6010, 6020, 7471, and 7196.

Arsenic exceeded the R2 Residential HHL (10 mg/kg) in the samples from:
SP-4 (8-10’) (12.9 mg/kg)

SP-8 (4-5') (12.7 mg/kg)

SP-9 (0-2') (13.5 mg/kg)

Lead exceed the R2 Residential HHL (400 mg/kg) in the sample from:

SP-8 (4-5') (734 mg/kg)

No other metals were detected above the R2 HHLs in any of the soil samples.

CrVI:

Based on the results of the initial metals analytical results, the soil samples with the four (4) highest total chromium results were analyzed for CrVI by EPA Method 7196.

No CrVI was detected in any of the analyzed samples.

Data Assessment:

QA/QC samples collected during the soil sampling included trip blank, field duplicate and MS/MSD samples. No field equipment blank was collected since only single-use disposable supplies contacted the soil samples. The field duplicate and MS/MSD samples were analyzed for VOCs by EPA Method 8260, PAHs by EPA Method 8270SIM, and metals by EPA Methods 6010 and 7471. The trip blank was analyzed for VOCs only. Trace levels of four VOC analytes were reported in the trip blank but all were far below the HHLs and the (no longer current) 2022 RCG SLs.

For all but one (1) VOC, and nine (9) metals, both the sample and duplicate values were below the detection limit, equating to zero percent (0%) relative percent difference (RPD). For soil field duplicates with detections, the RPD ranged from 6% for VOCs and 4% to 45% for metals. Of the duplicate detections, six (6) metals detections were greater than five times the reporting limit (>5 x RL). However, none of these six (6) detections had a field duplicate RPD greater than the notice limit of 50% for soil. Thus, RPD data were below the notice limit for 100% of the field duplicate analytes >5 x RL which meets the EPA DQO minimum of 75%. Therefore, good homogeneity in the soil samples was observed.

The MS/MSD sample results were almost all within control limits for metals and VOCs. PAHs were within control limits for a batch sample but were mostly out of control limits for a site-specific sample due to low recovery and sample non-homogeneity common in soil samples. Where outside control limits parameters were confirmed by other QA/QC measures or were for analytes that were not detected or were far below the screening levels. PAHs in the soil were far below HHLs. Laboratory QA/QC samples (method blanks, LCS and surrogate spikes) were within control limits or confirmed by other QA/QC

measures. The percent moisture for the follow-up metals analyses was analyzed out of holding time, which introduces a potential for a percent error in each of those samples. However, all were far below the HHLs, so the uncertainty does not impact the results.

A Level III QA/QC data package is included with the lab report in Appendix D.

4.0 DISCUSSION and CONCLUSIONS

Discussion

Soil sampling for this Phase II ESA was conducted on February 1, 2023, for the purpose of determining subsurface conditions throughout the Subject Site. The subsurface investigation included advancing nine (9) soil and groundwater probes, and four (4) soil only probes on the Subject Site. Soil samples were collected from each boring location. Soil samples were analyzed for VOCs, PAHs, 14 Metals, and CrVI.

No analytes exceeded IDEM R2 HHLs except those discussed below.

Soil Metals

Arsenic exceeded the R2 Residential HHL in the samples from SP-4 (8-10'), SP-8 (4-5'), and SP-9 (0-2'). However, the average of all shallow soil samples and the average of all soil samples (both shallow and deeper) collected during the investigation were both well below the R2 residential HHL (10 mg/kg). Levels of arsenic up to 9.5 mg/kg (or more) are commonly due to background (USGS 1984), while higher concentrations detected may be due to urban fill or historical activities. A background study by BCA for the City of Bloomington (BCA 2020) showed that 95% upper confidence limit (UCL) is 9.4 mg/kg and the background threshold value (90 percentile) is 11.5 mg/kg.

Lead exceeded the R2 Residential HHL in the sample from SP-8 (4-5'). Lead concentrations in soil samples from intervals above and below the 4-5' interval at SP-8 were far below the R2 residential HHL.

PAHs

Naphthalene exceeded the (no longer current) 2022 RCG MTGW in the sample from SP-10 (0-2'), however, the average of all soil samples is below. This exceedance does not impact closure or potential clean-up, but may impact the characterization of the soil as solid waste if it is excavated.

Conclusions:

Based on the discussions above, BCA draws the following conclusions:

Soil on the Subject Site does not appear to be significantly impacted by the historic use of the Subject Site as an industrial/commercial property. Other than an exceedance of lead observed from SP-8 (4-5'), no analytes besides arsenic were found to exceed the R2 HHLs in any samples. One sample at SP-10 (0-2') exceeded the (no longer current) 2022 RCG MTGW for naphthalene that might impact waste characterization.

Groundwater was not encountered in any of the subsurface probes during this investigation and no groundwater samples were collected/analyzed.

5.0 RECOMMENDATIONS

Based on the results of this Phase II ESA conducted at the Subject Site located at 608 W. Wylie Street, Bloomington, Indiana, BCA recommends the following:

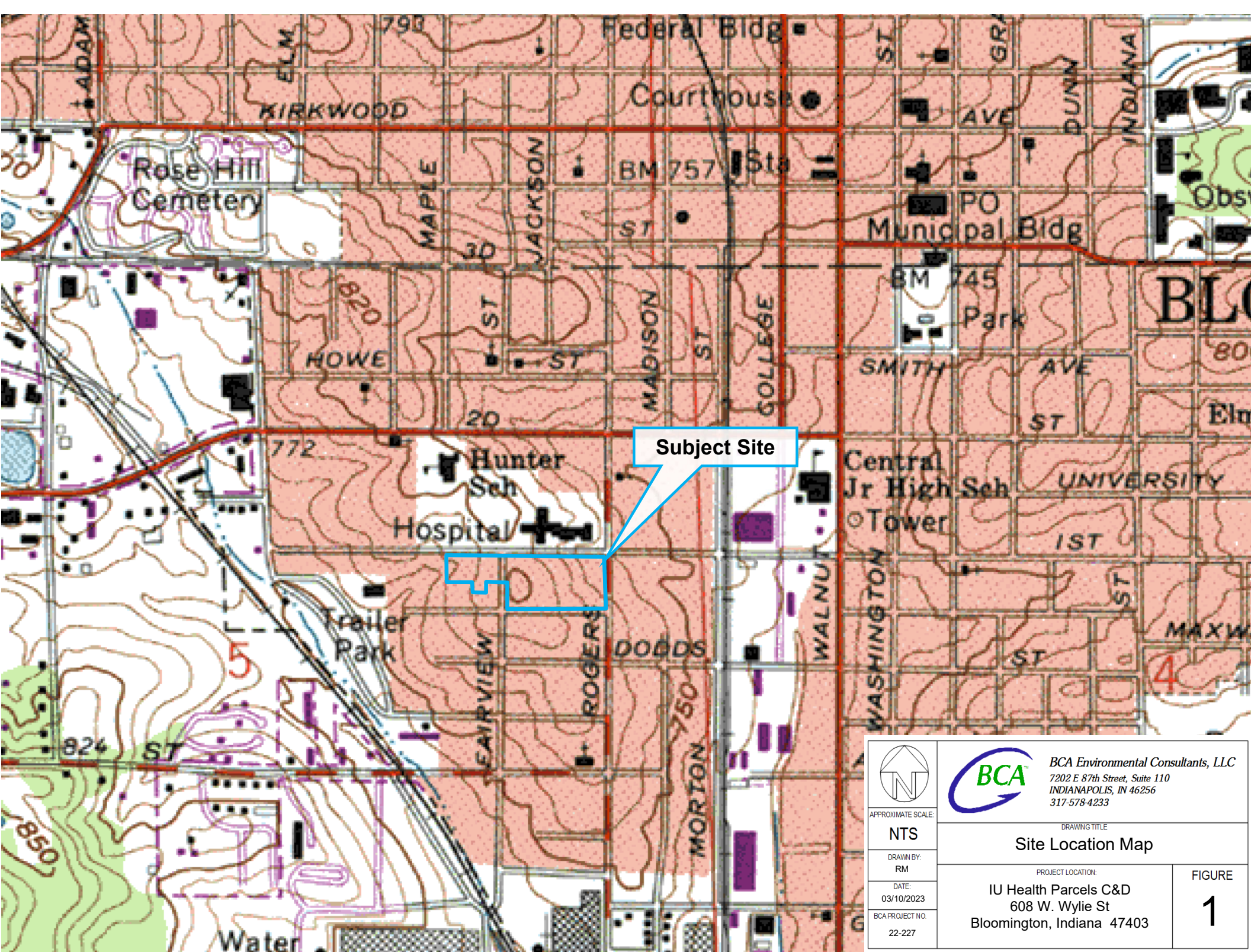
- If the Subject Site will be fully redeveloped as commercial, then no further investigation of the Subject Site is recommended.
- If residential redevelopment is planned in the area of probe SP-8, then delineation and/or clean-up at SP-8 (4-5') is recommended.
- If redevelopment plans include removal of soil near probes SP-10 or SP-8, then delineation or special handling may be required due to solid waste regulations.

6.0 REFERENCES

- BCA, Background Arsenic Levels in Shallow Soils, Bloomington, Indiana, October 26, 2020. BCA Environmental Consultants, LLC.
- Fenelon, J. M., *Hydrogeologic Atlas of Aquifers in Indiana*. U. S. Geologic Survey Water-Resources Investigations Report 92-4142. United States Geologic Survey, Indianapolis, Indiana, 1994.
- Gray, Henry H., et al, *Bedrock Geologic Map of Indiana*, Indiana Geological Survey, Indiana Department of Natural Resources, Bloomington, Indiana, Map, 1987.
- Gray, Henry H., *Quaternary Geologic Map of Indiana*, Indiana Geological Survey, Indiana Department of Natural Resources, Bloomington, Indiana, Map, 1989.
- IDEM, *Risk-based Closure Guide, Office of Land Quality, July 8, 2022*. Indiana Department of Environmental Management, Indianapolis, Indiana, 2022.
- IDEM, *Risk-based Closure Guide (R2), Risk Screening Table, Table 1: Human Health Levels – Office of Land Quality, July 8, 2022*. Indiana Department of Environmental Management, Indianapolis, Indiana, 2022.
- Soil Survey Staff, Natural Resources Conservation Service, United States Department of Agriculture, *Web Soil Survey*. Available online at: <http://websoilsurvey.nrcs.usda.gov/> accessed 05/02/2022.
- USGS 1984, *Elemental Concentrations in Soils and Other Surficial Materials of the Conterminous United States*, United States Geological Survey Professional Paper No. 1270.

Figures

IU Health (Parcels C & D)
608 W. Wylie St.
Bloomington, IN 47403



Subject Site



APPROXIMATE SCALE:

NTS

DRAWN BY:

RM

DATE:

03/10/2023

BCA PROJECT NO:

22-227



BCA Environmental Consultants, LLC
7202 E 87th Street, Suite 110
INDIANAPOLIS, IN 46256
317-578-4233

DRAWING TITLE

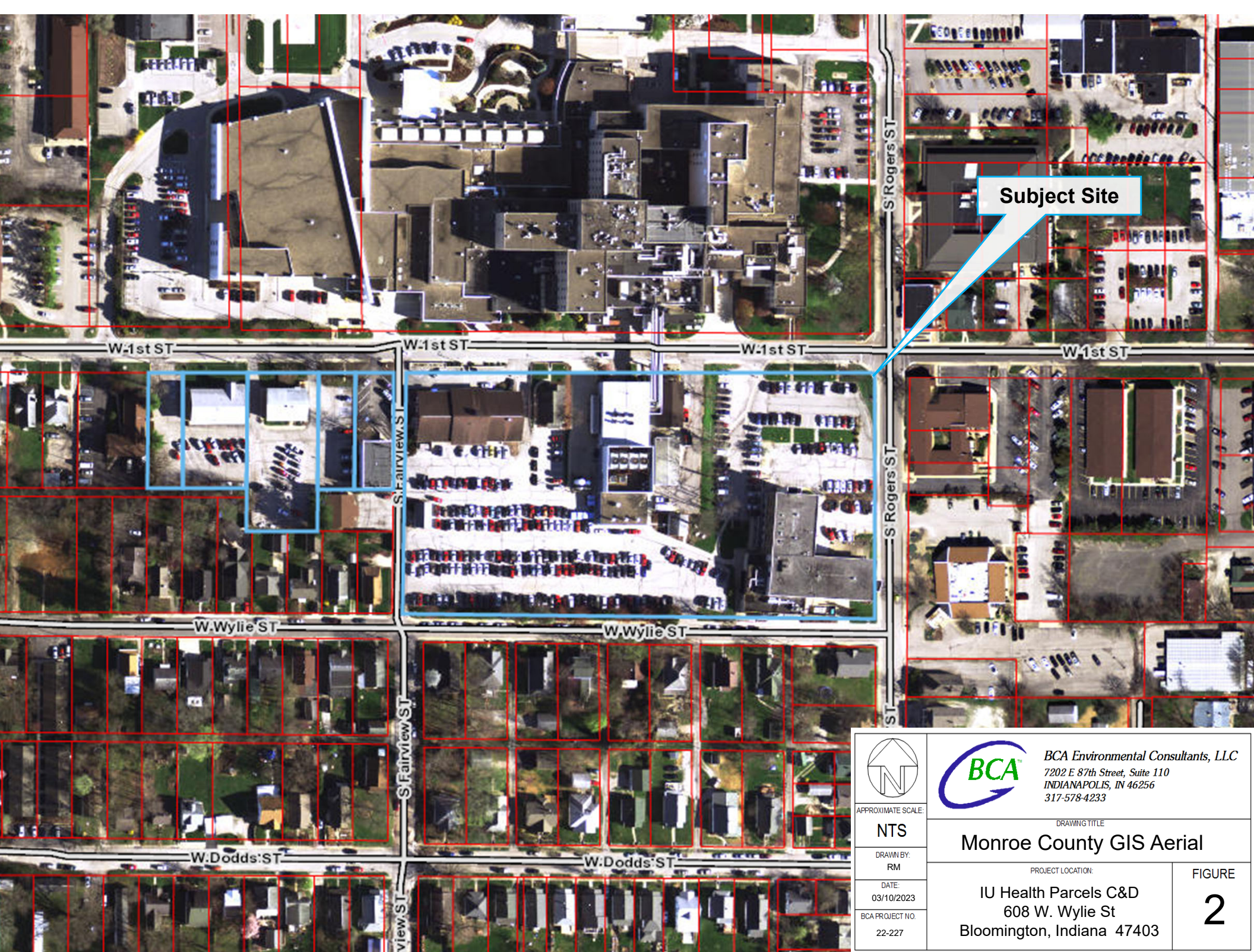
Site Location Map

PROJECT LOCATION:

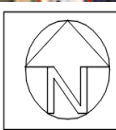
IU Health Parcels C&D
608 W. Wylie St
Bloomington, Indiana 47403

FIGURE

1



Subject Site



APPROXIMATE SCALE:

NTS

DRAWN BY:
RM

DATE:
03/10/2023

BCA PROJECT NO.
22-227



BCA Environmental Consultants, LLC
7202 E 87th Street, Suite 110
INDIANAPOLIS, IN 46256
317-578-4233

DRAWING TITLE

Monroe County GIS Aerial

PROJECT LOCATION:

IU Health Parcels C&D
608 W. Wylie St
Bloomington, Indiana 47403

FIGURE

2

Former IU Health Hospital (Parcel A)

W. 1st Street

W. 1st Street

S. Fairview Street

SP-1

727

719

709

Parking Lot

SP-13

Residential

SP-3

619

615

SP-4

MW-1

MW-2

SP-2

SP-12

Parking Lot

Residential

SP-5

607

605

SP-7

SP-11

SP-6

SP-10

Parking Lot

Parking Lot

SP-9

SP-8

714 S. Rogers

W. Wylie Street

W. Wylie Street

S. Fairview Street

Residential

Residential

Legend

- SP-10 ● Soil Probe Sample Location (Shallow)
- SP-1 ● Soil Probe Sample Location (Deep)
- UST Area / Former UST Area
- MW-2
+
 Monitoring Well



BCA Environmental Consultants, LLC
 7202 E 87th Street, Suite 110
 Indianapolis, IN 46256
 317-578-4233



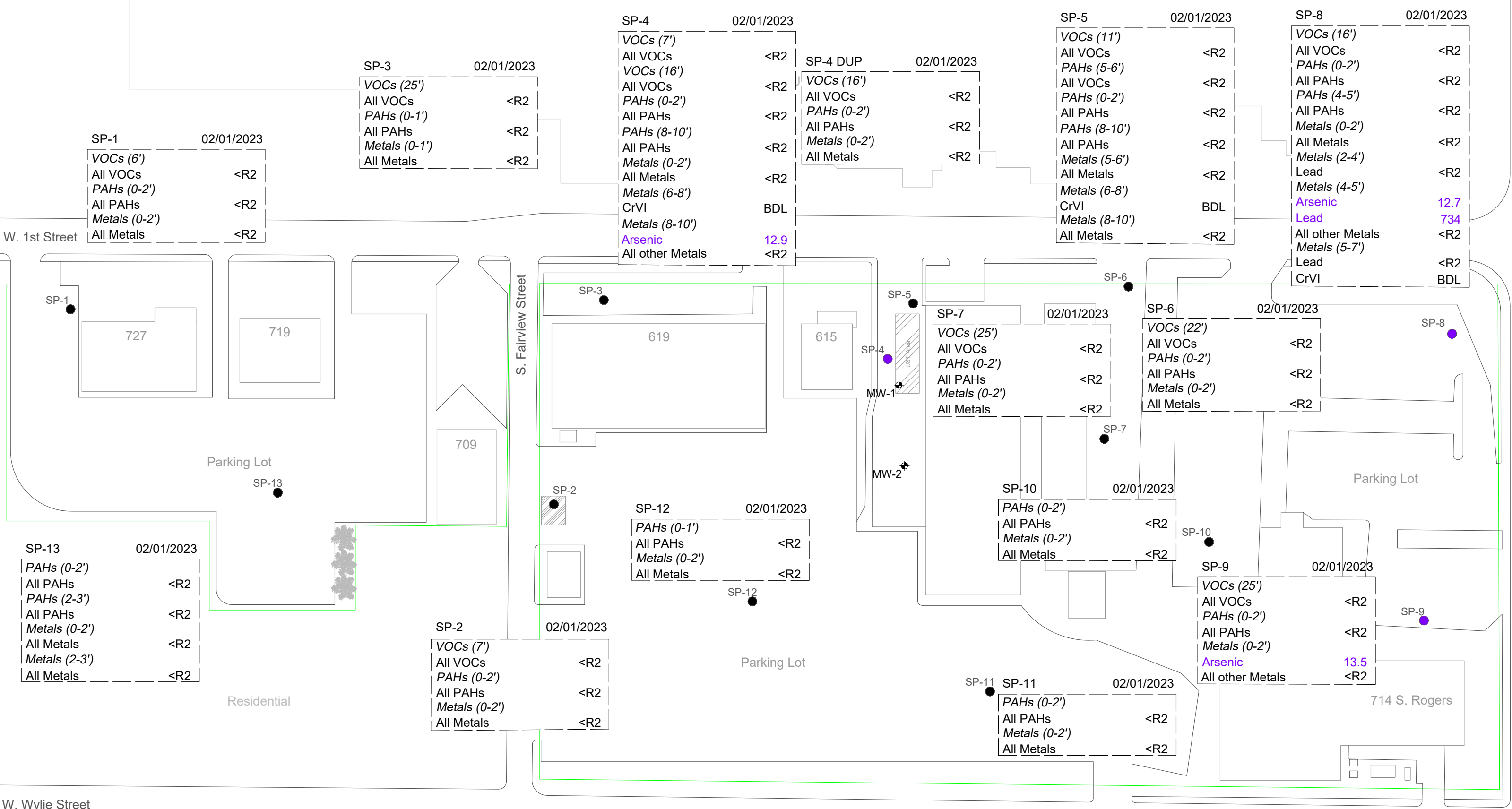
DATE: 02/03/2023
 SCALE: 1" = 60'

DRAWING TITLE
Site Map
 Probe Locations

PROJECT LOCATION:
 Former IU Health Hospital
 Parcels C&D
 608 W. Wylie St.
 Bloomington, Indiana 47000

DRAWN BY:
 RM
 Project NO.
 22-286

FIGURE
3



SP-1 02/01/2023

VOCs (6')	<R2
All VOCs	<R2
PAHs (0-2')	<R2
All PAHs	<R2
Metals (0-2')	<R2
All Metals	<R2

SP-3 02/01/2023

VOCs (25')	<R2
All VOCs	<R2
PAHs (0-1')	<R2
All PAHs	<R2
Metals (0-1')	<R2
All Metals	<R2

SP-4 02/01/2023

VOCs (7')	<R2
All VOCs	<R2
VOCs (16')	<R2
All VOCs	<R2
PAHs (0-2')	<R2
All PAHs	<R2
PAHs (8-10')	<R2
All PAHs	<R2
Metals (0-2')	<R2
All Metals	<R2
Metals (6-8')	<R2
CrVI	BDL
Metals (8-10')	<R2
Arsenic	12.9
All other Metals	<R2

SP-4 DUP 02/01/2023

VOCs (16')	<R2
All VOCs	<R2
PAHs (0-2')	<R2
All PAHs	<R2
Metals (0-2')	<R2
All Metals	<R2

SP-5 02/01/2023

VOCs (11')	<R2
All VOCs	<R2
PAHs (5-6')	<R2
All VOCs	<R2
PAHs (0-2')	<R2
All PAHs	<R2
PAHs (8-10')	<R2
All PAHs	<R2
Metals (5-6')	<R2
All Metals	<R2
Metals (6-8')	<R2
CrVI	BDL
Metals (8-10')	<R2
All Metals	<R2

SP-8 02/01/2023

VOCs (16')	<R2
All VOCs	<R2
PAHs (0-2')	<R2
All PAHs	<R2
PAHs (4-5')	<R2
All PAHs	<R2
Metals (0-2')	<R2
All Metals	<R2
Metals (2-4')	<R2
Lead	<R2
Metals (4-5')	<R2
Arsenic	12.7
Lead	734
All other Metals	<R2
Metals (5-7')	<R2
Lead	<R2
CrVI	BDL

SP-7 02/01/2023

VOCs (25')	<R2
All VOCs	<R2
PAHs (0-2')	<R2
All PAHs	<R2
Metals (0-2')	<R2
All Metals	<R2

SP-6 02/01/2023

VOCs (22')	<R2
All VOCs	<R2
PAHs (0-2')	<R2
All PAHs	<R2
Metals (0-2')	<R2
All Metals	<R2

SP-13 02/01/2023

PAHs (0-2')	<R2
All PAHs	<R2
PAHs (2-3')	<R2
All PAHs	<R2
Metals (0-2')	<R2
All Metals	<R2
Metals (2-3')	<R2
All Metals	<R2

SP-12 02/01/2023

PAHs (0-1')	<R2
All PAHs	<R2
Metals (0-2')	<R2
All Metals	<R2

SP-10 02/01/2023

PAHs (0-2')	<R2
All PAHs	<R2
Metals (0-2')	<R2
All Metals	<R2

SP-9 02/01/2023

VOCs (25')	<R2
All VOCs	<R2
PAHs (0-2')	<R2
All PAHs	<R2
Metals (0-2')	<R2
Arsenic	13.5
All other Metals	<R2

SP-2 02/01/2023

VOCs (7')	<R2
All VOCs	<R2
PAHs (0-2')	<R2
All PAHs	<R2
Metals (0-2')	<R2
All Metals	<R2

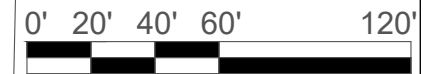
SP-11 02/01/2023

PAHs (0-2')	<R2
All PAHs	<R2
Metals (0-2')	<R2
All Metals	<R2

Legend

- Boring Locations
- Sample Exceeds R2 Residential HHL
- Sample Exceeds R2 Industrial HHL
- Sample Exceeds R2 Excavation HHL
- Sample Location <R2 SL or BDL (See Tables)

BDL = Below Detection Limits
R2 = Risk-based Closure Guide
HHL = Human Health Level
All soil results are reported in milligrams per kilogram (mg/kg)



BCA Environmental Consultants, LLC
7202 E 87th Street, Suite 110
Indianapolis, IN 46256
317-578-4233

DATE: 02/21/2023
SCALE: 1" = 60'

DRAWING TITLE
Soil Analytical Results

PROJECT LOCATION:
Former IU Health Hospital
Parcels C&D
608 W. Wylie St.
Bloomington, Indiana 47000

DRAWN BY:
RM
Project NO.
22-286

FIGURE
4

Tables

IU Health (Parcels C & D)
608 W. Wylie St.
Bloomington, IN 47403

**Table 1
Soil Analytical Results - VOCs**

Project ID	Sample ID	Collected Date	Units	Acetone	Chloroform	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Ethylbenzene	p-Isopropyltoluene	Methylene Chloride	1-Methylnaphthalene	2-Methylnaphthalene	Tetrachloroethene	Toluene	Trichloroethene	1,2,4-Trimethylbenzene	Vinyl chloride	Xylene (Total)	Other VOCs
			CAS Number	67-64-1	67-66-3	156-59-2	156-60-5	100-41-4	99-87-6	75-09-2	90-12-0	91-57-6	127-18-4	108-88-3	79-01-6	95-63-6	75-01-4	1330-20-7	Varies
RbCG Residential Direct Contact Human Health Level*			mg/kg	---	---	---	---	---	---	---	300	300	---	---	---	---	---	---	Varies
RbCG Commercial/Industrial Direct Contact Human Health Level*			mg/kg	---	---	---	---	---	---	---	400	3000	---	---	---	---	---	---	Varies
RbCG Excavation Direct Contact Human Health Level*			mg/kg	100000	2000	2000	2000	500	---	3000	400	7000	200	800	200	200	1000	300	Varies
RCG Soil Migration to GW Screening Level*			mg/kg	74	0.44	0.41	0.62	16	---	0.025	1.2	3.7	0.045	14	0.036	1.6	0.014	200	Varies
Hospital #22-286	SP-1 (6')	02/01/2023 15:10	mg/kg	<0.0052	<0.00081	<0.00041	<0.00058	<0.00054	<0.00061	<0.00064	<0.00033	<0.00040	<0.00053	0.0016 J	<0.00049	<0.00057	<0.00022	<0.00056	BDL
Hospital #22-286	SP-2 (7')	02/01/2023 15:45	mg/kg	<0.0040	<0.00062	<0.00032	<0.00044	<0.00042	<0.00047	<0.00049	<0.00025	<0.00030	<0.00041	0.0014 J	<0.00038	<0.00044	<0.00017	<0.00043	BDL
Hospital #22-286	SP-3 (25')	02/01/2023 14:40	mg/kg	0.0087 J	0.0063	<0.00033	<0.00047	<0.00044	<0.00050	0.0018 J	0.00038 J	0.00047 J	<0.00043	0.0014 J	<0.00040	<0.00046	<0.00018	<0.00045	BDL
Hospital #22-286	SP-4 (7')	02/01/2023 13:15	mg/kg	<0.0036	<0.00056	<0.00029	<0.00040	<0.00038	<0.00043	<0.00045	<0.00023	<0.00028	<0.00037	<0.00061	<0.00034	<0.00040	<0.00016	<0.00039	BDL
Hospital #22-286	SP-4 (16')	02/01/2023 13:25	mg/kg	<0.0054	<0.00084	<0.00043	<0.00060	<0.00056	<0.00064	<0.00067	<0.00034	<0.00041	<0.00055	0.0016 J	<0.00051	<0.00059	<0.00023	<0.00058	BDL
Hospital #22-286	SP-4 Dup (16')	02/01/2023 13:25	mg/kg	<0.0054	<0.00084	<0.00043	<0.00060	<0.00056	<0.00064	<0.00067	<0.00034	<0.00041	<0.00055	0.0017 J	<0.00051	<0.00059	<0.00023	<0.00058	BDL
Hospital #22-286	SP-5 (11')	02/01/2023 12:50	mg/kg	0.0074 J	<0.00085	<0.00043	<0.00061	<0.00057	<0.00064	<0.00067	<0.00034	<0.00042	<0.00055	0.0015 J	<0.00052	<0.00060	<0.00023	<0.00059	BDL
Hospital #22-286	SP-6 (22')	02/01/2023 11:55	mg/kg	<0.0064	<0.00099	<0.00050	<0.00071	<0.00067	<0.00075	<0.00079	<0.00040	<0.00049	<0.00065	<0.0011	<0.00061	<0.00070	<0.00027	<0.00069	BDL
Hospital #22-286	SP-7 (25')	02/01/2023 11:10	mg/kg	<0.0049	<0.00076	<0.00039	<0.00055	<0.00051	<0.00058	<0.00061	<0.00031	<0.00038	<0.00050	0.0015 J	<0.00047	<0.00054	<0.00021	<0.00053	BDL
Hospital #22-286	SP-8 (16')	02/01/2023 10:10	mg/kg	<0.0043	<0.00067	<0.00034	<0.00048	0.0021 J	0.00058 J	0.0020 J	0.00043 J	0.00054 J	<0.00044	0.0041 J	<0.00041	0.00085 J	<0.00019	0.0017 J	BDL
Hospital #22-286	SP-9 (25')	02/01/2023 09:40	mg/kg	<0.0060	<0.00093	<0.00048	<0.00067	<0.00063	<0.00071	<0.00074	<0.00038	<0.00046	<0.00061	0.0018 J	<0.00057	<0.00066	<0.00026	<0.00065	BDL
Hospital #22-286	TB-1	02/01/2023 08:00	mg/kg	<0.0039	<0.00061	<0.00031	<0.00044	<0.00041	<0.00046	0.0021 J	0.0020 J	0.0019 J	<0.00040	0.0013 J	<0.00037	<0.00043	<0.00017	<0.00042	BDL
Field Duplicate RPD (SP-4 (16') & DUP)			%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.1%	0.0%	0.0%	0.0%	0.0%	--

Notes:

Samples analyzed using EPA SW-846 Method 8260

mg/kg = milligrams per kilogram

VOCs = Volatile Organic Compounds

BDL - Below Detection Limits

¹ Risk-based Closure Guide, Appendix A, Table A-5: Human Health Level Summary Table - 2022

² RPD = relative percent difference = ABS((X-Y)/((X+Y)/2)) --- if both values are below Reporting Limit, then the RPD is considered 0%

**Table 2
Soil Analytical Results - PAHs**

Project ID	Sample ID	Collected Date	Units	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene
			CAS Number	83-32-9	208-96-8	120-12-7	56-55-3	50-32-8	205-99-2	191-24-2	207-08-9	218-01-9	53-70-3	206-44-0	86-73-7	193-39-5	90-12-0	91-57-6	91-20-3	85-01-8	129-00-0
RbCG Residential Direct Contact Human Health Level*			mg/kg	5000	---	30000	20	2	20	---	200	2000	2	3000	3000	20	300	300	30	---	3000
RbCG Commercial/Industrial Direct Contact Human Health Level*			mg/kg	50000	---	100000	200	20	200	---	2000	20000	20	30000	30000	200	400	3000	90	---	20000
RbCG Excavation Direct Contact Human Health Level*			mg/kg	100000	---	100000	10000	500	10000	---	10000	100000	1000	70000	70000	10000	400	7000	3000	---	50000
RCG Soil Migration to GW Screening Level*			mg/kg	110	---	1200	2.1	4.7	60	---	590	1800	19	1800	110	200	1.2	3.7	0.079	---	260
Hospital #22-286	SP-1 (0-2')	02/01/2023 15:05	mg/kg	<0.011	<0.010	<0.014	0.026 J	0.022 J	0.029	<0.016	<0.013	0.025 J	<0.013	0.057	<0.011	<0.014	<0.011	<0.010	<0.010	0.025 J	0.046
Hospital #22-286	SP-2 (0-2')	02/01/2023 15:35	mg/kg	<0.012	<0.011	<0.015	0.026 J	0.032	0.046	0.043	<0.014	0.035	<0.015	0.048	<0.012	0.025 J	<0.012	<0.012	<0.011	0.032	0.047
Hospital #22-286	SP-3 (0-1')	02/01/2023 14:20	mg/kg	<0.020	<0.019	<0.025	<0.030	0.054	0.063	0.18	<0.023	0.069	<0.025	0.053	<0.020	0.049 J	<0.020	<0.019	<0.019	0.052	0.087
Hospital #22-286	SP-4 (0-2')	02/01/2023 13:10	mg/kg	<0.0021	<0.0020	<0.0026	<0.0032	<0.0031	<0.0029	<0.0031	<0.0024	<0.0036	<0.0026	<0.0037	<0.0021	<0.0027	<0.0021	<0.0020	<0.0020	<0.0038	<0.0036
Hospital #22-286	SP-4 Dup (0-2')	02/01/2023 13:10	mg/kg	<0.0021	<0.0020	<0.0026	<0.0031	<0.0031	<0.0029	<0.0031	<0.0024	<0.0036	<0.0026	<0.0036	<0.0021	<0.0026	<0.0021	<0.0020	<0.0019	<0.0037	<0.0036
Hospital #22-286	SP-4 (8-10')	02/01/2023 13:15	mg/kg	<0.0025	<0.0023	<0.0031	<0.0037	<0.0036	<0.0034	<0.0036	<0.0028	<0.0042	<0.0030	<0.0043	<0.0024	<0.0031	0.017	0.036	0.008	<0.0044	<0.0042
Hospital #22-286	SP-5 (5-6')	02/01/2023 12:45	mg/kg	<0.0024	<0.0022	<0.0030	<0.0036	<0.0035	<0.0033	<0.0035	<0.0027	<0.0041	<0.0029	<0.0041	<0.0023	<0.0030	<0.0024	<0.0023	<0.0022	<0.0043	<0.0041
Hospital #22-286	SP-5 (8-10')	02/01/2023 12:45	mg/kg	<0.0024	<0.0023	<0.0030	<0.0036	<0.0036	<0.0033	<0.0036	<0.0028	<0.0041	<0.0030	<0.0042	<0.0024	<0.0031	<0.0024	<0.0023	<0.0023	<0.0043	<0.0041
Hospital #22-286	SP-6 (0-2')	02/01/2023 11:35	mg/kg	<0.0021	<0.0019	<0.0026	<0.0031	0.0036 J	0.0043 J	0.0038 J	<0.0024	0.0053	<0.0025	0.0044 J	<0.0020	<0.0026	<0.0021	<0.0020	<0.0019	<0.0037	0.0045 J
Hospital #22-286	SP-7 (0-2')	02/01/2023 10:50	mg/kg	<0.020	<0.019	<0.025	<0.030	<0.030	<0.028	<0.030	<0.023	0.036 J	<0.025	0.16	<0.020	<0.025	<0.020	<0.019	<0.019	<0.036	0.14
Hospital #22-286	SP-8 (0-2')	02/01/2023 09:55	mg/kg	<0.011	<0.011	<0.014	0.049	0.037	0.085	0.03	0.024 J	0.062	<0.014	0.07	<0.011	0.027 J	<0.011	<0.011	<0.011	0.037	0.07
Hospital #22-286	SP-8 (4-5')	02/01/2023 09:55	mg/kg	<0.012	<0.012	<0.015	0.028 J	0.021 J	0.035	<0.018	<0.014	0.035	<0.015	0.065	0.022 J	<0.016	0.022 J	0.032	0.032	0.067	0.055
Hospital #22-286	SP-9 (0-2')	02/01/2023 09:20	mg/kg	<0.010	<0.0098	0.027	0.075	0.068	0.1	0.041	0.029	0.082	<0.013	0.24	<0.010	0.041	<0.010	<0.0099	<0.0097	0.23	0.19
Hospital #22-286	SP-10 (0-2')	02/01/2023 10:35	mg/kg	0.028	0.28	0.28	0.66	0.58	0.97	0.34	0.32	0.83	0.079	1.8	0.15	0.34	0.16	0.15	0.27	1.4	1.5
Hospital #22-286	SP-11 (0-2')	02/01/2023 16:05	mg/kg	<0.0021	<0.0020	<0.0026	<0.0031	<0.0031	<0.0029	0.0036 J	<0.0024	<0.0036	<0.0025	<0.0036	<0.0020	<0.0026	<0.0021	<0.0020	<0.0019	<0.0037	<0.0036
Hospital #22-286	SP-12 (0-1')	02/01/2023 16:00	mg/kg	<0.020	<0.019	<0.025	0.06	0.073	0.091	0.059	<0.023	0.091	<0.025	0.096	<0.020	0.037 J	<0.020	<0.019	0.035 J	0.079	0.13
Hospital #22-286	SP-13 (0-2')	02/01/2023 15:25	mg/kg	<0.021	<0.020	0.056	0.14	0.15	0.24	0.1	0.077	0.2	<0.026	0.47	0.039 J	0.093	<0.021	<0.020	<0.020	0.34	0.41
Hospital #22-286	SP-13 (2-3')	02/01/2023 15:25	mg/kg	0.017	0.024	0.056	0.22	0.24	0.4	0.12	0.15	0.29	0.037	0.44	0.022	0.13	0.032	0.038	0.043	0.26	0.44
Field Duplicate RPD (SP-4 (0-2') & DUP)			%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Notes:

Samples analyzed using EPA SW-846 Method 8270 SIM

mg/kg = milligrams per kilogram

ppm - parts per million

PAHs - Polynuclear Aromatic Hydrocarbons

BDL - Below Detection Limits

Blank cells = Not Analyzed

--- No value given in the Remediation Closure Guide

¹ Risk-based Closure Guide, Appendix A, Table A-5: Human Health Level Summary Table - 2022

² RPD = relative percent difference = ABS((X-Y)/((X+Y)/2)) --- if both values are below Reporting Limit, then the RPD is considered 0%

**Table 3
Soil Analytical Results - Metals**

Project ID	Sample ID	Collected Date	Units	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium Total	Chromium VI - 7196	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium - 6010	Zinc
			CAS Number	7440-36-0	7440-38-2	7440-39-3	7440-41-7	7440-43-9	7440-47-3	18540-29-9	7440-50-8	7439-92-1	7439-97-6	7440-02-0	7782-49-2	7440-22-4	7440-28-0	7440-66-6
RbCG Residential Direct Contact Human Health Level*			mg/kg	40	10	20000	200	100	---	4	4000	400	3	2000	500	500	1	30000
RbCG Commercial/Industrial Direct Contact Human Health Level*			mg/kg	500	30	100000	3000	1000	---	60	50000	800	3	20000	6000	6000	10	100000
RbCG Excavation Direct Contact Human Health Level*			mg/kg	800	900	100000	4000	2000	---	3000	80000	1000	3	40000	10000	10000	20	100000
RCG Soil Migration to GW Screening Level*			mg/kg	5.4	5.9	1700	63	7.5	1000000	0.14	920	270	2.1	510	5.3	16	2.9	7500
Hospital #22-286	SP-1 (0-2')	2/1/2023 15:05	mg/kg	<0.29	3.6	67.7	<0.11	0.50 J	8.5		6.4	8.6	0.052 J	8.6	0.40 J	<0.14	<0.22	36.3
Hospital #22-286	SP-2 (0-2')	2/1/2023 15:35	mg/kg	0.48 J	3.5	50.9	<0.12	0.56 J	12.1		8.4	69.6	<0.029	11.4	<0.33	<0.15	<0.23	64.6
Hospital #22-286	SP-3 (0-1')	2/1/2023 14:20	mg/kg	<0.27	1.9	13.7	<0.10	0.16 J	3.9		3.6	2.1	<0.025	8.1	<0.28	<0.13	<0.20	12.8
Hospital #22-286	SP-4 (0-2')	2/1/2023 13:10	mg/kg	0.41 J	1.5	33.3	<0.10	0.32 J	9.1		2.7	1.1	<0.025	8.5	<0.28	<0.13	<0.20	24.6
Hospital #22-286	SP-4 Dup (0-2')	2/1/2023 13:10	mg/kg	0.65 J	1.0 J	22.1	<0.11	0.36 J	10.4		2.6	1.0 J	<0.025	9.6	<0.29	<0.13	<0.20	26.3
Hospital #22-286	SP-4 (6-8')	2/1/2023 13:15								<0.89								
Hospital #22-286	SP-4 (8-10')	2/1/2023 13:15	mg/kg	<0.92	12.9	75.5	0.88	<0.027	28.1		13.2	16.5	0.044 J	19.2	1.1 J	0.33 J	<0.23	55.6
Hospital #22-286	SP-5 (5-6')	2/1/2023 12:45	mg/kg	<0.30	8.2	98.7	0.68	<0.026	20.9		10.8	11.1	0.042 J	12.9	0.41 J	0.24 J	<0.67	34.9
Hospital #22-286	SP-5 (6-8')	2/1/2023 12:45								<0.90								
Hospital #22-286	SP-5 (8-10')	2/1/2023 12:45	mg/kg	<0.31	8.2	73.4	0.72	<0.027	24.1		10.8	11.9	0.039 J	14.0	0.48 J	0.22 J	<0.69	34.8
Hospital #22-286	SP-6 (0-2')	2/1/2023 11:35	mg/kg	0.39 J	1.1	157	<0.11	0.45 J	7.0		5.9	1.6	<0.026	8.0	0.36 J	<0.13	<0.20	28.7
Hospital #22-286	SP-7 (0-2')	2/1/2023 10:50	mg/kg	0.36 J	1.7	29.2	<0.10	0.29 J	4.8		3.4	14.6	<0.025	6.3	<0.28	<0.13	<0.59	21.6
Hospital #22-286	SP-8 (0-2')	2/1/2023 9:55	mg/kg	0.41 J	4.7	95.3	<0.11	0.43 J	15.5		5.2	10.8	0.070 J	12.9	0.38 J	<0.14	<0.22	34.3
Hospital #22-286	SP-8 (2-4')	2/1/2023 9:55										24.0						
Hospital #22-286	SP-8 (4-5')	2/1/2023 9:55	mg/kg	<1.5	12.7	207	0.56 J	1.2	25.3		32.3	734	0.10 J	12.6	1.1 J	0.33 J	<1.1	401
Hospital #22-286	SP-8 (5-7')	2/1/2023 10:00								<0.94		23.4						
Hospital #22-286	SP-9 (0-2')	2/1/2023 9:20	mg/kg	<0.28	13.5	83.1	0.53 J	0.20 J	22.1	<0.81	53.9	25.8	0.036 J	21.6	0.57 J	0.23 J	<0.21	56.1
Hospital #22-286	SP-10 (0-2')	2/1/2023 10:35	mg/kg	0.48 J	8.7	157	0.35 J	5.6	10.8		20.7	82.3	0.25	12.8	0.41 J	0.33 J	<0.66	1730
Hospital #22-286	SP-11 (0-2')	2/1/2023 16:05	mg/kg	0.28 J	1.4	51.6	<0.099	0.32 J	4.4		2.0	1.6	<0.023	5.2	<0.27	<0.12	<0.19	17.5
Hospital #22-286	SP-12 (0-1')	2/1/2023 16:00	mg/kg	0.52 J	2	62.8	<0.10	0.30 J	5.7		3.8	5.2	<0.024	7.8	<0.27	<0.12	<0.19	23.7
Hospital #22-286	SP-13 (0-2')	2/1/2023 15:25	mg/kg	0.54 J	1.7	43.1	<0.11	0.31 J	5.2		2.7	5.4	<0.025	6.0	<0.30	<0.14	<0.22	17.8
Hospital #22-286	SP-13 (2-3')	2/1/2023 15:25	mg/kg	<0.30	9.3	143	0.86	0.41 J	14.9		18.4	41.7	0.18 J	15.1	0.77 J	0.50 J	<1.1	90.5
Field Duplicate RPD (SP-4 (0-2') & DUP)			%	45.3%	40.0%	40.4%	0.0%	11.8%	13.3%		3.8%	9.5%	0.0%	12.2%	0.0%	0.0%	0.0%	6.7%

Notes:
Samples analyzed using EPA Method 6010, 6020, 7471, 7196 (Metals)

mg/kg = milligrams per kilogram

ppm - parts per million

Blank cells = Not Analyzed

--- No value given in the Remediation Closure Guide

¹ Risk-based Closure Guide, Appendix A, Table A-5: Human Health Level Summary Table - 2022

² RPD = relative percent difference =ABS((X-Y)/((X+Y)/2)) --- if both values are below Reporting Limit, then the RPD is considered 0%

Appendix A

Sampling and Analysis Plan & Health and Safety Plan

IU Health (Parcels C & D)
608 W. Wylie St.
Bloomington, IN 47403



**SAMPLING AND ANALYSIS PLAN
PHASE II ENVIRONMENTAL SITE ASSESSMENT**

**Indiana University Health Bloomington Hospital (Parcels C & D)
608 W. Wylie St.
Bloomington, Indiana 47403
Cooperative Agreement # BF – 00E03051
BCA Project No. 22-286
January 5, 2022**

1.0 BACKGROUND AND PURPOSE

The former Indiana University (IU) Health Bloomington Hospital (Parcels C & D) (Subject Site) has multiple legal street addresses listed below in Bloomington, Indiana, 47403.

Parcel ID	Street Address	Acreage
53-08-05-100-014.000-009	608 W. Wylie Street	4.8
53-08-05-100-028.000-009	717 W. 1 st Street	0.85
53-08-05-402-115.000-009	727 W. 1 st Street	0.5

The three (3) parcels total approximately 6.15 acres of land that is situated in the City of Bloomington, Monroe County, Indiana. The Subject Site is located on the southwest corner of the intersection of S. Rogers St. and W. 1st St. in Bloomington, IN. The area is predominantly mixed-use commercial and residential in nature. The Subject Site is currently owned by City of Bloomington.

A Phase I Environmental Site Assessment (ESA) of the Subject Site was conducted for the City of Bloomington by BCA Environmental Consultants, LLC (BCA), dated May 13, 2022. The Phase I ESA was funded through an U.S. EPA Brownfield Assessment Grant to the City of Bloomington (Cooperative Agreement BF- 00E03051).

The Phase I ESA identified the following recognized environmental conditions (RECs):

1. IU Health Bloomington Hospital (Parcels C & D) (Subject Site), 608 W. Wylie St.
The Subject Site was historically residential until between 1965 and 1977 when it was developed as commercial/medical offices including a power generation facility for the Bloomington Hospital (north of the Subject Site). This operation included three (3) 20,000-gallon diesel USTs to fuel the boilers. One (1) 500-gallon diesel fuel UST was also observed on the Subject Site behind the Olcott

Center at 619 W. 1st Street. In addition, a former automotive repair area was historically present in the ambulance repair shop directly east of the power generation facility. The types and amounts of chemicals historically used in the maintenance of vehicles is unknown.

The possible historical release of chemicals associated with the former automotive service area as well as the unknown status of the diesel USTs on the Subject Site is an environmental concern.

2. IU Health Bloomington Hospital (Parcel A), 601 W. 2nd Street

This property, adjacent to the Subject Site to the north across W. 1st Street, operated as a hospital since at least 1967 and was a large quantity generator (LQG) of hazardous medical waste. A 1992 VFC document ([22512698](#)), indicates that numerous USTs were present on the property. Given that most hospitals utilize back-up generators and heat sources supplied by fuel in USTs, it is possible that some USTs could remain on the property. An NFA determination was made by IDEM in 1996 for a LUST incident on the property, but no letter could be located in the public file regarding this determination.

The potential presence of the petroleum USTs on this adjacent site is an environmental concern.

The purpose of the Phase II ESA is to implement the recommendations of the Phase I ESA and investigate areas of potential environmental impact to confirm the presence or absence of contaminants. The scope of work proposed herein would not be sufficient to determine the extent and magnitude of contamination if it is present.

2.0 SCOPE OF WORK

The investigation procedures will follow BCA's Bloomington Quality Assurance Project Plan and Field Standard Operating Procedures (QAPP and Field SOP) and those recommended by the IDEM 2022 Risk-based Closure Guide (R2), regulations and industry-accepted practices. Investigation results will be compared to R2 Soil Direct Contact Human Health Levels (HHLs), Residential Groundwater HHLs, Soil Gas and Conduit (Sewer) Vapor Screening Levels from the R2 Appendix A, Table A-5: Human Health Levels Table updated 2022.

2.1 Phase II Environmental Site Assessment

The potential environmental concerns identified in the Phase I include the storage and use of petroleum on the Subject Site and/or on the property north (cross-gradient) of the Subject Site. Soil and groundwater samples will be analyzed for volatile organic compounds (VOCs), polynuclear aromatic hydrocarbons (PAHs), and 14 metals.

2.1.1 Geophysical Survey

A limited geophysical survey will be conducted at the site to identify the locations of USTs and buried utilities. The survey will consist of ground penetrating radar (GPR) scans of the area around the proposed borings to identify any potential buried utility or other sub-surface anomaly. Any linear anomalies will be marked and mapped as possible utility, UST, or piping locations.

2.1.2 Soil/Groundwater Boring Investigation

Boring and sample logs from other subsurface investigations at nearby sites in Bloomington indicate bedrock has been encountered at depths ranging from 6 to 25 feet below ground surface (bgs), sometimes with a thin saturated layer above the bedrock. A total of 13 probes will be driven throughout the Subject Site. Nine (9) probes (SP-1 through SP-9) will be advanced to refusal, 5 feet past first groundwater or 25 feet bgs, whichever is shallower, and will be sampled for soil and groundwater. Four (4) probes (SP-10 through SP-13) will be advanced 5 feet bgs and will be sampled for soil only. The probes will be placed on the site as indicated on the attached site map (Figure 1) with adjustments based on site conditions, utility locations, and observations made by BCA personnel upon arrival at the site.

Soil and Groundwater Probes

- Probes SP-1, SP-3, SP-6, and SP-8 will be located along the northern

boundary of the Subject Site to evaluate potential impacts to soil and groundwater from the upgradient former main hospital complex and possible USTs to the north.

- Probe SP-2 will be located at a former diesel UST pit on the Subject Site south of 619 W. 1st Street to evaluate potential impacts to soil and groundwater from a former UST.
- Probes SP-4 and SP-5 will be located near the down-gradient edge of the fuel USTs at the former power plant on the Subject Site to evaluate potential petroleum impacts to soil and groundwater.
- Probe SP-7 will be located downgradient of the former ambulance repair facility on the Subject Site to evaluate potential impacts to soil and groundwater from the former auto maintenance and storage facility.
- Probe SP-9 will be located downgradient of the generator and fuel AST on the Subject Site south of 714 S. Rogers Street to evaluate potential impacts to soil and groundwater from the use and storage of petroleum products.

Soil Only Probes

- Probes SP-10, SP-11, SP-12, and SP-13 will be located across the central portion of the Subject Site. Although not identified as a REC in the Phase I ESA, these probes will help to assess the presence and distribution of urban fill materials throughout the Subject Site used to level the property since it is located on a significant slope.

Note: all soil and groundwater probes will be assessed for the presence of fill materials during drilling.

Soil samples will be collected continuously throughout the depth of each of the probes. One (1) shallow sample (generally 1 to 2 feet bgs) will be analyzed for PAHs and metals in all probes. One (1) sample collected from soil and groundwater probes at the bottom of the UST pits (generally 8-13' bgs) at SP-2, SP-5, and SP-6 will be analyzed for VOCs and PAHs. One deeper sample from the smear zone (just above the water table) will be analyzed for VOCs in each of the soil and groundwater probes. The soil samples will be field screened as described below, and up to one (1) additional soil sample from each soil and

groundwater probe will be selected for analysis for VOCs based on field screening for a total of up to four (4) additional soil VOC analyses.

Deeper soil samples (2-4, 4-6, 6-8 feet bgs etc.) from each probe will also be collected and retained for potential follow-up analysis for PAHs and metals. Up to four (4) soil samples may be analyzed for PAHs and up to four samples may be analyzed for up to four (4) metals each, to determine the depth of impact or whether contaminants are migrating from shallow soils. The four (4) soil samples with the highest total chromium concentrations will be analyzed for CrVI by EPA Method 7196.

Groundwater will be sampled from each of the probes where measurable amounts of groundwater is encountered, using temporary 1" PVC sampling points with 5' of screen and micro-purge (low-flow) sampling techniques as described below. Groundwater samples from each of the probes will be analyzed for VOCs, PAHs, and 14 metals. Filtered groundwater samples will be collected from each location and up to four (4) filtered samples will be analyzed for up to four (4) metals that exceed the groundwater screening levels in the unfiltered samples. Filtered groundwater samples also will be collected and up to two (2) samples will be analyzed for CrVI by EPA method 7199.

2.2 Field Methods

The approved Field Standard Operating Procedures for the project will be used for all tasks. The placement of probes will be as indicated in Figure 1.

Probes will be advanced by means of direct push probing. Probes will be advanced continuously by utilizing 4- or 5-foot-long macro-bore rods equipped with an acetate inner liner. Soil cores will be screened in the field with a photo-ionization detector (PID) and logged in accordance with the Unified Soil Classification System (USCS). Field evidence of contamination (PID, olfactory or visible staining) will be noted. Soil samples will be selected for laboratory analysis based on the field screening results, position in the soil column or other evidence of contamination. Soil samples for VOC analysis will be collected using EPA method 5035A with Terracore™ samplers and 40 mL VOA bottles containing distilled water and methanol preservative and will be frozen within 48 hours of collection.

Shallow groundwater in areas of the Subject Site east of S. Fairview St. likely flows with the surface contour toward Clear Creek, located 0.23 miles to the east. Shallow

groundwater in areas of the Subject Site west of S. Fairview St. likely flows with the surface contour toward an unnamed drainage ditch, located 0.21 miles to the west. It is expected that a thin saturated zone will be encountered above bedrock which is anticipated at 6 to 25 ft. bgs. If groundwater is not initially apparent, the boring will be allowed to sit overnight and will be checked again to determine if groundwater has accumulated. Groundwater samples will be collected by use of temporary 1" PVC sampling points with 5' screens, placed in selected boreholes with measurable amounts of groundwater. Groundwater will be purged and sampled following the IDEM Micro-Purge (Low-Flow) Sampling Option (reformatted June 6, 2012) to the extent possible. Field parameters (Temperature, Conductivity, Dissolved Oxygen, pH, and Oxygen Reduction Potential) will be monitored in each temporary sampling point during purging until at least three (3) parameters have stabilized. Micro-Purge sampling will be conducted with a non-contact stainless steel submersible bladder pump. If groundwater monitoring parameters cannot be stabilized, a sample will be collected regardless, and a note will be recorded in the field book. If filtered samples are to be analyzed (see above) they will be collected by passing the groundwater through an in-line 10-micron (um) cartridge filter. Groundwater samples to be analyzed for CrVI will be collected in approved laboratory-provided EPA method 7199 kits.

If groundwater flow parameters will not support low-flow sampling (slow recharge rate, low water levels, etc.), low-flow will be suspended, and other methods (peristaltic pump or bailer) will be utilized to collect a sample after the probe is purged dry several times and allowed to recover for sufficient sample volume to be collected.

All probe locations will be located by means of a mapping grade (3-meter accuracy, Post Processed) GPS device.

Soil cuttings and purge water from groundwater sampling will be drummed and held on-site. Following laboratory testing, the drum(s) will be transported for disposal, if appropriate. Cost projections are based on disposal of one (1) 55-gallon drum.

2.3 Laboratory Methods

An analysis summary is provided in Table 1. The analytes and methods utilized for this project include:

VOCs = volatile organic compounds. Analysis by EPA Method 8260.

PAHs = polynuclear aromatic hydrocarbons. Analysis by EPA Method 8270SIM.

14 Metals = antimony, arsenic, barium, beryllium, cadmium, chromium, copper,

lead, mercury, nickel, selenium, silver, thallium, and zinc. Analysis by EPA Method 6010B, 7470, 7471.

CrVI = hexavalent chromium (soil). Analysis by EPA Method SW-846/7196.

CrVI = hexavalent chromium (low level water). Analysis by EPA Method SW-846/7199.

2.4 Quality Control

Quality control samples are collected and analyzed to assess the quality of the data resulting from the field sampling program. Quality control samples and laboratory reports will meet the requirements of the IDEM guidance. Equipment blanks will be collected for this project if groundwater samples are collected with non-disposable equipment and will include one (1) for each day of groundwater sampling. Two (2) trip blanks (one (1) for soil and one (1) for water) will be submitted for the project (for VOCs only). Field duplicate samples of each matrix are collected at the rate of one (1) per 20 investigative samples for each analytical method. Matrix spikes and matrix spike duplicates (MS/MSD) are collected at a rate of one (1) per 20 investigative samples per sample matrix for each analytical method. For this project, one (1) equipment blank for the groundwater sampling equipment, one (1) duplicate sample, and one (1) MS/MSD sample for each analytical method will be collected for groundwater; and one (1) duplicate sample and one (1) MS/MSD sample for each analytical method will be collected for soil. The laboratory will include a DQO Level III report package.

2.5 Decontamination

Non-dedicated sampling equipment utilized at the site will be decontaminated using a non-phosphate detergent wash and tap water rinse prior to and following the collection of each sample to reduce the potential for cross contamination. All other procedures used to decontaminate equipment will be documented. Wherever practical, disposable sampling equipment will be used to eliminate the need for decontamination.

2.6 Report

Observations and data generated by the field investigation will be summarized in a report for submittal to the Client. The report will contain a detailed explanation and documentation of sample locations and collection procedures. Analytical data will be summarized, and conclusions discussed to the extent possible. The need for additional investigation or remediation of the Subject Site will also be discussed, if appropriate.

Former IU Health Hospital (Parcel A)

W. 1st Street

W. 1st Street

S. Fairview Street

SP-1

727

719

709

Parking Lot

SP-13

Residential

SP-3

619

615

607

605

Possible UST Area

SP-4

SP-5

SP-6

SP-7

Parking Lot

SP-8

Parking Lot

SP-10

Parking Lot

SP-12

SP-11




714 S. Rogers

SP-9

W. Wylie Street

W. Wylie Street

Legend

- SP-10  Soil Only Sample Location
- SP-6  Soil and Groundwater Sample Location
-  Possible UST Area / Former UST Area

Residential

Residential

Residential

S. Fairview Street



BCA Environmental Consultants, LLC
 7202 E 87th Street, Suite 110
 Indianapolis, IN 46256
 317-578-4233



DATE:
12/07/2022
SCALE:
1" = 60'

DRAWING TITLE
Site Map
 Boring Locations

PROJECT LOCATION:
 Former IU Health Hospital
 Parcels C&D
 608 W. Wylie St.
 Bloomington, Indiana 47000

DRAWN BY:
RM
Project NO.
XX-XXX

FIGURE
X

**TABLE 1
ANALYSIS SUMMARY -
Phase II ESA
Former IU Health Hospital
608 W. Wylie St.
Bloomington, IN**

Sampling Type	No. of Samples	MS/MSD	Equip. Blank	Trip Blank	Duplicate	Total Samples	Analysis	Containers	Preservatives	Holding Times
Soil	16	1	0	1	1	19	VOCs 8260	3 pretared 40 ml glass vials w/ approx 5 gms soil in each from terre core sampler. 4th for moisture.	MeOH in 1. DI in 2 - freeze in 48 hrs	14 Days
	0	0	0		0	0	SVOCs/PAHs 8270	4-ounce Glass Jars	Cool to 6°C	14 Days
	20	2	0		2	24	PAHs 8270	4-ounce Glass Jars	Cool to 6°C	14 Days
	13	2	0		2	17	14 Metals 6010/7470	4-ounce Glass Jars	Cool to 6°C	180 Days, Hg 28
	4	0	0		0	4	Chromium VI 7199A	4-ounce Glass Jars	Cool to 6°C	CrVI 30 days
	4	0	0		0	4	4 metals 6010	4-ounce Glass Jars	Cool to 6°C	180 Days
	0	0	0		0	0	Lead 6010	4-ounce Glass Jars	Cool to 6°C	180 Days
	0	0	0		0	0	Cyanide 9010/9012	4-ounce Glass Jars	Cool to 6°C	14 Days
	0	0	0		0	0	Herbicides 8151	4-ounce Glass Jars	Cool to 6°C	180 Days
	0	0	0		0	0	Pesticides	4-ounce Glass Jars	Cool to 6°C	14 Days
	0	0	0		0	0	PCBs 8082A	4-ounce Glass Jars	Cool to 6°C	14 Days
Groundwater	9	1	1	1	1	13	VOCs 8260	3 - 40 ml Vials	HCl, Ice	14 Days
	0	0	0		0	0	SVOCs/PAHs - 8270/SIM	1 - 1 liter Amber Glass Jar	Ice	7 Days
	9	1	1		1	12	PAHs - 8270/SIM	2 - 100 ml Amber Glass Jar	Ice	7 Days
	9	1	1		1	12	14 Metals Unfiltered	1 - 250 ml Plastic	HNO3, Ice	180, Hg 28 days
	4	0	0		0	4	4 Metals Filtered	1 - 250 ml Plastic	HNO3, Ice	180, Hg 28 days
	2	0	0		0	2	Chromium VI 7199	1 - 50 ml Plastic	NH4SO4, Ice	CrVI 28 days
	0	0	0		0	0	Cyanide 9010/9012	1 - 1 liter Amber Glass Jar	NaOH, Ice	14 Days
Indoor Air/Soil Gas	0	0	0		0	0	VOCs TO-15 Low Level	1L or 6L Summa Canister	---	14 Days
Asbestos	0	0	0	0	0	ACM by PLM	Sealable Plastic Bags	NA	NA	

BCA #XX-XXX Former IU Hosiptal Parcels C&D, 608 W. Wylie St., Bloomington, IN

Groundwater: Probe

Sample #	Depth	SVOCs/PAHs				PCBs	Unfiltered 14 Metals	Filtered 4 Metals	Filt CrVI 7199	Cyanide
		VOCs	PAHs	PAHs	PCBs					
SP- 1	20	1		1		1	X	X		
SP- 2	20	1		1		1	X	X		
SP- 3	20	1		1		1	X	X		
SP- 4	20	1		1		1	X	X		
SP- 5	20	1		1		1	X	X		
SP- 6	20	1		1		1	X	X		
SP- 7	20	1		1		1	X	X		
SP- 8	20	1		1		1	X	X		
SP- 9	20	1		1		1	X	X		
SP- 10	5									
SP- 11	5									
SP- 12	5									
SP- 13	5									
Deeper soil										
Additional based on field screening										
Follow-up based on Analytical results							4	2		
Total Samples		9	0	9	0	9	4	2	0	
QA/QC		4		3		3		0		
Total lab		13	0	12	0	12	4	2	0	

Soils:

VOCs	SVOCs/PAHs	PAHs	14 Metals	CrVI 7199	4 metals	PCBs	Default Sample Dept
1		1	1				0-2', smear zone
2		2	1				0-2', tank, smear zone
1		1	1				0-2', smear zone
1		1	1				0-2', smear zone
2		2	1				0-2', tank, smear zone
2		2	1				0-2', tank, smear zone
1		1	1				0-2', smear zone
1		1	1				0-2', smear zone
1		1	1				0-2', smear zone
1		1	1				0-2', smear zone
		1	1				0-2'
		1	1				0-2'
		1	1				0-2'
		1	1				0-2'
4							
		4		4	4		
16	0	20	13	4	4	0	
3		4	4	0		0	
19	0	24	17	4	4	0	

QA/QC = Field Duplicate, MS/MSD, Equipment Blank, Trip Blank* (VOCs GW)
 *1 Trip Blank per sample shipping container

SITE HEALTH AND SAFETY PLAN

Former IU Health Hospital Parcels C&D, 608 W. Wylie St., Bloomington, Indiana 47403

1.0 GENERAL PROJECT INFORMATION

Prime Contractor:	BCA Environmental Consultants, LLC
Client:	City of Bloomington
Subject Site Name:	Former IU Health Hospital Parcels C&D
Site Address:	608 W. Wylie St., Bloomington, IN 47403
Principal: Project Manager:	John Kilmer Len Hinrichs
Date of Plan:	December 07, 2022

SITE DESCRIPTION

Type of Facility (describe):	Former Hospital Offices/Power Gen.
Active or Closed/Abandoned:	Closed/Abandoned
Describe surface features (buildings, paved or unpaved, overhead/underground utilities):	3 parcels, 6.15 acres, 11 structures, paved, underground and overhead utilities
List any site access restrictions:	None
Surrounding neighborhood description:	commercial/residential

SITE ACTIVITIES - The site activities covered by this HASP include those checked in the box below:

Site Activity	Soil Borings	Groundwater Probe Installation	Soil / Purge Water Disposal	Soil Excavation	Soil Sampling
Assessment					
Investigation	X	X	X		X
Remediation					

EMERGENCY PHONE NUMBERS

POSITION	NAME	CONTACT
Safety Officer	Rod Manny	© (765) 413-4750
Field Manager	Rod Manny	© (765) 413-4750
Field Technician	Chris Jones	© (317) 938-5565
Industrial Services	To be determined	To be determined
Subcontractors: List all names of Subcontractors	TBD	TBD
Hospital Name	Monroe Hospital	(812) 825-0823
Hospital Address	4011 S. Monroe Medical Park Blvd., Bloomington, IN 47403	
Hospital Phone	(812) 825-0823	
Directions to nearest Hospital	See attached map	
Fire and Emergency	Call 911	
EPA Hotline:	1-800- 621-3191	

2.0. INTRODUCTION/SCOPE OF WORK

This plan provides health and safety guidelines for site investigation and remediation activities conducted by BCA Environmental Consultants, LLC (BCA) to protect on-site personnel, visitors and the public from physical harm and exposure to hazardous materials and/or wastes. The procedures and guidelines contained herein are based on the best available information at the time of the plan's preparation. Specific requirements may be revised if new information is received, or site conditions change. It is the responsibility of the field personnel to evaluate the site work conditions and if in doubt about safety or an operation, request assistance from the Site Safety Officer. Compliance with this plan is mandatory for all on-site BCA personnel and subcontractors.

Operations at the site may require additional tasks not identified in the preparation of this health and safety plan (HASP). Before performing any task not covered in this HASP a revision must be prepared and approved by the Site Safety Officer (SSO).

2.1 Scope of Work

Scope of work for the investigation at the site includes:

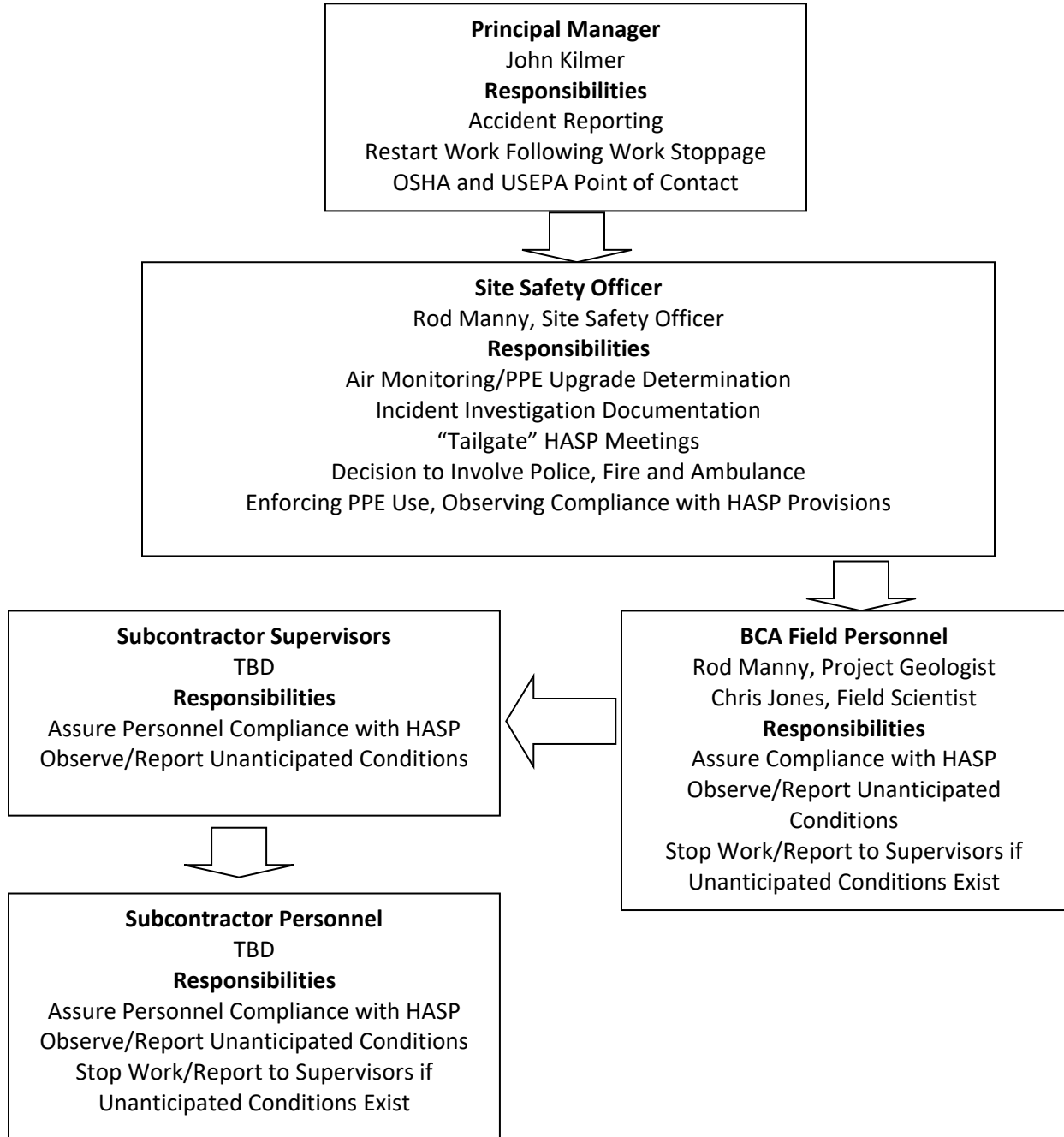
- Geophysical Survey
- Install soil/groundwater probes
- Sample groundwater
- Sample soil

3.0 PERSONNEL CONTACT INFORMATION AND PHONE NUMBERS

The BCA SSO will have the authority to alter work practices, stop work, and/or allocate resources to mitigate unsafe work practices. All personnel have the authority to stop any work practice that may endanger site personnel or the general public. Restarting work will be done in consultation with the SSO. The following personnel and subcontractor resources will be used on this site:

POSITION	NAME	CONTACT
Safety Officer	Rod Manny	© (765) 413-4750
Field Manager	Rod Manny	© (765) 413-4750
Field Technician	Chris Jones	© (317) 938-5565
Excavation Services	To be determined	To be determined
Remediation Services	To be determined	To be determined
Subcontractors: List all names of subcontractors to be used for site activities	To be determined	To be determined

TABLE OF AUTHORITY



4.0 EMERGENCY INFORMATION/RESPONSE

The purpose of this section is to provide the on-site user with contact and location information to be used in case of an emergency response situation. In case of an emergency on-site, **CALL 911** first and **NOTIFY** the site operator (if available). Then contact the BCA project manager and Site Safety Officer for this site.

EMERGENCY PHONE NUMBERS

Hospital Name	Monroe Hospital
Hospital Address	4011 S. Monroe Medical Park Blvd., Bloomington, IN 47403
Hospital Phone Number	(812) 825-0823
Directions to nearest Hospital	See attached map
Fire and Emergency	Call 911
EPA Hotline:	1-800- 621-3191
National Response Center	1-800-424-8802
TSCA HOTLINE	1-800-424-9065
Poison Control Center	1-800-382-9097
CHEMTREC	1-800-424-9300
National Pesticide Center	1-800-858-7378

5.0 STANDARD EMERGENCY PROCEDURES

5.1 Hazard Communication

Any organization wishing to bring any hazardous material onto any BCA-controlled work site must first provide a copy of the item's Material Safety Data Sheet (MSDS) to the Site Safety Officer for approval and filing (the Site Safety Officer will maintain copies of all MSDSs on site). MSDSs may not be available for locally-obtained products, in which case some alternate form of product hazard documentation will be acceptable. All personnel shall be briefed on the hazards of any chemical product they use and shall be aware of and have access to all MSDSs. All containers on site shall be properly labeled to indicate their contents. Labeling on any containers not intended for single-day, individual use shall contain additional information indicating potential health and safety hazards (flammability, reactivity, etc.).

The Hazard Communication standard (29 CFR 1910.1200) has been provided to employees, and a written copy is on file at BCA's office.

5.2 Confined Space Entry

There is no expectation that a confined space will be entered during this project.

6.0. PERSONNEL TRAINING RECORDS

All personnel working within the exclusion zone are required to have 40-hour HAZWOPPER training and be current with refresher training in accordance with 29CFR 1910.120.

7.0 KNOWN OR ANTICIPATED HAZARDS

7.1 General Safety Rules

Housekeeping

During site activities, work areas will be continuously policed for identification of excess trash and unnecessary debris. Excess debris and trash will be collected and stored in an appropriate container (e.g., plastic trash bags, garbage can, roll-off bin) prior to disposal. At no time will debris or trash be intermingled with waste PPE or contaminated materials.

Smoking, Eating, or Drinking

Smoking, eating and drinking will not be permitted inside any controlled work area at any time. Field workers will first wash hands and face immediately after leaving controlled work areas (and always prior to eating or drinking). Consumption of alcoholic beverages is prohibited at any BCA-controlled site.

Personal Hygiene

The following personal hygiene requirements will be observed:

Water Supply: A water supply adhering to the following requirements will be utilized:

- An adequate supply of potable water will be available for field personnel consumption.
- Potable water can be provided in the form of water bottles, canteens, water coolers, or drinking fountains. Where drinking fountains are not available, individual-use cups will be provided as well as adequate disposal containers. Potable water containers will be properly identified in order to distinguish them from non-potable water sources.
- Non-potable water may be used for hand washing and cleaning activities. Nonpotable water will not be used for drinking purposes. All containers of non-potable water will be marked with a label stating:

Non-Potable Water
Not Intended for Drinking Water Consumption

Toilet Facilities:

- A minimum of one toilet will be provided for every 20 personnel on site, with separate toilets maintained for each sex except where there are less than 5 total personnel on site. For mobile crews where work activities and locations permit transportation to nearby toilet facilities on-site facilities are not required.

Washing Facilities:

- Employees will be provided washing facilities (e.g., buckets with water and Alconox) at each work location. The use of water and hand soap (or similar substance) will required by all employees following exit from the Exclusion Zone, prior to breaks, and at the end of daily work activities.

Buddy System

All field personnel will use the buddy system when working within any controlled work area. Personnel belonging to another organization on site can serve as "buddies" for BCA

HEALTH AND SAFETY PLAN
Former IU Health Hospital Parcels C&D, 608 W. Wylie St., Bloomington, Indiana 47403
BCA Environmental Consultants, LLC

personnel. Under no circumstances will any employee be present alone in a controlled work area.

7.2 Heat and Cold Stress

Heat and cold stress may vary based upon work activities, PPE/clothing selection, geographical locations, and weather conditions. To reduce the potential of developing heat/cold stress, be aware of the signs and symptoms of heat/cold stress and watch fellow employees for signs of heat/cold stress.

Heat stress can be a significant field site hazard, particularly for non-acclimated personnel operating in a hot, humid environment. Site personnel will be instructed in the identification of a heat stress victim, the first-aid treatment procedures for the victim and the prevention of heat stress casualties. Work-rest cycles will be determined, and the appropriate measures taken to prevent heat stress.

7.3 Responding to Heat-Related Illness

The guidance below will be used in identifying and treating heat-related illness.

Heat- Related Illness	Description	First Aid
Mild Heat Strain	The mildest form of heat-related illness. Victims exhibit irritability, lethargy, and significant sweating. The victim may complain of headache or nausea. This is the initial stage of overheating, and prompt action at this point may prevent more severe heat-related illness from occurring.	<ul style="list-style-type: none"> • Provide the victim with a work break during which he/she may relax, remove any excess protective clothing, and drink cool fluids. • If an air-conditioned spot is available, this is an ideal break location. • Once the victim shows improvement, he/she may resume working; however, the work pace should be moderated to prevent recurrence of the symptoms.
Heat Exhaustion	Usually begins with muscular weakness and cramping, dizziness, staggering gait, and nausea. The victim will have pale, clammy moist skin and may perspire profusely. The pulse is weak and fast and the victim may faint unless they lie down. The bowels may move involuntarily.	<ul style="list-style-type: none"> • Immediately remove the victim from the work area to a shady or cool area with good air circulation (avoid drafts or sudden chilling). • Remove all protective outerwear. • Call a physician. • Treat the victim for shock. (Make the victim lie down, raise his or her feet 6–12 inches, and keep him or her cool by loosening all clothing).

HEALTH AND SAFETY PLAN
Former IU Health Hospital Parcels C&D, 608 W. Wylie St., Bloomington, Indiana 47403
BCA Environmental Consultants, LLC

Heat Stroke	The most serious of heat illness, heat stroke represents the collapse of the body's cooling mechanisms. As a result, body temperature may rise to 104 degrees Fahrenheit or higher. As the victim progresses toward heat stroke, symptoms such as headache, dizziness, nausea can be noted, and the skin is observed to be dry, red, and hot. Sudden collapse and loss of consciousness follows quickly and death is imminent if exposure continues. Heat stroke can occur suddenly	<ul style="list-style-type: none"> • Immediately evacuate the victim to a cool and shady area. • Remove all protective outerwear and as much personal clothing as decency permits. • Lay the victim on his or her back with the feet slightly elevated. • Apply cold wet towels or ice bags to the head, armpits, and thighs. • Sponge off the bare skin with cool water or rubbing alcohol, if available. • The main objective is to cool without chilling the victim. • Give no stimulants or hot drinks. • Since heat stroke is a severe medical condition requiring professional medical attention, emergency medical help should be summoned immediately to provide onsite treatment of the victim and proper transport to a medical facility.
-------------	---	---

8.0 PHYSICAL HAZARDS AND MITIGATION PROCEDURES

Safe work practices in compliance with OSHA standards and this document will be used at all times. The first aid kit and fire extinguisher are to be on site at all times. The following table lists the anticipated hazards and the associated safety rules for proper control.

Hazard Description	Potential Result	Control Measure
Tool Handling	Cuts, contusions, bruises	Wear gloves, steel-toed boots and safety glasses
Vehicle Traffic	Impact, getting struck by vehicle	Set up safety cones around well being sampled. Communicate activities with any onsite personnel. Wear reflective vest. Use truck or van as a shield if possible. Set up snow fence for each location where pedestrian walkways are affected and cover all openings or secure with snow fence during all breaks or overnight.
Heat/Cold	Heat stress/frostbite	Heat: Take frequent breaks and drink plenty of fluids. Watch for signs/symptoms of heat stress (fainting, dizziness, excessive sweating) Cold: Wear several layers of clothing, do not work in excessive cold, take frequent breaks.
Slip, trip and fall	Bruising, sprained ankle/foot/knee	Be aware of surroundings and practice good housekeeping measures around the site area to minimize items that pose a trip hazard.
Splash	Exposure to contaminants in the groundwater – dermal and/or eye	Wear gloves and safety glasses during purging of well and sample collection.
Hazardous Energy Control	Personal injury, electrocution	Use lockout/tagout controls to ensure that hazardous energy sources (electrical) are controlled prior to valve removal activities, including electrical and water pressure. All underground utilities should be marked prior to intrusive activities. A site walk-through should identify all overhead power lines.
Heavy Equipment	Struck by	Keep aware of the location of heavy equipment at

HEALTH AND SAFETY PLAN
Former IU Health Hospital Parcels C&D, 608 W. Wylie St., Bloomington, Indiana 47403
BCA Environmental Consultants, LLC

		all times. If overhead activities are taking place (drilling, digging) hard hats will be used.
Fire and Explosion	Flammable vapors from petroleum may ignite	Monitor for the presence of flammable vapors with an explosimeter. Fire extinguishers should be available. Evacuate the area immediately, call 911 and evaluate the situation.
Noise/Hearing Protection	Active drilling and other processes may exceed noise exposure standard of 85 decibels	Wear appropriate hearing protection.
Biological Hazards	Poisonous vegetation and/or stinging/biting insects or animals	Keep aware of surroundings and if bite or sting takes place seek first aid and/or medical attention

9.0. CHEMICAL HAZARDS POTENTIALLY ON SITE

9.1 Waste Characterization

Potential hazards for each of the tasks presented below are assessed. As work items are being performed, continued monitoring and observation will be used to determine if conditions change. Site Safety Officer will be responsible for continued assessment, and work practice modification in the event that unsafe work practices are observed. The following site activities are anticipated:

- Install groundwater probes
- Sample groundwater
- Sample soil

9.2 Hazard Evaluation

Chemicals of Concern: Identify all chemicals that are present or suspected to be present on site and the maximum concentrations detected in soil or water.

Chemical Name	TLV/PEL (8-hour TWA exposure limit for inhalation exposure in breathing zone)	Maximum Concentration in Soil (mg/kg or ppm)	Maximum Concentration in Water (mg/l or ppm)	Health Hazard/Comments
VOCs	Varies	TBD	TBD	Varies
PAHs	Varies	TBD	TBD	Varies
Metals	Varies	TBD	TBD	Varies

Is free product onsite? Yes No Unsure

Will work tasks be performed inside buildings/enclosures? Yes No

Is there evidence that contaminants present could cause vapor problems in structures on-site?
 Yes No Unsure

If Yes, is building mechanically ventilated? Yes No

12.0 LIST OF FIELD ACTIVITIES

The following is a list of field activities anticipated for this project:

- The first field activity in this investigation will be utility location. Because this is not an invasive activity, this Site Health and Safety Plan will not be applied to the utility locating contractor.
- Pre-marking groundwater probe locations will be performed by BCA. This is also not an invasive activity and no hazards are anticipated.
- Geophysical Survey. This is not an invasive activity and no hazards are anticipated. This activity will be performed by a subcontractor and overseen by BCA.
- Groundwater probe installation. This activity will be performed by BCA in the pre-marked areas.
- Groundwater sampling. This activity will be performed by BCA.
- Soil sampling. This activity will be performed by BCA.

13.0 SITE DESCRIPTION

Type of Facility (describe):	Warehouse
Active or Closed/Abandoned:	Closed/Abandoned
Describe Surface Features (buildings, paved or unpaved, overhead/underground utilities):	3 parcels, 6.15 acres, 11 structures, paved, underground and overhead utilities
List Any Site Access Restrictions:	None
Surrounding Neighborhood Description:	Mixed commercial & residential

14.0 PERSONNEL PROTECTIVE GEAR/ENGINEERING CONTROLS

14.1 Personnel Protective Gear

Level D:

Soil concentrations in previous investigations are not expected to cause health risks if handled carefully. Sampling can be performed using modified Level D protection. The following items are needed for modified Level D.

- Hard hat (for overhead hazard activities)
- Steel-toe work boots
- Coveralls and/or long pants with short sleeved shirts (at a minimum)
- Eye protection when a splash hazard exists
- Hearing protection during active drilling or other loud operations
- Nitrile gloves for sampling and/or contact with soil and groundwater.

Modifications:

Modifications to this level of protection will be made if site conditions and/or contamination levels warrant an upgrade in protection level.

Level C:

If site conditions warrant, an upgrade to level C will be made if air monitoring equipment indicates respiratory protection is required. Air-purifying respirators with organic vapor cartridges will be used in this situation. The MSDS for that substance shall be consulted to determine the appropriate personal protective equipment (i.e. chemical resistant coveralls/gloves, chemical goggles, respiratory protection).

Surveillance Equipment and Materials:

Photo Ionization Detector

Work Limitations (Time of Day, etc.):

All sampling operations will be conducted during daylight hours. No smoking or eating during soil handling procedures.

14.1.1 PPE Donning and Doffing Information

The following information is to provide field personnel with helpful hints that, when applied, make donning and doffing of PPE a safe and manageable task:

- Never cut disposable booties from your feet with basic utility knives. This has resulted in workers cutting through the bootie and the underlying sturdy leather work boot, resulting in significant cuts to the legs/ankles. Recommend using a pair of scissors or a package/letter opener (cut above and parallel with the work boot) to start a cut in the edge of the bootie, then proceed by manually tearing the material down to the sole of the bootie for easy removal.

HEALTH AND SAFETY PLAN
Former IU Health Hospital Parcels C&D, 608 W. Wylie St., Bloomington, Indiana 47403
BCA Environmental Consultants, LLC

- When applying duct tape to PPE interfaces (wrist, lower leg, around respirator, etc.) and zippers, leave approximately one inch at the end of the tape to fold over onto itself. This will make it much easier to remove the tape by providing a small handle to grab while still wearing gloves. Without this fold, trying to pull up the tape end with multiple gloves on may be difficult and result in premature tearing of the PPE.
- Have a “buddy” check your ensemble to ensure proper donning before entering controlled work areas. Without mirrors, the most obvious discrepancies can go unnoticed and may result in a potential exposure situation.
- Never perform personal decontamination with a pressure washer.

14.2 Medical Surveillance Requirements

All personnel must have completed the appropriate medical monitoring requirements as specified in 29 CFR 1910.120. Documentation of medical monitoring is the responsibility of each employer.

14.3 Engineering Control

The engineering control to prevent pedestrian/general population from exposure to hazards at the work site is Site Control.

14.3.1 Site Control Measures

Site controls establish the hazardous area perimeter and prevent access or exposure by unauthorized personnel or the public. The site map is attached to the Field Instructions and is incorporated as part of the HASP. The “buddy system” is to be used throughout those site operations that require it.

Site Entry Procedures: Notify property owner before mobilizing to the site.

Perimeter establishment/identification: Area of site east of the building will be work zone perimeter. See site map and field instructions attached.

An exclusion zone, contamination reduction zone and support zone will be identified for each site activity.

14.3.2 Emergency First Aid Procedures

If eye irritation, nausea, vomiting, dizziness, unusual odors or any other unusual mental or physical sensations are noticed, seek medical assistance.

Inhalation: Move person to fresh air, seek medical assistance.

Ingestion: Do not induce vomiting, seek medical attention.

Eyes: Flush with copious amounts of water.

Skin: Wash with soap and water.

15.0 AIR MONITORING REQUIREMENTS

Where VOC's are present, all soil samples will be field screened for semi-volatile organics using a photoionization detector (PID). During soil sample collection, it is expected that headspace gasses will be below the action level. However, during the course of soil sampling, if headspace gasses exceed 100 ppm, breathing zone monitoring will be conducted. If volatile gasses are detected in the breathing zone, the work activities will stop and breathing zone gasses will be monitored using the PID or one of the other detectors outlined below. Further work may be conducted after elimination of all ignition sources, increasing the monitoring frequency, or elevating the level of PPE.

Instrumentation Available for Higher Level Air Monitoring:

INSTRUMENT	MANUFACTURER/MODEL *	SUBSTANCES DETECTED
Photo Ionization Detector (PID)	RAE Systems mini-RAE Photovac Microtip HNu Model Hnu (10.2 eV Lamp)	Petroleum Hydrocarbons Organic Solvents
Flame Ionization Detector (FID)	Foxboro	Petroleum Hydrocarbons Organic Solvents
Combustible Gas Indicator (CGI) May Be Combined with Individual or Multi-gas Detectors.	TBD	Explosivity
Individual Gas Detectors	TBD	Oxygen (O ₂) Carbon Monoxide (CO) Hydrogen Sulfide (H ₂ S) Cyanide Gases (CN ₋)
Particulate Monitor	MIE Model PDM-3 mini-RAM	Aerosols, mist, dust, and fumes
Colorimetric Detector Tubes	Sensidyne Dräger	Benzene 0.5–10 ppm

16.0 DECONTAMINATION PROCEDURES

Decontamination Procedures:

Contamination may result from walking through contaminated soils or liquids, splashing liquids during sampling, or use of or contact with contaminated equipment.

Decontamination procedures for the following tasks will be observed onsite:

- **Soil Probe Sampling:** Dedicated, disposable equipment will be used to the extent practicable. If non-dedicated equipment is used, it will be decontaminated with a detergent wash and distilled water rinse before and between sampling.
- **Groundwater Sampling:** All non-dedicated equipment will be decontaminated with a detergent wash and distilled water rinse before and between sampling.
- **Shallow Soil Sampling:** When a hand auger is used during soil sampling, it will be decontaminated with a detergent wash and distilled water rinse before and between sampling.

HEALTH AND SAFETY PLAN
Former IU Health Hospital Parcels C&D, 608 W. Wylie St., Bloomington, Indiana 47403
BCA Environmental Consultants, LLC

- **PPE:** All contaminated, disposable clothing will be properly bagged for disposal and left onsite for proper disposal. The PPE may be added to the soil drums for disposal.

17.0 WASTE STORAGE/DISPOSAL

Investigation-derived Material Disposal:

The purge and decontamination water, and disposable protective gear are to be placed in 55 - gallon drums, labeled and stored on site pending the receipt of the laboratory analysis. Free product and contaminated water must remain on-site until the proper disposal method is determined.

The drums of investigative waste will be hauled by a contractor who will be subject to the provisions of this site health and safety plan. Waste disposal will be performed in a manor appropriate to the waste characteristic identified by waste profiling.

17.1 Spill Containment Program

No anticipated spills or releases of hazardous chemicals are associated with this project. Any spills will be contained and drummed for proper disposal.

18.0 DOCUMENTS EXPECTED TO BE COMPLETED

The Site Safety Officer will maintain a master Site Health and Safety Plan which will be updated with the Daily Log (Section 11.0) and daily sign in sheets. In the event that site conditions warrant updating this Site Health and Safety Plan, updated sections will be appended to this plan. The master Site Health and Safety Plan will be archived in the project file at the offices of BCA for ten years following the end of the project.

Other documents which will be maintained include field books, boring logs, groundwater sampling sheets, contractor provided MSDSs, and correspondence.

HEALTH AND SAFETY PLAN
Former IU Health Hospital Parcels C&D, 608 W. Wylie St., Bloomington, Indiana 47403
BCA Environmental Consultants, LLC

19.0 APPROVALS

I, the undersigned, attest that I am familiar with the contents of this Health and Safety Plan and do agree to administrate the procedures described herein.

Plan Prepared by:  Date: 12/08/2022

Plan Approved by:  Date: 12/08/2022

Health and Safety Officer:  Date: 12/08/2022

20.0 EMPLOYEE ACKNOWLEDGMENT

The designated BCA employee shall be responsible for informing all individuals entering the exclusion zone of the contents of this plan, and ensuring each person signs the employee acknowledgment form. By signing this form, individuals are recognizing the hazards present on site and the policies and procedures required to minimize exposure or adverse affects of these hazards.

I have read the site health and safety plan and have been briefed and fully understand all of the following aspects of the project:

Hazards associated with the project:

1. Personal protective equipment;
2. Emergency procedures/contacts;
3. Project team-member responsibilities; and,
4. Work zones and decontamination procedures.

I have undergone medical monitoring and have been respirator fit-tested in the last year.

Form must be signed each day on site.

Signature: _____ Date: _____

Signature: _____ Date: _____

Signature: _____ Date: _____

Signature: _____ Date: _____

Signature: _____ Date: _____

Signature: _____ Date: _____

Signature: _____ Date: _____

Signature: _____ Date: _____

Signature: _____ Date: _____

Signature: _____ Date: _____

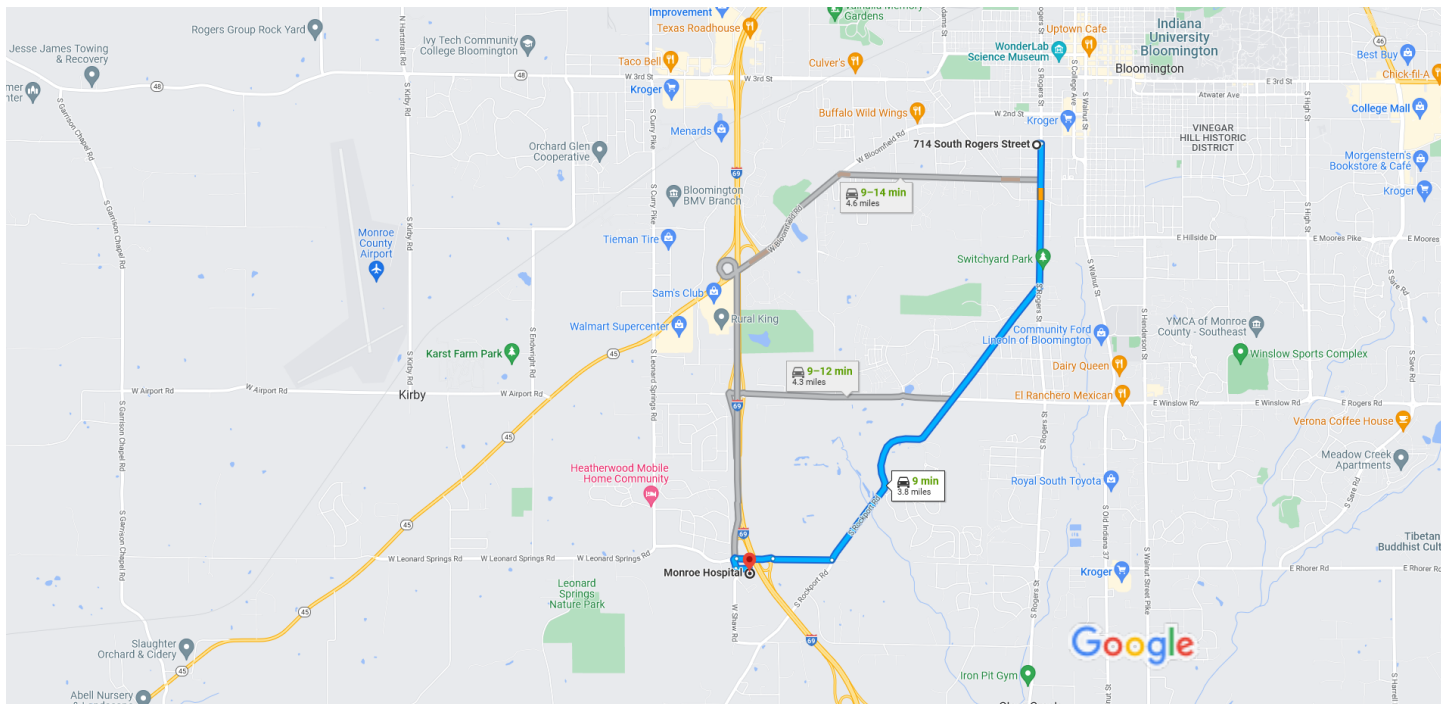
Signature: _____ Date: _____

Signature: _____ Date: _____


Signature: _____ Date: _____



714 S Rogers St, Bloomington, IN 47403 to Monroe Hospital, 4011 S Monroe Medical Park Blvd, Bloomington, IN 47403 Drive 3.8 miles, 9 min



Map data ©2022 Google 2000 ft

 via S Rockport Rd **typically 9 min**
3.8 miles

 via W Tapp Rd **typically 9–12 min**
4.3 miles

 via W Allen St and I-69 **typically 9–14 min**
4.6 miles

Explore Monroe Hospital



Restaurants



Hotels



Gas stations



Parking Lots



More

SITE HEALTH AND SAFETY PLAN

Former IU Health Hospital Parcels C&D, 608 W. Wylie St., Bloomington, Indiana 47403

1.0 GENERAL PROJECT INFORMATION

Prime Contractor:	BCA Environmental Consultants, LLC
Client:	City of Bloomington
Subject Site Name:	Former IU Health Hospital Parcels C&D
Site Address:	608 W. Wylie St., Bloomington, IN 47403
Principal: Project Manager:	John Kilmer Len Hinrichs
Date of Plan:	December 07, 2022

SITE DESCRIPTION

Type of Facility (describe):	Former Hospital Offices/Power Gen.
Active or Closed/Abandoned:	Closed/Abandoned
Describe surface features (buildings, paved or unpaved, overhead/underground utilities):	3 parcels, 6.15 acres, 11 structures, paved, underground and overhead utilities
List any site access restrictions:	None
Surrounding neighborhood description:	commercial/residential

SITE ACTIVITIES - The site activities covered by this HASP include those checked in the box below:

Site Activity	Soil Borings	Groundwater Probe Installation	Soil / Purge Water Disposal	Soil Excavation	Soil Sampling
Assessment					
Investigation	X	X	X		X
Remediation					

EMERGENCY PHONE NUMBERS

POSITION	NAME	CONTACT
Safety Officer	Rod Manny	© (765) 413-4750
Field Manager	Rod Manny	© (765) 413-4750
Field Technician	Chris Jones	© (317) 938-5565
Industrial Services	To be determined	To be determined
Subcontractors: List all names of Subcontractors	TBD	TBD
Hospital Name	Monroe Hospital	(812) 825-0823
Hospital Address	4011 S. Monroe Medical Park Blvd., Bloomington, IN 47403	
Hospital Phone	(812) 825-0823	
Directions to nearest Hospital	See attached map	
Fire and Emergency	Call 911	
EPA Hotline:	1-800- 621-3191	

2.0. INTRODUCTION/SCOPE OF WORK

This plan provides health and safety guidelines for site investigation and remediation activities conducted by BCA Environmental Consultants, LLC (BCA) to protect on-site personnel, visitors and the public from physical harm and exposure to hazardous materials and/or wastes. The procedures and guidelines contained herein are based on the best available information at the time of the plan's preparation. Specific requirements may be revised if new information is received, or site conditions change. It is the responsibility of the field personnel to evaluate the site work conditions and if in doubt about safety or an operation, request assistance from the Site Safety Officer. Compliance with this plan is mandatory for all on-site BCA personnel and subcontractors.

Operations at the site may require additional tasks not identified in the preparation of this health and safety plan (HASP). Before performing any task not covered in this HASP a revision must be prepared and approved by the Site Safety Officer (SSO).

2.1 Scope of Work

Scope of work for the investigation at the site includes:

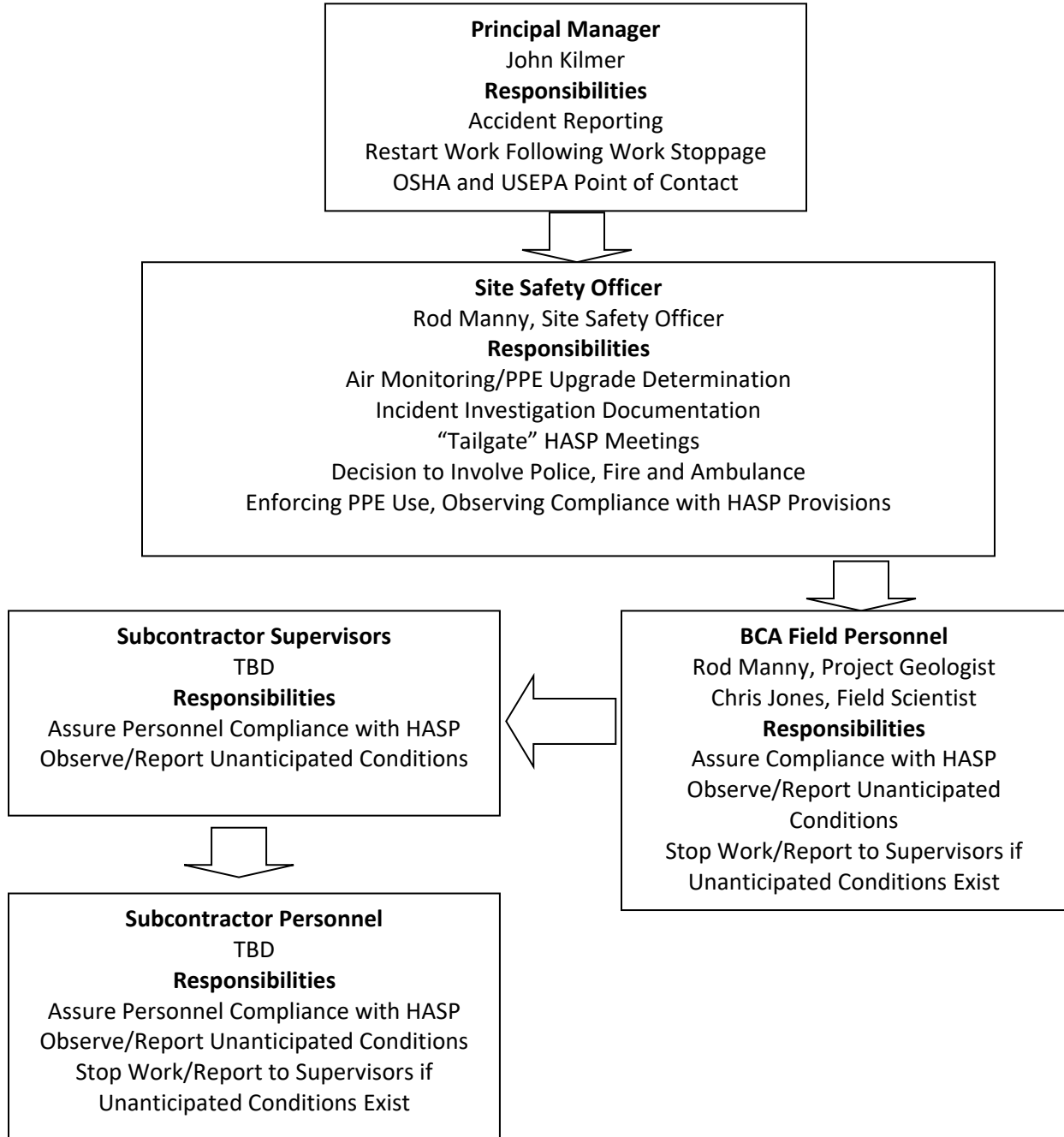
- Geophysical Survey
- Install soil/groundwater probes
- Sample groundwater
- Sample soil

3.0 PERSONNEL CONTACT INFORMATION AND PHONE NUMBERS

The BCA SSO will have the authority to alter work practices, stop work, and/or allocate resources to mitigate unsafe work practices. All personnel have the authority to stop any work practice that may endanger site personnel or the general public. Restarting work will be done in consultation with the SSO. The following personnel and subcontractor resources will be used on this site:

POSITION	NAME	CONTACT
Safety Officer	Rod Manny	© (765) 413-4750
Field Manager	Rod Manny	© (765) 413-4750
Field Technician	Chris Jones	© (317) 938-5565
Excavation Services	To be determined	To be determined
Remediation Services	To be determined	To be determined
Subcontractors: List all names of subcontractors to be used for site activities	To be determined	To be determined

TABLE OF AUTHORITY



4.0 EMERGENCY INFORMATION/RESPONSE

The purpose of this section is to provide the on-site user with contact and location information to be used in case of an emergency response situation. In case of an emergency on-site, **CALL 911** first and **NOTIFY** the site operator (if available). Then contact the BCA project manager and Site Safety Officer for this site.

EMERGENCY PHONE NUMBERS

Hospital Name	Monroe Hospital
Hospital Address	4011 S. Monroe Medical Park Blvd., Bloomington, IN 47403
Hospital Phone Number	(812) 825-0823
Directions to nearest Hospital	See attached map
Fire and Emergency	Call 911
EPA Hotline:	1-800- 621-3191
National Response Center	1-800-424-8802
TSCA HOTLINE	1-800-424-9065
Poison Control Center	1-800-382-9097
CHEMTREC	1-800-424-9300
National Pesticide Center	1-800-858-7378

5.0 STANDARD EMERGENCY PROCEDURES

5.1 Hazard Communication

Any organization wishing to bring any hazardous material onto any BCA-controlled work site must first provide a copy of the item's Material Safety Data Sheet (MSDS) to the Site Safety Officer for approval and filing (the Site Safety Officer will maintain copies of all MSDSs on site). MSDSs may not be available for locally-obtained products, in which case some alternate form of product hazard documentation will be acceptable. All personnel shall be briefed on the hazards of any chemical product they use and shall be aware of and have access to all MSDSs. All containers on site shall be properly labeled to indicate their contents. Labeling on any containers not intended for single-day, individual use shall contain additional information indicating potential health and safety hazards (flammability, reactivity, etc.).

The Hazard Communication standard (29 CFR 1910.1200) has been provided to employees, and a written copy is on file at BCA's office.

5.2 Confined Space Entry

There is no expectation that a confined space will be entered during this project.

6.0. PERSONNEL TRAINING RECORDS

All personnel working within the exclusion zone are required to have 40-hour HAZWOPPER training and be current with refresher training in accordance with 29CFR 1910.120.

7.0 KNOWN OR ANTICIPATED HAZARDS

7.1 General Safety Rules

Housekeeping

During site activities, work areas will be continuously policed for identification of excess trash and unnecessary debris. Excess debris and trash will be collected and stored in an appropriate container (e.g., plastic trash bags, garbage can, roll-off bin) prior to disposal. At no time will debris or trash be intermingled with waste PPE or contaminated materials.

Smoking, Eating, or Drinking

Smoking, eating and drinking will not be permitted inside any controlled work area at any time. Field workers will first wash hands and face immediately after leaving controlled work areas (and always prior to eating or drinking). Consumption of alcoholic beverages is prohibited at any BCA-controlled site.

Personal Hygiene

The following personal hygiene requirements will be observed:

Water Supply: A water supply adhering to the following requirements will be utilized:

- An adequate supply of potable water will be available for field personnel consumption.
- Potable water can be provided in the form of water bottles, canteens, water coolers, or drinking fountains. Where drinking fountains are not available, individual-use cups will be provided as well as adequate disposal containers. Potable water containers will be properly identified in order to distinguish them from non-potable water sources.
- Non-potable water may be used for hand washing and cleaning activities. Nonpotable water will not be used for drinking purposes. All containers of non-potable water will be marked with a label stating:

Non-Potable Water
Not Intended for Drinking Water Consumption

Toilet Facilities:

- A minimum of one toilet will be provided for every 20 personnel on site, with separate toilets maintained for each sex except where there are less than 5 total personnel on site. For mobile crews where work activities and locations permit transportation to nearby toilet facilities on-site facilities are not required.

Washing Facilities:

- Employees will be provided washing facilities (e.g., buckets with water and Alconox) at each work location. The use of water and hand soap (or similar substance) will required by all employees following exit from the Exclusion Zone, prior to breaks, and at the end of daily work activities.

Buddy System

All field personnel will use the buddy system when working within any controlled work area. Personnel belonging to another organization on site can serve as "buddies" for BCA

HEALTH AND SAFETY PLAN
Former IU Health Hospital Parcels C&D, 608 W. Wylie St., Bloomington, Indiana 47403
BCA Environmental Consultants, LLC

personnel. Under no circumstances will any employee be present alone in a controlled work area.

7.2 Heat and Cold Stress

Heat and cold stress may vary based upon work activities, PPE/clothing selection, geographical locations, and weather conditions. To reduce the potential of developing heat/cold stress, be aware of the signs and symptoms of heat/cold stress and watch fellow employees for signs of heat/cold stress.

Heat stress can be a significant field site hazard, particularly for non-acclimated personnel operating in a hot, humid environment. Site personnel will be instructed in the identification of a heat stress victim, the first-aid treatment procedures for the victim and the prevention of heat stress casualties. Work-rest cycles will be determined, and the appropriate measures taken to prevent heat stress.

7.3 Responding to Heat-Related Illness

The guidance below will be used in identifying and treating heat-related illness.

Heat- Related Illness	Description	First Aid
Mild Heat Strain	The mildest form of heat-related illness. Victims exhibit irritability, lethargy, and significant sweating. The victim may complain of headache or nausea. This is the initial stage of overheating, and prompt action at this point may prevent more severe heat-related illness from occurring.	<ul style="list-style-type: none"> • Provide the victim with a work break during which he/she may relax, remove any excess protective clothing, and drink cool fluids. • If an air-conditioned spot is available, this is an ideal break location. • Once the victim shows improvement, he/she may resume working; however, the work pace should be moderated to prevent recurrence of the symptoms.
Heat Exhaustion	Usually begins with muscular weakness and cramping, dizziness, staggering gait, and nausea. The victim will have pale, clammy moist skin and may perspire profusely. The pulse is weak and fast and the victim may faint unless they lie down. The bowels may move involuntarily.	<ul style="list-style-type: none"> • Immediately remove the victim from the work area to a shady or cool area with good air circulation (avoid drafts or sudden chilling). • Remove all protective outerwear. • Call a physician. • Treat the victim for shock. (Make the victim lie down, raise his or her feet 6–12 inches, and keep him or her cool by loosening all clothing).

HEALTH AND SAFETY PLAN
Former IU Health Hospital Parcels C&D, 608 W. Wylie St., Bloomington, Indiana 47403
BCA Environmental Consultants, LLC

Heat Stroke	The most serious of heat illness, heat stroke represents the collapse of the body's cooling mechanisms. As a result, body temperature may rise to 104 degrees Fahrenheit or higher. As the victim progresses toward heat stroke, symptoms such as headache, dizziness, nausea can be noted, and the skin is observed to be dry, red, and hot. Sudden collapse and loss of consciousness follows quickly and death is imminent if exposure continues. Heat stroke can occur suddenly	<ul style="list-style-type: none"> • Immediately evacuate the victim to a cool and shady area. • Remove all protective outerwear and as much personal clothing as decency permits. • Lay the victim on his or her back with the feet slightly elevated. • Apply cold wet towels or ice bags to the head, armpits, and thighs. • Sponge off the bare skin with cool water or rubbing alcohol, if available. • The main objective is to cool without chilling the victim. • Give no stimulants or hot drinks. • Since heat stroke is a severe medical condition requiring professional medical attention, emergency medical help should be summoned immediately to provide onsite treatment of the victim and proper transport to a medical facility.
-------------	---	---

8.0 PHYSICAL HAZARDS AND MITIGATION PROCEDURES

Safe work practices in compliance with OSHA standards and this document will be used at all times. The first aid kit and fire extinguisher are to be on site at all times. The following table lists the anticipated hazards and the associated safety rules for proper control.

Hazard Description	Potential Result	Control Measure
Tool Handling	Cuts, contusions, bruises	Wear gloves, steel-toed boots and safety glasses
Vehicle Traffic	Impact, getting struck by vehicle	Set up safety cones around well being sampled. Communicate activities with any onsite personnel. Wear reflective vest. Use truck or van as a shield if possible. Set up snow fence for each location where pedestrian walkways are affected and cover all openings or secure with snow fence during all breaks or overnight.
Heat/Cold	Heat stress/frostbite	Heat: Take frequent breaks and drink plenty of fluids. Watch for signs/symptoms of heat stress (fainting, dizziness, excessive sweating) Cold: Wear several layers of clothing, do not work in excessive cold, take frequent breaks.
Slip, trip and fall	Bruising, sprained ankle/foot/knee	Be aware of surroundings and practice good housekeeping measures around the site area to minimize items that pose a trip hazard.
Splash	Exposure to contaminants in the groundwater – dermal and/or eye	Wear gloves and safety glasses during purging of well and sample collection.
Hazardous Energy Control	Personal injury, electrocution	Use lockout/tagout controls to ensure that hazardous energy sources (electrical) are controlled prior to valve removal activities, including electrical and water pressure. All underground utilities should be marked prior to intrusive activities. A site walk-through should identify all overhead power lines.
Heavy Equipment	Struck by	Keep aware of the location of heavy equipment at

HEALTH AND SAFETY PLAN
Former IU Health Hospital Parcels C&D, 608 W. Wylie St., Bloomington, Indiana 47403
BCA Environmental Consultants, LLC

		all times. If overhead activities are taking place (drilling, digging) hard hats will be used.
Fire and Explosion	Flammable vapors from petroleum may ignite	Monitor for the presence of flammable vapors with an explosimeter. Fire extinguishers should be available. Evacuate the area immediately, call 911 and evaluate the situation.
Noise/Hearing Protection	Active drilling and other processes may exceed noise exposure standard of 85 decibels	Wear appropriate hearing protection.
Biological Hazards	Poisonous vegetation and/or stinging/biting insects or animals	Keep aware of surroundings and if bite or sting takes place seek first aid and/or medical attention

9.0. CHEMICAL HAZARDS POTENTIALLY ON SITE

9.1 Waste Characterization

Potential hazards for each of the tasks presented below are assessed. As work items are being performed, continued monitoring and observation will be used to determine if conditions change. Site Safety Officer will be responsible for continued assessment, and work practice modification in the event that unsafe work practices are observed. The following site activities are anticipated:

- Install groundwater probes
- Sample groundwater
- Sample soil

9.2 Hazard Evaluation

Chemicals of Concern: Identify all chemicals that are present or suspected to be present on site and the maximum concentrations detected in soil or water.

Chemical Name	TLV/PEL (8-hour TWA exposure limit for inhalation exposure in breathing zone)	Maximum Concentration in Soil (mg/kg or ppm)	Maximum Concentration in Water (mg/l or ppm)	Health Hazard/Comments
VOCs	Varies	TBD	TBD	Varies
PAHs	Varies	TBD	TBD	Varies
Metals	Varies	TBD	TBD	Varies

Is free product onsite? Yes No Unsure

Will work tasks be performed inside buildings/enclosures? Yes No

Is there evidence that contaminants present could cause vapor problems in structures on-site?
 Yes No Unsure

If Yes, is building mechanically ventilated? Yes No

10.0 BIOLOGICAL HAZARDS AND MITIGATION PROCEDURES

Contact with animals, insects, and plants can cause injury and illness to personnel. Care must be taken to ensure that these types of injuries are avoided. Some examples of biological hazards include:

- Wild animals, such as snakes, raccoons, squirrels, and rats. These animals not only can bite and scratch, but can carry transmittable diseases (e.g., rabies). Avoid the animals whenever possible. If bitten, go to the nearest medical facility.
- Insects such as mosquitoes, ticks, bees, and wasps. Mosquitoes can potentially carry and transmit the West Nile Virus or Eastern Equine Encephalitis (EEE). Ticks can transmit Lyme disease or Rocky Mountain Spotted Fever. Bees and wasps can sting by injecting venom, which causes some individuals to experience anaphylactic shock (an extreme allergic reaction). Whenever you will enter areas that provide a habitat for insects (e.g., grass areas, woods), wear light-colored clothing, long pants and shirt, and spray exposed skin areas with a DEET-containing repellent. Keep away from high grass wherever possible. Keep your eyes and ears open for bee and wasp nests. If bitten by insects, see a doctor if there is any question of an allergic reaction.
- Plants such as poison ivy and poison oak can cause severe rashes on exposed skin. Be careful where you walk, wear long pants, and minimize touching exposed skin with your hands after walking through thickly vegetated areas until after you have thoroughly washed your hands with soap and water.

11.0 ADDITIONAL HAZARDS

The following daily log should be filled out whenever an unexpected hazard is encountered. Include injuries, PPE used, or work stoppages caused by unsafe conditions.

Hazard Observed	Date	Observed by (Print Name)	Mitigation Taken/PPE Used

12.0 LIST OF FIELD ACTIVITIES

The following is a list of field activities anticipated for this project:

- The first field activity in this investigation will be utility location. Because this is not an invasive activity, this Site Health and Safety Plan will not be applied to the utility locating contractor.
- Pre-marking groundwater probe locations will be performed by BCA. This is also not an invasive activity and no hazards are anticipated.
- Geophysical Survey. This is not an invasive activity and no hazards are anticipated. This activity will be performed by a subcontractor and overseen by BCA.
- Groundwater probe installation. This activity will be performed by BCA in the pre-marked areas.
- Groundwater sampling. This activity will be performed by BCA.
- Soil sampling. This activity will be performed by BCA.

13.0 SITE DESCRIPTION

Type of Facility (describe):	Warehouse
Active or Closed/Abandoned:	Closed/Abandoned
Describe Surface Features (buildings, paved or unpaved, overhead/underground utilities):	3 parcels, 6.15 acres, 11 structures, paved, underground and overhead utilities
List Any Site Access Restrictions:	None
Surrounding Neighborhood Description:	Mixed commercial & residential

14.0 PERSONNEL PROTECTIVE GEAR/ENGINEERING CONTROLS

14.1 Personnel Protective Gear

Level D:

Soil concentrations in previous investigations are not expected to cause health risks if handled carefully. Sampling can be performed using modified Level D protection. The following items are needed for modified Level D.

- Hard hat (for overhead hazard activities)
- Steel-toe work boots
- Coveralls and/or long pants with short sleeved shirts (at a minimum)
- Eye protection when a splash hazard exists
- Hearing protection during active drilling or other loud operations
- Nitrile gloves for sampling and/or contact with soil and groundwater.

Modifications:

Modifications to this level of protection will be made if site conditions and/or contamination levels warrant an upgrade in protection level.

Level C:

If site conditions warrant, an upgrade to level C will be made if air monitoring equipment indicates respiratory protection is required. Air-purifying respirators with organic vapor cartridges will be used in this situation. The MSDS for that substance shall be consulted to determine the appropriate personal protective equipment (i.e. chemical resistant coveralls/gloves, chemical goggles, respiratory protection).

Surveillance Equipment and Materials:

Photo Ionization Detector

Work Limitations (Time of Day, etc.):

All sampling operations will be conducted during daylight hours. No smoking or eating during soil handling procedures.

14.1.1 PPE Donning and Doffing Information

The following information is to provide field personnel with helpful hints that, when applied, make donning and doffing of PPE a safe and manageable task:

- Never cut disposable booties from your feet with basic utility knives. This has resulted in workers cutting through the bootie and the underlying sturdy leather work boot, resulting in significant cuts to the legs/ankles. Recommend using a pair of scissors or a package/letter opener (cut above and parallel with the work boot) to start a cut in the edge of the bootie, then proceed by manually tearing the material down to the sole of the bootie for easy removal.

HEALTH AND SAFETY PLAN
Former IU Health Hospital Parcels C&D, 608 W. Wylie St., Bloomington, Indiana 47403
BCA Environmental Consultants, LLC

- When applying duct tape to PPE interfaces (wrist, lower leg, around respirator, etc.) and zippers, leave approximately one inch at the end of the tape to fold over onto itself. This will make it much easier to remove the tape by providing a small handle to grab while still wearing gloves. Without this fold, trying to pull up the tape end with multiple gloves on may be difficult and result in premature tearing of the PPE.
- Have a “buddy” check your ensemble to ensure proper donning before entering controlled work areas. Without mirrors, the most obvious discrepancies can go unnoticed and may result in a potential exposure situation.
- Never perform personal decontamination with a pressure washer.

14.2 Medical Surveillance Requirements

All personnel must have completed the appropriate medical monitoring requirements as specified in 29 CFR 1910.120. Documentation of medical monitoring is the responsibility of each employer.

14.3 Engineering Control

The engineering control to prevent pedestrian/general population from exposure to hazards at the work site is Site Control.

14.3.1 Site Control Measures

Site controls establish the hazardous area perimeter and prevent access or exposure by unauthorized personnel or the public. The site map is attached to the Field Instructions and is incorporated as part of the HASP. The “buddy system” is to be used throughout those site operations that require it.

Site Entry Procedures: Notify property owner before mobilizing to the site.

Perimeter establishment/identification: Area of site east of the building will be work zone perimeter. See site map and field instructions attached.

An exclusion zone, contamination reduction zone and support zone will be identified for each site activity.

14.3.2 Emergency First Aid Procedures

If eye irritation, nausea, vomiting, dizziness, unusual odors or any other unusual mental or physical sensations are noticed, seek medical assistance.

Inhalation: Move person to fresh air, seek medical assistance.

Ingestion: Do not induce vomiting, seek medical attention.

Eyes: Flush with copious amounts of water.

Skin: Wash with soap and water.

15.0 AIR MONITORING REQUIREMENTS

Where VOC's are present, all soil samples will be field screened for semi-volatile organics using a photoionization detector (PID). During soil sample collection, it is expected that headspace gasses will be below the action level. However, during the course of soil sampling, if headspace gasses exceed 100 ppm, breathing zone monitoring will be conducted. If volatile gasses are detected in the breathing zone, the work activities will stop and breathing zone gasses will be monitored using the PID or one of the other detectors outlined below. Further work may be conducted after elimination of all ignition sources, increasing the monitoring frequency, or elevating the level of PPE.

Instrumentation Available for Higher Level Air Monitoring:

INSTRUMENT	MANUFACTURER/MODEL *	SUBSTANCES DETECTED
Photo Ionization Detector (PID)	RAE Systems mini-RAE Photovac Microtip HNu Model Hnu (10.2 eV Lamp)	Petroleum Hydrocarbons Organic Solvents
Flame Ionization Detector (FID)	Foxboro	Petroleum Hydrocarbons Organic Solvents
Combustible Gas Indicator (CGI) May Be Combined with Individual or Multi-gas Detectors.	TBD	Explosivity
Individual Gas Detectors	TBD	Oxygen (O ₂) Carbon Monoxide (CO) Hydrogen Sulfide (H ₂ S) Cyanide Gases (CN ₋)
Particulate Monitor	MIE Model PDM-3 mini-RAM	Aerosols, mist, dust, and fumes
Colorimetric Detector Tubes	Sensidyne Dräger	Benzene 0.5–10 ppm

16.0 DECONTAMINATION PROCEDURES

Decontamination Procedures:

Contamination may result from walking through contaminated soils or liquids, splashing liquids during sampling, or use of or contact with contaminated equipment.

Decontamination procedures for the following tasks will be observed onsite:

- **Soil Probe Sampling:** Dedicated, disposable equipment will be used to the extent practicable. If non-dedicated equipment is used, it will be decontaminated with a detergent wash and distilled water rinse before and between sampling.
- **Groundwater Sampling:** All non-dedicated equipment will be decontaminated with a detergent wash and distilled water rinse before and between sampling.
- **Shallow Soil Sampling:** When a hand auger is used during soil sampling, it will be decontaminated with a detergent wash and distilled water rinse before and between sampling.

HEALTH AND SAFETY PLAN
Former IU Health Hospital Parcels C&D, 608 W. Wylie St., Bloomington, Indiana 47403
BCA Environmental Consultants, LLC

- **PPE:** All contaminated, disposable clothing will be properly bagged for disposal and left onsite for proper disposal. The PPE may be added to the soil drums for disposal.

17.0 WASTE STORAGE/DISPOSAL

Investigation-derived Material Disposal:

The purge and decontamination water, and disposable protective gear are to be placed in 55 - gallon drums, labeled and stored on site pending the receipt of the laboratory analysis. Free product and contaminated water must remain on-site until the proper disposal method is determined.

The drums of investigative waste will be hauled by a contractor who will be subject to the provisions of this site health and safety plan. Waste disposal will be performed in a manor appropriate to the waste characteristic identified by waste profiling.

17.1 Spill Containment Program

No anticipated spills or releases of hazardous chemicals are associated with this project. Any spills will be contained and drummed for proper disposal.

18.0 DOCUMENTS EXPECTED TO BE COMPLETED

The Site Safety Officer will maintain a master Site Health and Safety Plan which will be updated with the Daily Log (Section 11.0) and daily sign in sheets. In the event that site conditions warrant updating this Site Health and Safety Plan, updated sections will be appended to this plan. The master Site Health and Safety Plan will be archived in the project file at the offices of BCA for ten years following the end of the project.

Other documents which will be maintained include field books, boring logs, groundwater sampling sheets, contractor provided MSDSs, and correspondence.

19.0 APPROVALS

I, the undersigned, attest that I am familiar with the contents of this Health and Safety Plan and do agree to administrate the procedures described herein.

Plan Prepared by:  Date: 12/08/2022

Plan Approved by:  Date: 12/08/2022

Health and Safety Officer:  Date: 12/08/2022

20.0 EMPLOYEE ACKNOWLEDGMENT

The designated BCA employee shall be responsible for informing all individuals entering the exclusion zone of the contents of this plan, and ensuring each person signs the employee acknowledgment form. By signing this form, individuals are recognizing the hazards present on site and the policies and procedures required to minimize exposure or adverse affects of these hazards.

I have read the site health and safety plan and have been briefed and fully understand all of the following aspects of the project:

Hazards associated with the project:

1. Personal protective equipment;
2. Emergency procedures/contacts;
3. Project team-member responsibilities; and,
4. Work zones and decontamination procedures.

I have undergone medical monitoring and have been respirator fit-tested in the last year.

Form must be signed each day on site.

Signature: Mal Zales Date: 2/1/23

Signature: Ellie J. KUSA Date: 2/1/23

Signature: Paul Murray Date: 2/1/23

Signature: Paul Murray Date: 2/2/23

Signature: _____ Date: _____

Signature: _____ Date: _____

Signature: _____ Date: _____

Signature: _____ Date: _____

Signature: _____ Date: _____

Signature: _____ Date: _____

Signature: _____ Date: _____

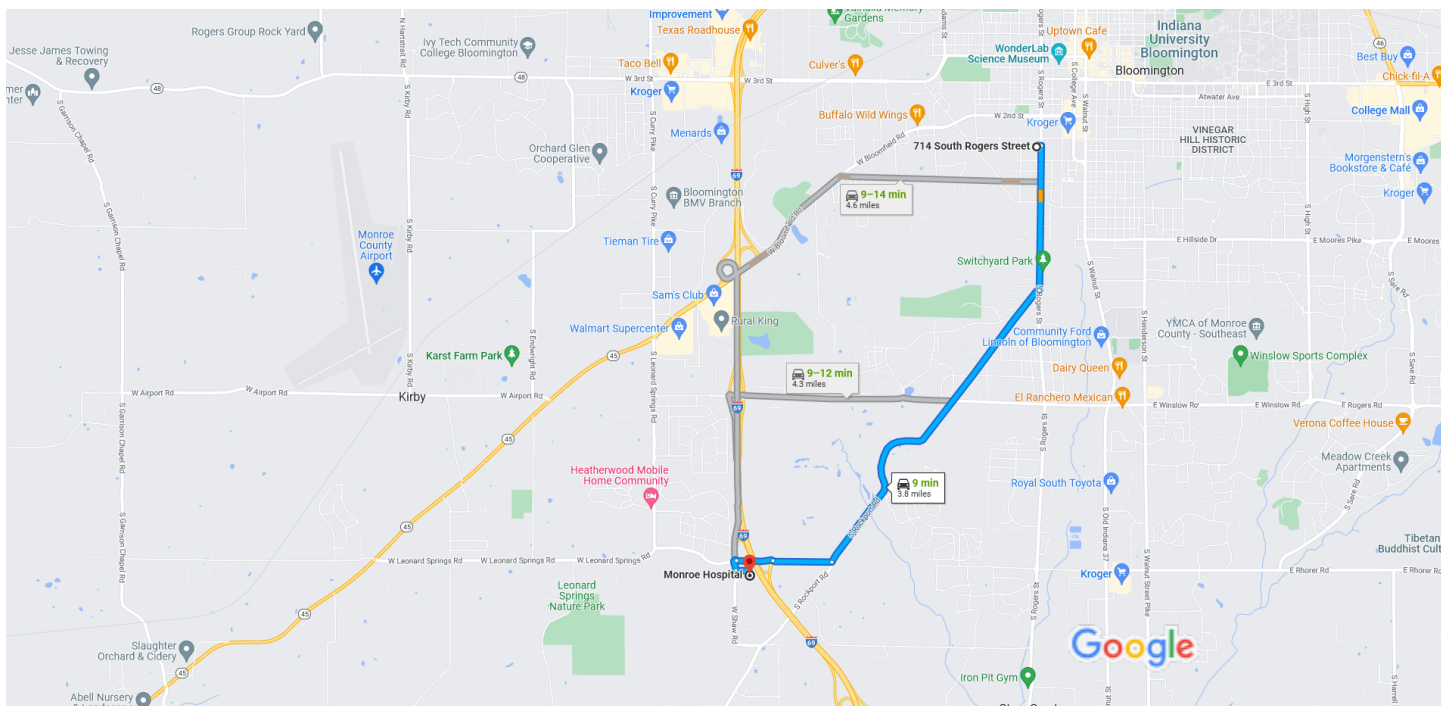
Signature: _____ Date: _____

Signature: _____ Date: _____

Handwritten signature
17



714 S Rogers St, Bloomington, IN 47403 to Monroe Hospital, 4011 S Monroe Medical Park Blvd, Bloomington, IN 47403 Drive 3.8 miles, 9 min



Map data ©2022 Google 2000 ft

 via S Rockport Rd **typically 9 min**
3.8 miles

 via W Tapp Rd **typically 9-12 min**
4.3 miles

 via W Allen St and I-69 **typically 9-14 min**
4.6 miles

Explore Monroe Hospital



Restaurants



Hotels



Gas stations



Parking Lots



More

Appendix B

Soil Boring Logs

IU Health (Parcels C & D)
608 W. Wylie St.
Bloomington, IN 47403



BCA Environmental Consultants, LLC
 7202 E 87th Street, Suite 110
 Indianapolis, IN 46256

BORING LOG

Borehole ID: SP-1

Sheet 1 of 1

Location 608 W. Wylie St.
 Bloomington, IN, 47403

Project Name Bloomington Hospital (Parcels C&D)		Project Number 22-227	Site Address 608 W. Wylie Street, Bloomington, IN, 47403	
Drilling Company Seratech		Driller Neil	Ground Elevation	Total Drilled Depth 6'
Drilling Equip Geoprobe	Drilling Method Direct Push	Borehole Dia 2.5"	Date Drilling Started/Completed 2/1/2023 2/1/2023	
Type of Sampling Device 5' Acetate Sleeve			Water Level (bgs)	
			Logged By: L. Routt	Checked by/Date L. Hinrichs / 03/16/2023

Location Description (include sketch in field logbook)
 Easting 539561.884 Northing 4334558.142

Depth	Interval	Description	Recovery	PID ppm	Remarks
0		Asphalt and black medium sand (fill) (SP)		0.0	
		Soft brown clay (CL)	50%	0.0	
		Stiff brown clay (CL)		0.0	
5		Refusal @ 6'		0.0	VOCs @ 6'
		Temporary well casing (1" ID w/ 5' screen) set at 6 feet. Casing removed and hole backfilled with granular bentonite.	15%		
10					
15					
20					
25					



BCA Environmental Consultants, LLC
 7202 E 87th Street, Suite 110
 Indianapolis, IN 46256

BORING LOG

Borehole ID: SP-2

Sheet 1 of 1

Location 608 W. Wylie St.
 Bloomington, IN, 47403

Project Name Bloomington Hospital (Parcels C&D)		Project Number 22-227	Site Address 608 W. Wylie Street, Bloomington, IN, 47403	
Drilling Company Seratech		Driller Neil	Ground Elevation	Total Drilled Depth 8'
Drilling Equip Geoprobe	Drilling Method Direct Push	Borehole Dia 2.5"	Date Drilling Started/Completed 2/1/2023 2/1/2023	
Type of Sampling Device 5' Acetate Sleeve			Water Level (bgs)	
			Logged By: L. Routt	Checked by/Date L. Hinrichs / 03/16/2023

Location Description (include sketch in field logbook)
 Easting 539659.673 Northing 4334514.775

Depth	Interval	Description	Recovery	PID ppm	Remarks
0		Asphalt and black fine sand (fill) (SP)	20%	0.0	VOCs @ 7'
		Brown sandy clay (CL)			
		Brown stiff clay (CL)	25%	0.0	
5		Red/yellow clay, stiff (CL)			
		Pulverized rock, limestone and fines	50%	0.0	
		Refusal @ 8'			
10		Temporary well casing (1" ID w/ 5' screen) set at 8 feet. Casing removed and hole backfilled with granular bentonite.			
15					
20					
25					



BCA Environmental Consultants, LLC
 7202 E 87th Street, Suite 110
 Indianapolis, IN 46256

BORING LOG

Borehole ID: SP-3

Sheet 1 of 1

Location 608 W. Wylie St.
 Bloomington, IN, 47403

Project Name Bloomington Hospital (Parcels C&D)		Project Number 22-227		Site Address 608 W. Wylie Street, Bloomington, IN, 47403	
Drilling Company Seratech		Driller Neil		Ground Elevation	
Drilling Equip Geoprobe		Drilling Method Direct Push		Borehole Dia 2.5"	
Type of Sampling Device 5' Acetate Sleeve		Date Drilling Started/Completed 2/1/2023			
				Water Level (bgs)	
		Logged By: L. Roult		Checked by/Date L. Hinrichs / 03/16/2023	

Location Description (include sketch in field logbook)
 Easting 539665.965 Northing 4334557.51

Depth	Interval	Description	Recovery	PID ppm	Remarks
0		Asphalt and fine black sand fill (SP)		0.0	
			80%	0.0	
5		Brown stiff clay (CL)		0.0	
			80%	0.0	
10		Red stiff clay (CL)		0.0	
			50%	0.0	
15		Brown stiff clay (CL)		0.0	
			95%	0.0	
20		Brown stiff clay (CL)		0.0	
			95%	0.0	
25		BOH @ 25'			VOCs @ 25'
		Temporary well casing (1" ID w/ 5' screen) set at 25 feet. Casing removed and hole backfilled with granular bentonite.			



BCA Environmental Consultants, LLC
 7202 E 87th Street, Suite 110
 Indianapolis, IN 46256

BORING LOG

Borehole ID: SP-4

Sheet 1 of 1

Location 608 W. Wylie St.
 Bloomington, IN, 47403

Project Name Bloomington Hospital (Parcels C&D)		Project Number 22-227		Site Address 608 W. Wylie Street, Bloomington, IN, 47403	
Drilling Company Seratech		Driller Neil		Ground Elevation 24'	
Drilling Equip Geoprobe		Drilling Method Direct Push		Borehole Dia 2.5"	
Type of Sampling Device 5' Acetate Sleeve		Date Drilling Started/Completed 2/1/2023		Water Level (bgs) 2/1/2023	
		Logged By: L. Routt		Checked by/Date L. Hinrichs / 03/16/2023	

Location Description (include sketch in field logbook)
 Easting 539727.643 Northing 4334536.75

Depth	Interval	Description	Recovery	PID ppm	Remarks
0		Concrete and gravel		0.0	
		Fine-coarse grey sand w/gravel (SW)			
		Pea gravel (GP) w/fines,(wet)	50%	0.0	petro odor
5					
			80%	0.0	VOCs @ 7'
				0.0	
10		Red stiff clay, dry (CL)		0.0	
			95%	0.0	
				0.0	
15				0.0	VOCs @ 16' + DUP
		Brown sandy clay, wet (CL)	80%	0.0	
				0.0	
20		Brown stiff clay (CL)		0.0	
			80%	0.0	
				0.0	
25		Refusal @ 24' Temporary well casing (1" ID w/ 5' screen) set at 24 feet. Casing removed and hole backfilled with granular bentonite.			



BCA Environmental Consultants, LLC
 7202 E 87th Street, Suite 110
 Indianapolis, IN 46256

BORING LOG

Borehole ID: SP-5

Sheet 1 of 1

Location 608 W. Wylie St.
 Bloomington, IN, 47403

Project Name Bloomington Hospital (Parcels C&D)		Project Number 22-227		Site Address 608 W. Wylie Street, Bloomington, IN, 47403	
Drilling Company Seratech		Driller Neil		Ground Elevation 12'	
Drilling Equip Geoprobe		Drilling Method Direct Push		Borehole Dia 2.5"	
Type of Sampling Device 5' Acetate Sleeve		Date Drilling Started/Completed 2/1/2023		Water Level (bgs) 2/1/2023	
Logged By: L. Routt				Checked by/Date L. Hinrichs / 03/16/2023	

Location Description (include sketch in field logbook)
 Easting 539731.478 Northing 4334556.415

Depth	Interval	Description	Recovery	PID ppm	Remarks
0		Concrete		0.0	
		No recovery	0%	0.0	
5		Moderately stiff brown clay (CL)	60%	0.0	
10		Red moderately stiff clay (CL)	90%	0.0	VOCs @ 11'
		Fine gray sand (SP)		0.0	
		Refusal @ 12'			
15		Temporary well casing (1" ID w/ 5' screen) set at 12 feet. Casing removed and hole backfilled with granular bentonite.			
20					
25					



BCA Environmental Consultants, LLC
 7202 E 87th Street, Suite 110
 Indianapolis, IN 46256

BORING LOG

Borehole ID: SP-6

Sheet 1 of 1

Location 608 W. Wylie St.
 Bloomington, IN, 47403

Project Name Bloomington Hospital (Parcels C&D)		Project Number 22-227	Site Address 608 W. Wylie Street, Bloomington, IN, 47403	
Drilling Company Seratech		Driller Neil	Ground Elevation	Total Drilled Depth 24.5'
Drilling Equip Geoprobe	Drilling Method Direct Push	Borehole Dia 2.5"	Date Drilling Started/Completed 2/1/2023 2/1/2023	
Type of Sampling Device 5' Acetate Sleeve			Water Level (bgs)	
			Logged By: L. Routt	Checked by/Date L. Hinrichs / 03/16/2023

Location Description (include sketch in field logbook)
 Easting 539776.925 Northing 4334560.909

Depth	Interval	Description	Recovery	PID ppm	Remarks
0		Asphalt and gravel		0.0	
		Tan silty fine sand w/gravel (SW)			
		Brown stiff clay (CL)	80%	0.0	
5				0.0	
			95%	0.0	
10				0.0	
		Red stiff clay (CL)	95%	0.0	
15				0.0	
			95%	0.0	
20				0.0	
		Fine gray sand (SP)	65%	0.0	VOCs @ 22' Wet @ 23'
25		Refusal @ 24.5'			
		Temporary well casing (1" ID w/ 5' screen) set at 24.5 feet. Casing removed and hole backfilled with granular bentonite.			



BCA Environmental Consultants, LLC
 7202 E 87th Street, Suite 110
 Indianapolis, IN 46256

BORING LOG

Borehole ID: SP-7

Sheet 1 of 1

Location 608 W. Wylie St.
 Bloomington, IN, 47403

Project Name Bloomington Hospital (Parcels C&D)		Project Number 22-227		Site Address 608 W. Wylie Street, Bloomington, IN, 47403	
Drilling Company Seratech		Driller Neil		Ground Elevation 25'	
Drilling Equip Geoprobe		Drilling Method Direct Push		Borehole Dia 2.5"	
Type of Sampling Device 5' Acetate Sleeve		Date Drilling Started/Completed 2/1/2023 2/1/2023			
Water Level (bgs)				Logged By: L. Routt	
				Checked by/Date L. Hinrichs / 03/16/2023	

Location Description (include sketch in field logbook)
 Easting 539774.894 Northing 4334523.667

Depth	Interval	Description	Recovery	PID ppm	Remarks
0		Gravel (GW)		0.0	
		Stiff brown clay (CL)	80%	0.0	
		Brown w/ red/yellow stiff clay (CL)			
5		Stiff red clay (CL)	100%	0.0	
				0.0	
10			100%	0.0	
				0.0	
15		Brown / Red stiff clay (CL) -dry	100%	0.0	
				0.0	
20			100%	0.0	
				0.0	
25		BOH @ 25' Temporary well casing (1" ID w/ 5' screen) set at 25 feet. Casing removed and hole backfilled with granular bentonite.			VOCs @ 25'



BCA Environmental Consultants, LLC
 7202 E 87th Street, Suite 110
 Indianapolis, IN 46256

BORING LOG

Borehole ID: SP-8

Sheet 1 of 1

Location 608 W. Wylie St.
 Bloomington, IN, 47403

Project Name Bloomington Hospital (Parcels C&D)		Project Number 22-227	Site Address 608 W. Wylie Street, Bloomington, IN, 47403	
Drilling Company Seratech		Driller Neil	Ground Elevation	Total Drilled Depth 16.5'
Drilling Equip Geoprobe	Drilling Method Direct Push	Borehole Dia 2.5"	Date Drilling Started/Completed 2/1/2023 2/1/2023	
Type of Sampling Device 5' Acetate Sleeve			Water Level (bgs)	
			Logged By: L. Routt	Checked by/Date L. Hinrichs / 03/16/2023

Location Description (include sketch in field logbook)
 Easting 539840.992 Northing 4334549.39

Depth	Interval	Description	Recovery	PID ppm	Remarks
0		Gravel (GW)		0.0	Petro odor w/wood chips
		Dark grey stiff clay (CL)	55%	0.0	
		Darker grey stiff clay (CL)			
5		Soft brown clay (CL)		0.0	
			100%	0.0	
				0.0	
10		Stiff red/yellow clay (CL)		0	
			100%	0.0	
			95%		
		Fine brown sand w/gravel (SP) - dry			
		Refusal @ 16.5'			
		Temporary well casing (1" ID w/ 5' screen) set at 16.5 feet. Casing removed and hole backfilled with granular bentonite.			
20					
25					



BCA Environmental Consultants, LLC
 7202 E 87th Street, Suite 110
 Indianapolis, IN 46256

BORING LOG

Borehole ID: SP-9

Sheet 1 of 1

Location 608 W. Wylie St.
 Bloomington, IN, 47403

Project Name Bloomington Hospital (Parcels C&D)		Project Number 22-227		Site Address 608 W. Wylie Street, Bloomington, IN, 47403	
Drilling Company Seratech		Driller Neil		Ground Elevation 25'	
Drilling Equip Geoprobe		Drilling Method Direct Push		Borehole Dia 2.5"	
Type of Sampling Device 5' Acetate Sleeve		Date Drilling Started/Completed 2/1/2023 2/1/2023			
Water Level (bgs)				Logged By: L. Routt	
				Checked by/Date L. Hinrichs / 03/16/2023	

Location Description (include sketch in field logbook)
 Easting 539836.055 Northing 4334496.866

Depth	Interval	Description	Recovery	PID ppm	Remarks
0		Asphalt + Gray clay w/gravel (fill)		0.0	
		Brown clay w/gravel, stiff (CL)	75%		
		Brown / red clay, stiff (CL)		0.0	
5		Brown clay, moderately stiff (CL)	95%	0.0	
				0.0	
10			95%	0.0	
				0.0	
15		Brown / red clay, stiff (CL)	95%	0.0	
				0.0	
20			95%	0.0	
				0.0	
25		BOH @ 25' Temporary well casing (1" ID w/ 5' screen) set at 25 feet. Casing removed and hole backfilled with granular bentonite.			VOCs @ 25'



BCA Environmental Consultants, LLC
 7202 E 87th Street, Suite 110
 Indianapolis, IN 46256

BORING LOG

Borehole ID: SP-10

Sheet 1 of 1

Location 608 W. Wylie St.
 Bloomington, IN, 47403

Project Name Bloomington Hospital (Parcels C&D)		Project Number 22-227	Site Address 608 W. Wylie Street, Bloomington, IN, 47403	
Drilling Company Seratech		Driller Neil	Ground Elevation	Total Drilled Depth 5'
Drilling Equip Geoprobe	Drilling Method Direct Push	Borehole Dia 2.5"	Date Drilling Started/Completed 2/1/2023 2/1/2023	
Type of Sampling Device 5' Acetate Sleeve			Water Level (bgs)	
			Logged By: L. Routt	Checked by/Date L. Hinrichs / 03/16/2023

Location Description (include sketch in field logbook)
 Easting 539790.976 Northing 4334512.093

Depth	Interval	Description	Recovery	PID ppm	Remarks
0		Gravel, fine-coarse (GW)	80%	0.0	
		Dark grey clay (CL)			
		Brown stiff clay (CL)			
		Brown / red clay, stiff (CL)			
5		BOH @ 5'		0.0	
		Hole backfilled with granular bentonite.			
10					
15					
20					
25					



BCA Environmental Consultants, LLC
 7202 E 87th Street, Suite 110
 Indianapolis, IN 46256

BORING LOG

Borehole ID: SP-11

Sheet 1 of 1

Location 608 W. Wylie St.
 Bloomington, IN, 47403

Project Name Bloomington Hospital (Parcels C&D)		Project Number 22-227	Site Address 608 W. Wylie Street, Bloomington, IN, 47403	
Drilling Company Seratech		Driller Neil	Ground Elevation	Total Drilled Depth 5'
Drilling Equip Geoprobe	Drilling Method Direct Push	Borehole Dia 2.5"	Date Drilling Started/Completed 2/1/2023 2/1/2023	
Type of Sampling Device 5' Acetate Sleeve			Water Level (bgs)	
			Logged By: L. Routt	Checked by/Date L. Hinrichs / 03/16/2023

Location Description (include sketch in field logbook)
 Easting 539743.882 Northing 4334471.628

Depth	Interval	Description	Recovery	PID ppm	Remarks
0		Fine sand w/gravel (fill) (SP)		0.0	petro odor
		Dark grey clay, stiff (CL)	80%		
		Brown clay, stiff (CL)			
		Red/yellow clay, stiff (CL)		0.0	
5		BOH @ 5'			
		Hole backfilled with granular bentonite.			
10					
15					
20					
25					



BCA Environmental Consultants, LLC
 7202 E 87th Street, Suite 110
 Indianapolis, IN 46256

BORING LOG

Borehole ID: SP-12

Sheet 1 of 1

Location 608 W. Wylie St.
 Bloomington, IN, 47403

Project Name Bloomington Hospital (Parcels C&D)		Project Number 22-227	Site Address 608 W. Wylie Street, Bloomington, IN, 47403	
Drilling Company Seratech		Driller Neil	Ground Elevation	Total Drilled Depth 5'
Drilling Equip Geoprobe	Drilling Method Direct Push	Borehole Dia 2.5"	Date Drilling Started/Completed 2/1/2023 2/1/2023	
Type of Sampling Device 5' Acetate Sleeve			Water Level (bgs)	
			Logged By: L. Routt	Checked by/Date L. Hinrichs / 03/16/2023

Location Description (include sketch in field logbook)
 Easting 539699.7 Northing 4334494.547

Depth	Interval	Description	Recovery	PID ppm	Remarks
0		Asphalt + Black sand (fill) (SP)		0.0	
		Reddish clay, stiff (CL)	80%	0.0	
5		BOH @ 5' Hole backfilled with granular bentonite.			
10					
15					
20					
25					



BCA Environmental Consultants, LLC
 7202 E 87th Street, Suite 110
 Indianapolis, IN 46256

BORING LOG

Borehole ID: SP-13

Sheet 1 of 1

Location 608 W. Wylie St.
 Bloomington, IN, 47403

Project Name Bloomington Hospital (Parcels C&D)		Project Number 22-227	Site Address 608 W. Wylie Street, Bloomington, IN, 47403	
Drilling Company Seratech		Driller Neil	Ground Elevation	Total Drilled Depth 25'
Drilling Equip Geoprobe	Drilling Method Direct Push	Borehole Dia 2.5"	Date Drilling Started/Completed 2/1/2023 2/1/2023	
Type of Sampling Device 5' Acetate Sleeve			Water Level (bgs)	
			Logged By: L. Routt	Checked by/Date L. Hinrichs / 03/16/2023

Location Description (include sketch in field logbook)
 Easting 539605.603 Northing 4334515.252

Depth	Interval	Description	Recovery	PID ppm	Remarks
0		Fine sand w/gravel (fill) (SP)	50%	1.1	petro odor
		Dark gray clay, stiff (CL)			
		Brown clay, stiff (CL)			
		Red/yellow clay, stiff (CL)			
5		BOH @ 5'			
		Hole backfilled with granular bentonite			
10					
15					
20					
25					

Appendix C

GPS Coordinate Data

IU Health (Parcels C & D)
608 W. Wylie St.
Bloomington, IN 47403

GPS Data Table

Site/Facility Name: **Hospital Parcels C - D**
 Site Location: **608 W. Wylie St., Bloomington, IN, 47403**
 Site/Facility ID: _____
 OLQ Program: _____
 Purpose of Data Collection: **Soil Sample Locations**

 Data Collector Name: **Rod Manny, Lillian Routt**
 Data Processor Name: **David Scovel, LPG**

 Projection: **UTM Zone 16N**
 Datum: **NAD 83 (CORS96)**
 Units: **Meters**
 GPS Receiver Brand/Model: **Nomad 900 G**
 Receiver Type: **Mapping Grade GPS**

Point Type	Name	Depth Feet	Refusal (Bedrock)	Groundwater Obtained	Description/Notes	Max PDOP	Correction Method	Instrument	Date	Time	Data File Name	Total Positions	Vert Precision	Horiz Precision	Standard Deviation	Easting meters	Northing meters	HAE meters
Probes	SP- 1	6	Y	N		5.2	Uncorrected	Nomad	2/2/2023	11:18:32am	BLOOMINGTON HOSPITAL.cor	196	1.2	2.1	1.070545	539561.884	4334558.142	241.937
Probes	SP- 2	8	Y	N		4.4	Uncorrected	Nomad	2/2/2023	11:27:59am	BLOOMINGTON HOSPITAL.cor	185	1.7	3	2.579396	539659.673	4334514.775	242.213
Probes	SP- 3	25	N	N		4.3	Postprocessed Code	Nomad	2/2/2023	11:54:13am	BLOOMINGTON HOSPITAL.cor	202	0.8	1.6	1.201085	539665.965	4334557.51	244.403
Probes	SP- 4	24	Y	N		4.6	Postprocessed Code	Nomad	2/2/2023	11:43:31am	BLOOMINGTON HOSPITAL.cor	311	1	2	2.974024	539727.643	4334536.75	249.488
Probes	SP- 5	12	Y	N		6.7	Real-time SBAS Corrected	Nomad	2/2/2023	11:48:56am	BLOOMINGTON HOSPITAL.cor	195	1.1	2.7	2.510221	539731.478	4334556.415	246.26
Probes	SP- 6	24.5	Y	N		3.7	Postprocessed Code	Nomad	2/2/2023	12:02:32pm	BLOOMINGTON HOSPITAL.cor	292	0.8	1.8	1.300468	539776.925	4334560.909	239.095
Probes	SP- 7	25	N	N		2.8	Postprocessed Code	Nomad	2/2/2023	12:08:18pm	BLOOMINGTON HOSPITAL.cor	186	0.9	1.9	3.649514	539774.894	4334523.667	240.82
Probes	SP- 8	16.5	Y	N		2.5	Postprocessed Code	Nomad	2/2/2023	12:15:51pm	BLOOMINGTON HOSPITAL.cor	226	1	2	0.762425	539840.992	4334549.39	236.953
Probes	SP- 9	25	N	N		99.1	Postprocessed Code	Nomad	2/2/2023	12:21:30pm	BLOOMINGTON HOSPITAL.cor	237	1.3	2.7	1.858179	539836.055	4334496.866	236.412
Probes	SP- 10	5	N	N		3.4	Postprocessed Code	Nomad	2/2/2023	12:11:56pm	BLOOMINGTON HOSPITAL.cor	180	1	2.4	3.542547	539790.976	4334512.093	240.699
Probes	SP- 11	5	N	N		5.1	Postprocessed Code	Nomad	2/2/2023	11:38:05am	BLOOMINGTON HOSPITAL.cor	182	0.8	1.8	1.909321	539743.882	4334471.628	243.247
Probes	SP- 12	5	N	N		4.1	Postprocessed Code	Nomad	2/2/2023	11:34:18am	BLOOMINGTON HOSPITAL.cor	184	0.7	1.8	1.321383	539699.7	4334494.547	244.374
Probes	SP- 13	5	N	N		6.9	Postprocessed Code	Nomad	2/2/2023	11:23:04am	BLOOMINGTON HOSPITAL.cor	183	1.4	3.3	4.50438	539605.603	4334515.252	241.871
Monitoring Wells	MW- 1	--	--	N		3.4	Postprocessed Code	Nomad	2/2/2023	01:20:56pm	BLOOMINGTON HOSPITAL 2.cor	185	2.4	2.7	1.055178	539729.664	4334539.852	247.424
Monitoring Wells	MW- 2	--	--	N		21.2	Postprocessed Code	Nomad	2/2/2023	01:17:30pm	BLOOMINGTON HOSPITAL 2.cor	188	2.4	3.7	2.006778	539734.392	4334528.15	246.812

NAD83 (CORS96)
 Horizontal
 Continuously Operating Reference Stations Readjustment of NAD 83

Appendix D

Analytical Laboratory Reports

IU Health (Parcels C & D)
608 W. Wylie St.
Bloomington, IN 47403



Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 50336749

Project Overview

Final Report with COC/SCUR	1
Certifications	2
Sample Summary	3
Sample Analyte Count	4
Summary of Detection	7
Analytical Results	16
Quality Control Data	76
Qualifiers	94
Quality Control Data Cross Reference Table	96
Chain of Custody	99

Organic

GC-MS Volatiles

Surrogate Recovery Summary (Form 2)	106
Laboratory Control Spike/Laboratory Control Spike Duplicate Summary (Form 3)	108
Matrix Spike/Matrix Spike Duplicate Summary (Form 3)	110
Method Blank Association Summary (Form 4)	112
Instrument Performance Check (Form 5)	114
Internal Standard Area & Retention Time Summary (Form 8)	118
Initial Calibration (Form 6)	120
Continuing Calibration (Form 7)	138
Instrument Run Log	144

GC-MS SIM PAH

Surrogate Recovery Summary (Form 2)	150
Laboratory Control Spike/Laboratory Control Spike Duplicate Summary (Form 3)	152
Matrix Spike/Matrix Spike Duplicate Summary (Form 3)	154
Method Blank Association Summary (Form 4)	158
Internal Standard Area & Retention Time Summary (Form 8)	160
Initial Calibration (Form 6)	166
Continuing Calibration (Form 7)	169
Preparation Logs Raw Data	172
Instrument Run Log	175

InOrganic

ICP

Analytical Results (Form 1-IN)	182
Initial & Continuing Calibration Verification (Form 2A-IN)	200
CRDL Check Standard (Form 2B-IN)	205
Blanks (Form 3-IN)	208
Interference Check Sample (Form 4A-IN)	212
Matrix Spike Recovery (Form 5A-IN)	215
Post Digestion Spike Recovery (Form 5B-IN)	217

Duplicates (Form 6-IN)	218
Laboratory Control Spike (Form 7-IN)	219
Serial Dilution (Form 8-IN)	220
Linear Ranges (Form 11-IN)	221
Preparation Log (Form 12-IN)	222
Analysis Run Log (Form 13-IN)	223
Internal Standard Relative Intensity Summary (Form 15-IN)	227
Preparation Logs Raw Data	230
Mercury	
Analytical Results (Form 1-IN)	232
Initial & Continuing Calibration Verification (Form 2A-IN)	250
CRDL Check Standard (Form 2B-IN)	253
Blanks (Form 3-IN)	257
Matrix Spike Recovery (Form 5A-IN)	260
Duplicates (Form 6-IN)	266
Laboratory Control Spike (Form 7-IN)	269
Preparation Log (Form 12-IN)	271
Analysis Run Log (Form 13-IN)	273
Preparation Logs Raw Data	275
Gravimetric	
Analytical Results (Form 1-IN)	280
Duplicates (Form 6-IN)	309
Preparation Log (Form 12-IN)	315
Analysis Run Log (Form 13-IN)	318
Percent Moisture Determination Raw Data	319

February 20, 2023

Rod Manny
BCA Environmental Consultants, LLC
7202 E 87th St
Suite 110
Indianapolis, IN 46256

RE: Project: Hospital #22-286
Pace Project No.: 50336749

Dear Rod Manny:

Enclosed are the analytical results for sample(s) received by the laboratory on February 03, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis

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

Sincerely,



Regina Bedel
regina.bedel@pacelabs.com
(317)228-3100
Project Manager

Enclosures

cc: Mark Edmonson, BCA Environmental Consultants, LLC



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: Hospital #22-286

Pace Project No.: 50336749

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268

Illinois Accreditation #: 200074

Indiana Drinking Water Laboratory #: C-49-06

Kansas/TNI Certification #: E-10177

Kentucky UST Agency Interest #: 80226

Kentucky WW Laboratory ID #: 98019

Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065

Oklahoma Laboratory #: 9204

Texas Certification #: T104704355

Wisconsin Laboratory #: 999788130

USDA Foreign Soil Permit #: 525-23-13-23119

USDA Compliance Agreement #: IN-SL-22-001

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE SUMMARY

Project: Hospital #22-286

Pace Project No.: 50336749

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50336749001	SP-1 (0-2')	Solid	02/01/23 15:05	02/03/23 15:15
50336749002	SP-2 (0-2')	Solid	02/01/23 15:35	02/03/23 15:15
50336749003	SP-3 (0-1')	Solid	02/01/23 14:20	02/03/23 15:15
50336749004	SP-4 (0-2')	Solid	02/01/23 13:10	02/03/23 15:15
50336749005	SP-4 Dup (0-2')	Solid	02/01/23 13:10	02/03/23 15:15
50336749006	SP-4 (8-10')	Solid	02/01/23 13:15	02/03/23 15:15
50336749007	SP-5 (5-6')	Solid	02/01/23 12:45	02/03/23 15:15
50336749008	SP-5 (8-10')	Solid	02/01/23 12:45	02/03/23 15:15
50336749009	SP-6 (0-2')	Solid	02/01/23 11:35	02/03/23 15:15
50336749010	SP-7 (0-2')	Solid	02/01/23 10:50	02/03/23 15:15
50336749011	SP-8 (0-2')	Solid	02/01/23 09:55	02/03/23 15:15
50336749012	SP-8 (4-5')	Solid	02/01/23 09:55	02/03/23 15:15
50336749013	SP-1 (6')	Solid	02/01/23 15:10	02/03/23 15:15
50336749014	SP-2 (7')	Solid	02/01/23 15:45	02/03/23 15:15
50336749015	SP-4 (7')	Solid	02/01/23 13:15	02/03/23 15:15
50336749016	SP-4 (16')	Solid	02/01/23 13:25	02/03/23 15:15
50336749017	SP-4 Dup (16')	Solid	02/01/23 13:25	02/03/23 15:15
50336749018	SP-5 (11')	Solid	02/01/23 12:50	02/03/23 15:15
50336749019	SP-6 (22')	Solid	02/01/23 11:55	02/03/23 15:15
50336749020	SP-7 (25')	Solid	02/01/23 11:10	02/03/23 15:15
50336749021	SP-8 (16')	Solid	02/01/23 10:10	02/03/23 15:15
50336749022	SP-9 (0-2')	Solid	02/01/23 09:20	02/03/23 15:15
50336749023	SP-9 (25')	Solid	02/01/23 09:40	02/03/23 15:15
50336749024	SP-10 (0-2')	Solid	02/01/23 10:35	02/03/23 15:15
50336749025	SP-11 (0-2')	Solid	02/01/23 16:05	02/03/23 15:15
50336749026	SP-12 (0-1')	Solid	02/01/23 16:00	02/03/23 15:15
50336749027	SP-13 (0-2')	Solid	02/01/23 15:25	02/03/23 15:15
50336749028	SP-13 (2-3')	Solid	02/01/23 15:25	02/03/23 15:15
50336749029	TB-1	Solid	02/01/23 08:00	02/03/23 15:15
50336749030	SP-3 (25')	Solid	02/01/23 14:40	02/03/23 15:15

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE ANALYTE COUNT

Project: Hospital #22-286

Pace Project No.: 50336749

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50336749001	SP-1 (0-2')	EPA 6010	DJS	13	PASI-I
		EPA 7471	ILP	1	PASI-I
		EPA 8270 by SIM	FIP	20	PASI-I
		SM 2540G	DAW	1	PASI-I
50336749002	SP-2 (0-2')	EPA 6010	DJS	13	PASI-I
		EPA 7471	ILP	1	PASI-I
		EPA 8270 by SIM	FIP	20	PASI-I
		SM 2540G	DAW	1	PASI-I
50336749003	SP-3 (0-1')	EPA 6010	DJS	13	PASI-I
		EPA 7471	ILP	1	PASI-I
		EPA 8270 by SIM	FIP	20	PASI-I
		SM 2540G	DAW	1	PASI-I
50336749004	SP-4 (0-2')	EPA 6010	DJS	13	PASI-I
		EPA 7471	ILP	1	PASI-I
		EPA 8270 by SIM	FIP	20	PASI-I
		SM 2540G	DAW	1	PASI-I
50336749005	SP-4 Dup (0-2')	EPA 6010	DJS	13	PASI-I
		EPA 7471	ILP	1	PASI-I
		EPA 8270 by SIM	FIP	20	PASI-I
		SM 2540G	DAW	1	PASI-I
50336749006	SP-4 (8-10')	EPA 6010	DJS	13	PASI-I
		EPA 7471	ILP	1	PASI-I
		EPA 8270 by SIM	FIP	20	PASI-I
		SM 2540G	DAW	1	PASI-I
50336749007	SP-5 (5-6')	EPA 6010	DJS	13	PASI-I
		EPA 7471	ILP	1	PASI-I
		EPA 8270 by SIM	FIP	20	PASI-I
		SM 2540G	DAW	1	PASI-I
50336749008	SP-5 (8-10')	EPA 6010	DJS	13	PASI-I
		EPA 7471	ILP	1	PASI-I
		EPA 8270 by SIM	FIP	20	PASI-I
		SM 2540G	DAW	1	PASI-I
50336749009	SP-6 (0-2')	EPA 6010	DJS	13	PASI-I
		EPA 7471	ILP	1	PASI-I
		EPA 8270 by SIM	FIP	20	PASI-I
		SM 2540G	DAW	1	PASI-I
50336749010	SP-7 (0-2')	EPA 6010	DJS	13	PASI-I

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE ANALYTE COUNT

Project: Hospital #22-286

Pace Project No.: 50336749

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 7471	ILP	1	PASI-I
		EPA 8270 by SIM	FIP	20	PASI-I
		SM 2540G	DAW	1	PASI-I
50336749011	SP-8 (0-2')	EPA 6010	DJS	13	PASI-I
		EPA 7471	ILP	1	PASI-I
		EPA 8270 by SIM	FIP	20	PASI-I
		SM 2540G	DAW	1	PASI-I
50336749012	SP-8 (4-5')	EPA 6010	DJS	13	PASI-I
		EPA 7471	ILP	1	PASI-I
		EPA 8270 by SIM	FIP	20	PASI-I
		SM 2540G	DAW	1	PASI-I
50336749013	SP-1 (6')	EPA 8260	TMW	75	PASI-I
		SM 2540G	MTW	1	PASI-I
50336749014	SP-2 (7')	EPA 8260	TMW	75	PASI-I
		SM 2540G	MTW	1	PASI-I
50336749015	SP-4 (7')	EPA 8260	TMW	75	PASI-I
		SM 2540G	MTW	1	PASI-I
50336749016	SP-4 (16')	EPA 8260	TMW	75	PASI-I
		SM 2540G	MTW	1	PASI-I
50336749017	SP-4 Dup (16')	EPA 8260	TMW	75	PASI-I
		SM 2540G	MTW	1	PASI-I
50336749018	SP-5 (11')	EPA 8260	TMW	75	PASI-I
		SM 2540G	MTW	1	PASI-I
50336749019	SP-6 (22')	EPA 8260	TMW	75	PASI-I
		SM 2540G	MTW	1	PASI-I
50336749020	SP-7 (25')	EPA 8260	TMW	75	PASI-I
		SM 2540G	MTW	1	PASI-I
50336749021	SP-8 (16')	EPA 8260	TMW	75	PASI-I
		SM 2540G	MTW	1	PASI-I
50336749022	SP-9 (0-2')	EPA 6010	DJS	13	PASI-I
		EPA 7471	ILP	1	PASI-I
		EPA 8270 by SIM	FIP	20	PASI-I
		SM 2540G	MTW	1	PASI-I
50336749023	SP-9 (25')	EPA 8260	TMW	75	PASI-I
		SM 2540G	MTW	1	PASI-I
50336749024	SP-10 (0-2')	EPA 6010	DJS	13	PASI-I
		EPA 7471	ILP	1	PASI-I

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE ANALYTE COUNT

Project: Hospital #22-286

Pace Project No.: 50336749

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50336749025	SP-11 (0-2')	EPA 8270 by SIM	FIP	20	PASI-I
		SM 2540G	MTW	1	PASI-I
		EPA 6010	DJS	13	PASI-I
		EPA 7471	ILP	1	PASI-I
		EPA 8270 by SIM	FIP	20	PASI-I
50336749026	SP-12 (0-1')	SM 2540G	MTW	1	PASI-I
		EPA 6010	DJS	13	PASI-I
		EPA 7471	ILP	1	PASI-I
		EPA 8270 by SIM	FIP	20	PASI-I
		SM 2540G	MTW	1	PASI-I
50336749027	SP-13 (0-2')	EPA 6010	DJS	13	PASI-I
		EPA 7471	ILP	1	PASI-I
		EPA 8270 by SIM	FIP	20	PASI-I
		SM 2540G	MTW	1	PASI-I
		EPA 6010	DJS	13	PASI-I
50336749028	SP-13 (2-3')	EPA 7471	ILP	1	PASI-I
		EPA 8270 by SIM	FIP	20	PASI-I
		SM 2540G	MTW	1	PASI-I
		EPA 6010	DJS	13	PASI-I
		EPA 7471	ILP	1	PASI-I
50336749029	TB-1	EPA 8260	TMW	75	PASI-I
50336749030	SP-3 (25')	EPA 8260	TMW	75	PASI-I
		SM 2540G	MTW	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SUMMARY OF DETECTION

Project: Hospital #22-286

Pace Project No.: 50336749

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50336749001	SP-1 (0-2')					
EPA 6010	Arsenic	3.6	mg/kg	1.1	02/16/23 14:36	
EPA 6010	Barium	67.7	mg/kg	1.1	02/16/23 14:36	
EPA 6010	Cadmium	0.50J	mg/kg	0.55	02/16/23 14:36	
EPA 6010	Chromium	8.5	mg/kg	1.1	02/16/23 14:36	
EPA 6010	Copper	6.4	mg/kg	1.1	02/16/23 14:36	
EPA 6010	Lead	8.6	mg/kg	1.1	02/16/23 14:36	
EPA 6010	Nickel	8.6	mg/kg	1.1	02/16/23 14:36	
EPA 6010	Selenium	0.40J	mg/kg	1.1	02/16/23 14:36	
EPA 6010	Zinc	36.3	mg/kg	1.1	02/16/23 14:36	
EPA 7471	Mercury	0.052J	mg/kg	0.22	02/15/23 08:52	
EPA 8270 by SIM	Benzo(a)anthracene	0.026J	mg/kg	0.027	02/07/23 12:51	
EPA 8270 by SIM	Benzo(a)pyrene	0.022J	mg/kg	0.027	02/07/23 12:51	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.029	mg/kg	0.027	02/07/23 12:51	
EPA 8270 by SIM	Chrysene	0.025J	mg/kg	0.027	02/07/23 12:51	
EPA 8270 by SIM	Fluoranthene	0.057	mg/kg	0.027	02/07/23 12:51	
EPA 8270 by SIM	Phenanthrene	0.025J	mg/kg	0.027	02/07/23 12:51	
EPA 8270 by SIM	Pyrene	0.046	mg/kg	0.027	02/07/23 12:51	
SM 2540G	Percent Moisture	9.5	%	0.10	02/07/23 21:22	N2
50336749002	SP-2 (0-2')					
EPA 6010	Antimony	0.48J	mg/kg	1.2	02/16/23 14:40	
EPA 6010	Arsenic	3.5	mg/kg	1.2	02/16/23 14:40	
EPA 6010	Barium	50.9	mg/kg	1.2	02/16/23 14:40	
EPA 6010	Cadmium	0.56J	mg/kg	0.59	02/16/23 14:40	
EPA 6010	Chromium	12.1	mg/kg	1.2	02/16/23 14:40	
EPA 6010	Copper	8.4	mg/kg	1.2	02/16/23 14:40	
EPA 6010	Lead	69.6	mg/kg	1.2	02/16/23 14:40	
EPA 6010	Nickel	11.4	mg/kg	1.2	02/16/23 14:40	
EPA 6010	Zinc	64.6	mg/kg	1.2	02/16/23 14:40	
EPA 8270 by SIM	Benzo(a)anthracene	0.026J	mg/kg	0.030	02/13/23 09:35	
EPA 8270 by SIM	Benzo(a)pyrene	0.032	mg/kg	0.030	02/13/23 09:35	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.046	mg/kg	0.030	02/13/23 09:35	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.043	mg/kg	0.030	02/13/23 09:35	
EPA 8270 by SIM	Chrysene	0.035	mg/kg	0.030	02/13/23 09:35	
EPA 8270 by SIM	Fluoranthene	0.048	mg/kg	0.030	02/13/23 09:35	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.025J	mg/kg	0.030	02/13/23 09:35	
EPA 8270 by SIM	Phenanthrene	0.032	mg/kg	0.030	02/13/23 09:35	
EPA 8270 by SIM	Pyrene	0.047	mg/kg	0.030	02/13/23 09:35	
SM 2540G	Percent Moisture	18.6	%	0.10	02/07/23 21:22	N2
50336749003	SP-3 (0-1')					
EPA 6010	Arsenic	1.9	mg/kg	1.0	02/16/23 14:43	
EPA 6010	Barium	13.7	mg/kg	1.0	02/16/23 14:43	
EPA 6010	Cadmium	0.16J	mg/kg	0.51	02/16/23 14:43	
EPA 6010	Chromium	3.9	mg/kg	1.0	02/16/23 14:43	
EPA 6010	Copper	3.6	mg/kg	1.0	02/16/23 14:43	
EPA 6010	Lead	2.1	mg/kg	1.0	02/16/23 14:43	
EPA 6010	Nickel	8.1	mg/kg	1.0	02/16/23 14:43	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SUMMARY OF DETECTION

Project: Hospital #22-286

Pace Project No.: 50336749

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50336749003	SP-3 (0-1')					
EPA 6010	Zinc	12.8	mg/kg	1.0	02/16/23 14:43	
EPA 8270 by SIM	Benzo(a)pyrene	0.054	mg/kg	0.050	02/07/23 13:20	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.063	mg/kg	0.050	02/07/23 13:20	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.18	mg/kg	0.050	02/07/23 13:20	
EPA 8270 by SIM	Chrysene	0.069	mg/kg	0.050	02/07/23 13:20	
EPA 8270 by SIM	Fluoranthene	0.053	mg/kg	0.050	02/07/23 13:20	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.049J	mg/kg	0.050	02/07/23 13:20	
EPA 8270 by SIM	Phenanthrene	0.052	mg/kg	0.050	02/07/23 13:20	
EPA 8270 by SIM	Pyrene	0.087	mg/kg	0.050	02/07/23 13:20	
SM 2540G	Percent Moisture	3.3	%	0.10	02/07/23 21:22	N2
50336749004	SP-4 (0-2')					
EPA 6010	Antimony	0.41J	mg/kg	1.0	02/16/23 15:13	
EPA 6010	Arsenic	1.5	mg/kg	1.0	02/16/23 15:13	
EPA 6010	Barium	33.3	mg/kg	1.0	02/16/23 15:13	
EPA 6010	Cadmium	0.32J	mg/kg	0.51	02/16/23 15:13	
EPA 6010	Chromium	9.1	mg/kg	1.0	02/16/23 15:13	
EPA 6010	Copper	2.7	mg/kg	1.0	02/16/23 15:13	
EPA 6010	Lead	1.1	mg/kg	1.0	02/16/23 15:13	
EPA 6010	Nickel	8.5	mg/kg	1.0	02/16/23 15:13	
EPA 6010	Zinc	24.6	mg/kg	1.0	02/16/23 15:13	
SM 2540G	Percent Moisture	5.9	%	0.10	02/07/23 21:22	N2
50336749005	SP-4 Dup (0-2')					
EPA 6010	Antimony	0.65J	mg/kg	1.0	02/16/23 15:17	
EPA 6010	Arsenic	1.0J	mg/kg	1.0	02/16/23 15:17	
EPA 6010	Barium	22.1	mg/kg	1.0	02/16/23 15:17	
EPA 6010	Cadmium	0.36J	mg/kg	0.52	02/16/23 15:17	
EPA 6010	Chromium	10.4	mg/kg	1.0	02/16/23 15:17	
EPA 6010	Copper	2.6	mg/kg	1.0	02/16/23 15:17	
EPA 6010	Lead	1.0J	mg/kg	1.0	02/16/23 15:17	
EPA 6010	Nickel	9.6	mg/kg	1.0	02/16/23 15:17	
EPA 6010	Zinc	26.3	mg/kg	1.0	02/16/23 15:17	
SM 2540G	Percent Moisture	5.0	%	0.10	02/07/23 21:22	N2
50336749006	SP-4 (8-10')					
EPA 6010	Arsenic	12.9	mg/kg	1.2	02/16/23 15:21	
EPA 6010	Barium	75.5	mg/kg	1.2	02/16/23 15:21	
EPA 6010	Beryllium	0.88	mg/kg	0.58	02/16/23 15:21	
EPA 6010	Chromium	28.1	mg/kg	1.2	02/16/23 15:21	
EPA 6010	Copper	13.2	mg/kg	1.2	02/16/23 15:21	
EPA 6010	Lead	16.5	mg/kg	1.2	02/16/23 15:21	
EPA 6010	Nickel	19.2	mg/kg	1.2	02/16/23 15:21	
EPA 6010	Selenium	1.1J	mg/kg	1.2	02/16/23 15:21	
EPA 6010	Silver	0.33J	mg/kg	0.58	02/16/23 15:21	
EPA 6010	Zinc	55.6	mg/kg	1.2	02/16/23 15:21	
EPA 7471	Mercury	0.044J	mg/kg	0.25	02/15/23 09:04	
EPA 8270 by SIM	1-Methylnaphthalene	0.017	mg/kg	0.0061	02/07/23 15:44	
EPA 8270 by SIM	2-Methylnaphthalene	0.036	mg/kg	0.0061	02/07/23 15:44	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SUMMARY OF DETECTION

Project: Hospital #22-286

Pace Project No.: 50336749

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50336749006	SP-4 (8-10')					
EPA 8270 by SIM	Naphthalene	0.0080	mg/kg	0.0061	02/07/23 15:44	
SM 2540G	Percent Moisture	19.2	%	0.10	02/07/23 21:23	N2
50336749007	SP-5 (5-6')					
EPA 6010	Arsenic	8.2	mg/kg	1.1	02/16/23 15:24	
EPA 6010	Barium	98.7	mg/kg	1.1	02/16/23 15:24	
EPA 6010	Beryllium	0.68	mg/kg	0.56	02/16/23 15:24	
EPA 6010	Chromium	20.9	mg/kg	1.1	02/16/23 15:24	
EPA 6010	Copper	10.8	mg/kg	1.1	02/16/23 15:24	
EPA 6010	Lead	11.1	mg/kg	1.1	02/16/23 15:24	
EPA 6010	Nickel	12.9	mg/kg	1.1	02/16/23 15:24	
EPA 6010	Selenium	0.41J	mg/kg	1.1	02/16/23 15:24	
EPA 6010	Silver	0.24J	mg/kg	0.56	02/16/23 15:24	
EPA 6010	Zinc	34.9	mg/kg	1.1	02/16/23 15:24	
EPA 7471	Mercury	0.042J	mg/kg	0.25	02/15/23 09:12	
SM 2540G	Percent Moisture	17.3	%	0.10	02/07/23 21:23	N2
50336749008	SP-5 (8-10')					
EPA 6010	Arsenic	8.2	mg/kg	1.2	02/16/23 15:28	
EPA 6010	Barium	73.4	mg/kg	1.2	02/16/23 15:28	
EPA 6010	Beryllium	0.72	mg/kg	0.58	02/16/23 15:28	
EPA 6010	Chromium	24.1	mg/kg	1.2	02/16/23 15:28	
EPA 6010	Copper	10.8	mg/kg	1.2	02/16/23 15:28	
EPA 6010	Lead	11.9	mg/kg	1.2	02/16/23 15:28	
EPA 6010	Nickel	14.0	mg/kg	1.2	02/16/23 15:28	
EPA 6010	Selenium	0.48J	mg/kg	1.2	02/16/23 15:28	
EPA 6010	Silver	0.22J	mg/kg	0.58	02/16/23 15:28	
EPA 6010	Zinc	34.8	mg/kg	1.2	02/16/23 15:28	
EPA 7471	Mercury	0.039J	mg/kg	0.26	02/15/23 09:14	
SM 2540G	Percent Moisture	19.3	%	0.10	02/07/23 21:23	N2
50336749009	SP-6 (0-2')					
EPA 6010	Antimony	0.39J	mg/kg	1.0	02/16/23 15:32	
EPA 6010	Arsenic	1.1	mg/kg	1.0	02/16/23 15:32	
EPA 6010	Barium	157	mg/kg	1.0	02/16/23 15:32	
EPA 6010	Cadmium	0.45J	mg/kg	0.52	02/16/23 15:32	
EPA 6010	Chromium	7.0	mg/kg	1.0	02/16/23 15:32	
EPA 6010	Copper	5.9	mg/kg	1.0	02/16/23 15:32	
EPA 6010	Lead	1.6	mg/kg	1.0	02/16/23 15:32	
EPA 6010	Nickel	8.0	mg/kg	1.0	02/16/23 15:32	
EPA 6010	Selenium	0.36J	mg/kg	1.0	02/16/23 15:32	
EPA 6010	Zinc	28.7	mg/kg	1.0	02/16/23 15:32	
EPA 8270 by SIM	Benzo(a)pyrene	0.0036J	mg/kg	0.0051	02/08/23 15:58	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.0043J	mg/kg	0.0051	02/08/23 15:58	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.0038J	mg/kg	0.0051	02/08/23 15:58	
EPA 8270 by SIM	Chrysene	0.0053	mg/kg	0.0051	02/08/23 15:58	
EPA 8270 by SIM	Fluoranthene	0.0044J	mg/kg	0.0051	02/08/23 15:58	
EPA 8270 by SIM	Pyrene	0.0045J	mg/kg	0.0051	02/08/23 15:58	
SM 2540G	Percent Moisture	4.6	%	0.10	02/07/23 21:23	N2

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SUMMARY OF DETECTION

Project: Hospital #22-286

Pace Project No.: 50336749

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50336749010	SP-7 (0-2')					
EPA 6010	Antimony	0.36J	mg/kg	1.0	02/16/23 15:35	
EPA 6010	Arsenic	1.7	mg/kg	1.0	02/16/23 15:35	
EPA 6010	Barium	29.2	mg/kg	1.0	02/16/23 15:35	
EPA 6010	Cadmium	0.29J	mg/kg	0.50	02/16/23 15:35	
EPA 6010	Chromium	4.8	mg/kg	1.0	02/16/23 15:35	
EPA 6010	Copper	3.4	mg/kg	1.0	02/16/23 15:35	
EPA 6010	Lead	14.6	mg/kg	1.0	02/16/23 15:35	
EPA 6010	Nickel	6.3	mg/kg	1.0	02/16/23 15:35	
EPA 6010	Zinc	21.6	mg/kg	1.0	02/16/23 15:35	
EPA 8270 by SIM	Chrysene	0.036J	mg/kg	0.050	02/07/23 17:11	
EPA 8270 by SIM	Fluoranthene	0.16	mg/kg	0.050	02/07/23 17:11	
EPA 8270 by SIM	Pyrene	0.14	mg/kg	0.050	02/07/23 17:11	
SM 2540G	Percent Moisture	3.2	%	0.10	02/07/23 21:23	N2
50336749011	SP-8 (0-2')					
EPA 6010	Antimony	0.41J	mg/kg	1.1	02/16/23 15:39	
EPA 6010	Arsenic	4.7	mg/kg	1.1	02/16/23 15:39	
EPA 6010	Barium	95.3	mg/kg	1.1	02/16/23 15:39	
EPA 6010	Cadmium	0.43J	mg/kg	0.55	02/16/23 15:39	
EPA 6010	Chromium	15.5	mg/kg	1.1	02/16/23 15:39	
EPA 6010	Copper	5.2	mg/kg	1.1	02/16/23 15:39	
EPA 6010	Lead	10.8	mg/kg	1.1	02/16/23 15:39	
EPA 6010	Nickel	12.9	mg/kg	1.1	02/16/23 15:39	
EPA 6010	Selenium	0.38J	mg/kg	1.1	02/16/23 15:39	
EPA 6010	Zinc	34.3	mg/kg	1.1	02/16/23 15:39	
EPA 7471	Mercury	0.070J	mg/kg	0.22	02/15/23 09:48	
EPA 8270 by SIM	Benzo(a)anthracene	0.049	mg/kg	0.029	02/07/23 19:22	M1, R1
EPA 8270 by SIM	Benzo(a)pyrene	0.037	mg/kg	0.029	02/07/23 19:22	M1, R1
EPA 8270 by SIM	Benzo(b)fluoranthene	0.085	mg/kg	0.029	02/07/23 19:22	M1, R1
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.030	mg/kg	0.029	02/07/23 19:22	M1, R1
EPA 8270 by SIM	Benzo(k)fluoranthene	0.024J	mg/kg	0.029	02/07/23 19:22	M1, R1
EPA 8270 by SIM	Chrysene	0.062	mg/kg	0.029	02/07/23 19:22	M1, R1
EPA 8270 by SIM	Fluoranthene	0.070	mg/kg	0.029	02/07/23 19:22	M1, R1
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.027J	mg/kg	0.029	02/07/23 19:22	M1, R1
EPA 8270 by SIM	Phenanthrene	0.037	mg/kg	0.029	02/07/23 19:22	
EPA 8270 by SIM	Pyrene	0.070	mg/kg	0.029	02/07/23 19:22	M1, R1
SM 2540G	Percent Moisture	14.7	%	0.10	02/07/23 21:23	N2
50336749012	SP-8 (4-5')					
EPA 6010	Arsenic	12.7	mg/kg	1.1	02/16/23 16:05	
EPA 6010	Barium	207	mg/kg	1.1	02/16/23 16:05	
EPA 6010	Beryllium	0.56J	mg/kg	0.57	02/16/23 16:05	
EPA 6010	Cadmium	1.2	mg/kg	0.57	02/16/23 16:05	
EPA 6010	Chromium	25.3	mg/kg	1.1	02/16/23 16:05	
EPA 6010	Copper	32.3	mg/kg	1.1	02/16/23 16:05	
EPA 6010	Lead	734	mg/kg	1.1	02/16/23 16:05	
EPA 6010	Nickel	12.6	mg/kg	1.1	02/16/23 16:05	
EPA 6010	Selenium	1.1J	mg/kg	1.1	02/16/23 16:05	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SUMMARY OF DETECTION

Project: Hospital #22-286

Pace Project No.: 50336749

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50336749012	SP-8 (4-5')					
EPA 6010	Silver	0.33J	mg/kg	0.57	02/16/23 16:05	
EPA 6010	Zinc	401	mg/kg	1.1	02/16/23 16:05	
EPA 7471	Mercury	0.10J	mg/kg	0.25	02/15/23 09:56	
EPA 8270 by SIM	Benzo(a)anthracene	0.028J	mg/kg	0.031	02/07/23 17:26	
EPA 8270 by SIM	Benzo(a)pyrene	0.021J	mg/kg	0.031	02/07/23 17:26	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.035	mg/kg	0.031	02/07/23 17:26	
EPA 8270 by SIM	Chrysene	0.035	mg/kg	0.031	02/07/23 17:26	
EPA 8270 by SIM	Fluoranthene	0.065	mg/kg	0.031	02/07/23 17:26	
EPA 8270 by SIM	Fluorene	0.022J	mg/kg	0.031	02/07/23 17:26	
EPA 8270 by SIM	1-Methylnaphthalene	0.022J	mg/kg	0.031	02/07/23 17:26	
EPA 8270 by SIM	2-Methylnaphthalene	0.032	mg/kg	0.031	02/07/23 17:26	
EPA 8270 by SIM	Naphthalene	0.032	mg/kg	0.031	02/07/23 17:26	ED
EPA 8270 by SIM	Phenanthrene	0.067	mg/kg	0.031	02/07/23 17:26	
EPA 8270 by SIM	Pyrene	0.055	mg/kg	0.031	02/07/23 17:26	
SM 2540G	Percent Moisture	21.0	%	0.10	02/07/23 21:23	N2
50336749013	SP-1 (6')					
EPA 8260	Toluene	0.0016J	mg/kg	0.0066	02/07/23 05:24	
SM 2540G	Percent Moisture	27.4	%	0.10	02/08/23 10:22	N2
50336749014	SP-2 (7')					
EPA 8260	Toluene	0.0014J	mg/kg	0.0051	02/07/23 05:55	
SM 2540G	Percent Moisture	19.4	%	0.10	02/08/23 10:22	N2
50336749015	SP-4 (7')					
SM 2540G	Percent Moisture	19.1	%	0.10	02/08/23 10:22	N2
50336749016	SP-4 (16')					
EPA 8260	Toluene	0.0016J	mg/kg	0.0069	02/07/23 06:56	
SM 2540G	Percent Moisture	31.1	%	0.10	02/08/23 10:22	N2
50336749017	SP-4 Dup (16')					
EPA 8260	Toluene	0.0017J	mg/kg	0.0069	02/07/23 07:26	
SM 2540G	Percent Moisture	32.2	%	0.10	02/08/23 10:22	N2
50336749018	SP-5 (11')					
EPA 8260	Acetone	0.0074J	mg/kg	0.14	02/07/23 07:56	
EPA 8260	Toluene	0.0015J	mg/kg	0.0069	02/07/23 07:56	
SM 2540G	Percent Moisture	21.3	%	0.10	02/08/23 10:22	N2
50336749019	SP-6 (22')					
SM 2540G	Percent Moisture	37.1	%	0.10	02/08/23 10:22	N2
50336749020	SP-7 (25')					
EPA 8260	Toluene	0.0015J	mg/kg	0.0063	02/07/23 08:57	
SM 2540G	Percent Moisture	32.8	%	0.10	02/08/23 10:22	N2
50336749021	SP-8 (16')					
EPA 8260	Ethylbenzene	0.0021J	mg/kg	0.0055	02/08/23 01:13	
EPA 8260	p-Isopropyltoluene	0.00058J	mg/kg	0.0055	02/08/23 01:13	
EPA 8260	Methylene Chloride	0.0020J	mg/kg	0.022	02/08/23 01:13	B

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SUMMARY OF DETECTION

Project: Hospital #22-286

Pace Project No.: 50336749

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50336749021	SP-8 (16')					
EPA 8260	1-Methylnaphthalene	0.00043J	mg/kg	0.011	02/08/23 01:13	B
EPA 8260	2-Methylnaphthalene	0.00054J	mg/kg	0.011	02/08/23 01:13	B
EPA 8260	Toluene	0.0041J	mg/kg	0.0055	02/08/23 01:13	
EPA 8260	1,2,4-Trimethylbenzene	0.00085J	mg/kg	0.0055	02/08/23 01:13	
EPA 8260	Xylene (Total)	0.0017J	mg/kg	0.011	02/08/23 01:13	
SM 2540G	Percent Moisture	8.0	%	0.10	02/08/23 10:23	N2
50336749022	SP-9 (0-2')					
EPA 6010	Arsenic	13.5	mg/kg	1.1	02/16/23 16:09	
EPA 6010	Barium	83.1	mg/kg	1.1	02/16/23 16:09	
EPA 6010	Beryllium	0.53J	mg/kg	0.54	02/16/23 16:09	
EPA 6010	Cadmium	0.20J	mg/kg	0.54	02/16/23 16:09	
EPA 6010	Chromium	22.1	mg/kg	1.1	02/16/23 16:09	
EPA 6010	Copper	53.9	mg/kg	1.1	02/16/23 16:09	
EPA 6010	Lead	25.8	mg/kg	1.1	02/16/23 16:09	
EPA 6010	Nickel	21.6	mg/kg	1.1	02/16/23 16:09	
EPA 6010	Selenium	0.57J	mg/kg	1.1	02/16/23 16:09	
EPA 6010	Silver	0.23J	mg/kg	0.54	02/16/23 16:09	
EPA 6010	Zinc	56.1	mg/kg	1.1	02/16/23 16:09	
EPA 7471	Mercury	0.036J	mg/kg	0.22	02/15/23 09:58	
EPA 8270 by SIM	Anthracene	0.027	mg/kg	0.026	02/07/23 17:40	
EPA 8270 by SIM	Benzo(a)anthracene	0.075	mg/kg	0.026	02/07/23 17:40	
EPA 8270 by SIM	Benzo(a)pyrene	0.068	mg/kg	0.026	02/07/23 17:40	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.10	mg/kg	0.026	02/07/23 17:40	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.041	mg/kg	0.026	02/07/23 17:40	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.029	mg/kg	0.026	02/07/23 17:40	
EPA 8270 by SIM	Chrysene	0.082	mg/kg	0.026	02/07/23 17:40	
EPA 8270 by SIM	Fluoranthene	0.24	mg/kg	0.026	02/07/23 17:40	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.041	mg/kg	0.026	02/07/23 17:40	
EPA 8270 by SIM	Phenanthrene	0.23	mg/kg	0.026	02/07/23 17:40	
EPA 8270 by SIM	Pyrene	0.19	mg/kg	0.026	02/07/23 17:40	
SM 2540G	Percent Moisture	7.3	%	0.10	02/08/23 10:23	N2
50336749023	SP-9 (25')					
EPA 8260	Toluene	0.0018J	mg/kg	0.0077	02/07/23 09:27	
SM 2540G	Percent Moisture	35.6	%	0.10	02/08/23 10:25	N2
50336749024	SP-10 (0-2')					
EPA 6010	Antimony	0.48J	mg/kg	1.1	02/16/23 16:12	
EPA 6010	Arsenic	8.7	mg/kg	1.1	02/16/23 16:12	
EPA 6010	Barium	157	mg/kg	1.1	02/16/23 16:12	
EPA 6010	Beryllium	0.35J	mg/kg	0.55	02/16/23 16:12	
EPA 6010	Cadmium	5.6	mg/kg	0.55	02/16/23 16:12	
EPA 6010	Chromium	10.8	mg/kg	1.1	02/16/23 16:12	
EPA 6010	Copper	20.7	mg/kg	1.1	02/16/23 16:12	
EPA 6010	Lead	82.3	mg/kg	1.1	02/16/23 16:12	
EPA 6010	Nickel	12.8	mg/kg	1.1	02/16/23 16:12	
EPA 6010	Selenium	0.41J	mg/kg	1.1	02/16/23 16:12	
EPA 6010	Silver	0.33J	mg/kg	0.55	02/16/23 16:12	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SUMMARY OF DETECTION

Project: Hospital #22-286
Pace Project No.: 50336749

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50336749024	SP-10 (0-2')					
EPA 6010	Zinc	1730	mg/kg	1.1	02/16/23 16:12	
EPA 7471	Mercury	0.25	mg/kg	0.22	02/15/23 10:01	
EPA 8270 by SIM	Acenaphthene	0.028	mg/kg	0.027	02/07/23 17:55	
EPA 8270 by SIM	Acenaphthylene	0.28	mg/kg	0.027	02/07/23 17:55	
EPA 8270 by SIM	Anthracene	0.28	mg/kg	0.027	02/07/23 17:55	
EPA 8270 by SIM	Benzo(a)anthracene	0.66	mg/kg	0.027	02/07/23 17:55	
EPA 8270 by SIM	Benzo(a)pyrene	0.58	mg/kg	0.027	02/07/23 17:55	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.97	mg/kg	0.027	02/07/23 17:55	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.34	mg/kg	0.027	02/07/23 17:55	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.32	mg/kg	0.027	02/07/23 17:55	
EPA 8270 by SIM	Chrysene	0.83	mg/kg	0.027	02/07/23 17:55	
EPA 8270 by SIM	Dibenz(a,h)anthracene	0.079	mg/kg	0.027	02/07/23 17:55	
EPA 8270 by SIM	Fluoranthene	1.8	mg/kg	0.027	02/07/23 17:55	
EPA 8270 by SIM	Fluorene	0.15	mg/kg	0.027	02/07/23 17:55	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.34	mg/kg	0.027	02/07/23 17:55	
EPA 8270 by SIM	1-Methylnaphthalene	0.16	mg/kg	0.027	02/07/23 17:55	
EPA 8270 by SIM	2-Methylnaphthalene	0.15	mg/kg	0.027	02/07/23 17:55	
EPA 8270 by SIM	Naphthalene	0.27	mg/kg	0.027	02/07/23 17:55	ED
EPA 8270 by SIM	Phenanthrene	1.4	mg/kg	0.027	02/07/23 17:55	
EPA 8270 by SIM	Pyrene	1.5	mg/kg	0.027	02/07/23 17:55	
SM 2540G	Percent Moisture	11.9	%	0.10	02/08/23 10:25	N2
50336749025	SP-11 (0-2')					
EPA 6010	Antimony	0.28J	mg/kg	0.97	02/16/23 16:16	
EPA 6010	Arsenic	1.4	mg/kg	0.97	02/16/23 16:16	
EPA 6010	Barium	51.6	mg/kg	0.97	02/16/23 16:16	
EPA 6010	Cadmium	0.32J	mg/kg	0.48	02/16/23 16:16	
EPA 6010	Chromium	4.4	mg/kg	0.97	02/16/23 16:16	
EPA 6010	Copper	2.0	mg/kg	0.97	02/16/23 16:16	
EPA 6010	Lead	1.6	mg/kg	0.97	02/16/23 16:16	
EPA 6010	Nickel	5.2	mg/kg	0.97	02/16/23 16:16	
EPA 6010	Zinc	17.5	mg/kg	0.97	02/16/23 16:16	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.0036J	mg/kg	0.0052	02/08/23 15:43	
SM 2540G	Percent Moisture	4.1	%	0.10	02/08/23 10:26	N2
50336749026	SP-12 (0-1')					
EPA 6010	Antimony	0.52J	mg/kg	0.98	02/16/23 16:20	
EPA 6010	Arsenic	2.0	mg/kg	0.98	02/16/23 16:20	
EPA 6010	Barium	62.8	mg/kg	0.98	02/16/23 16:20	
EPA 6010	Cadmium	0.30J	mg/kg	0.49	02/16/23 16:20	
EPA 6010	Chromium	5.7	mg/kg	0.98	02/16/23 16:20	
EPA 6010	Copper	3.8	mg/kg	0.98	02/16/23 16:20	
EPA 6010	Lead	5.2	mg/kg	0.98	02/16/23 16:20	
EPA 6010	Nickel	7.8	mg/kg	0.98	02/16/23 16:20	
EPA 6010	Zinc	23.7	mg/kg	0.98	02/16/23 16:20	
EPA 8270 by SIM	Benzo(a)anthracene	0.060	mg/kg	0.051	02/07/23 20:19	
EPA 8270 by SIM	Benzo(a)pyrene	0.073	mg/kg	0.051	02/07/23 20:19	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.091	mg/kg	0.051	02/07/23 20:19	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SUMMARY OF DETECTION

Project: Hospital #22-286

Pace Project No.: 50336749

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50336749026	SP-12 (0-1')					
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.059	mg/kg	0.051	02/07/23 20:19	
EPA 8270 by SIM	Chrysene	0.091	mg/kg	0.051	02/07/23 20:19	
EPA 8270 by SIM	Fluoranthene	0.096	mg/kg	0.051	02/07/23 20:19	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.037J	mg/kg	0.051	02/07/23 20:19	
EPA 8270 by SIM	Naphthalene	0.035J	mg/kg	0.051	02/07/23 20:19	ED
EPA 8270 by SIM	Phenanthrene	0.079	mg/kg	0.051	02/07/23 20:19	
EPA 8270 by SIM	Pyrene	0.13	mg/kg	0.051	02/07/23 20:19	
SM 2540G	Percent Moisture	5.2	%	0.10	02/08/23 10:26	N2
50336749027	SP-13 (0-2')					
EPA 6010	Antimony	0.54J	mg/kg	1.1	02/16/23 16:24	
EPA 6010	Arsenic	1.7	mg/kg	1.1	02/16/23 16:24	
EPA 6010	Barium	43.1	mg/kg	1.1	02/16/23 16:24	
EPA 6010	Cadmium	0.31J	mg/kg	0.54	02/16/23 16:24	
EPA 6010	Chromium	5.2	mg/kg	1.1	02/16/23 16:24	
EPA 6010	Copper	2.7	mg/kg	1.1	02/16/23 16:24	
EPA 6010	Lead	5.4	mg/kg	1.1	02/16/23 16:24	
EPA 6010	Nickel	6.0	mg/kg	1.1	02/16/23 16:24	
EPA 6010	Zinc	17.8	mg/kg	1.1	02/16/23 16:24	
EPA 8270 by SIM	Anthracene	0.056	mg/kg	0.053	02/07/23 20:34	
EPA 8270 by SIM	Benzo(a)anthracene	0.14	mg/kg	0.053	02/07/23 20:34	
EPA 8270 by SIM	Benzo(a)pyrene	0.15	mg/kg	0.053	02/07/23 20:34	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.24	mg/kg	0.053	02/07/23 20:34	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.10	mg/kg	0.053	02/07/23 20:34	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.077	mg/kg	0.053	02/07/23 20:34	
EPA 8270 by SIM	Chrysene	0.20	mg/kg	0.053	02/07/23 20:34	
EPA 8270 by SIM	Fluoranthene	0.47	mg/kg	0.053	02/07/23 20:34	
EPA 8270 by SIM	Fluorene	0.039J	mg/kg	0.053	02/07/23 20:34	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.093	mg/kg	0.053	02/07/23 20:34	
EPA 8270 by SIM	Phenanthrene	0.34	mg/kg	0.053	02/07/23 20:34	
EPA 8270 by SIM	Pyrene	0.41	mg/kg	0.053	02/07/23 20:34	
SM 2540G	Percent Moisture	10.2	%	0.10	02/08/23 10:27	N2
50336749028	SP-13 (2-3')					
EPA 6010	Arsenic	9.3	mg/kg	1.2	02/16/23 16:27	
EPA 6010	Barium	143	mg/kg	1.2	02/16/23 16:27	
EPA 6010	Beryllium	0.86	mg/kg	0.58	02/16/23 16:27	
EPA 6010	Cadmium	0.41J	mg/kg	0.58	02/16/23 16:27	
EPA 6010	Chromium	14.9	mg/kg	1.2	02/16/23 16:27	
EPA 6010	Copper	18.4	mg/kg	1.2	02/16/23 16:27	
EPA 6010	Lead	41.7	mg/kg	1.2	02/16/23 16:27	
EPA 6010	Nickel	15.1	mg/kg	1.2	02/16/23 16:27	
EPA 6010	Selenium	0.77J	mg/kg	1.2	02/16/23 16:27	
EPA 6010	Silver	0.50J	mg/kg	0.58	02/16/23 16:27	
EPA 6010	Zinc	90.5	mg/kg	1.2	02/16/23 16:27	
EPA 7471	Mercury	0.18J	mg/kg	0.26	02/15/23 10:15	
EPA 8270 by SIM	Acenaphthene	0.017	mg/kg	0.0058	02/07/23 20:48	
EPA 8270 by SIM	Acenaphthylene	0.024	mg/kg	0.0058	02/07/23 20:48	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SUMMARY OF DETECTION

Project: Hospital #22-286

Pace Project No.: 50336749

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50336749028	SP-13 (2-3')					
EPA 8270 by SIM	Anthracene	0.056	mg/kg	0.0058	02/07/23 20:48	
EPA 8270 by SIM	Benzo(a)anthracene	0.22	mg/kg	0.0058	02/07/23 20:48	
EPA 8270 by SIM	Benzo(a)pyrene	0.24	mg/kg	0.0058	02/07/23 20:48	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.40	mg/kg	0.0058	02/07/23 20:48	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.12	mg/kg	0.0058	02/07/23 20:48	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.15	mg/kg	0.0058	02/07/23 20:48	
EPA 8270 by SIM	Chrysene	0.29	mg/kg	0.0058	02/07/23 20:48	
EPA 8270 by SIM	Dibenz(a,h)anthracene	0.037	mg/kg	0.0058	02/07/23 20:48	
EPA 8270 by SIM	Fluoranthene	0.44	mg/kg	0.0058	02/07/23 20:48	
EPA 8270 by SIM	Fluorene	0.022	mg/kg	0.0058	02/07/23 20:48	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.13	mg/kg	0.0058	02/07/23 20:48	
EPA 8270 by SIM	1-Methylnaphthalene	0.032	mg/kg	0.0058	02/07/23 20:48	
EPA 8270 by SIM	2-Methylnaphthalene	0.038	mg/kg	0.0058	02/07/23 20:48	
EPA 8270 by SIM	Naphthalene	0.043	mg/kg	0.0058	02/07/23 20:48	
EPA 8270 by SIM	Phenanthrene	0.26	mg/kg	0.0058	02/07/23 20:48	
EPA 8270 by SIM	Pyrene	0.44	mg/kg	0.0058	02/07/23 20:48	
SM 2540G	Percent Moisture	17.5	%	0.10	02/08/23 10:27	N2
50336749029	TB-1					
EPA 8260	Methylene Chloride	0.0021J	mg/kg	0.020	02/08/23 08:19	B
EPA 8260	1-Methylnaphthalene	0.0020J	mg/kg	0.010	02/08/23 08:19	B
EPA 8260	2-Methylnaphthalene	0.0019J	mg/kg	0.010	02/08/23 08:19	B
EPA 8260	Toluene	0.0013J	mg/kg	0.0050	02/08/23 08:19	
50336749030	SP-3 (25')					
EPA 8260	Acetone	0.0087J	mg/kg	0.11	02/08/23 08:50	
EPA 8260	Chloroform	0.0063	mg/kg	0.0054	02/08/23 08:50	
EPA 8260	Methylene Chloride	0.0018J	mg/kg	0.021	02/08/23 08:50	B
EPA 8260	1-Methylnaphthalene	0.00038J	mg/kg	0.011	02/08/23 08:50	B
EPA 8260	2-Methylnaphthalene	0.00047J	mg/kg	0.011	02/08/23 08:50	B
EPA 8260	Toluene	0.0014J	mg/kg	0.0054	02/08/23 08:50	
SM 2540G	Percent Moisture	22.9	%	0.10	02/08/23 10:27	N2

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: SP-1 (0-2') Lab ID: 50336749001 Collected: 02/01/23 15:05 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Initial Volume/Weight: 1.0041 g Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	<0.29	mg/kg	1.1	0.29	1	02/15/23 09:12	02/16/23 14:36	7440-36-0	
Arsenic	3.6	mg/kg	1.1	0.18	1	02/15/23 09:12	02/16/23 14:36	7440-38-2	
Barium	67.7	mg/kg	1.1	0.21	1	02/15/23 09:12	02/16/23 14:36	7440-39-3	
Beryllium	<0.11	mg/kg	0.55	0.11	1	02/15/23 09:12	02/16/23 14:36	7440-41-7	
Cadmium	0.50J	mg/kg	0.55	0.025	1	02/15/23 09:12	02/16/23 14:36	7440-43-9	
Chromium	8.5	mg/kg	1.1	1.0	1	02/15/23 09:12	02/16/23 14:36	7440-47-3	
Copper	6.4	mg/kg	1.1	0.26	1	02/15/23 09:12	02/16/23 14:36	7440-50-8	
Lead	8.6	mg/kg	1.1	0.51	1	02/15/23 09:12	02/16/23 14:36	7439-92-1	
Nickel	8.6	mg/kg	1.1	0.14	1	02/15/23 09:12	02/16/23 14:36	7440-02-0	
Selenium	0.40J	mg/kg	1.1	0.30	1	02/15/23 09:12	02/16/23 14:36	7782-49-2	
Silver	<0.14	mg/kg	0.55	0.14	1	02/15/23 09:12	02/16/23 14:36	7440-22-4	
Thallium	<0.22	mg/kg	1.1	0.22	1	02/15/23 09:12	02/16/23 14:36	7440-28-0	
Zinc	36.3	mg/kg	1.1	0.95	1	02/15/23 09:12	02/16/23 14:36	7440-66-6	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Initial Volume/Weight: 0.298 g Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Mercury	0.052J	mg/kg	0.22	0.026	1	02/14/23 20:16	02/15/23 08:52	7439-97-6	
8270 PAH Soil by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Initial Volume/Weight: 15.1 g Final Volume/Weight: 1 mL									
Pace Analytical Services - Indianapolis									
Acenaphthene	<0.011	mg/kg	0.027	0.011	5	02/06/23 22:45	02/07/23 12:51	83-32-9	
Acenaphthylene	<0.010	mg/kg	0.027	0.010	5	02/06/23 22:45	02/07/23 12:51	208-96-8	
Anthracene	<0.014	mg/kg	0.027	0.014	5	02/06/23 22:45	02/07/23 12:51	120-12-7	
Benzo(a)anthracene	0.026J	mg/kg	0.027	0.017	5	02/06/23 22:45	02/07/23 12:51	56-55-3	
Benzo(a)pyrene	0.022J	mg/kg	0.027	0.016	5	02/06/23 22:45	02/07/23 12:51	50-32-8	
Benzo(b)fluoranthene	0.029	mg/kg	0.027	0.015	5	02/06/23 22:45	02/07/23 12:51	205-99-2	
Benzo(g,h,i)perylene	<0.016	mg/kg	0.027	0.016	5	02/06/23 22:45	02/07/23 12:51	191-24-2	
Benzo(k)fluoranthene	<0.013	mg/kg	0.027	0.013	5	02/06/23 22:45	02/07/23 12:51	207-08-9	
Chrysene	0.025J	mg/kg	0.027	0.019	5	02/06/23 22:45	02/07/23 12:51	218-01-9	
Dibenz(a,h)anthracene	<0.013	mg/kg	0.027	0.013	5	02/06/23 22:45	02/07/23 12:51	53-70-3	
Fluoranthene	0.057	mg/kg	0.027	0.019	5	02/06/23 22:45	02/07/23 12:51	206-44-0	
Fluorene	<0.011	mg/kg	0.027	0.011	5	02/06/23 22:45	02/07/23 12:51	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.014	mg/kg	0.027	0.014	5	02/06/23 22:45	02/07/23 12:51	193-39-5	
1-Methylnaphthalene	<0.011	mg/kg	0.027	0.011	5	02/06/23 22:45	02/07/23 12:51	90-12-0	
2-Methylnaphthalene	<0.010	mg/kg	0.027	0.010	5	02/06/23 22:45	02/07/23 12:51	91-57-6	
Naphthalene	<0.010	mg/kg	0.027	0.010	5	02/06/23 22:45	02/07/23 12:51	91-20-3	ED
Phenanthrene	0.025J	mg/kg	0.027	0.020	5	02/06/23 22:45	02/07/23 12:51	85-01-8	
Pyrene	0.046	mg/kg	0.027	0.019	5	02/06/23 22:45	02/07/23 12:51	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	67	%	28-116		5	02/06/23 22:45	02/07/23 12:51	321-60-8	
p-Terphenyl-d14 (S)	74	%	27-127		5	02/06/23 22:45	02/07/23 12:51	1718-51-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: SP-1 (0-2') **Lab ID: 50336749001** Collected: 02/01/23 15:05 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: SM 2540G Pace Analytical Services - Indianapolis								
Percent Moisture	9.5	%	0.10	0.10	1		02/07/23 21:22		N2

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: SP-2 (0-2') Lab ID: 50336749002 Collected: 02/01/23 15:35 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Initial Volume/Weight: 1.0429 g Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.48J	mg/kg	1.2	0.31	1	02/15/23 09:12	02/16/23 14:40	7440-36-0	
Arsenic	3.5	mg/kg	1.2	0.20	1	02/15/23 09:12	02/16/23 14:40	7440-38-2	
Barium	50.9	mg/kg	1.2	0.22	1	02/15/23 09:12	02/16/23 14:40	7440-39-3	
Beryllium	<0.12	mg/kg	0.59	0.12	1	02/15/23 09:12	02/16/23 14:40	7440-41-7	
Cadmium	0.56J	mg/kg	0.59	0.027	1	02/15/23 09:12	02/16/23 14:40	7440-43-9	
Chromium	12.1	mg/kg	1.2	1.1	1	02/15/23 09:12	02/16/23 14:40	7440-47-3	
Copper	8.4	mg/kg	1.2	0.28	1	02/15/23 09:12	02/16/23 14:40	7440-50-8	
Lead	69.6	mg/kg	1.2	0.55	1	02/15/23 09:12	02/16/23 14:40	7439-92-1	
Nickel	11.4	mg/kg	1.2	0.15	1	02/15/23 09:12	02/16/23 14:40	7440-02-0	
Selenium	<0.33	mg/kg	1.2	0.33	1	02/15/23 09:12	02/16/23 14:40	7782-49-2	
Silver	<0.15	mg/kg	0.59	0.15	1	02/15/23 09:12	02/16/23 14:40	7440-22-4	
Thallium	<0.23	mg/kg	1.2	0.23	1	02/15/23 09:12	02/16/23 14:40	7440-28-0	
Zinc	64.6	mg/kg	1.2	1.0	1	02/15/23 09:12	02/16/23 14:40	7440-66-6	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Initial Volume/Weight: 0.291 g Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Mercury	<0.029	mg/kg	0.25	0.029	1	02/14/23 20:16	02/15/23 08:54	7439-97-6	
8270 PAH Soil by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Initial Volume/Weight: 15.3 g Final Volume/Weight: 1 mL									
Pace Analytical Services - Indianapolis									
Acenaphthene	<0.012	mg/kg	0.030	0.012	5	02/06/23 22:45	02/13/23 09:35	83-32-9	
Acenaphthylene	<0.011	mg/kg	0.030	0.011	5	02/06/23 22:45	02/13/23 09:35	208-96-8	
Anthracene	<0.015	mg/kg	0.030	0.015	5	02/06/23 22:45	02/13/23 09:35	120-12-7	
Benzo(a)anthracene	0.026J	mg/kg	0.030	0.018	5	02/06/23 22:45	02/13/23 09:35	56-55-3	
Benzo(a)pyrene	0.032	mg/kg	0.030	0.018	5	02/06/23 22:45	02/13/23 09:35	50-32-8	
Benzo(b)fluoranthene	0.046	mg/kg	0.030	0.017	5	02/06/23 22:45	02/13/23 09:35	205-99-2	
Benzo(g,h,i)perylene	0.043	mg/kg	0.030	0.018	5	02/06/23 22:45	02/13/23 09:35	191-24-2	
Benzo(k)fluoranthene	<0.014	mg/kg	0.030	0.014	5	02/06/23 22:45	02/13/23 09:35	207-08-9	
Chrysene	0.035	mg/kg	0.030	0.021	5	02/06/23 22:45	02/13/23 09:35	218-01-9	
Dibenz(a,h)anthracene	<0.015	mg/kg	0.030	0.015	5	02/06/23 22:45	02/13/23 09:35	53-70-3	
Fluoranthene	0.048	mg/kg	0.030	0.021	5	02/06/23 22:45	02/13/23 09:35	206-44-0	
Fluorene	<0.012	mg/kg	0.030	0.012	5	02/06/23 22:45	02/13/23 09:35	86-73-7	
Indeno(1,2,3-cd)pyrene	0.025J	mg/kg	0.030	0.015	5	02/06/23 22:45	02/13/23 09:35	193-39-5	
1-Methylnaphthalene	<0.012	mg/kg	0.030	0.012	5	02/06/23 22:45	02/13/23 09:35	90-12-0	
2-Methylnaphthalene	<0.012	mg/kg	0.030	0.012	5	02/06/23 22:45	02/13/23 09:35	91-57-6	
Naphthalene	<0.011	mg/kg	0.030	0.011	5	02/06/23 22:45	02/13/23 09:35	91-20-3	ED
Phenanthrene	0.032	mg/kg	0.030	0.022	5	02/06/23 22:45	02/13/23 09:35	85-01-8	
Pyrene	0.047	mg/kg	0.030	0.021	5	02/06/23 22:45	02/13/23 09:35	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	65	%	28-116		5	02/06/23 22:45	02/13/23 09:35	321-60-8	
p-Terphenyl-d14 (S)	72	%	27-127		5	02/06/23 22:45	02/13/23 09:35	1718-51-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: SP-2 (0-2') **Lab ID: 50336749002** Collected: 02/01/23 15:35 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: SM 2540G Pace Analytical Services - Indianapolis								
Percent Moisture	18.6	%	0.10	0.10	1		02/07/23 21:22		N2

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: SP-3 (0-1') Lab ID: 50336749003 Collected: 02/01/23 14:20 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Initial Volume/Weight: 1.0111 g Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	<0.27	mg/kg	1.0	0.27	1	02/15/23 09:12	02/16/23 14:43	7440-36-0	
Arsenic	1.9	mg/kg	1.0	0.17	1	02/15/23 09:12	02/16/23 14:43	7440-38-2	
Barium	13.7	mg/kg	1.0	0.19	1	02/15/23 09:12	02/16/23 14:43	7440-39-3	
Beryllium	<0.10	mg/kg	0.51	0.10	1	02/15/23 09:12	02/16/23 14:43	7440-41-7	
Cadmium	0.16J	mg/kg	0.51	0.024	1	02/15/23 09:12	02/16/23 14:43	7440-43-9	
Chromium	3.9	mg/kg	1.0	0.97	1	02/15/23 09:12	02/16/23 14:43	7440-47-3	
Copper	3.6	mg/kg	1.0	0.24	1	02/15/23 09:12	02/16/23 14:43	7440-50-8	
Lead	2.1	mg/kg	1.0	0.47	1	02/15/23 09:12	02/16/23 14:43	7439-92-1	
Nickel	8.1	mg/kg	1.0	0.13	1	02/15/23 09:12	02/16/23 14:43	7440-02-0	
Selenium	<0.28	mg/kg	1.0	0.28	1	02/15/23 09:12	02/16/23 14:43	7782-49-2	
Silver	<0.13	mg/kg	0.51	0.13	1	02/15/23 09:12	02/16/23 14:43	7440-22-4	
Thallium	<0.20	mg/kg	1.0	0.20	1	02/15/23 09:12	02/16/23 14:43	7440-28-0	
Zinc	12.8	mg/kg	1.0	0.88	1	02/15/23 09:12	02/16/23 14:43	7440-66-6	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Initial Volume/Weight: 0.283 g Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Mercury	<0.025	mg/kg	0.22	0.025	1	02/14/23 20:16	02/15/23 08:57	7439-97-6	
8270 PAH Soil by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Initial Volume/Weight: 15.5 g Final Volume/Weight: 1 mL									
Pace Analytical Services - Indianapolis									
Acenaphthene	<0.020	mg/kg	0.050	0.020	10	02/06/23 22:45	02/07/23 13:20	83-32-9	
Acenaphthylene	<0.019	mg/kg	0.050	0.019	10	02/06/23 22:45	02/07/23 13:20	208-96-8	
Anthracene	<0.025	mg/kg	0.050	0.025	10	02/06/23 22:45	02/07/23 13:20	120-12-7	
Benzo(a)anthracene	<0.030	mg/kg	0.050	0.030	10	02/06/23 22:45	02/07/23 13:20	56-55-3	
Benzo(a)pyrene	0.054	mg/kg	0.050	0.030	10	02/06/23 22:45	02/07/23 13:20	50-32-8	
Benzo(b)fluoranthene	0.063	mg/kg	0.050	0.028	10	02/06/23 22:45	02/07/23 13:20	205-99-2	
Benzo(g,h,i)perylene	0.18	mg/kg	0.050	0.030	10	02/06/23 22:45	02/07/23 13:20	191-24-2	
Benzo(k)fluoranthene	<0.023	mg/kg	0.050	0.023	10	02/06/23 22:45	02/07/23 13:20	207-08-9	
Chrysene	0.069	mg/kg	0.050	0.034	10	02/06/23 22:45	02/07/23 13:20	218-01-9	
Dibenz(a,h)anthracene	<0.025	mg/kg	0.050	0.025	10	02/06/23 22:45	02/07/23 13:20	53-70-3	
Fluoranthene	0.053	mg/kg	0.050	0.035	10	02/06/23 22:45	02/07/23 13:20	206-44-0	
Fluorene	<0.020	mg/kg	0.050	0.020	10	02/06/23 22:45	02/07/23 13:20	86-73-7	
Indeno(1,2,3-cd)pyrene	0.049J	mg/kg	0.050	0.025	10	02/06/23 22:45	02/07/23 13:20	193-39-5	
1-Methylnaphthalene	<0.020	mg/kg	0.050	0.020	10	02/06/23 22:45	02/07/23 13:20	90-12-0	
2-Methylnaphthalene	<0.019	mg/kg	0.050	0.019	10	02/06/23 22:45	02/07/23 13:20	91-57-6	
Naphthalene	<0.019	mg/kg	0.050	0.019	10	02/06/23 22:45	02/07/23 13:20	91-20-3	ED
Phenanthrene	0.052	mg/kg	0.050	0.036	10	02/06/23 22:45	02/07/23 13:20	85-01-8	
Pyrene	0.087	mg/kg	0.050	0.034	10	02/06/23 22:45	02/07/23 13:20	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	40	%	28-116		10	02/06/23 22:45	02/07/23 13:20	321-60-8	
p-Terphenyl-d14 (S)	45	%	27-127		10	02/06/23 22:45	02/07/23 13:20	1718-51-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: SP-3 (0-1) **Lab ID: 50336749003** Collected: 02/01/23 14:20 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: SM 2540G Pace Analytical Services - Indianapolis								
Percent Moisture	3.3	%	0.10	0.10	1		02/07/23 21:22		N2

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: SP-4 (0-2) **Lab ID: 50336749004** Collected: 02/01/23 13:10 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Initial Volume/Weight: 1.0395 g Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.41J	mg/kg	1.0	0.27	1	02/15/23 09:12	02/16/23 15:13	7440-36-0	
Arsenic	1.5	mg/kg	1.0	0.17	1	02/15/23 09:12	02/16/23 15:13	7440-38-2	
Barium	33.3	mg/kg	1.0	0.19	1	02/15/23 09:12	02/16/23 15:13	7440-39-3	
Beryllium	<0.10	mg/kg	0.51	0.10	1	02/15/23 09:12	02/16/23 15:13	7440-41-7	
Cadmium	0.32J	mg/kg	0.51	0.024	1	02/15/23 09:12	02/16/23 15:13	7440-43-9	
Chromium	9.1	mg/kg	1.0	0.97	1	02/15/23 09:12	02/16/23 15:13	7440-47-3	
Copper	2.7	mg/kg	1.0	0.24	1	02/15/23 09:12	02/16/23 15:13	7440-50-8	
Lead	1.1	mg/kg	1.0	0.47	1	02/15/23 09:12	02/16/23 15:13	7439-92-1	
Nickel	8.5	mg/kg	1.0	0.13	1	02/15/23 09:12	02/16/23 15:13	7440-02-0	
Selenium	<0.28	mg/kg	1.0	0.28	1	02/15/23 09:12	02/16/23 15:13	7782-49-2	
Silver	<0.13	mg/kg	0.51	0.13	1	02/15/23 09:12	02/16/23 15:13	7440-22-4	
Thallium	<0.20	mg/kg	1.0	0.20	1	02/15/23 09:12	02/16/23 15:13	7440-28-0	
Zinc	24.6	mg/kg	1.0	0.88	1	02/15/23 09:12	02/16/23 15:13	7440-66-6	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Initial Volume/Weight: 0.297 g Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Mercury	<0.025	mg/kg	0.21	0.025	1	02/14/23 20:16	02/15/23 08:59	7439-97-6	
8270 PAH Soil by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Initial Volume/Weight: 15.2 g Final Volume/Weight: 1 mL									
Pace Analytical Services - Indianapolis									
Acenaphthene	<0.0021	mg/kg	0.0052	0.0021	1	02/06/23 22:45	02/07/23 13:34	83-32-9	
Acenaphthylene	<0.0020	mg/kg	0.0052	0.0020	1	02/06/23 22:45	02/07/23 13:34	208-96-8	
Anthracene	<0.0026	mg/kg	0.0052	0.0026	1	02/06/23 22:45	02/07/23 13:34	120-12-7	
Benzo(a)anthracene	<0.0032	mg/kg	0.0052	0.0032	1	02/06/23 22:45	02/07/23 13:34	56-55-3	
Benzo(a)pyrene	<0.0031	mg/kg	0.0052	0.0031	1	02/06/23 22:45	02/07/23 13:34	50-32-8	
Benzo(b)fluoranthene	<0.0029	mg/kg	0.0052	0.0029	1	02/06/23 22:45	02/07/23 13:34	205-99-2	
Benzo(g,h,i)perylene	<0.0031	mg/kg	0.0052	0.0031	1	02/06/23 22:45	02/07/23 13:34	191-24-2	
Benzo(k)fluoranthene	<0.0024	mg/kg	0.0052	0.0024	1	02/06/23 22:45	02/07/23 13:34	207-08-9	
Chrysene	<0.0036	mg/kg	0.0052	0.0036	1	02/06/23 22:45	02/07/23 13:34	218-01-9	
Dibenz(a,h)anthracene	<0.0026	mg/kg	0.0052	0.0026	1	02/06/23 22:45	02/07/23 13:34	53-70-3	
Fluoranthene	<0.0037	mg/kg	0.0052	0.0037	1	02/06/23 22:45	02/07/23 13:34	206-44-0	
Fluorene	<0.0021	mg/kg	0.0052	0.0021	1	02/06/23 22:45	02/07/23 13:34	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0027	mg/kg	0.0052	0.0027	1	02/06/23 22:45	02/07/23 13:34	193-39-5	
1-Methylnaphthalene	<0.0021	mg/kg	0.0052	0.0021	1	02/06/23 22:45	02/07/23 13:34	90-12-0	
2-Methylnaphthalene	<0.0020	mg/kg	0.0052	0.0020	1	02/06/23 22:45	02/07/23 13:34	91-57-6	
Naphthalene	<0.0020	mg/kg	0.0052	0.0020	1	02/06/23 22:45	02/07/23 13:34	91-20-3	
Phenanthrene	<0.0038	mg/kg	0.0052	0.0038	1	02/06/23 22:45	02/07/23 13:34	85-01-8	
Pyrene	<0.0036	mg/kg	0.0052	0.0036	1	02/06/23 22:45	02/07/23 13:34	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	73	%	28-116		1	02/06/23 22:45	02/07/23 13:34	321-60-8	
p-Terphenyl-d14 (S)	85	%	27-127		1	02/06/23 22:45	02/07/23 13:34	1718-51-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: SP-4 (0-2') **Lab ID: 50336749004** Collected: 02/01/23 13:10 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: SM 2540G Pace Analytical Services - Indianapolis								
Percent Moisture	5.9	%	0.10	0.10	1		02/07/23 21:22		N2

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: SP-4 Dup (0-2') **Lab ID: 50336749005** Collected: 02/01/23 13:10 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Initial Volume/Weight: 1.0165 g Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.65J	mg/kg	1.0	0.27	1	02/15/23 09:12	02/16/23 15:17	7440-36-0	
Arsenic	1.0J	mg/kg	1.0	0.17	1	02/15/23 09:12	02/16/23 15:17	7440-38-2	
Barium	22.1	mg/kg	1.0	0.19	1	02/15/23 09:12	02/16/23 15:17	7440-39-3	
Beryllium	<0.11	mg/kg	0.52	0.11	1	02/15/23 09:12	02/16/23 15:17	7440-41-7	
Cadmium	0.36J	mg/kg	0.52	0.024	1	02/15/23 09:12	02/16/23 15:17	7440-43-9	
Chromium	10.4	mg/kg	1.0	0.98	1	02/15/23 09:12	02/16/23 15:17	7440-47-3	
Copper	2.6	mg/kg	1.0	0.25	1	02/15/23 09:12	02/16/23 15:17	7440-50-8	
Lead	1.0J	mg/kg	1.0	0.48	1	02/15/23 09:12	02/16/23 15:17	7439-92-1	
Nickel	9.6	mg/kg	1.0	0.13	1	02/15/23 09:12	02/16/23 15:17	7440-02-0	
Selenium	<0.29	mg/kg	1.0	0.29	1	02/15/23 09:12	02/16/23 15:17	7782-49-2	
Silver	<0.13	mg/kg	0.52	0.13	1	02/15/23 09:12	02/16/23 15:17	7440-22-4	
Thallium	<0.20	mg/kg	1.0	0.20	1	02/15/23 09:12	02/16/23 15:17	7440-28-0	
Zinc	26.3	mg/kg	1.0	0.89	1	02/15/23 09:12	02/16/23 15:17	7440-66-6	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Initial Volume/Weight: 0.292 g Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Mercury	<0.025	mg/kg	0.22	0.025	1	02/14/23 20:16	02/15/23 09:02	7439-97-6	
8270 PAH Soil by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Initial Volume/Weight: 15.2 g Final Volume/Weight: 1 mL									
Pace Analytical Services - Indianapolis									
Acenaphthene	<0.0021	mg/kg	0.0052	0.0021	1	02/06/23 22:45	02/07/23 15:30	83-32-9	
Acenaphthylene	<0.0020	mg/kg	0.0052	0.0020	1	02/06/23 22:45	02/07/23 15:30	208-96-8	
Anthracene	<0.0026	mg/kg	0.0052	0.0026	1	02/06/23 22:45	02/07/23 15:30	120-12-7	
Benzo(a)anthracene	<0.0031	mg/kg	0.0052	0.0031	1	02/06/23 22:45	02/07/23 15:30	56-55-3	
Benzo(a)pyrene	<0.0031	mg/kg	0.0052	0.0031	1	02/06/23 22:45	02/07/23 15:30	50-32-8	
Benzo(b)fluoranthene	<0.0029	mg/kg	0.0052	0.0029	1	02/06/23 22:45	02/07/23 15:30	205-99-2	
Benzo(g,h,i)perylene	<0.0031	mg/kg	0.0052	0.0031	1	02/06/23 22:45	02/07/23 15:30	191-24-2	
Benzo(k)fluoranthene	<0.0024	mg/kg	0.0052	0.0024	1	02/06/23 22:45	02/07/23 15:30	207-08-9	
Chrysene	<0.0036	mg/kg	0.0052	0.0036	1	02/06/23 22:45	02/07/23 15:30	218-01-9	
Dibenz(a,h)anthracene	<0.0026	mg/kg	0.0052	0.0026	1	02/06/23 22:45	02/07/23 15:30	53-70-3	
Fluoranthene	<0.0036	mg/kg	0.0052	0.0036	1	02/06/23 22:45	02/07/23 15:30	206-44-0	
Fluorene	<0.0021	mg/kg	0.0052	0.0021	1	02/06/23 22:45	02/07/23 15:30	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0026	mg/kg	0.0052	0.0026	1	02/06/23 22:45	02/07/23 15:30	193-39-5	
1-Methylnaphthalene	<0.0021	mg/kg	0.0052	0.0021	1	02/06/23 22:45	02/07/23 15:30	90-12-0	
2-Methylnaphthalene	<0.0020	mg/kg	0.0052	0.0020	1	02/06/23 22:45	02/07/23 15:30	91-57-6	
Naphthalene	<0.0019	mg/kg	0.0052	0.0019	1	02/06/23 22:45	02/07/23 15:30	91-20-3	
Phenanthrene	<0.0037	mg/kg	0.0052	0.0037	1	02/06/23 22:45	02/07/23 15:30	85-01-8	
Pyrene	<0.0036	mg/kg	0.0052	0.0036	1	02/06/23 22:45	02/07/23 15:30	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	69	%	28-116		1	02/06/23 22:45	02/07/23 15:30	321-60-8	
p-Terphenyl-d14 (S)	80	%	27-127		1	02/06/23 22:45	02/07/23 15:30	1718-51-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: SP-4 Dup (0-2') **Lab ID: 50336749005** Collected: 02/01/23 13:10 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: SM 2540G Pace Analytical Services - Indianapolis								
Percent Moisture	5.0	%	0.10	0.10	1		02/07/23 21:22		N2

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: SP-4 (8-10') Lab ID: 50336749006 Collected: 02/01/23 13:15 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Initial Volume/Weight: 1.0672 g Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	<0.92	mg/kg	3.5	0.92	3	02/15/23 09:12	02/16/23 16:31	7440-36-0	D3
Arsenic	12.9	mg/kg	1.2	0.19	1	02/15/23 09:12	02/16/23 15:21	7440-38-2	
Barium	75.5	mg/kg	1.2	0.22	1	02/15/23 09:12	02/16/23 15:21	7440-39-3	
Beryllium	0.88	mg/kg	0.58	0.12	1	02/15/23 09:12	02/16/23 15:21	7440-41-7	
Cadmium	<0.027	mg/kg	0.58	0.027	1	02/15/23 09:12	02/16/23 15:21	7440-43-9	
Chromium	28.1	mg/kg	1.2	1.1	1	02/15/23 09:12	02/16/23 15:21	7440-47-3	
Copper	13.2	mg/kg	1.2	0.28	1	02/15/23 09:12	02/16/23 15:21	7440-50-8	
Lead	16.5	mg/kg	1.2	0.54	1	02/15/23 09:12	02/16/23 15:21	7439-92-1	
Nickel	19.2	mg/kg	1.2	0.15	1	02/15/23 09:12	02/16/23 15:21	7440-02-0	
Selenium	1.1J	mg/kg	1.2	0.32	1	02/15/23 09:12	02/16/23 15:21	7782-49-2	
Silver	0.33J	mg/kg	0.58	0.15	1	02/15/23 09:12	02/16/23 15:21	7440-22-4	
Thallium	<0.23	mg/kg	1.2	0.23	1	02/15/23 09:12	02/16/23 15:21	7440-28-0	
Zinc	55.6	mg/kg	1.2	1.0	1	02/15/23 09:12	02/16/23 15:21	7440-66-6	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Initial Volume/Weight: 0.302 g Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Mercury	0.044J	mg/kg	0.25	0.028	1	02/14/23 20:16	02/15/23 09:04	7439-97-6	
8270 PAH Soil by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Initial Volume/Weight: 15.2 g Final Volume/Weight: 1 mL									
Pace Analytical Services - Indianapolis									
Acenaphthene	<0.0025	mg/kg	0.0061	0.0025	1	02/06/23 22:45	02/07/23 15:44	83-32-9	
Acenaphthylene	<0.0023	mg/kg	0.0061	0.0023	1	02/06/23 22:45	02/07/23 15:44	208-96-8	
Anthracene	<0.0031	mg/kg	0.0061	0.0031	1	02/06/23 22:45	02/07/23 15:44	120-12-7	
Benzo(a)anthracene	<0.0037	mg/kg	0.0061	0.0037	1	02/06/23 22:45	02/07/23 15:44	56-55-3	
Benzo(a)pyrene	<0.0036	mg/kg	0.0061	0.0036	1	02/06/23 22:45	02/07/23 15:44	50-32-8	
Benzo(b)fluoranthene	<0.0034	mg/kg	0.0061	0.0034	1	02/06/23 22:45	02/07/23 15:44	205-99-2	
Benzo(g,h,i)perylene	<0.0036	mg/kg	0.0061	0.0036	1	02/06/23 22:45	02/07/23 15:44	191-24-2	
Benzo(k)fluoranthene	<0.0028	mg/kg	0.0061	0.0028	1	02/06/23 22:45	02/07/23 15:44	207-08-9	
Chrysene	<0.0042	mg/kg	0.0061	0.0042	1	02/06/23 22:45	02/07/23 15:44	218-01-9	
Dibenz(a,h)anthracene	<0.0030	mg/kg	0.0061	0.0030	1	02/06/23 22:45	02/07/23 15:44	53-70-3	
Fluoranthene	<0.0043	mg/kg	0.0061	0.0043	1	02/06/23 22:45	02/07/23 15:44	206-44-0	
Fluorene	<0.0024	mg/kg	0.0061	0.0024	1	02/06/23 22:45	02/07/23 15:44	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0031	mg/kg	0.0061	0.0031	1	02/06/23 22:45	02/07/23 15:44	193-39-5	
1-Methylnaphthalene	0.017	mg/kg	0.0061	0.0025	1	02/06/23 22:45	02/07/23 15:44	90-12-0	
2-Methylnaphthalene	0.036	mg/kg	0.0061	0.0023	1	02/06/23 22:45	02/07/23 15:44	91-57-6	
Naphthalene	0.080	mg/kg	0.0061	0.0023	1	02/06/23 22:45	02/07/23 15:44	91-20-3	
Phenanthrene	<0.0044	mg/kg	0.0061	0.0044	1	02/06/23 22:45	02/07/23 15:44	85-01-8	
Pyrene	<0.0042	mg/kg	0.0061	0.0042	1	02/06/23 22:45	02/07/23 15:44	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	68	%	28-116		1	02/06/23 22:45	02/07/23 15:44	321-60-8	
p-Terphenyl-d14 (S)	76	%	27-127		1	02/06/23 22:45	02/07/23 15:44	1718-51-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: SP-4 (8-10') **Lab ID: 50336749006** Collected: 02/01/23 13:15 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: SM 2540G Pace Analytical Services - Indianapolis								
Percent Moisture	19.2	%	0.10	0.10	1		02/07/23 21:23		N2

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: SP-5 (5-6') Lab ID: 50336749007 Collected: 02/01/23 12:45 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Initial Volume/Weight: 1.0743 g Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	<0.30	mg/kg	1.1	0.30	1	02/15/23 09:12	02/16/23 15:24	7440-36-0	
Arsenic	8.2	mg/kg	1.1	0.19	1	02/15/23 09:12	02/16/23 15:24	7440-38-2	
Barium	98.7	mg/kg	1.1	0.21	1	02/15/23 09:12	02/16/23 15:24	7440-39-3	
Beryllium	0.68	mg/kg	0.56	0.11	1	02/15/23 09:12	02/16/23 15:24	7440-41-7	
Cadmium	<0.026	mg/kg	0.56	0.026	1	02/15/23 09:12	02/16/23 15:24	7440-43-9	
Chromium	20.9	mg/kg	1.1	1.1	1	02/15/23 09:12	02/16/23 15:24	7440-47-3	
Copper	10.8	mg/kg	1.1	0.27	1	02/15/23 09:12	02/16/23 15:24	7440-50-8	
Lead	11.1	mg/kg	1.1	0.52	1	02/15/23 09:12	02/16/23 15:24	7439-92-1	
Nickel	12.9	mg/kg	1.1	0.15	1	02/15/23 09:12	02/16/23 15:24	7440-02-0	
Selenium	0.41J	mg/kg	1.1	0.31	1	02/15/23 09:12	02/16/23 15:24	7782-49-2	
Silver	0.24J	mg/kg	0.56	0.14	1	02/15/23 09:12	02/16/23 15:24	7440-22-4	
Thallium	<0.67	mg/kg	3.4	0.67	3	02/15/23 09:12	02/17/23 08:37	7440-28-0	D3
Zinc	34.9	mg/kg	1.1	0.97	1	02/15/23 09:12	02/16/23 15:24	7440-66-6	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Initial Volume/Weight: 0.295 g Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Mercury	0.042J	mg/kg	0.25	0.028	1	02/14/23 20:16	02/15/23 09:12	7439-97-6	
8270 PAH Soil by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Initial Volume/Weight: 15.3 g Final Volume/Weight: 1 mL									
Pace Analytical Services - Indianapolis									
Acenaphthene	<0.0024	mg/kg	0.0059	0.0024	1	02/06/23 22:45	02/07/23 15:59	83-32-9	
Acenaphthylene	<0.0022	mg/kg	0.0059	0.0022	1	02/06/23 22:45	02/07/23 15:59	208-96-8	
Anthracene	<0.0030	mg/kg	0.0059	0.0030	1	02/06/23 22:45	02/07/23 15:59	120-12-7	
Benzo(a)anthracene	<0.0036	mg/kg	0.0059	0.0036	1	02/06/23 22:45	02/07/23 15:59	56-55-3	
Benzo(a)pyrene	<0.0035	mg/kg	0.0059	0.0035	1	02/06/23 22:45	02/07/23 15:59	50-32-8	
Benzo(b)fluoranthene	<0.0033	mg/kg	0.0059	0.0033	1	02/06/23 22:45	02/07/23 15:59	205-99-2	
Benzo(g,h,i)perylene	<0.0035	mg/kg	0.0059	0.0035	1	02/06/23 22:45	02/07/23 15:59	191-24-2	
Benzo(k)fluoranthene	<0.0027	mg/kg	0.0059	0.0027	1	02/06/23 22:45	02/07/23 15:59	207-08-9	
Chrysene	<0.0041	mg/kg	0.0059	0.0041	1	02/06/23 22:45	02/07/23 15:59	218-01-9	
Dibenz(a,h)anthracene	<0.0029	mg/kg	0.0059	0.0029	1	02/06/23 22:45	02/07/23 15:59	53-70-3	
Fluoranthene	<0.0041	mg/kg	0.0059	0.0041	1	02/06/23 22:45	02/07/23 15:59	206-44-0	
Fluorene	<0.0023	mg/kg	0.0059	0.0023	1	02/06/23 22:45	02/07/23 15:59	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0030	mg/kg	0.0059	0.0030	1	02/06/23 22:45	02/07/23 15:59	193-39-5	
1-Methylnaphthalene	<0.0024	mg/kg	0.0059	0.0024	1	02/06/23 22:45	02/07/23 15:59	90-12-0	
2-Methylnaphthalene	<0.0023	mg/kg	0.0059	0.0023	1	02/06/23 22:45	02/07/23 15:59	91-57-6	
Naphthalene	<0.0022	mg/kg	0.0059	0.0022	1	02/06/23 22:45	02/07/23 15:59	91-20-3	
Phenanthrene	<0.0043	mg/kg	0.0059	0.0043	1	02/06/23 22:45	02/07/23 15:59	85-01-8	
Pyrene	<0.0041	mg/kg	0.0059	0.0041	1	02/06/23 22:45	02/07/23 15:59	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	76	%	28-116		1	02/06/23 22:45	02/07/23 15:59	321-60-8	
p-Terphenyl-d14 (S)	86	%	27-127		1	02/06/23 22:45	02/07/23 15:59	1718-51-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: SP-5 (5-6') **Lab ID: 50336749007** Collected: 02/01/23 12:45 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: SM 2540G Pace Analytical Services - Indianapolis								
Percent Moisture	17.3	%	0.10	0.10	1		02/07/23 21:23		N2

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: SP-5 (8-10') **Lab ID: 50336749008** Collected: 02/01/23 12:45 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Initial Volume/Weight: 1.0681 g Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	<0.31	mg/kg	1.2	0.31	1	02/15/23 09:12	02/16/23 15:28	7440-36-0	
Arsenic	8.2	mg/kg	1.2	0.19	1	02/15/23 09:12	02/16/23 15:28	7440-38-2	
Barium	73.4	mg/kg	1.2	0.22	1	02/15/23 09:12	02/16/23 15:28	7440-39-3	
Beryllium	0.72	mg/kg	0.58	0.12	1	02/15/23 09:12	02/16/23 15:28	7440-41-7	
Cadmium	<0.027	mg/kg	0.58	0.027	1	02/15/23 09:12	02/16/23 15:28	7440-43-9	
Chromium	24.1	mg/kg	1.2	1.1	1	02/15/23 09:12	02/16/23 15:28	7440-47-3	
Copper	10.8	mg/kg	1.2	0.28	1	02/15/23 09:12	02/16/23 15:28	7440-50-8	
Lead	11.9	mg/kg	1.2	0.54	1	02/15/23 09:12	02/16/23 15:28	7439-92-1	
Nickel	14.0	mg/kg	1.2	0.15	1	02/15/23 09:12	02/16/23 15:28	7440-02-0	
Selenium	0.48J	mg/kg	1.2	0.32	1	02/15/23 09:12	02/16/23 15:28	7782-49-2	
Silver	0.22J	mg/kg	0.58	0.15	1	02/15/23 09:12	02/16/23 15:28	7440-22-4	
Thallium	<0.69	mg/kg	3.5	0.69	3	02/15/23 09:12	02/17/23 08:40	7440-28-0	
Zinc	34.8	mg/kg	1.2	1.0	1	02/15/23 09:12	02/16/23 15:28	7440-66-6	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Initial Volume/Weight: 0.288 g Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Mercury	0.039J	mg/kg	0.26	0.030	1	02/14/23 20:16	02/15/23 09:14	7439-97-6	
8270 PAH Soil by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Initial Volume/Weight: 15.4 g Final Volume/Weight: 1 mL									
Pace Analytical Services - Indianapolis									
Acenaphthene	<0.0024	mg/kg	0.0060	0.0024	1	02/06/23 22:45	02/07/23 16:42	83-32-9	
Acenaphthylene	<0.0023	mg/kg	0.0060	0.0023	1	02/06/23 22:45	02/07/23 16:42	208-96-8	
Anthracene	<0.0030	mg/kg	0.0060	0.0030	1	02/06/23 22:45	02/07/23 16:42	120-12-7	
Benzo(a)anthracene	<0.0036	mg/kg	0.0060	0.0036	1	02/06/23 22:45	02/07/23 16:42	56-55-3	
Benzo(a)pyrene	<0.0036	mg/kg	0.0060	0.0036	1	02/06/23 22:45	02/07/23 16:42	50-32-8	
Benzo(b)fluoranthene	<0.0033	mg/kg	0.0060	0.0033	1	02/06/23 22:45	02/07/23 16:42	205-99-2	
Benzo(g,h,i)perylene	<0.0036	mg/kg	0.0060	0.0036	1	02/06/23 22:45	02/07/23 16:42	191-24-2	
Benzo(k)fluoranthene	<0.0028	mg/kg	0.0060	0.0028	1	02/06/23 22:45	02/07/23 16:42	207-08-9	
Chrysene	<0.0041	mg/kg	0.0060	0.0041	1	02/06/23 22:45	02/07/23 16:42	218-01-9	
Dibenz(a,h)anthracene	<0.0030	mg/kg	0.0060	0.0030	1	02/06/23 22:45	02/07/23 16:42	53-70-3	
Fluoranthene	<0.0042	mg/kg	0.0060	0.0042	1	02/06/23 22:45	02/07/23 16:42	206-44-0	
Fluorene	<0.0024	mg/kg	0.0060	0.0024	1	02/06/23 22:45	02/07/23 16:42	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0031	mg/kg	0.0060	0.0031	1	02/06/23 22:45	02/07/23 16:42	193-39-5	
1-Methylnaphthalene	<0.0024	mg/kg	0.0060	0.0024	1	02/06/23 22:45	02/07/23 16:42	90-12-0	
2-Methylnaphthalene	<0.0023	mg/kg	0.0060	0.0023	1	02/06/23 22:45	02/07/23 16:42	91-57-6	
Naphthalene	<0.0023	mg/kg	0.0060	0.0023	1	02/06/23 22:45	02/07/23 16:42	91-20-3	
Phenanthrene	<0.0043	mg/kg	0.0060	0.0043	1	02/06/23 22:45	02/07/23 16:42	85-01-8	
Pyrene	<0.0041	mg/kg	0.0060	0.0041	1	02/06/23 22:45	02/07/23 16:42	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	75	%	28-116		1	02/06/23 22:45	02/07/23 16:42	321-60-8	
p-Terphenyl-d14 (S)	84	%	27-127		1	02/06/23 22:45	02/07/23 16:42	1718-51-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: SP-5 (8-10') **Lab ID: 50336749008** Collected: 02/01/23 12:45 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: SM 2540G Pace Analytical Services - Indianapolis								
Percent Moisture	19.3	%	0.10	0.10	1		02/07/23 21:23		N2

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: SP-6 (0-2) **Lab ID: 50336749009** Collected: 02/01/23 11:35 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Initial Volume/Weight: 1.0167 g Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.39J	mg/kg	1.0	0.27	1	02/15/23 09:12	02/16/23 15:32	7440-36-0	
Arsenic	1.1	mg/kg	1.0	0.17	1	02/15/23 09:12	02/16/23 15:32	7440-38-2	
Barium	157	mg/kg	1.0	0.19	1	02/15/23 09:12	02/16/23 15:32	7440-39-3	
Beryllium	<0.11	mg/kg	0.52	0.11	1	02/15/23 09:12	02/16/23 15:32	7440-41-7	
Cadmium	0.45J	mg/kg	0.52	0.024	1	02/15/23 09:12	02/16/23 15:32	7440-43-9	
Chromium	7.0	mg/kg	1.0	0.98	1	02/15/23 09:12	02/16/23 15:32	7440-47-3	
Copper	5.9	mg/kg	1.0	0.25	1	02/15/23 09:12	02/16/23 15:32	7440-50-8	
Lead	1.6	mg/kg	1.0	0.48	1	02/15/23 09:12	02/16/23 15:32	7439-92-1	
Nickel	8.0	mg/kg	1.0	0.13	1	02/15/23 09:12	02/16/23 15:32	7440-02-0	
Selenium	0.36J	mg/kg	1.0	0.29	1	02/15/23 09:12	02/16/23 15:32	7782-49-2	
Silver	<0.13	mg/kg	0.52	0.13	1	02/15/23 09:12	02/16/23 15:32	7440-22-4	
Thallium	<0.20	mg/kg	1.0	0.20	1	02/15/23 09:12	02/16/23 15:32	7440-28-0	
Zinc	28.7	mg/kg	1.0	0.89	1	02/15/23 09:12	02/16/23 15:32	7440-66-6	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Initial Volume/Weight: 0.283 g Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Mercury	<0.026	mg/kg	0.22	0.026	1	02/14/23 20:16	02/15/23 09:16	7439-97-6	
8270 PAH Soil by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Initial Volume/Weight: 15.4 g Final Volume/Weight: 1 mL									
Pace Analytical Services - Indianapolis									
Acenaphthene	<0.0021	mg/kg	0.0051	0.0021	1	02/06/23 22:45	02/08/23 15:58	83-32-9	
Acenaphthylene	<0.0019	mg/kg	0.0051	0.0019	1	02/06/23 22:45	02/08/23 15:58	208-96-8	
Anthracene	<0.0026	mg/kg	0.0051	0.0026	1	02/06/23 22:45	02/08/23 15:58	120-12-7	
Benzo(a)anthracene	<0.0031	mg/kg	0.0051	0.0031	1	02/06/23 22:45	02/08/23 15:58	56-55-3	
Benzo(a)pyrene	0.0036J	mg/kg	0.0051	0.0030	1	02/06/23 22:45	02/08/23 15:58	50-32-8	
Benzo(b)fluoranthene	0.0043J	mg/kg	0.0051	0.0028	1	02/06/23 22:45	02/08/23 15:58	205-99-2	
Benzo(g,h,i)perylene	0.0038J	mg/kg	0.0051	0.0030	1	02/06/23 22:45	02/08/23 15:58	191-24-2	
Benzo(k)fluoranthene	<0.0024	mg/kg	0.0051	0.0024	1	02/06/23 22:45	02/08/23 15:58	207-08-9	
Chrysene	0.0053	mg/kg	0.0051	0.0035	1	02/06/23 22:45	02/08/23 15:58	218-01-9	
Dibenz(a,h)anthracene	<0.0025	mg/kg	0.0051	0.0025	1	02/06/23 22:45	02/08/23 15:58	53-70-3	
Fluoranthene	0.0044J	mg/kg	0.0051	0.0036	1	02/06/23 22:45	02/08/23 15:58	206-44-0	
Fluorene	<0.0020	mg/kg	0.0051	0.0020	1	02/06/23 22:45	02/08/23 15:58	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0026	mg/kg	0.0051	0.0026	1	02/06/23 22:45	02/08/23 15:58	193-39-5	
1-Methylnaphthalene	<0.0021	mg/kg	0.0051	0.0021	1	02/06/23 22:45	02/08/23 15:58	90-12-0	
2-Methylnaphthalene	<0.0020	mg/kg	0.0051	0.0020	1	02/06/23 22:45	02/08/23 15:58	91-57-6	
Naphthalene	<0.0019	mg/kg	0.0051	0.0019	1	02/06/23 22:45	02/08/23 15:58	91-20-3	
Phenanthrene	<0.0037	mg/kg	0.0051	0.0037	1	02/06/23 22:45	02/08/23 15:58	85-01-8	
Pyrene	0.0045J	mg/kg	0.0051	0.0035	1	02/06/23 22:45	02/08/23 15:58	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	70	%	28-116		1	02/06/23 22:45	02/08/23 15:58	321-60-8	
p-Terphenyl-d14 (S)	79	%	27-127		1	02/06/23 22:45	02/08/23 15:58	1718-51-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: SP-6 (0-2') **Lab ID: 50336749009** Collected: 02/01/23 11:35 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: SM 2540G Pace Analytical Services - Indianapolis								
Percent Moisture	4.6	%	0.10	0.10	1		02/07/23 21:23		N2

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: SP-7 (0-2) **Lab ID: 50336749010** Collected: 02/01/23 10:50 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Initial Volume/Weight: 1.0351 g Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.36J	mg/kg	1.0	0.26	1	02/15/23 09:12	02/16/23 15:35	7440-36-0	
Arsenic	1.7	mg/kg	1.0	0.17	1	02/15/23 09:12	02/16/23 15:35	7440-38-2	
Barium	29.2	mg/kg	1.0	0.19	1	02/15/23 09:12	02/16/23 15:35	7440-39-3	
Beryllium	<0.10	mg/kg	0.50	0.10	1	02/15/23 09:12	02/16/23 15:35	7440-41-7	
Cadmium	0.29J	mg/kg	0.50	0.023	1	02/15/23 09:12	02/16/23 15:35	7440-43-9	
Chromium	4.8	mg/kg	1.0	0.95	1	02/15/23 09:12	02/16/23 15:35	7440-47-3	
Copper	3.4	mg/kg	1.0	0.24	1	02/15/23 09:12	02/16/23 15:35	7440-50-8	
Lead	14.6	mg/kg	1.0	0.46	1	02/15/23 09:12	02/16/23 15:35	7439-92-1	
Nickel	6.3	mg/kg	1.0	0.13	1	02/15/23 09:12	02/16/23 15:35	7440-02-0	
Selenium	<0.28	mg/kg	1.0	0.28	1	02/15/23 09:12	02/16/23 15:35	7782-49-2	
Silver	<0.13	mg/kg	0.50	0.13	1	02/15/23 09:12	02/16/23 15:35	7440-22-4	
Thallium	<0.59	mg/kg	3.0	0.59	3	02/15/23 09:12	02/17/23 08:44	7440-28-0	D3
Zinc	21.6	mg/kg	1.0	0.86	1	02/15/23 09:12	02/16/23 15:35	7440-66-6	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Initial Volume/Weight: 0.288 g Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Mercury	<0.025	mg/kg	0.22	0.025	1	02/14/23 20:16	02/15/23 09:19	7439-97-6	
8270 PAH Soil by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Initial Volume/Weight: 15.5 g Final Volume/Weight: 1 mL									
Pace Analytical Services - Indianapolis									
Acenaphthene	<0.020	mg/kg	0.050	0.020	10	02/06/23 22:45	02/07/23 17:11	83-32-9	
Acenaphthylene	<0.019	mg/kg	0.050	0.019	10	02/06/23 22:45	02/07/23 17:11	208-96-8	
Anthracene	<0.025	mg/kg	0.050	0.025	10	02/06/23 22:45	02/07/23 17:11	120-12-7	
Benzo(a)anthracene	<0.030	mg/kg	0.050	0.030	10	02/06/23 22:45	02/07/23 17:11	56-55-3	
Benzo(a)pyrene	<0.030	mg/kg	0.050	0.030	10	02/06/23 22:45	02/07/23 17:11	50-32-8	
Benzo(b)fluoranthene	<0.028	mg/kg	0.050	0.028	10	02/06/23 22:45	02/07/23 17:11	205-99-2	
Benzo(g,h,i)perylene	<0.030	mg/kg	0.050	0.030	10	02/06/23 22:45	02/07/23 17:11	191-24-2	
Benzo(k)fluoranthene	<0.023	mg/kg	0.050	0.023	10	02/06/23 22:45	02/07/23 17:11	207-08-9	
Chrysene	0.036J	mg/kg	0.050	0.034	10	02/06/23 22:45	02/07/23 17:11	218-01-9	
Dibenz(a,h)anthracene	<0.025	mg/kg	0.050	0.025	10	02/06/23 22:45	02/07/23 17:11	53-70-3	
Fluoranthene	0.16	mg/kg	0.050	0.035	10	02/06/23 22:45	02/07/23 17:11	206-44-0	
Fluorene	<0.020	mg/kg	0.050	0.020	10	02/06/23 22:45	02/07/23 17:11	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.025	mg/kg	0.050	0.025	10	02/06/23 22:45	02/07/23 17:11	193-39-5	
1-Methylnaphthalene	<0.020	mg/kg	0.050	0.020	10	02/06/23 22:45	02/07/23 17:11	90-12-0	
2-Methylnaphthalene	<0.019	mg/kg	0.050	0.019	10	02/06/23 22:45	02/07/23 17:11	91-57-6	
Naphthalene	<0.019	mg/kg	0.050	0.019	10	02/06/23 22:45	02/07/23 17:11	91-20-3	ED
Phenanthrene	<0.036	mg/kg	0.050	0.036	10	02/06/23 22:45	02/07/23 17:11	85-01-8	
Pyrene	0.14	mg/kg	0.050	0.034	10	02/06/23 22:45	02/07/23 17:11	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	64	%	28-116		10	02/06/23 22:45	02/07/23 17:11	321-60-8	
p-Terphenyl-d14 (S)	72	%	27-127		10	02/06/23 22:45	02/07/23 17:11	1718-51-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: SP-7 (0-2) **Lab ID: 50336749010** Collected: 02/01/23 10:50 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: SM 2540G Pace Analytical Services - Indianapolis								
Percent Moisture	3.2	%	0.10	0.10	1		02/07/23 21:23		N2

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: SP-8 (0-2) **Lab ID: 50336749011** Collected: 02/01/23 09:55 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Initial Volume/Weight: 1.0743 g Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.41J	mg/kg	1.1	0.29	1	02/15/23 09:12	02/16/23 15:39	7440-36-0	
Arsenic	4.7	mg/kg	1.1	0.18	1	02/15/23 09:12	02/16/23 15:39	7440-38-2	
Barium	95.3	mg/kg	1.1	0.21	1	02/15/23 09:12	02/16/23 15:39	7440-39-3	
Beryllium	<0.11	mg/kg	0.55	0.11	1	02/15/23 09:12	02/16/23 15:39	7440-41-7	
Cadmium	0.43J	mg/kg	0.55	0.025	1	02/15/23 09:12	02/16/23 15:39	7440-43-9	
Chromium	15.5	mg/kg	1.1	1.0	1	02/15/23 09:12	02/16/23 15:39	7440-47-3	
Copper	5.2	mg/kg	1.1	0.26	1	02/15/23 09:12	02/16/23 15:39	7440-50-8	
Lead	10.8	mg/kg	1.1	0.51	1	02/15/23 09:12	02/16/23 15:39	7439-92-1	
Nickel	12.9	mg/kg	1.1	0.14	1	02/15/23 09:12	02/16/23 15:39	7440-02-0	
Selenium	0.38J	mg/kg	1.1	0.30	1	02/15/23 09:12	02/16/23 15:39	7782-49-2	
Silver	<0.14	mg/kg	0.55	0.14	1	02/15/23 09:12	02/16/23 15:39	7440-22-4	
Thallium	<0.22	mg/kg	1.1	0.22	1	02/15/23 09:12	02/16/23 15:39	7440-28-0	
Zinc	34.3	mg/kg	1.1	0.94	1	02/15/23 09:12	02/16/23 15:39	7440-66-6	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Initial Volume/Weight: 0.315 g Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Mercury	0.070J	mg/kg	0.22	0.026	1	02/14/23 20:16	02/15/23 09:48	7439-97-6	
8270 PAH Soil by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Initial Volume/Weight: 15.4 g Final Volume/Weight: 1 mL									
Pace Analytical Services - Indianapolis									
Acenaphthene	<0.011	mg/kg	0.029	0.011	5	02/06/23 15:00	02/07/23 19:22	83-32-9	
Acenaphthylene	<0.011	mg/kg	0.029	0.011	5	02/06/23 15:00	02/07/23 19:22	208-96-8	
Anthracene	<0.014	mg/kg	0.029	0.014	5	02/06/23 15:00	02/07/23 19:22	120-12-7	
Benzo(a)anthracene	0.049	mg/kg	0.029	0.017	5	02/06/23 15:00	02/07/23 19:22	56-55-3	M1,R1
Benzo(a)pyrene	0.037	mg/kg	0.029	0.017	5	02/06/23 15:00	02/07/23 19:22	50-32-8	M1,R1
Benzo(b)fluoranthene	0.085	mg/kg	0.029	0.016	5	02/06/23 15:00	02/07/23 19:22	205-99-2	M1,R1
Benzo(g,h,i)perylene	0.030	mg/kg	0.029	0.017	5	02/06/23 15:00	02/07/23 19:22	191-24-2	M1,R1
Benzo(k)fluoranthene	0.024J	mg/kg	0.029	0.013	5	02/06/23 15:00	02/07/23 19:22	207-08-9	M1,R1
Chrysene	0.062	mg/kg	0.029	0.020	5	02/06/23 15:00	02/07/23 19:22	218-01-9	M1,R1
Dibenz(a,h)anthracene	<0.014	mg/kg	0.029	0.014	5	02/06/23 15:00	02/07/23 19:22	53-70-3	R1
Fluoranthene	0.070	mg/kg	0.029	0.020	5	02/06/23 15:00	02/07/23 19:22	206-44-0	M1,R1
Fluorene	<0.011	mg/kg	0.029	0.011	5	02/06/23 15:00	02/07/23 19:22	86-73-7	
Indeno(1,2,3-cd)pyrene	0.027J	mg/kg	0.029	0.015	5	02/06/23 15:00	02/07/23 19:22	193-39-5	M1,R1
1-Methylnaphthalene	<0.011	mg/kg	0.029	0.011	5	02/06/23 15:00	02/07/23 19:22	90-12-0	
2-Methylnaphthalene	<0.011	mg/kg	0.029	0.011	5	02/06/23 15:00	02/07/23 19:22	91-57-6	
Naphthalene	<0.011	mg/kg	0.029	0.011	5	02/06/23 15:00	02/07/23 19:22	91-20-3	ED
Phenanthrene	0.037	mg/kg	0.029	0.021	5	02/06/23 15:00	02/07/23 19:22	85-01-8	
Pyrene	0.070	mg/kg	0.029	0.020	5	02/06/23 15:00	02/07/23 19:22	129-00-0	M1,R1
Surrogates									
2-Fluorobiphenyl (S)	71	%	28-116		5	02/06/23 15:00	02/07/23 19:22	321-60-8	
p-Terphenyl-d14 (S)	56	%	27-127		5	02/06/23 15:00	02/07/23 19:22	1718-51-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: SP-8 (0-2) **Lab ID: 50336749011** Collected: 02/01/23 09:55 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: SM 2540G Pace Analytical Services - Indianapolis								
Percent Moisture	14.7	%	0.10	0.10	1		02/07/23 21:23		N2

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: SP-8 (4-5) **Lab ID: 50336749012** Collected: 02/01/23 09:55 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Initial Volume/Weight: 1.1096 g Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	<1.5	mg/kg	5.7	1.5	5	02/15/23 09:12	02/17/23 08:48	7440-36-0	D3
Arsenic	12.7	mg/kg	1.1	0.19	1	02/15/23 09:12	02/16/23 16:05	7440-38-2	
Barium	207	mg/kg	1.1	0.21	1	02/15/23 09:12	02/16/23 16:05	7440-39-3	
Beryllium	0.56J	mg/kg	0.57	0.12	1	02/15/23 09:12	02/16/23 16:05	7440-41-7	
Cadmium	1.2	mg/kg	0.57	0.026	1	02/15/23 09:12	02/16/23 16:05	7440-43-9	
Chromium	25.3	mg/kg	1.1	1.1	1	02/15/23 09:12	02/16/23 16:05	7440-47-3	
Copper	32.3	mg/kg	1.1	0.27	1	02/15/23 09:12	02/16/23 16:05	7440-50-8	
Lead	734	mg/kg	1.1	0.53	1	02/15/23 09:12	02/16/23 16:05	7439-92-1	
Nickel	12.6	mg/kg	1.1	0.15	1	02/15/23 09:12	02/16/23 16:05	7440-02-0	
Selenium	1.1J	mg/kg	1.1	0.32	1	02/15/23 09:12	02/16/23 16:05	7782-49-2	
Silver	0.33J	mg/kg	0.57	0.14	1	02/15/23 09:12	02/16/23 16:05	7440-22-4	
Thallium	<1.1	mg/kg	5.7	1.1	5	02/15/23 09:12	02/17/23 08:48	7440-28-0	D3
Zinc	401	mg/kg	1.1	0.99	1	02/15/23 09:12	02/16/23 16:05	7440-66-6	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Initial Volume/Weight: 0.3 g Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Mercury	0.10J	mg/kg	0.25	0.029	1	02/14/23 20:16	02/15/23 09:56	7439-97-6	
8270 PAH Soil by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Initial Volume/Weight: 15.4 g Final Volume/Weight: 1 mL									
Pace Analytical Services - Indianapolis									
Acenaphthene	<0.012	mg/kg	0.031	0.012	5	02/06/23 22:45	02/07/23 17:26	83-32-9	
Acenaphthylene	<0.012	mg/kg	0.031	0.012	5	02/06/23 22:45	02/07/23 17:26	208-96-8	
Anthracene	<0.015	mg/kg	0.031	0.015	5	02/06/23 22:45	02/07/23 17:26	120-12-7	
Benzo(a)anthracene	0.028J	mg/kg	0.031	0.019	5	02/06/23 22:45	02/07/23 17:26	56-55-3	
Benzo(a)pyrene	0.021J	mg/kg	0.031	0.018	5	02/06/23 22:45	02/07/23 17:26	50-32-8	
Benzo(b)fluoranthene	0.035	mg/kg	0.031	0.017	5	02/06/23 22:45	02/07/23 17:26	205-99-2	
Benzo(g,h,i)perylene	<0.018	mg/kg	0.031	0.018	5	02/06/23 22:45	02/07/23 17:26	191-24-2	
Benzo(k)fluoranthene	<0.014	mg/kg	0.031	0.014	5	02/06/23 22:45	02/07/23 17:26	207-08-9	
Chrysene	0.035	mg/kg	0.031	0.021	5	02/06/23 22:45	02/07/23 17:26	218-01-9	
Dibenz(a,h)anthracene	<0.015	mg/kg	0.031	0.015	5	02/06/23 22:45	02/07/23 17:26	53-70-3	
Fluoranthene	0.065	mg/kg	0.031	0.021	5	02/06/23 22:45	02/07/23 17:26	206-44-0	
Fluorene	0.022J	mg/kg	0.031	0.012	5	02/06/23 22:45	02/07/23 17:26	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.016	mg/kg	0.031	0.016	5	02/06/23 22:45	02/07/23 17:26	193-39-5	
1-Methylnaphthalene	0.022J	mg/kg	0.031	0.012	5	02/06/23 22:45	02/07/23 17:26	90-12-0	
2-Methylnaphthalene	0.032	mg/kg	0.031	0.012	5	02/06/23 22:45	02/07/23 17:26	91-57-6	
Naphthalene	0.032	mg/kg	0.031	0.012	5	02/06/23 22:45	02/07/23 17:26	91-20-3	ED
Phenanthrene	0.067	mg/kg	0.031	0.022	5	02/06/23 22:45	02/07/23 17:26	85-01-8	
Pyrene	0.055	mg/kg	0.031	0.021	5	02/06/23 22:45	02/07/23 17:26	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	56	%	28-116		5	02/06/23 22:45	02/07/23 17:26	321-60-8	
p-Terphenyl-d14 (S)	61	%	27-127		5	02/06/23 22:45	02/07/23 17:26	1718-51-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: SP-8 (4-5') **Lab ID: 50336749012** Collected: 02/01/23 09:55 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: SM 2540G Pace Analytical Services - Indianapolis								
Percent Moisture	21.0	%	0.10	0.10	1		02/07/23 21:23		N2

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: SP-1 (6') Lab ID: 50336749013 Collected: 02/01/23 15:10 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA									
Analytical Method: EPA 8260									
Initial Volume/Weight: 5.205 g Final Volume/Weight: 5 mL									
Pace Analytical Services - Indianapolis									
Acetone	<0.0052	mg/kg	0.13	0.0052	1		02/07/23 05:24	67-64-1	
Acrolein	<0.0036	mg/kg	0.13	0.0036	1		02/07/23 05:24	107-02-8	
Acrylonitrile	<0.0013	mg/kg	0.13	0.0013	1		02/07/23 05:24	107-13-1	
Benzene	<0.00045	mg/kg	0.0066	0.00045	1		02/07/23 05:24	71-43-2	
Bromobenzene	<0.00044	mg/kg	0.0066	0.00044	1		02/07/23 05:24	108-86-1	
Bromochloromethane	<0.00023	mg/kg	0.0066	0.00023	1		02/07/23 05:24	74-97-5	
Bromodichloromethane	<0.00028	mg/kg	0.0066	0.00028	1		02/07/23 05:24	75-27-4	
Bromoform	<0.00019	mg/kg	0.0066	0.00019	1		02/07/23 05:24	75-25-2	
Bromomethane	<0.00036	mg/kg	0.0066	0.00036	1		02/07/23 05:24	74-83-9	
2-Butanone (MEK)	<0.00091	mg/kg	0.033	0.00091	1		02/07/23 05:24	78-93-3	
n-Butylbenzene	<0.00056	mg/kg	0.0066	0.00056	1		02/07/23 05:24	104-51-8	
sec-Butylbenzene	<0.00058	mg/kg	0.0066	0.00058	1		02/07/23 05:24	135-98-8	
tert-Butylbenzene	<0.00060	mg/kg	0.0066	0.00060	1		02/07/23 05:24	98-06-6	
Carbon disulfide	<0.00047	mg/kg	0.013	0.00047	1		02/07/23 05:24	75-15-0	
Carbon tetrachloride	<0.00040	mg/kg	0.0066	0.00040	1		02/07/23 05:24	56-23-5	
Chlorobenzene	<0.00046	mg/kg	0.0066	0.00046	1		02/07/23 05:24	108-90-7	
Chloroethane	<0.00022	mg/kg	0.0066	0.00022	1		02/07/23 05:24	75-00-3	
Chloroform	<0.00081	mg/kg	0.0066	0.00081	1		02/07/23 05:24	67-66-3	
Chloromethane	<0.00022	mg/kg	0.0066	0.00022	1		02/07/23 05:24	74-87-3	
2-Chlorotoluene	<0.00052	mg/kg	0.0066	0.00052	1		02/07/23 05:24	95-49-8	
4-Chlorotoluene	<0.00052	mg/kg	0.0066	0.00052	1		02/07/23 05:24	106-43-4	
Dibromochloromethane	<0.00026	mg/kg	0.0066	0.00026	1		02/07/23 05:24	124-48-1	
1,2-Dibromoethane (EDB)	<0.00030	mg/kg	0.0066	0.00030	1		02/07/23 05:24	106-93-4	
Dibromomethane	<0.00023	mg/kg	0.0066	0.00023	1		02/07/23 05:24	74-95-3	
1,2-Dichlorobenzene	<0.00044	mg/kg	0.0066	0.00044	1		02/07/23 05:24	95-50-1	
1,3-Dichlorobenzene	<0.00055	mg/kg	0.0066	0.00055	1		02/07/23 05:24	541-73-1	
1,4-Dichlorobenzene	<0.00050	mg/kg	0.0066	0.00050	1		02/07/23 05:24	106-46-7	
trans-1,4-Dichloro-2-butene	<0.00045	mg/kg	0.13	0.00045	1		02/07/23 05:24	110-57-6	
Dichlorodifluoromethane	<0.00035	mg/kg	0.0066	0.00035	1		02/07/23 05:24	75-71-8	
1,1-Dichloroethane	<0.00041	mg/kg	0.0066	0.00041	1		02/07/23 05:24	75-34-3	
1,2-Dichloroethane	<0.00035	mg/kg	0.0066	0.00035	1		02/07/23 05:24	107-06-2	
1,1-Dichloroethene	<0.00035	mg/kg	0.0066	0.00035	1		02/07/23 05:24	75-35-4	
cis-1,2-Dichloroethene	<0.00041	mg/kg	0.0066	0.00041	1		02/07/23 05:24	156-59-2	
trans-1,2-Dichloroethene	<0.00058	mg/kg	0.0066	0.00058	1		02/07/23 05:24	156-60-5	
1,2-Dichloropropane	<0.00039	mg/kg	0.0066	0.00039	1		02/07/23 05:24	78-87-5	
1,3-Dichloropropane	<0.00023	mg/kg	0.0066	0.00023	1		02/07/23 05:24	142-28-9	
2,2-Dichloropropane	<0.00051	mg/kg	0.0066	0.00051	1		02/07/23 05:24	594-20-7	
1,1-Dichloropropene	<0.00055	mg/kg	0.0066	0.00055	1		02/07/23 05:24	563-58-6	
cis-1,3-Dichloropropene	<0.00027	mg/kg	0.0066	0.00027	1		02/07/23 05:24	10061-01-5	
trans-1,3-Dichloropropene	<0.00029	mg/kg	0.0066	0.00029	1		02/07/23 05:24	10061-02-6	
Ethylbenzene	<0.00054	mg/kg	0.0066	0.00054	1		02/07/23 05:24	100-41-4	
Ethyl methacrylate	<0.00024	mg/kg	0.13	0.00024	1		02/07/23 05:24	97-63-2	
Hexachloro-1,3-butadiene	<0.00058	mg/kg	0.0066	0.00058	1		02/07/23 05:24	87-68-3	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: SP-1 (6') Lab ID: 50336749013 Collected: 02/01/23 15:10 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA									
Analytical Method: EPA 8260									
Initial Volume/Weight: 5.205 g Final Volume/Weight: 5 mL									
Pace Analytical Services - Indianapolis									
n-Hexane	<0.00029	mg/kg	0.0066	0.00029	1		02/07/23 05:24	110-54-3	
2-Hexanone	<0.0014	mg/kg	0.13	0.0014	1		02/07/23 05:24	591-78-6	
Iodomethane	<0.00038	mg/kg	0.13	0.00038	1		02/07/23 05:24	74-88-4	
Isopropylbenzene (Cumene)	<0.00056	mg/kg	0.0066	0.00056	1		02/07/23 05:24	98-82-8	
p-Isopropyltoluene	<0.00061	mg/kg	0.0066	0.00061	1		02/07/23 05:24	99-87-6	
Methylene Chloride	<0.00064	mg/kg	0.026	0.00064	1		02/07/23 05:24	75-09-2	
1-Methylnaphthalene	<0.00033	mg/kg	0.013	0.00033	1		02/07/23 05:24	90-12-0	
2-Methylnaphthalene	<0.00040	mg/kg	0.013	0.00040	1		02/07/23 05:24	91-57-6	
4-Methyl-2-pentanone (MIBK)	<0.0012	mg/kg	0.033	0.0012	1		02/07/23 05:24	108-10-1	
Methyl-tert-butyl ether	<0.00026	mg/kg	0.0066	0.00026	1		02/07/23 05:24	1634-04-4	
Naphthalene	<0.0010	mg/kg	0.0066	0.0010	1		02/07/23 05:24	91-20-3	
n-Propylbenzene	<0.00056	mg/kg	0.0066	0.00056	1		02/07/23 05:24	103-65-1	
Styrene	<0.00048	mg/kg	0.0066	0.00048	1		02/07/23 05:24	100-42-5	
1,1,1,2-Tetrachloroethane	<0.00032	mg/kg	0.0066	0.00032	1		02/07/23 05:24	630-20-6	
1,1,2,2-Tetrachloroethane	<0.00034	mg/kg	0.0066	0.00034	1		02/07/23 05:24	79-34-5	
Tetrachloroethene	<0.00053	mg/kg	0.0066	0.00053	1		02/07/23 05:24	127-18-4	
Toluene	0.0016J	mg/kg	0.0066	0.00088	1		02/07/23 05:24	108-88-3	
1,2,3-Trichlorobenzene	<0.00046	mg/kg	0.0066	0.00046	1		02/07/23 05:24	87-61-6	
1,2,4-Trichlorobenzene	<0.00055	mg/kg	0.0066	0.00055	1		02/07/23 05:24	120-82-1	
1,1,1-Trichloroethane	<0.00047	mg/kg	0.0066	0.00047	1		02/07/23 05:24	71-55-6	
1,1,2-Trichloroethane	<0.00027	mg/kg	0.0066	0.00027	1		02/07/23 05:24	79-00-5	
Trichloroethene	<0.00049	mg/kg	0.0066	0.00049	1		02/07/23 05:24	79-01-6	
Trichlorofluoromethane	<0.00022	mg/kg	0.0066	0.00022	1		02/07/23 05:24	75-69-4	
1,2,3-Trichloropropane	<0.00035	mg/kg	0.0066	0.00035	1		02/07/23 05:24	96-18-4	
1,2,4-Trimethylbenzene	<0.00057	mg/kg	0.0066	0.00057	1		02/07/23 05:24	95-63-6	
1,3,5-Trimethylbenzene	<0.00052	mg/kg	0.0066	0.00052	1		02/07/23 05:24	108-67-8	
Vinyl acetate	<0.00063	mg/kg	0.13	0.00063	1		02/07/23 05:24	108-05-4	
Vinyl chloride	<0.00022	mg/kg	0.0066	0.00022	1		02/07/23 05:24	75-01-4	
Xylene (Total)	<0.00056	mg/kg	0.013	0.00056	1		02/07/23 05:24	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	104	%	62-146		1		02/07/23 05:24	1868-53-7	
Toluene-d8 (S)	105	%	68-143		1		02/07/23 05:24	2037-26-5	
4-Bromofluorobenzene (S)	97	%	63-129		1		02/07/23 05:24	460-00-4	

Percent Moisture

Analytical Method: SM 2540G
Pace Analytical Services - Indianapolis

Percent Moisture	27.4	%	0.10	0.10	1		02/08/23 10:22		N2
------------------	------	---	------	------	---	--	----------------	--	----

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: SP-2 (7') Lab ID: 50336749014 Collected: 02/01/23 15:45 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA									
Analytical Method: EPA 8260									
Initial Volume/Weight: 6.103 g Final Volume/Weight: 5 mL									
Pace Analytical Services - Indianapolis									
Acetone	<0.0040	mg/kg	0.10	0.0040	1		02/07/23 05:55	67-64-1	
Acrolein	<0.0028	mg/kg	0.10	0.0028	1		02/07/23 05:55	107-02-8	
Acrylonitrile	<0.0010	mg/kg	0.10	0.0010	1		02/07/23 05:55	107-13-1	
Benzene	<0.00034	mg/kg	0.0051	0.00034	1		02/07/23 05:55	71-43-2	
Bromobenzene	<0.00034	mg/kg	0.0051	0.00034	1		02/07/23 05:55	108-86-1	
Bromochloromethane	<0.00018	mg/kg	0.0051	0.00018	1		02/07/23 05:55	74-97-5	
Bromodichloromethane	<0.00021	mg/kg	0.0051	0.00021	1		02/07/23 05:55	75-27-4	
Bromoform	<0.00015	mg/kg	0.0051	0.00015	1		02/07/23 05:55	75-25-2	
Bromomethane	<0.00028	mg/kg	0.0051	0.00028	1		02/07/23 05:55	74-83-9	
2-Butanone (MEK)	<0.00070	mg/kg	0.025	0.00070	1		02/07/23 05:55	78-93-3	
n-Butylbenzene	<0.00043	mg/kg	0.0051	0.00043	1		02/07/23 05:55	104-51-8	
sec-Butylbenzene	<0.00044	mg/kg	0.0051	0.00044	1		02/07/23 05:55	135-98-8	
tert-Butylbenzene	<0.00046	mg/kg	0.0051	0.00046	1		02/07/23 05:55	98-06-6	
Carbon disulfide	<0.00036	mg/kg	0.010	0.00036	1		02/07/23 05:55	75-15-0	
Carbon tetrachloride	<0.00031	mg/kg	0.0051	0.00031	1		02/07/23 05:55	56-23-5	
Chlorobenzene	<0.00035	mg/kg	0.0051	0.00035	1		02/07/23 05:55	108-90-7	
Chloroethane	<0.00017	mg/kg	0.0051	0.00017	1		02/07/23 05:55	75-00-3	
Chloroform	<0.00062	mg/kg	0.0051	0.00062	1		02/07/23 05:55	67-66-3	
Chloromethane	<0.00017	mg/kg	0.0051	0.00017	1		02/07/23 05:55	74-87-3	
2-Chlorotoluene	<0.00040	mg/kg	0.0051	0.00040	1		02/07/23 05:55	95-49-8	
4-Chlorotoluene	<0.00040	mg/kg	0.0051	0.00040	1		02/07/23 05:55	106-43-4	
Dibromochloromethane	<0.00020	mg/kg	0.0051	0.00020	1		02/07/23 05:55	124-48-1	
1,2-Dibromoethane (EDB)	<0.00023	mg/kg	0.0051	0.00023	1		02/07/23 05:55	106-93-4	
Dibromomethane	<0.00018	mg/kg	0.0051	0.00018	1		02/07/23 05:55	74-95-3	
1,2-Dichlorobenzene	<0.00034	mg/kg	0.0051	0.00034	1		02/07/23 05:55	95-50-1	
1,3-Dichlorobenzene	<0.00042	mg/kg	0.0051	0.00042	1		02/07/23 05:55	541-73-1	
1,4-Dichlorobenzene	<0.00039	mg/kg	0.0051	0.00039	1		02/07/23 05:55	106-46-7	
trans-1,4-Dichloro-2-butene	<0.00034	mg/kg	0.10	0.00034	1		02/07/23 05:55	110-57-6	
Dichlorodifluoromethane	<0.00027	mg/kg	0.0051	0.00027	1		02/07/23 05:55	75-71-8	
1,1-Dichloroethane	<0.00031	mg/kg	0.0051	0.00031	1		02/07/23 05:55	75-34-3	
1,2-Dichloroethane	<0.00027	mg/kg	0.0051	0.00027	1		02/07/23 05:55	107-06-2	
1,1-Dichloroethene	<0.00027	mg/kg	0.0051	0.00027	1		02/07/23 05:55	75-35-4	
cis-1,2-Dichloroethene	<0.00032	mg/kg	0.0051	0.00032	1		02/07/23 05:55	156-59-2	
trans-1,2-Dichloroethene	<0.00044	mg/kg	0.0051	0.00044	1		02/07/23 05:55	156-60-5	
1,2-Dichloropropane	<0.00030	mg/kg	0.0051	0.00030	1		02/07/23 05:55	78-87-5	
1,3-Dichloropropane	<0.00018	mg/kg	0.0051	0.00018	1		02/07/23 05:55	142-28-9	
2,2-Dichloropropane	<0.00040	mg/kg	0.0051	0.00040	1		02/07/23 05:55	594-20-7	
1,1-Dichloropropene	<0.00042	mg/kg	0.0051	0.00042	1		02/07/23 05:55	563-58-6	
cis-1,3-Dichloropropene	<0.00021	mg/kg	0.0051	0.00021	1		02/07/23 05:55	10061-01-5	
trans-1,3-Dichloropropene	<0.00022	mg/kg	0.0051	0.00022	1		02/07/23 05:55	10061-02-6	
Ethylbenzene	<0.00042	mg/kg	0.0051	0.00042	1		02/07/23 05:55	100-41-4	
Ethyl methacrylate	<0.00019	mg/kg	0.10	0.00019	1		02/07/23 05:55	97-63-2	
Hexachloro-1,3-butadiene	<0.00045	mg/kg	0.0051	0.00045	1		02/07/23 05:55	87-68-3	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: SP-2 (7') Lab ID: 50336749014 Collected: 02/01/23 15:45 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA									
Analytical Method: EPA 8260									
Initial Volume/Weight: 6.103 g Final Volume/Weight: 5 mL									
Pace Analytical Services - Indianapolis									
n-Hexane	<0.00022	mg/kg	0.0051	0.00022	1		02/07/23 05:55	110-54-3	
2-Hexanone	<0.0011	mg/kg	0.10	0.0011	1		02/07/23 05:55	591-78-6	
Iodomethane	<0.00029	mg/kg	0.10	0.00029	1		02/07/23 05:55	74-88-4	
Isopropylbenzene (Cumene)	<0.00043	mg/kg	0.0051	0.00043	1		02/07/23 05:55	98-82-8	
p-Isopropyltoluene	<0.00047	mg/kg	0.0051	0.00047	1		02/07/23 05:55	99-87-6	
Methylene Chloride	<0.00049	mg/kg	0.020	0.00049	1		02/07/23 05:55	75-09-2	
1-Methylnaphthalene	<0.00025	mg/kg	0.010	0.00025	1		02/07/23 05:55	90-12-0	
2-Methylnaphthalene	<0.00030	mg/kg	0.010	0.00030	1		02/07/23 05:55	91-57-6	
4-Methyl-2-pentanone (MIBK)	<0.00095	mg/kg	0.025	0.00095	1		02/07/23 05:55	108-10-1	
Methyl-tert-butyl ether	<0.00020	mg/kg	0.0051	0.00020	1		02/07/23 05:55	1634-04-4	
Naphthalene	<0.00077	mg/kg	0.0051	0.00077	1		02/07/23 05:55	91-20-3	
n-Propylbenzene	<0.00043	mg/kg	0.0051	0.00043	1		02/07/23 05:55	103-65-1	
Styrene	<0.00036	mg/kg	0.0051	0.00036	1		02/07/23 05:55	100-42-5	
1,1,1,2-Tetrachloroethane	<0.00025	mg/kg	0.0051	0.00025	1		02/07/23 05:55	630-20-6	
1,1,2,2-Tetrachloroethane	<0.00026	mg/kg	0.0051	0.00026	1		02/07/23 05:55	79-34-5	
Tetrachloroethene	<0.00041	mg/kg	0.0051	0.00041	1		02/07/23 05:55	127-18-4	
Toluene	0.0014J	mg/kg	0.0051	0.00068	1		02/07/23 05:55	108-88-3	
1,2,3-Trichlorobenzene	<0.00035	mg/kg	0.0051	0.00035	1		02/07/23 05:55	87-61-6	
1,2,4-Trichlorobenzene	<0.00042	mg/kg	0.0051	0.00042	1		02/07/23 05:55	120-82-1	
1,1,1-Trichloroethane	<0.00036	mg/kg	0.0051	0.00036	1		02/07/23 05:55	71-55-6	
1,1,2-Trichloroethane	<0.00021	mg/kg	0.0051	0.00021	1		02/07/23 05:55	79-00-5	
Trichloroethene	<0.00038	mg/kg	0.0051	0.00038	1		02/07/23 05:55	79-01-6	
Trichlorofluoromethane	<0.00017	mg/kg	0.0051	0.00017	1		02/07/23 05:55	75-69-4	
1,2,3-Trichloropropane	<0.00027	mg/kg	0.0051	0.00027	1		02/07/23 05:55	96-18-4	
1,2,4-Trimethylbenzene	<0.00044	mg/kg	0.0051	0.00044	1		02/07/23 05:55	95-63-6	
1,3,5-Trimethylbenzene	<0.00040	mg/kg	0.0051	0.00040	1		02/07/23 05:55	108-67-8	
Vinyl acetate	<0.00049	mg/kg	0.10	0.00049	1		02/07/23 05:55	108-05-4	
Vinyl chloride	<0.00017	mg/kg	0.0051	0.00017	1		02/07/23 05:55	75-01-4	
Xylene (Total)	<0.00043	mg/kg	0.010	0.00043	1		02/07/23 05:55	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	103	%	62-146		1		02/07/23 05:55	1868-53-7	
Toluene-d8 (S)	102	%	68-143		1		02/07/23 05:55	2037-26-5	
4-Bromofluorobenzene (S)	98	%	63-129		1		02/07/23 05:55	460-00-4	

Percent Moisture

Analytical Method: SM 2540G
Pace Analytical Services - Indianapolis

Percent Moisture	19.4	%	0.10	0.10	1		02/08/23 10:22		N2
------------------	------	---	------	------	---	--	----------------	--	----

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: SP-4 (7') Lab ID: 50336749015 Collected: 02/01/23 13:15 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA									
Analytical Method: EPA 8260									
Initial Volume/Weight: 6.707 g Final Volume/Weight: 5 mL									
Pace Analytical Services - Indianapolis									
Acetone	<0.0036	mg/kg	0.092	0.0036	1		02/07/23 06:25	67-64-1	
Acrolein	<0.0025	mg/kg	0.092	0.0025	1		02/07/23 06:25	107-02-8	
Acrylonitrile	<0.00093	mg/kg	0.092	0.00093	1		02/07/23 06:25	107-13-1	
Benzene	<0.00031	mg/kg	0.0046	0.00031	1		02/07/23 06:25	71-43-2	
Bromobenzene	<0.00031	mg/kg	0.0046	0.00031	1		02/07/23 06:25	108-86-1	
Bromochloromethane	<0.00016	mg/kg	0.0046	0.00016	1		02/07/23 06:25	74-97-5	
Bromodichloromethane	<0.00019	mg/kg	0.0046	0.00019	1		02/07/23 06:25	75-27-4	
Bromoform	<0.00013	mg/kg	0.0046	0.00013	1		02/07/23 06:25	75-25-2	
Bromomethane	<0.00025	mg/kg	0.0046	0.00025	1		02/07/23 06:25	74-83-9	
2-Butanone (MEK)	<0.00064	mg/kg	0.023	0.00064	1		02/07/23 06:25	78-93-3	
n-Butylbenzene	<0.00039	mg/kg	0.0046	0.00039	1		02/07/23 06:25	104-51-8	
sec-Butylbenzene	<0.00040	mg/kg	0.0046	0.00040	1		02/07/23 06:25	135-98-8	
tert-Butylbenzene	<0.00042	mg/kg	0.0046	0.00042	1		02/07/23 06:25	98-06-6	
Carbon disulfide	<0.00032	mg/kg	0.0092	0.00032	1		02/07/23 06:25	75-15-0	
Carbon tetrachloride	<0.00028	mg/kg	0.0046	0.00028	1		02/07/23 06:25	56-23-5	
Chlorobenzene	<0.00032	mg/kg	0.0046	0.00032	1		02/07/23 06:25	108-90-7	
Chloroethane	<0.00015	mg/kg	0.0046	0.00015	1		02/07/23 06:25	75-00-3	
Chloroform	<0.00056	mg/kg	0.0046	0.00056	1		02/07/23 06:25	67-66-3	
Chloromethane	<0.00016	mg/kg	0.0046	0.00016	1		02/07/23 06:25	74-87-3	
2-Chlorotoluene	<0.00036	mg/kg	0.0046	0.00036	1		02/07/23 06:25	95-49-8	
4-Chlorotoluene	<0.00036	mg/kg	0.0046	0.00036	1		02/07/23 06:25	106-43-4	
Dibromochloromethane	<0.00018	mg/kg	0.0046	0.00018	1		02/07/23 06:25	124-48-1	
1,2-Dibromoethane (EDB)	<0.00021	mg/kg	0.0046	0.00021	1		02/07/23 06:25	106-93-4	
Dibromomethane	<0.00016	mg/kg	0.0046	0.00016	1		02/07/23 06:25	74-95-3	
1,2-Dichlorobenzene	<0.00031	mg/kg	0.0046	0.00031	1		02/07/23 06:25	95-50-1	
1,3-Dichlorobenzene	<0.00038	mg/kg	0.0046	0.00038	1		02/07/23 06:25	541-73-1	
1,4-Dichlorobenzene	<0.00035	mg/kg	0.0046	0.00035	1		02/07/23 06:25	106-46-7	
trans-1,4-Dichloro-2-butene	<0.00031	mg/kg	0.092	0.00031	1		02/07/23 06:25	110-57-6	
Dichlorodifluoromethane	<0.00024	mg/kg	0.0046	0.00024	1		02/07/23 06:25	75-71-8	
1,1-Dichloroethane	<0.00028	mg/kg	0.0046	0.00028	1		02/07/23 06:25	75-34-3	
1,2-Dichloroethane	<0.00024	mg/kg	0.0046	0.00024	1		02/07/23 06:25	107-06-2	
1,1-Dichloroethene	<0.00025	mg/kg	0.0046	0.00025	1		02/07/23 06:25	75-35-4	
cis-1,2-Dichloroethene	<0.00029	mg/kg	0.0046	0.00029	1		02/07/23 06:25	156-59-2	
trans-1,2-Dichloroethene	<0.00040	mg/kg	0.0046	0.00040	1		02/07/23 06:25	156-60-5	
1,2-Dichloropropane	<0.00027	mg/kg	0.0046	0.00027	1		02/07/23 06:25	78-87-5	
1,3-Dichloropropane	<0.00016	mg/kg	0.0046	0.00016	1		02/07/23 06:25	142-28-9	
2,2-Dichloropropane	<0.00036	mg/kg	0.0046	0.00036	1		02/07/23 06:25	594-20-7	
1,1-Dichloropropene	<0.00038	mg/kg	0.0046	0.00038	1		02/07/23 06:25	563-58-6	
cis-1,3-Dichloropropene	<0.00019	mg/kg	0.0046	0.00019	1		02/07/23 06:25	10061-01-5	
trans-1,3-Dichloropropene	<0.00020	mg/kg	0.0046	0.00020	1		02/07/23 06:25	10061-02-6	
Ethylbenzene	<0.00038	mg/kg	0.0046	0.00038	1		02/07/23 06:25	100-41-4	
Ethyl methacrylate	<0.00017	mg/kg	0.092	0.00017	1		02/07/23 06:25	97-63-2	
Hexachloro-1,3-butadiene	<0.00041	mg/kg	0.0046	0.00041	1		02/07/23 06:25	87-68-3	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: **SP-4 (7')** Lab ID: **50336749015** Collected: 02/01/23 13:15 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA									
Analytical Method: EPA 8260									
Initial Volume/Weight: 6.707 g Final Volume/Weight: 5 mL									
Pace Analytical Services - Indianapolis									
n-Hexane	<0.00020	mg/kg	0.0046	0.00020	1		02/07/23 06:25	110-54-3	
2-Hexanone	<0.00096	mg/kg	0.092	0.00096	1		02/07/23 06:25	591-78-6	
Iodomethane	<0.00026	mg/kg	0.092	0.00026	1		02/07/23 06:25	74-88-4	
Isopropylbenzene (Cumene)	<0.00039	mg/kg	0.0046	0.00039	1		02/07/23 06:25	98-82-8	
p-Isopropyltoluene	<0.00043	mg/kg	0.0046	0.00043	1		02/07/23 06:25	99-87-6	
Methylene Chloride	<0.00045	mg/kg	0.018	0.00045	1		02/07/23 06:25	75-09-2	
1-Methylnaphthalene	<0.00023	mg/kg	0.0092	0.00023	1		02/07/23 06:25	90-12-0	
2-Methylnaphthalene	<0.00028	mg/kg	0.0092	0.00028	1		02/07/23 06:25	91-57-6	
4-Methyl-2-pentanone (MIBK)	<0.00086	mg/kg	0.023	0.00086	1		02/07/23 06:25	108-10-1	
Methyl-tert-butyl ether	<0.00018	mg/kg	0.0046	0.00018	1		02/07/23 06:25	1634-04-4	
Naphthalene	<0.00070	mg/kg	0.0046	0.00070	1		02/07/23 06:25	91-20-3	
n-Propylbenzene	<0.00039	mg/kg	0.0046	0.00039	1		02/07/23 06:25	103-65-1	
Styrene	<0.00033	mg/kg	0.0046	0.00033	1		02/07/23 06:25	100-42-5	
1,1,1,2-Tetrachloroethane	<0.00022	mg/kg	0.0046	0.00022	1		02/07/23 06:25	630-20-6	
1,1,2,2-Tetrachloroethane	<0.00023	mg/kg	0.0046	0.00023	1		02/07/23 06:25	79-34-5	
Tetrachloroethene	<0.00037	mg/kg	0.0046	0.00037	1		02/07/23 06:25	127-18-4	
Toluene	<0.00061	mg/kg	0.0046	0.00061	1		02/07/23 06:25	108-88-3	
1,2,3-Trichlorobenzene	<0.00032	mg/kg	0.0046	0.00032	1		02/07/23 06:25	87-61-6	
1,2,4-Trichlorobenzene	<0.00038	mg/kg	0.0046	0.00038	1		02/07/23 06:25	120-82-1	
1,1,1-Trichloroethane	<0.00033	mg/kg	0.0046	0.00033	1		02/07/23 06:25	71-55-6	
1,1,2-Trichloroethane	<0.00019	mg/kg	0.0046	0.00019	1		02/07/23 06:25	79-00-5	
Trichloroethene	<0.00034	mg/kg	0.0046	0.00034	1		02/07/23 06:25	79-01-6	
Trichlorofluoromethane	<0.00015	mg/kg	0.0046	0.00015	1		02/07/23 06:25	75-69-4	
1,2,3-Trichloropropane	<0.00024	mg/kg	0.0046	0.00024	1		02/07/23 06:25	96-18-4	
1,2,4-Trimethylbenzene	<0.00040	mg/kg	0.0046	0.00040	1		02/07/23 06:25	95-63-6	
1,3,5-Trimethylbenzene	<0.00036	mg/kg	0.0046	0.00036	1		02/07/23 06:25	108-67-8	
Vinyl acetate	<0.00044	mg/kg	0.092	0.00044	1		02/07/23 06:25	108-05-4	
Vinyl chloride	<0.00016	mg/kg	0.0046	0.00016	1		02/07/23 06:25	75-01-4	
Xylene (Total)	<0.00039	mg/kg	0.0092	0.00039	1		02/07/23 06:25	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	106	%	62-146		1		02/07/23 06:25	1868-53-7	
Toluene-d8 (S)	100	%	68-143		1		02/07/23 06:25	2037-26-5	
4-Bromofluorobenzene (S)	99	%	63-129		1		02/07/23 06:25	460-00-4	

Percent Moisture

Analytical Method: SM 2540G

Pace Analytical Services - Indianapolis

Percent Moisture	19.1	%	0.10	0.10	1		02/08/23 10:22		N2
------------------	------	---	------	------	---	--	----------------	--	----

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: SP-4 (16') Lab ID: 50336749016 Collected: 02/01/23 13:25 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA									
Analytical Method: EPA 8260									
Initial Volume/Weight: 5.272 g Final Volume/Weight: 5 mL									
Pace Analytical Services - Indianapolis									
Acetone	<0.0054	mg/kg	0.14	0.0054	1		02/07/23 06:56	67-64-1	
Acrolein	<0.0038	mg/kg	0.14	0.0038	1		02/07/23 06:56	107-02-8	
Acrylonitrile	<0.0014	mg/kg	0.14	0.0014	1		02/07/23 06:56	107-13-1	
Benzene	<0.00047	mg/kg	0.0069	0.00047	1		02/07/23 06:56	71-43-2	
Bromobenzene	<0.00046	mg/kg	0.0069	0.00046	1		02/07/23 06:56	108-86-1	
Bromochloromethane	<0.00024	mg/kg	0.0069	0.00024	1		02/07/23 06:56	74-97-5	
Bromodichloromethane	<0.00029	mg/kg	0.0069	0.00029	1		02/07/23 06:56	75-27-4	
Bromoform	<0.00020	mg/kg	0.0069	0.00020	1		02/07/23 06:56	75-25-2	
Bromomethane	<0.00038	mg/kg	0.0069	0.00038	1		02/07/23 06:56	74-83-9	
2-Butanone (MEK)	<0.00095	mg/kg	0.034	0.00095	1		02/07/23 06:56	78-93-3	
n-Butylbenzene	<0.00058	mg/kg	0.0069	0.00058	1		02/07/23 06:56	104-51-8	
sec-Butylbenzene	<0.00060	mg/kg	0.0069	0.00060	1		02/07/23 06:56	135-98-8	
tert-Butylbenzene	<0.00062	mg/kg	0.0069	0.00062	1		02/07/23 06:56	98-06-6	
Carbon disulfide	<0.00048	mg/kg	0.014	0.00048	1		02/07/23 06:56	75-15-0	
Carbon tetrachloride	<0.00042	mg/kg	0.0069	0.00042	1		02/07/23 06:56	56-23-5	
Chlorobenzene	<0.00047	mg/kg	0.0069	0.00047	1		02/07/23 06:56	108-90-7	
Chloroethane	<0.00023	mg/kg	0.0069	0.00023	1		02/07/23 06:56	75-00-3	
Chloroform	<0.00084	mg/kg	0.0069	0.00084	1		02/07/23 06:56	67-66-3	
Chloromethane	<0.00023	mg/kg	0.0069	0.00023	1		02/07/23 06:56	74-87-3	
2-Chlorotoluene	<0.00054	mg/kg	0.0069	0.00054	1		02/07/23 06:56	95-49-8	
4-Chlorotoluene	<0.00054	mg/kg	0.0069	0.00054	1		02/07/23 06:56	106-43-4	
Dibromochloromethane	<0.00027	mg/kg	0.0069	0.00027	1		02/07/23 06:56	124-48-1	
1,2-Dibromoethane (EDB)	<0.00031	mg/kg	0.0069	0.00031	1		02/07/23 06:56	106-93-4	
Dibromomethane	<0.00024	mg/kg	0.0069	0.00024	1		02/07/23 06:56	74-95-3	
1,2-Dichlorobenzene	<0.00046	mg/kg	0.0069	0.00046	1		02/07/23 06:56	95-50-1	
1,3-Dichlorobenzene	<0.00057	mg/kg	0.0069	0.00057	1		02/07/23 06:56	541-73-1	
1,4-Dichlorobenzene	<0.00052	mg/kg	0.0069	0.00052	1		02/07/23 06:56	106-46-7	
trans-1,4-Dichloro-2-butene	<0.00047	mg/kg	0.14	0.00047	1		02/07/23 06:56	110-57-6	
Dichlorodifluoromethane	<0.00036	mg/kg	0.0069	0.00036	1		02/07/23 06:56	75-71-8	
1,1-Dichloroethane	<0.00042	mg/kg	0.0069	0.00042	1		02/07/23 06:56	75-34-3	
1,2-Dichloroethane	<0.00036	mg/kg	0.0069	0.00036	1		02/07/23 06:56	107-06-2	
1,1-Dichloroethene	<0.00037	mg/kg	0.0069	0.00037	1		02/07/23 06:56	75-35-4	
cis-1,2-Dichloroethene	<0.00043	mg/kg	0.0069	0.00043	1		02/07/23 06:56	156-59-2	
trans-1,2-Dichloroethene	<0.00060	mg/kg	0.0069	0.00060	1		02/07/23 06:56	156-60-5	
1,2-Dichloropropane	<0.00040	mg/kg	0.0069	0.00040	1		02/07/23 06:56	78-87-5	
1,3-Dichloropropane	<0.00024	mg/kg	0.0069	0.00024	1		02/07/23 06:56	142-28-9	
2,2-Dichloropropane	<0.00054	mg/kg	0.0069	0.00054	1		02/07/23 06:56	594-20-7	
1,1-Dichloropropene	<0.00057	mg/kg	0.0069	0.00057	1		02/07/23 06:56	563-58-6	
cis-1,3-Dichloropropene	<0.00028	mg/kg	0.0069	0.00028	1		02/07/23 06:56	10061-01-5	
trans-1,3-Dichloropropene	<0.00030	mg/kg	0.0069	0.00030	1		02/07/23 06:56	10061-02-6	
Ethylbenzene	<0.00056	mg/kg	0.0069	0.00056	1		02/07/23 06:56	100-41-4	
Ethyl methacrylate	<0.00025	mg/kg	0.14	0.00025	1		02/07/23 06:56	97-63-2	
Hexachloro-1,3-butadiene	<0.00061	mg/kg	0.0069	0.00061	1		02/07/23 06:56	87-68-3	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: SP-4 (16') Lab ID: 50336749016 Collected: 02/01/23 13:25 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA									
Analytical Method: EPA 8260									
Initial Volume/Weight: 5.272 g Final Volume/Weight: 5 mL									
Pace Analytical Services - Indianapolis									
n-Hexane	<0.00030	mg/kg	0.0069	0.00030	1		02/07/23 06:56	110-54-3	
2-Hexanone	<0.0014	mg/kg	0.14	0.0014	1		02/07/23 06:56	591-78-6	
Iodomethane	<0.00039	mg/kg	0.14	0.00039	1		02/07/23 06:56	74-88-4	
Isopropylbenzene (Cumene)	<0.00058	mg/kg	0.0069	0.00058	1		02/07/23 06:56	98-82-8	
p-Isopropyltoluene	<0.00064	mg/kg	0.0069	0.00064	1		02/07/23 06:56	99-87-6	
Methylene Chloride	<0.00067	mg/kg	0.028	0.00067	1		02/07/23 06:56	75-09-2	
1-Methylnaphthalene	<0.00034	mg/kg	0.014	0.00034	1		02/07/23 06:56	90-12-0	
2-Methylnaphthalene	<0.00041	mg/kg	0.014	0.00041	1		02/07/23 06:56	91-57-6	
4-Methyl-2-pentanone (MIBK)	<0.0013	mg/kg	0.034	0.0013	1		02/07/23 06:56	108-10-1	
Methyl-tert-butyl ether	<0.00027	mg/kg	0.0069	0.00027	1		02/07/23 06:56	1634-04-4	
Naphthalene	<0.0010	mg/kg	0.0069	0.0010	1		02/07/23 06:56	91-20-3	
n-Propylbenzene	<0.00058	mg/kg	0.0069	0.00058	1		02/07/23 06:56	103-65-1	
Styrene	<0.00049	mg/kg	0.0069	0.00049	1		02/07/23 06:56	100-42-5	
1,1,1,2-Tetrachloroethane	<0.00033	mg/kg	0.0069	0.00033	1		02/07/23 06:56	630-20-6	
1,1,2,2-Tetrachloroethane	<0.00035	mg/kg	0.0069	0.00035	1		02/07/23 06:56	79-34-5	
Tetrachloroethene	<0.00055	mg/kg	0.0069	0.00055	1		02/07/23 06:56	127-18-4	
Toluene	0.0016J	mg/kg	0.0069	0.00091	1		02/07/23 06:56	108-88-3	
1,2,3-Trichlorobenzene	<0.00048	mg/kg	0.0069	0.00048	1		02/07/23 06:56	87-61-6	
1,2,4-Trichlorobenzene	<0.00057	mg/kg	0.0069	0.00057	1		02/07/23 06:56	120-82-1	
1,1,1-Trichloroethane	<0.00049	mg/kg	0.0069	0.00049	1		02/07/23 06:56	71-55-6	
1,1,2-Trichloroethane	<0.00028	mg/kg	0.0069	0.00028	1		02/07/23 06:56	79-00-5	
Trichloroethene	<0.00051	mg/kg	0.0069	0.00051	1		02/07/23 06:56	79-01-6	
Trichlorofluoromethane	<0.00023	mg/kg	0.0069	0.00023	1		02/07/23 06:56	75-69-4	
1,2,3-Trichloropropane	<0.00036	mg/kg	0.0069	0.00036	1		02/07/23 06:56	96-18-4	
1,2,4-Trimethylbenzene	<0.00059	mg/kg	0.0069	0.00059	1		02/07/23 06:56	95-63-6	
1,3,5-Trimethylbenzene	<0.00054	mg/kg	0.0069	0.00054	1		02/07/23 06:56	108-67-8	
Vinyl acetate	<0.00066	mg/kg	0.14	0.00066	1		02/07/23 06:56	108-05-4	
Vinyl chloride	<0.00023	mg/kg	0.0069	0.00023	1		02/07/23 06:56	75-01-4	
Xylene (Total)	<0.00058	mg/kg	0.014	0.00058	1		02/07/23 06:56	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	102	%	62-146		1		02/07/23 06:56	1868-53-7	
Toluene-d8 (S)	101	%	68-143		1		02/07/23 06:56	2037-26-5	
4-Bromofluorobenzene (S)	98	%	63-129		1		02/07/23 06:56	460-00-4	

Percent Moisture

Analytical Method: SM 2540G

Pace Analytical Services - Indianapolis

Percent Moisture	31.1	%	0.10	0.10	1		02/08/23 10:22		N2
------------------	------	---	------	------	---	--	----------------	--	----

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: **SP-4 Dup (16')** Lab ID: **50336749017** Collected: 02/01/23 13:25 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA									
Analytical Method: EPA 8260									
Initial Volume/Weight: 5.361 g Final Volume/Weight: 5 mL									
Pace Analytical Services - Indianapolis									
Acetone	<0.0054	mg/kg	0.14	0.0054	1		02/07/23 07:26	67-64-1	
Acrolein	<0.0038	mg/kg	0.14	0.0038	1		02/07/23 07:26	107-02-8	
Acrylonitrile	<0.0014	mg/kg	0.14	0.0014	1		02/07/23 07:26	107-13-1	
Benzene	<0.00047	mg/kg	0.0069	0.00047	1		02/07/23 07:26	71-43-2	
Bromobenzene	<0.00046	mg/kg	0.0069	0.00046	1		02/07/23 07:26	108-86-1	
Bromochloromethane	<0.00024	mg/kg	0.0069	0.00024	1		02/07/23 07:26	74-97-5	
Bromodichloromethane	<0.00029	mg/kg	0.0069	0.00029	1		02/07/23 07:26	75-27-4	
Bromoform	<0.00020	mg/kg	0.0069	0.00020	1		02/07/23 07:26	75-25-2	
Bromomethane	<0.00038	mg/kg	0.0069	0.00038	1		02/07/23 07:26	74-83-9	
2-Butanone (MEK)	<0.00095	mg/kg	0.034	0.00095	1		02/07/23 07:26	78-93-3	
n-Butylbenzene	<0.00058	mg/kg	0.0069	0.00058	1		02/07/23 07:26	104-51-8	
sec-Butylbenzene	<0.00060	mg/kg	0.0069	0.00060	1		02/07/23 07:26	135-98-8	
tert-Butylbenzene	<0.00062	mg/kg	0.0069	0.00062	1		02/07/23 07:26	98-06-6	
Carbon disulfide	<0.00048	mg/kg	0.014	0.00048	1		02/07/23 07:26	75-15-0	
Carbon tetrachloride	<0.00042	mg/kg	0.0069	0.00042	1		02/07/23 07:26	56-23-5	
Chlorobenzene	<0.00047	mg/kg	0.0069	0.00047	1		02/07/23 07:26	108-90-7	
Chloroethane	<0.00023	mg/kg	0.0069	0.00023	1		02/07/23 07:26	75-00-3	
Chloroform	<0.00084	mg/kg	0.0069	0.00084	1		02/07/23 07:26	67-66-3	
Chloromethane	<0.00023	mg/kg	0.0069	0.00023	1		02/07/23 07:26	74-87-3	
2-Chlorotoluene	<0.00054	mg/kg	0.0069	0.00054	1		02/07/23 07:26	95-49-8	
4-Chlorotoluene	<0.00054	mg/kg	0.0069	0.00054	1		02/07/23 07:26	106-43-4	
Dibromochloromethane	<0.00027	mg/kg	0.0069	0.00027	1		02/07/23 07:26	124-48-1	
1,2-Dibromoethane (EDB)	<0.00031	mg/kg	0.0069	0.00031	1		02/07/23 07:26	106-93-4	
Dibromomethane	<0.00024	mg/kg	0.0069	0.00024	1		02/07/23 07:26	74-95-3	
1,2-Dichlorobenzene	<0.00046	mg/kg	0.0069	0.00046	1		02/07/23 07:26	95-50-1	
1,3-Dichlorobenzene	<0.00057	mg/kg	0.0069	0.00057	1		02/07/23 07:26	541-73-1	
1,4-Dichlorobenzene	<0.00052	mg/kg	0.0069	0.00052	1		02/07/23 07:26	106-46-7	
trans-1,4-Dichloro-2-butene	<0.00047	mg/kg	0.14	0.00047	1		02/07/23 07:26	110-57-6	
Dichlorodifluoromethane	<0.00036	mg/kg	0.0069	0.00036	1		02/07/23 07:26	75-71-8	
1,1-Dichloroethane	<0.00042	mg/kg	0.0069	0.00042	1		02/07/23 07:26	75-34-3	
1,2-Dichloroethane	<0.00036	mg/kg	0.0069	0.00036	1		02/07/23 07:26	107-06-2	
1,1-Dichloroethene	<0.00037	mg/kg	0.0069	0.00037	1		02/07/23 07:26	75-35-4	
cis-1,2-Dichloroethene	<0.00043	mg/kg	0.0069	0.00043	1		02/07/23 07:26	156-59-2	
trans-1,2-Dichloroethene	<0.00060	mg/kg	0.0069	0.00060	1		02/07/23 07:26	156-60-5	
1,2-Dichloropropane	<0.00040	mg/kg	0.0069	0.00040	1		02/07/23 07:26	78-87-5	
1,3-Dichloropropane	<0.00024	mg/kg	0.0069	0.00024	1		02/07/23 07:26	142-28-9	
2,2-Dichloropropane	<0.00054	mg/kg	0.0069	0.00054	1		02/07/23 07:26	594-20-7	
1,1-Dichloropropene	<0.00057	mg/kg	0.0069	0.00057	1		02/07/23 07:26	563-58-6	
cis-1,3-Dichloropropene	<0.00028	mg/kg	0.0069	0.00028	1		02/07/23 07:26	10061-01-5	
trans-1,3-Dichloropropene	<0.00030	mg/kg	0.0069	0.00030	1		02/07/23 07:26	10061-02-6	
Ethylbenzene	<0.00056	mg/kg	0.0069	0.00056	1		02/07/23 07:26	100-41-4	
Ethyl methacrylate	<0.00025	mg/kg	0.14	0.00025	1		02/07/23 07:26	97-63-2	
Hexachloro-1,3-butadiene	<0.00061	mg/kg	0.0069	0.00061	1		02/07/23 07:26	87-68-3	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: **SP-4 Dup (16')** Lab ID: **50336749017** Collected: 02/01/23 13:25 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA									
Analytical Method: EPA 8260									
Initial Volume/Weight: 5.361 g Final Volume/Weight: 5 mL									
Pace Analytical Services - Indianapolis									
n-Hexane	<0.00030	mg/kg	0.0069	0.00030	1		02/07/23 07:26	110-54-3	
2-Hexanone	<0.0014	mg/kg	0.14	0.0014	1		02/07/23 07:26	591-78-6	
Iodomethane	<0.00039	mg/kg	0.14	0.00039	1		02/07/23 07:26	74-88-4	
Isopropylbenzene (Cumene)	<0.00058	mg/kg	0.0069	0.00058	1		02/07/23 07:26	98-82-8	
p-Isopropyltoluene	<0.00064	mg/kg	0.0069	0.00064	1		02/07/23 07:26	99-87-6	
Methylene Chloride	<0.00067	mg/kg	0.028	0.00067	1		02/07/23 07:26	75-09-2	
1-Methylnaphthalene	<0.00034	mg/kg	0.014	0.00034	1		02/07/23 07:26	90-12-0	
2-Methylnaphthalene	<0.00041	mg/kg	0.014	0.00041	1		02/07/23 07:26	91-57-6	
4-Methyl-2-pentanone (MIBK)	<0.0013	mg/kg	0.034	0.0013	1		02/07/23 07:26	108-10-1	
Methyl-tert-butyl ether	<0.00027	mg/kg	0.0069	0.00027	1		02/07/23 07:26	1634-04-4	
Naphthalene	<0.0010	mg/kg	0.0069	0.0010	1		02/07/23 07:26	91-20-3	
n-Propylbenzene	<0.00058	mg/kg	0.0069	0.00058	1		02/07/23 07:26	103-65-1	
Styrene	<0.00049	mg/kg	0.0069	0.00049	1		02/07/23 07:26	100-42-5	
1,1,1,2-Tetrachloroethane	<0.00033	mg/kg	0.0069	0.00033	1		02/07/23 07:26	630-20-6	
1,1,2,2-Tetrachloroethane	<0.00035	mg/kg	0.0069	0.00035	1		02/07/23 07:26	79-34-5	
Tetrachloroethene	<0.00055	mg/kg	0.0069	0.00055	1		02/07/23 07:26	127-18-4	
Toluene	0.0017J	mg/kg	0.0069	0.00091	1		02/07/23 07:26	108-88-3	
1,2,3-Trichlorobenzene	<0.00048	mg/kg	0.0069	0.00048	1		02/07/23 07:26	87-61-6	
1,2,4-Trichlorobenzene	<0.00057	mg/kg	0.0069	0.00057	1		02/07/23 07:26	120-82-1	
1,1,1-Trichloroethane	<0.00049	mg/kg	0.0069	0.00049	1		02/07/23 07:26	71-55-6	
1,1,2-Trichloroethane	<0.00028	mg/kg	0.0069	0.00028	1		02/07/23 07:26	79-00-5	
Trichloroethene	<0.00051	mg/kg	0.0069	0.00051	1		02/07/23 07:26	79-01-6	
Trichlorofluoromethane	<0.00023	mg/kg	0.0069	0.00023	1		02/07/23 07:26	75-69-4	
1,2,3-Trichloropropane	<0.00036	mg/kg	0.0069	0.00036	1		02/07/23 07:26	96-18-4	
1,2,4-Trimethylbenzene	<0.00059	mg/kg	0.0069	0.00059	1		02/07/23 07:26	95-63-6	
1,3,5-Trimethylbenzene	<0.00054	mg/kg	0.0069	0.00054	1		02/07/23 07:26	108-67-8	
Vinyl acetate	<0.00066	mg/kg	0.14	0.00066	1		02/07/23 07:26	108-05-4	
Vinyl chloride	<0.00023	mg/kg	0.0069	0.00023	1		02/07/23 07:26	75-01-4	
Xylene (Total)	<0.00058	mg/kg	0.014	0.00058	1		02/07/23 07:26	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	102	%	62-146		1		02/07/23 07:26	1868-53-7	
Toluene-d8 (S)	101	%	68-143		1		02/07/23 07:26	2037-26-5	
4-Bromofluorobenzene (S)	98	%	63-129		1		02/07/23 07:26	460-00-4	

Percent Moisture

Analytical Method: SM 2540G

Pace Analytical Services - Indianapolis

Percent Moisture	32.2	%	0.10	0.10	1		02/08/23 10:22		N2
------------------	------	---	------	------	---	--	----------------	--	----

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: SP-5 (11') Lab ID: 50336749018 Collected: 02/01/23 12:50 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA									
Analytical Method: EPA 8260									
Initial Volume/Weight: 4.571 g Final Volume/Weight: 5 mL									
Pace Analytical Services - Indianapolis									
Acetone	0.0074J	mg/kg	0.14	0.0055	1		02/07/23 07:56	67-64-1	
Acrolein	<0.0038	mg/kg	0.14	0.0038	1		02/07/23 07:56	107-02-8	
Acrylonitrile	<0.0014	mg/kg	0.14	0.0014	1		02/07/23 07:56	107-13-1	
Benzene	<0.00047	mg/kg	0.0069	0.00047	1		02/07/23 07:56	71-43-2	
Bromobenzene	<0.00046	mg/kg	0.0069	0.00046	1		02/07/23 07:56	108-86-1	
Bromochloromethane	<0.00024	mg/kg	0.0069	0.00024	1		02/07/23 07:56	74-97-5	
Bromodichloromethane	<0.00029	mg/kg	0.0069	0.00029	1		02/07/23 07:56	75-27-4	
Bromoform	<0.00020	mg/kg	0.0069	0.00020	1		02/07/23 07:56	75-25-2	
Bromomethane	<0.00038	mg/kg	0.0069	0.00038	1		02/07/23 07:56	74-83-9	
2-Butanone (MEK)	<0.00096	mg/kg	0.035	0.00096	1		02/07/23 07:56	78-93-3	
n-Butylbenzene	<0.00058	mg/kg	0.0069	0.00058	1		02/07/23 07:56	104-51-8	
sec-Butylbenzene	<0.00060	mg/kg	0.0069	0.00060	1		02/07/23 07:56	135-98-8	
tert-Butylbenzene	<0.00063	mg/kg	0.0069	0.00063	1		02/07/23 07:56	98-06-6	
Carbon disulfide	<0.00049	mg/kg	0.014	0.00049	1		02/07/23 07:56	75-15-0	
Carbon tetrachloride	<0.00042	mg/kg	0.0069	0.00042	1		02/07/23 07:56	56-23-5	
Chlorobenzene	<0.00048	mg/kg	0.0069	0.00048	1		02/07/23 07:56	108-90-7	
Chloroethane	<0.00023	mg/kg	0.0069	0.00023	1		02/07/23 07:56	75-00-3	
Chloroform	<0.00085	mg/kg	0.0069	0.00085	1		02/07/23 07:56	67-66-3	
Chloromethane	<0.00023	mg/kg	0.0069	0.00023	1		02/07/23 07:56	74-87-3	
2-Chlorotoluene	<0.00054	mg/kg	0.0069	0.00054	1		02/07/23 07:56	95-49-8	
4-Chlorotoluene	<0.00055	mg/kg	0.0069	0.00055	1		02/07/23 07:56	106-43-4	
Dibromochloromethane	<0.00028	mg/kg	0.0069	0.00028	1		02/07/23 07:56	124-48-1	
1,2-Dibromoethane (EDB)	<0.00032	mg/kg	0.0069	0.00032	1		02/07/23 07:56	106-93-4	
Dibromomethane	<0.00024	mg/kg	0.0069	0.00024	1		02/07/23 07:56	74-95-3	
1,2-Dichlorobenzene	<0.00046	mg/kg	0.0069	0.00046	1		02/07/23 07:56	95-50-1	
1,3-Dichlorobenzene	<0.00057	mg/kg	0.0069	0.00057	1		02/07/23 07:56	541-73-1	
1,4-Dichlorobenzene	<0.00053	mg/kg	0.0069	0.00053	1		02/07/23 07:56	106-46-7	
trans-1,4-Dichloro-2-butene	<0.00047	mg/kg	0.14	0.00047	1		02/07/23 07:56	110-57-6	
Dichlorodifluoromethane	<0.00037	mg/kg	0.0069	0.00037	1		02/07/23 07:56	75-71-8	
1,1-Dichloroethane	<0.00043	mg/kg	0.0069	0.00043	1		02/07/23 07:56	75-34-3	
1,2-Dichloroethane	<0.00036	mg/kg	0.0069	0.00036	1		02/07/23 07:56	107-06-2	
1,1-Dichloroethene	<0.00037	mg/kg	0.0069	0.00037	1		02/07/23 07:56	75-35-4	
cis-1,2-Dichloroethene	<0.00043	mg/kg	0.0069	0.00043	1		02/07/23 07:56	156-59-2	
trans-1,2-Dichloroethene	<0.00061	mg/kg	0.0069	0.00061	1		02/07/23 07:56	156-60-5	
1,2-Dichloropropane	<0.00041	mg/kg	0.0069	0.00041	1		02/07/23 07:56	78-87-5	
1,3-Dichloropropane	<0.00025	mg/kg	0.0069	0.00025	1		02/07/23 07:56	142-28-9	
2,2-Dichloropropane	<0.00054	mg/kg	0.0069	0.00054	1		02/07/23 07:56	594-20-7	
1,1-Dichloropropene	<0.00057	mg/kg	0.0069	0.00057	1		02/07/23 07:56	563-58-6	
cis-1,3-Dichloropropene	<0.00029	mg/kg	0.0069	0.00029	1		02/07/23 07:56	10061-01-5	
trans-1,3-Dichloropropene	<0.00030	mg/kg	0.0069	0.00030	1		02/07/23 07:56	10061-02-6	
Ethylbenzene	<0.00057	mg/kg	0.0069	0.00057	1		02/07/23 07:56	100-41-4	
Ethyl methacrylate	<0.00025	mg/kg	0.14	0.00025	1		02/07/23 07:56	97-63-2	
Hexachloro-1,3-butadiene	<0.00061	mg/kg	0.0069	0.00061	1		02/07/23 07:56	87-68-3	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: SP-5 (11') Lab ID: 50336749018 Collected: 02/01/23 12:50 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA									
Analytical Method: EPA 8260									
Initial Volume/Weight: 4.571 g Final Volume/Weight: 5 mL									
Pace Analytical Services - Indianapolis									
n-Hexane	<0.00030	mg/kg	0.0069	0.00030	1		02/07/23 07:56	110-54-3	
2-Hexanone	<0.0014	mg/kg	0.14	0.0014	1		02/07/23 07:56	591-78-6	
Iodomethane	<0.00039	mg/kg	0.14	0.00039	1		02/07/23 07:56	74-88-4	
Isopropylbenzene (Cumene)	<0.00059	mg/kg	0.0069	0.00059	1		02/07/23 07:56	98-82-8	
p-Isopropyltoluene	<0.00064	mg/kg	0.0069	0.00064	1		02/07/23 07:56	99-87-6	
Methylene Chloride	<0.00067	mg/kg	0.028	0.00067	1		02/07/23 07:56	75-09-2	
1-Methylnaphthalene	<0.00034	mg/kg	0.014	0.00034	1		02/07/23 07:56	90-12-0	
2-Methylnaphthalene	<0.00042	mg/kg	0.014	0.00042	1		02/07/23 07:56	91-57-6	
4-Methyl-2-pentanone (MIBK)	<0.0013	mg/kg	0.035	0.0013	1		02/07/23 07:56	108-10-1	
Methyl-tert-butyl ether	<0.00027	mg/kg	0.0069	0.00027	1		02/07/23 07:56	1634-04-4	
Naphthalene	<0.0011	mg/kg	0.0069	0.0011	1		02/07/23 07:56	91-20-3	
n-Propylbenzene	<0.00059	mg/kg	0.0069	0.00059	1		02/07/23 07:56	103-65-1	
Styrene	<0.00050	mg/kg	0.0069	0.00050	1		02/07/23 07:56	100-42-5	
1,1,1,2-Tetrachloroethane	<0.00034	mg/kg	0.0069	0.00034	1		02/07/23 07:56	630-20-6	
1,1,2,2-Tetrachloroethane	<0.00035	mg/kg	0.0069	0.00035	1		02/07/23 07:56	79-34-5	
Tetrachloroethene	<0.00055	mg/kg	0.0069	0.00055	1		02/07/23 07:56	127-18-4	
Toluene	0.0015J	mg/kg	0.0069	0.00092	1		02/07/23 07:56	108-88-3	
1,2,3-Trichlorobenzene	<0.00048	mg/kg	0.0069	0.00048	1		02/07/23 07:56	87-61-6	
1,2,4-Trichlorobenzene	<0.00058	mg/kg	0.0069	0.00058	1		02/07/23 07:56	120-82-1	
1,1,1-Trichloroethane	<0.00049	mg/kg	0.0069	0.00049	1		02/07/23 07:56	71-55-6	
1,1,2-Trichloroethane	<0.00029	mg/kg	0.0069	0.00029	1		02/07/23 07:56	79-00-5	
Trichloroethene	<0.00052	mg/kg	0.0069	0.00052	1		02/07/23 07:56	79-01-6	
Trichlorofluoromethane	<0.00023	mg/kg	0.0069	0.00023	1		02/07/23 07:56	75-69-4	
1,2,3-Trichloropropane	<0.00037	mg/kg	0.0069	0.00037	1		02/07/23 07:56	96-18-4	
1,2,4-Trimethylbenzene	<0.00060	mg/kg	0.0069	0.00060	1		02/07/23 07:56	95-63-6	
1,3,5-Trimethylbenzene	<0.00054	mg/kg	0.0069	0.00054	1		02/07/23 07:56	108-67-8	
Vinyl acetate	<0.00067	mg/kg	0.14	0.00067	1		02/07/23 07:56	108-05-4	
Vinyl chloride	<0.00023	mg/kg	0.0069	0.00023	1		02/07/23 07:56	75-01-4	
Xylene (Total)	<0.00059	mg/kg	0.014	0.00059	1		02/07/23 07:56	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	103	%	62-146		1		02/07/23 07:56	1868-53-7	
Toluene-d8 (S)	101	%	68-143		1		02/07/23 07:56	2037-26-5	
4-Bromofluorobenzene (S)	99	%	63-129		1		02/07/23 07:56	460-00-4	

Percent Moisture

Analytical Method: SM 2540G
Pace Analytical Services - Indianapolis

Percent Moisture	21.3	%	0.10	0.10	1		02/08/23 10:22		N2
------------------	------	---	------	------	---	--	----------------	--	----

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: SP-6 (22') Lab ID: 50336749019 Collected: 02/01/23 11:55 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA									
Analytical Method: EPA 8260									
Initial Volume/Weight: 4.892 g Final Volume/Weight: 5 mL									
Pace Analytical Services - Indianapolis									
Acetone	<0.0064	mg/kg	0.16	0.0064	1		02/07/23 08:27	67-64-1	
Acrolein	<0.0045	mg/kg	0.16	0.0045	1		02/07/23 08:27	107-02-8	
Acrylonitrile	<0.0016	mg/kg	0.16	0.0016	1		02/07/23 08:27	107-13-1	
Benzene	<0.00055	mg/kg	0.0081	0.00055	1		02/07/23 08:27	71-43-2	
Bromobenzene	<0.00054	mg/kg	0.0081	0.00054	1		02/07/23 08:27	108-86-1	
Bromochloromethane	<0.00028	mg/kg	0.0081	0.00028	1		02/07/23 08:27	74-97-5	
Bromodichloromethane	<0.00034	mg/kg	0.0081	0.00034	1		02/07/23 08:27	75-27-4	
Bromoform	<0.00024	mg/kg	0.0081	0.00024	1		02/07/23 08:27	75-25-2	
Bromomethane	<0.00045	mg/kg	0.0081	0.00045	1		02/07/23 08:27	74-83-9	
2-Butanone (MEK)	<0.0011	mg/kg	0.041	0.0011	1		02/07/23 08:27	78-93-3	
n-Butylbenzene	<0.00068	mg/kg	0.0081	0.00068	1		02/07/23 08:27	104-51-8	
sec-Butylbenzene	<0.00071	mg/kg	0.0081	0.00071	1		02/07/23 08:27	135-98-8	
tert-Butylbenzene	<0.00074	mg/kg	0.0081	0.00074	1		02/07/23 08:27	98-06-6	
Carbon disulfide	<0.00057	mg/kg	0.016	0.00057	1		02/07/23 08:27	75-15-0	
Carbon tetrachloride	<0.00049	mg/kg	0.0081	0.00049	1		02/07/23 08:27	56-23-5	
Chlorobenzene	<0.00056	mg/kg	0.0081	0.00056	1		02/07/23 08:27	108-90-7	
Chloroethane	<0.00027	mg/kg	0.0081	0.00027	1		02/07/23 08:27	75-00-3	
Chloroform	<0.00099	mg/kg	0.0081	0.00099	1		02/07/23 08:27	67-66-3	
Chloromethane	<0.00027	mg/kg	0.0081	0.00027	1		02/07/23 08:27	74-87-3	
2-Chlorotoluene	<0.00064	mg/kg	0.0081	0.00064	1		02/07/23 08:27	95-49-8	
4-Chlorotoluene	<0.00064	mg/kg	0.0081	0.00064	1		02/07/23 08:27	106-43-4	
Dibromochloromethane	<0.00032	mg/kg	0.0081	0.00032	1		02/07/23 08:27	124-48-1	
1,2-Dibromoethane (EDB)	<0.00037	mg/kg	0.0081	0.00037	1		02/07/23 08:27	106-93-4	
Dibromomethane	<0.00028	mg/kg	0.0081	0.00028	1		02/07/23 08:27	74-95-3	
1,2-Dichlorobenzene	<0.00054	mg/kg	0.0081	0.00054	1		02/07/23 08:27	95-50-1	
1,3-Dichlorobenzene	<0.00067	mg/kg	0.0081	0.00067	1		02/07/23 08:27	541-73-1	
1,4-Dichlorobenzene	<0.00062	mg/kg	0.0081	0.00062	1		02/07/23 08:27	106-46-7	
trans-1,4-Dichloro-2-butene	<0.00055	mg/kg	0.16	0.00055	1		02/07/23 08:27	110-57-6	
Dichlorodifluoromethane	<0.00043	mg/kg	0.0081	0.00043	1		02/07/23 08:27	75-71-8	
1,1-Dichloroethane	<0.00050	mg/kg	0.0081	0.00050	1		02/07/23 08:27	75-34-3	
1,2-Dichloroethane	<0.00043	mg/kg	0.0081	0.00043	1		02/07/23 08:27	107-06-2	
1,1-Dichloroethene	<0.00043	mg/kg	0.0081	0.00043	1		02/07/23 08:27	75-35-4	
cis-1,2-Dichloroethene	<0.00050	mg/kg	0.0081	0.00050	1		02/07/23 08:27	156-59-2	
trans-1,2-Dichloroethene	<0.00071	mg/kg	0.0081	0.00071	1		02/07/23 08:27	156-60-5	
1,2-Dichloropropane	<0.00048	mg/kg	0.0081	0.00048	1		02/07/23 08:27	78-87-5	
1,3-Dichloropropane	<0.00029	mg/kg	0.0081	0.00029	1		02/07/23 08:27	142-28-9	
2,2-Dichloropropane	<0.00063	mg/kg	0.0081	0.00063	1		02/07/23 08:27	594-20-7	
1,1-Dichloropropene	<0.00067	mg/kg	0.0081	0.00067	1		02/07/23 08:27	563-58-6	
cis-1,3-Dichloropropene	<0.00033	mg/kg	0.0081	0.00033	1		02/07/23 08:27	10061-01-5	
trans-1,3-Dichloropropene	<0.00035	mg/kg	0.0081	0.00035	1		02/07/23 08:27	10061-02-6	
Ethylbenzene	<0.00067	mg/kg	0.0081	0.00067	1		02/07/23 08:27	100-41-4	
Ethyl methacrylate	<0.00030	mg/kg	0.16	0.00030	1		02/07/23 08:27	97-63-2	
Hexachloro-1,3-butadiene	<0.00072	mg/kg	0.0081	0.00072	1		02/07/23 08:27	87-68-3	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: SP-6 (22') Lab ID: 50336749019 Collected: 02/01/23 11:55 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA									
Analytical Method: EPA 8260									
Initial Volume/Weight: 4.892 g Final Volume/Weight: 5 mL									
Pace Analytical Services - Indianapolis									
n-Hexane	<0.00036	mg/kg	0.0081	0.00036	1		02/07/23 08:27	110-54-3	
2-Hexanone	<0.0017	mg/kg	0.16	0.0017	1		02/07/23 08:27	591-78-6	
Iodomethane	<0.00046	mg/kg	0.16	0.00046	1		02/07/23 08:27	74-88-4	
Isopropylbenzene (Cumene)	<0.00069	mg/kg	0.0081	0.00069	1		02/07/23 08:27	98-82-8	
p-Isopropyltoluene	<0.00075	mg/kg	0.0081	0.00075	1		02/07/23 08:27	99-87-6	
Methylene Chloride	<0.00079	mg/kg	0.033	0.00079	1		02/07/23 08:27	75-09-2	
1-Methylnaphthalene	<0.00040	mg/kg	0.016	0.00040	1		02/07/23 08:27	90-12-0	
2-Methylnaphthalene	<0.00049	mg/kg	0.016	0.00049	1		02/07/23 08:27	91-57-6	
4-Methyl-2-pentanone (MIBK)	<0.0015	mg/kg	0.041	0.0015	1		02/07/23 08:27	108-10-1	
Methyl-tert-butyl ether	<0.00032	mg/kg	0.0081	0.00032	1		02/07/23 08:27	1634-04-4	
Naphthalene	<0.0012	mg/kg	0.0081	0.0012	1		02/07/23 08:27	91-20-3	
n-Propylbenzene	<0.00069	mg/kg	0.0081	0.00069	1		02/07/23 08:27	103-65-1	
Styrene	<0.00058	mg/kg	0.0081	0.00058	1		02/07/23 08:27	100-42-5	
1,1,1,2-Tetrachloroethane	<0.00039	mg/kg	0.0081	0.00039	1		02/07/23 08:27	630-20-6	
1,1,2,2-Tetrachloroethane	<0.00041	mg/kg	0.0081	0.00041	1		02/07/23 08:27	79-34-5	
Tetrachloroethene	<0.00065	mg/kg	0.0081	0.00065	1		02/07/23 08:27	127-18-4	
Toluene	<0.0011	mg/kg	0.0081	0.0011	1		02/07/23 08:27	108-88-3	
1,2,3-Trichlorobenzene	<0.00056	mg/kg	0.0081	0.00056	1		02/07/23 08:27	87-61-6	
1,2,4-Trichlorobenzene	<0.00067	mg/kg	0.0081	0.00067	1		02/07/23 08:27	120-82-1	
1,1,1-Trichloroethane	<0.00058	mg/kg	0.0081	0.00058	1		02/07/23 08:27	71-55-6	
1,1,2-Trichloroethane	<0.00033	mg/kg	0.0081	0.00033	1		02/07/23 08:27	79-00-5	
Trichloroethene	<0.00061	mg/kg	0.0081	0.00061	1		02/07/23 08:27	79-01-6	
Trichlorofluoromethane	<0.00027	mg/kg	0.0081	0.00027	1		02/07/23 08:27	75-69-4	
1,2,3-Trichloropropane	<0.00043	mg/kg	0.0081	0.00043	1		02/07/23 08:27	96-18-4	
1,2,4-Trimethylbenzene	<0.00070	mg/kg	0.0081	0.00070	1		02/07/23 08:27	95-63-6	
1,3,5-Trimethylbenzene	<0.00064	mg/kg	0.0081	0.00064	1		02/07/23 08:27	108-67-8	
Vinyl acetate	<0.00078	mg/kg	0.16	0.00078	1		02/07/23 08:27	108-05-4	
Vinyl chloride	<0.00027	mg/kg	0.0081	0.00027	1		02/07/23 08:27	75-01-4	
Xylene (Total)	<0.00069	mg/kg	0.016	0.00069	1		02/07/23 08:27	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	102	%	62-146		1		02/07/23 08:27	1868-53-7	
Toluene-d8 (S)	103	%	68-143		1		02/07/23 08:27	2037-26-5	
4-Bromofluorobenzene (S)	96	%	63-129		1		02/07/23 08:27	460-00-4	

Percent Moisture

Analytical Method: SM 2540G

Pace Analytical Services - Indianapolis

Percent Moisture	37.1	%	0.10	0.10	1		02/08/23 10:22		N2
------------------	------	---	------	------	---	--	----------------	--	----

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: SP-7 (25') **Lab ID:** 50336749020 Collected: 02/01/23 11:10 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA									
Analytical Method: EPA 8260									
Initial Volume/Weight: 5.949 g Final Volume/Weight: 5 mL									
Pace Analytical Services - Indianapolis									
Acetone	<0.0049	mg/kg	0.13	0.0049	1		02/07/23 08:57	67-64-1	
Acrolein	<0.0034	mg/kg	0.13	0.0034	1		02/07/23 08:57	107-02-8	
Acrylonitrile	<0.0013	mg/kg	0.13	0.0013	1		02/07/23 08:57	107-13-1	
Benzene	<0.00042	mg/kg	0.0063	0.00042	1		02/07/23 08:57	71-43-2	
Bromobenzene	<0.00042	mg/kg	0.0063	0.00042	1		02/07/23 08:57	108-86-1	
Bromochloromethane	<0.00022	mg/kg	0.0063	0.00022	1		02/07/23 08:57	74-97-5	
Bromodichloromethane	<0.00026	mg/kg	0.0063	0.00026	1		02/07/23 08:57	75-27-4	
Bromoform	<0.00018	mg/kg	0.0063	0.00018	1		02/07/23 08:57	75-25-2	
Bromomethane	<0.00034	mg/kg	0.0063	0.00034	1		02/07/23 08:57	74-83-9	
2-Butanone (MEK)	<0.00086	mg/kg	0.031	0.00086	1		02/07/23 08:57	78-93-3	
n-Butylbenzene	<0.00053	mg/kg	0.0063	0.00053	1		02/07/23 08:57	104-51-8	
sec-Butylbenzene	<0.00054	mg/kg	0.0063	0.00054	1		02/07/23 08:57	135-98-8	
tert-Butylbenzene	<0.00057	mg/kg	0.0063	0.00057	1		02/07/23 08:57	98-06-6	
Carbon disulfide	<0.00044	mg/kg	0.013	0.00044	1		02/07/23 08:57	75-15-0	
Carbon tetrachloride	<0.00038	mg/kg	0.0063	0.00038	1		02/07/23 08:57	56-23-5	
Chlorobenzene	<0.00043	mg/kg	0.0063	0.00043	1		02/07/23 08:57	108-90-7	
Chloroethane	<0.00021	mg/kg	0.0063	0.00021	1		02/07/23 08:57	75-00-3	
Chloroform	<0.00076	mg/kg	0.0063	0.00076	1		02/07/23 08:57	67-66-3	
Chloromethane	<0.00021	mg/kg	0.0063	0.00021	1		02/07/23 08:57	74-87-3	
2-Chlorotoluene	<0.00049	mg/kg	0.0063	0.00049	1		02/07/23 08:57	95-49-8	
4-Chlorotoluene	<0.00049	mg/kg	0.0063	0.00049	1		02/07/23 08:57	106-43-4	
Dibromochloromethane	<0.00025	mg/kg	0.0063	0.00025	1		02/07/23 08:57	124-48-1	
1,2-Dibromoethane (EDB)	<0.00028	mg/kg	0.0063	0.00028	1		02/07/23 08:57	106-93-4	
Dibromomethane	<0.00022	mg/kg	0.0063	0.00022	1		02/07/23 08:57	74-95-3	
1,2-Dichlorobenzene	<0.00042	mg/kg	0.0063	0.00042	1		02/07/23 08:57	95-50-1	
1,3-Dichlorobenzene	<0.00052	mg/kg	0.0063	0.00052	1		02/07/23 08:57	541-73-1	
1,4-Dichlorobenzene	<0.00047	mg/kg	0.0063	0.00047	1		02/07/23 08:57	106-46-7	
trans-1,4-Dichloro-2-butene	<0.00042	mg/kg	0.13	0.00042	1		02/07/23 08:57	110-57-6	
Dichlorodifluoromethane	<0.00033	mg/kg	0.0063	0.00033	1		02/07/23 08:57	75-71-8	
1,1-Dichloroethane	<0.00038	mg/kg	0.0063	0.00038	1		02/07/23 08:57	75-34-3	
1,2-Dichloroethane	<0.00033	mg/kg	0.0063	0.00033	1		02/07/23 08:57	107-06-2	
1,1-Dichloroethene	<0.00033	mg/kg	0.0063	0.00033	1		02/07/23 08:57	75-35-4	
cis-1,2-Dichloroethene	<0.00039	mg/kg	0.0063	0.00039	1		02/07/23 08:57	156-59-2	
trans-1,2-Dichloroethene	<0.00055	mg/kg	0.0063	0.00055	1		02/07/23 08:57	156-60-5	
1,2-Dichloropropane	<0.00037	mg/kg	0.0063	0.00037	1		02/07/23 08:57	78-87-5	
1,3-Dichloropropane	<0.00022	mg/kg	0.0063	0.00022	1		02/07/23 08:57	142-28-9	
2,2-Dichloropropane	<0.00049	mg/kg	0.0063	0.00049	1		02/07/23 08:57	594-20-7	
1,1-Dichloropropene	<0.00052	mg/kg	0.0063	0.00052	1		02/07/23 08:57	563-58-6	
cis-1,3-Dichloropropene	<0.00026	mg/kg	0.0063	0.00026	1		02/07/23 08:57	10061-01-5	
trans-1,3-Dichloropropene	<0.00027	mg/kg	0.0063	0.00027	1		02/07/23 08:57	10061-02-6	
Ethylbenzene	<0.00051	mg/kg	0.0063	0.00051	1		02/07/23 08:57	100-41-4	
Ethyl methacrylate	<0.00023	mg/kg	0.13	0.00023	1		02/07/23 08:57	97-63-2	
Hexachloro-1,3-butadiene	<0.00055	mg/kg	0.0063	0.00055	1		02/07/23 08:57	87-68-3	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: SP-7 (25') Lab ID: 50336749020 Collected: 02/01/23 11:10 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA									
Analytical Method: EPA 8260									
Initial Volume/Weight: 5.949 g Final Volume/Weight: 5 mL									
Pace Analytical Services - Indianapolis									
n-Hexane	<0.00027	mg/kg	0.0063	0.00027	1		02/07/23 08:57	110-54-3	
2-Hexanone	<0.0013	mg/kg	0.13	0.0013	1		02/07/23 08:57	591-78-6	
Iodomethane	<0.00036	mg/kg	0.13	0.00036	1		02/07/23 08:57	74-88-4	
Isopropylbenzene (Cumene)	<0.00053	mg/kg	0.0063	0.00053	1		02/07/23 08:57	98-82-8	
p-Isopropyltoluene	<0.00058	mg/kg	0.0063	0.00058	1		02/07/23 08:57	99-87-6	
Methylene Chloride	<0.00061	mg/kg	0.025	0.00061	1		02/07/23 08:57	75-09-2	
1-Methylnaphthalene	<0.00031	mg/kg	0.013	0.00031	1		02/07/23 08:57	90-12-0	
2-Methylnaphthalene	<0.00038	mg/kg	0.013	0.00038	1		02/07/23 08:57	91-57-6	
4-Methyl-2-pentanone (MIBK)	<0.0012	mg/kg	0.031	0.0012	1		02/07/23 08:57	108-10-1	
Methyl-tert-butyl ether	<0.00024	mg/kg	0.0063	0.00024	1		02/07/23 08:57	1634-04-4	
Naphthalene	<0.00095	mg/kg	0.0063	0.00095	1		02/07/23 08:57	91-20-3	
n-Propylbenzene	<0.00053	mg/kg	0.0063	0.00053	1		02/07/23 08:57	103-65-1	
Styrene	<0.00045	mg/kg	0.0063	0.00045	1		02/07/23 08:57	100-42-5	
1,1,1,2-Tetrachloroethane	<0.00030	mg/kg	0.0063	0.00030	1		02/07/23 08:57	630-20-6	
1,1,2,2-Tetrachloroethane	<0.00032	mg/kg	0.0063	0.00032	1		02/07/23 08:57	79-34-5	
Tetrachloroethene	<0.00050	mg/kg	0.0063	0.00050	1		02/07/23 08:57	127-18-4	
Toluene	0.0015J	mg/kg	0.0063	0.00083	1		02/07/23 08:57	108-88-3	
1,2,3-Trichlorobenzene	<0.00043	mg/kg	0.0063	0.00043	1		02/07/23 08:57	87-61-6	
1,2,4-Trichlorobenzene	<0.00052	mg/kg	0.0063	0.00052	1		02/07/23 08:57	120-82-1	
1,1,1-Trichloroethane	<0.00045	mg/kg	0.0063	0.00045	1		02/07/23 08:57	71-55-6	
1,1,2-Trichloroethane	<0.00026	mg/kg	0.0063	0.00026	1		02/07/23 08:57	79-00-5	
Trichloroethene	<0.00047	mg/kg	0.0063	0.00047	1		02/07/23 08:57	79-01-6	
Trichlorofluoromethane	<0.00021	mg/kg	0.0063	0.00021	1		02/07/23 08:57	75-69-4	
1,2,3-Trichloropropane	<0.00033	mg/kg	0.0063	0.00033	1		02/07/23 08:57	96-18-4	
1,2,4-Trimethylbenzene	<0.00054	mg/kg	0.0063	0.00054	1		02/07/23 08:57	95-63-6	
1,3,5-Trimethylbenzene	<0.00049	mg/kg	0.0063	0.00049	1		02/07/23 08:57	108-67-8	
Vinyl acetate	<0.00060	mg/kg	0.13	0.00060	1		02/07/23 08:57	108-05-4	
Vinyl chloride	<0.00021	mg/kg	0.0063	0.00021	1		02/07/23 08:57	75-01-4	
Xylene (Total)	<0.00053	mg/kg	0.013	0.00053	1		02/07/23 08:57	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	102	%	62-146		1		02/07/23 08:57	1868-53-7	
Toluene-d8 (S)	102	%	68-143		1		02/07/23 08:57	2037-26-5	
4-Bromofluorobenzene (S)	96	%	63-129		1		02/07/23 08:57	460-00-4	

Percent Moisture

Analytical Method: SM 2540G

Pace Analytical Services - Indianapolis

Percent Moisture	32.8	%	0.10	0.10	1		02/08/23 10:22		N2
------------------	------	---	------	------	---	--	----------------	--	----

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: SP-8 (16') Lab ID: 50336749021 Collected: 02/01/23 10:10 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA									
Analytical Method: EPA 8260									
Initial Volume/Weight: 4.915 g Final Volume/Weight: 5 mL									
Pace Analytical Services - Indianapolis									
Acetone	<0.0043	mg/kg	0.11	0.0043	1		02/08/23 01:13	67-64-1	
Acrolein	<0.0030	mg/kg	0.11	0.0030	1		02/08/23 01:13	107-02-8	
Acrylonitrile	<0.0011	mg/kg	0.11	0.0011	1		02/08/23 01:13	107-13-1	
Benzene	<0.00037	mg/kg	0.0055	0.00037	1		02/08/23 01:13	71-43-2	
Bromobenzene	<0.00037	mg/kg	0.0055	0.00037	1		02/08/23 01:13	108-86-1	
Bromochloromethane	<0.00019	mg/kg	0.0055	0.00019	1		02/08/23 01:13	74-97-5	
Bromodichloromethane	<0.00023	mg/kg	0.0055	0.00023	1		02/08/23 01:13	75-27-4	
Bromoform	<0.00016	mg/kg	0.0055	0.00016	1		02/08/23 01:13	75-25-2	
Bromomethane	<0.00030	mg/kg	0.0055	0.00030	1		02/08/23 01:13	74-83-9	
2-Butanone (MEK)	<0.00076	mg/kg	0.028	0.00076	1		02/08/23 01:13	78-93-3	
n-Butylbenzene	<0.00046	mg/kg	0.0055	0.00046	1		02/08/23 01:13	104-51-8	
sec-Butylbenzene	<0.00048	mg/kg	0.0055	0.00048	1		02/08/23 01:13	135-98-8	
tert-Butylbenzene	<0.00050	mg/kg	0.0055	0.00050	1		02/08/23 01:13	98-06-6	
Carbon disulfide	<0.00039	mg/kg	0.011	0.00039	1		02/08/23 01:13	75-15-0	
Carbon tetrachloride	<0.00033	mg/kg	0.0055	0.00033	1		02/08/23 01:13	56-23-5	
Chlorobenzene	<0.00038	mg/kg	0.0055	0.00038	1		02/08/23 01:13	108-90-7	
Chloroethane	<0.00018	mg/kg	0.0055	0.00018	1		02/08/23 01:13	75-00-3	
Chloroform	<0.00067	mg/kg	0.0055	0.00067	1		02/08/23 01:13	67-66-3	
Chloromethane	<0.00019	mg/kg	0.0055	0.00019	1		02/08/23 01:13	74-87-3	
2-Chlorotoluene	<0.00043	mg/kg	0.0055	0.00043	1		02/08/23 01:13	95-49-8	
4-Chlorotoluene	<0.00044	mg/kg	0.0055	0.00044	1		02/08/23 01:13	106-43-4	
Dibromochloromethane	<0.00022	mg/kg	0.0055	0.00022	1		02/08/23 01:13	124-48-1	
1,2-Dibromoethane (EDB)	<0.00025	mg/kg	0.0055	0.00025	1		02/08/23 01:13	106-93-4	
Dibromomethane	<0.00019	mg/kg	0.0055	0.00019	1		02/08/23 01:13	74-95-3	
1,2-Dichlorobenzene	<0.00037	mg/kg	0.0055	0.00037	1		02/08/23 01:13	95-50-1	
1,3-Dichlorobenzene	<0.00046	mg/kg	0.0055	0.00046	1		02/08/23 01:13	541-73-1	
1,4-Dichlorobenzene	<0.00042	mg/kg	0.0055	0.00042	1		02/08/23 01:13	106-46-7	
trans-1,4-Dichloro-2-butene	<0.00037	mg/kg	0.11	0.00037	1		02/08/23 01:13	110-57-6	
Dichlorodifluoromethane	<0.00029	mg/kg	0.0055	0.00029	1		02/08/23 01:13	75-71-8	
1,1-Dichloroethane	<0.00034	mg/kg	0.0055	0.00034	1		02/08/23 01:13	75-34-3	
1,2-Dichloroethane	<0.00029	mg/kg	0.0055	0.00029	1		02/08/23 01:13	107-06-2	
1,1-Dichloroethene	<0.00029	mg/kg	0.0055	0.00029	1		02/08/23 01:13	75-35-4	
cis-1,2-Dichloroethene	<0.00034	mg/kg	0.0055	0.00034	1		02/08/23 01:13	156-59-2	
trans-1,2-Dichloroethene	<0.00048	mg/kg	0.0055	0.00048	1		02/08/23 01:13	156-60-5	
1,2-Dichloropropane	<0.00033	mg/kg	0.0055	0.00033	1		02/08/23 01:13	78-87-5	
1,3-Dichloropropane	<0.00020	mg/kg	0.0055	0.00020	1		02/08/23 01:13	142-28-9	
2,2-Dichloropropane	<0.00043	mg/kg	0.0055	0.00043	1		02/08/23 01:13	594-20-7	
1,1-Dichloropropene	<0.00046	mg/kg	0.0055	0.00046	1		02/08/23 01:13	563-58-6	
cis-1,3-Dichloropropene	<0.00023	mg/kg	0.0055	0.00023	1		02/08/23 01:13	10061-01-5	
trans-1,3-Dichloropropene	<0.00024	mg/kg	0.0055	0.00024	1		02/08/23 01:13	10061-02-6	
Ethylbenzene	0.0021J	mg/kg	0.0055	0.00045	1		02/08/23 01:13	100-41-4	
Ethyl methacrylate	<0.00020	mg/kg	0.11	0.00020	1		02/08/23 01:13	97-63-2	
Hexachloro-1,3-butadiene	<0.00049	mg/kg	0.0055	0.00049	1		02/08/23 01:13	87-68-3	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: SP-8 (16') Lab ID: 50336749021 Collected: 02/01/23 10:10 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA									
Analytical Method: EPA 8260									
Initial Volume/Weight: 4.915 g Final Volume/Weight: 5 mL									
Pace Analytical Services - Indianapolis									
n-Hexane	<0.00024	mg/kg	0.0055	0.00024	1		02/08/23 01:13	110-54-3	
2-Hexanone	<0.0012	mg/kg	0.11	0.0012	1		02/08/23 01:13	591-78-6	
Iodomethane	<0.00031	mg/kg	0.11	0.00031	1		02/08/23 01:13	74-88-4	
Isopropylbenzene (Cumene)	<0.00047	mg/kg	0.0055	0.00047	1		02/08/23 01:13	98-82-8	
p-Isopropyltoluene	0.00058J	mg/kg	0.0055	0.00051	1		02/08/23 01:13	99-87-6	
Methylene Chloride	0.0020J	mg/kg	0.022	0.00054	1		02/08/23 01:13	75-09-2	B
1-Methylnaphthalene	0.00043J	mg/kg	0.011	0.00027	1		02/08/23 01:13	90-12-0	B
2-Methylnaphthalene	0.00054J	mg/kg	0.011	0.00033	1		02/08/23 01:13	91-57-6	B
4-Methyl-2-pentanone (MIBK)	<0.0010	mg/kg	0.028	0.0010	1		02/08/23 01:13	108-10-1	
Methyl-tert-butyl ether	<0.00021	mg/kg	0.0055	0.00021	1		02/08/23 01:13	1634-04-4	
Naphthalene	<0.00084	mg/kg	0.0055	0.00084	1		02/08/23 01:13	91-20-3	
n-Propylbenzene	<0.00047	mg/kg	0.0055	0.00047	1		02/08/23 01:13	103-65-1	
Styrene	<0.00040	mg/kg	0.0055	0.00040	1		02/08/23 01:13	100-42-5	
1,1,1,2-Tetrachloroethane	<0.00027	mg/kg	0.0055	0.00027	1		02/08/23 01:13	630-20-6	
1,1,2,2-Tetrachloroethane	<0.00028	mg/kg	0.0055	0.00028	1		02/08/23 01:13	79-34-5	
Tetrachloroethene	<0.00044	mg/kg	0.0055	0.00044	1		02/08/23 01:13	127-18-4	
Toluene	0.0041J	mg/kg	0.0055	0.00073	1		02/08/23 01:13	108-88-3	
1,2,3-Trichlorobenzene	<0.00038	mg/kg	0.0055	0.00038	1		02/08/23 01:13	87-61-6	
1,2,4-Trichlorobenzene	<0.00046	mg/kg	0.0055	0.00046	1		02/08/23 01:13	120-82-1	
1,1,1-Trichloroethane	<0.00039	mg/kg	0.0055	0.00039	1		02/08/23 01:13	71-55-6	
1,1,2-Trichloroethane	<0.00023	mg/kg	0.0055	0.00023	1		02/08/23 01:13	79-00-5	
Trichloroethene	<0.00041	mg/kg	0.0055	0.00041	1		02/08/23 01:13	79-01-6	
Trichlorofluoromethane	<0.00018	mg/kg	0.0055	0.00018	1		02/08/23 01:13	75-69-4	
1,2,3-Trichloropropane	<0.00029	mg/kg	0.0055	0.00029	1		02/08/23 01:13	96-18-4	
1,2,4-Trimethylbenzene	0.00085J	mg/kg	0.0055	0.00048	1		02/08/23 01:13	95-63-6	
1,3,5-Trimethylbenzene	<0.00043	mg/kg	0.0055	0.00043	1		02/08/23 01:13	108-67-8	
Vinyl acetate	<0.00053	mg/kg	0.11	0.00053	1		02/08/23 01:13	108-05-4	
Vinyl chloride	<0.00019	mg/kg	0.0055	0.00019	1		02/08/23 01:13	75-01-4	
Xylene (Total)	0.0017J	mg/kg	0.011	0.00047	1		02/08/23 01:13	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	102	%	62-146		1		02/08/23 01:13	1868-53-7	
Toluene-d8 (S)	100	%	68-143		1		02/08/23 01:13	2037-26-5	
4-Bromofluorobenzene (S)	102	%	63-129		1		02/08/23 01:13	460-00-4	

Percent Moisture

Analytical Method: SM 2540G

Pace Analytical Services - Indianapolis

Percent Moisture	8.0	%	0.10	0.10	1		02/08/23 10:23		N2
------------------	-----	---	------	------	---	--	----------------	--	----

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: SP-9 (0-2') Lab ID: 50336749022 Collected: 02/01/23 09:20 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Initial Volume/Weight: 1.0027 g Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	<0.28	mg/kg	1.1	0.28	1	02/15/23 09:12	02/16/23 16:09	7440-36-0	
Arsenic	13.5	mg/kg	1.1	0.18	1	02/15/23 09:12	02/16/23 16:09	7440-38-2	
Barium	83.1	mg/kg	1.1	0.20	1	02/15/23 09:12	02/16/23 16:09	7440-39-3	
Beryllium	0.53J	mg/kg	0.54	0.11	1	02/15/23 09:12	02/16/23 16:09	7440-41-7	
Cadmium	0.20J	mg/kg	0.54	0.025	1	02/15/23 09:12	02/16/23 16:09	7440-43-9	
Chromium	22.1	mg/kg	1.1	1.0	1	02/15/23 09:12	02/16/23 16:09	7440-47-3	
Copper	53.9	mg/kg	1.1	0.26	1	02/15/23 09:12	02/16/23 16:09	7440-50-8	
Lead	25.8	mg/kg	1.1	0.50	1	02/15/23 09:12	02/16/23 16:09	7439-92-1	
Nickel	21.6	mg/kg	1.1	0.14	1	02/15/23 09:12	02/16/23 16:09	7440-02-0	
Selenium	0.57J	mg/kg	1.1	0.30	1	02/15/23 09:12	02/16/23 16:09	7782-49-2	
Silver	0.23J	mg/kg	0.54	0.14	1	02/15/23 09:12	02/16/23 16:09	7440-22-4	
Thallium	<0.21	mg/kg	1.1	0.21	1	02/15/23 09:12	02/17/23 13:06	7440-28-0	
Zinc	56.1	mg/kg	1.1	0.93	1	02/15/23 09:12	02/16/23 16:09	7440-66-6	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Initial Volume/Weight: 0.294 g Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Mercury	0.036J	mg/kg	0.22	0.025	1	02/14/23 20:16	02/15/23 09:58	7439-97-6	
8270 PAH Soil by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Initial Volume/Weight: 15.6 g Final Volume/Weight: 1 mL									
Pace Analytical Services - Indianapolis									
Acenaphthene	<0.010	mg/kg	0.026	0.010	5	02/06/23 22:45	02/07/23 17:40	83-32-9	
Acenaphthylene	<0.0098	mg/kg	0.026	0.0098	5	02/06/23 22:45	02/07/23 17:40	208-96-8	
Anthracene	0.027	mg/kg	0.026	0.013	5	02/06/23 22:45	02/07/23 17:40	120-12-7	
Benzo(a)anthracene	0.075	mg/kg	0.026	0.016	5	02/06/23 22:45	02/07/23 17:40	56-55-3	
Benzo(a)pyrene	0.068	mg/kg	0.026	0.015	5	02/06/23 22:45	02/07/23 17:40	50-32-8	
Benzo(b)fluoranthene	0.10	mg/kg	0.026	0.014	5	02/06/23 22:45	02/07/23 17:40	205-99-2	
Benzo(g,h,i)perylene	0.041	mg/kg	0.026	0.015	5	02/06/23 22:45	02/07/23 17:40	191-24-2	
Benzo(k)fluoranthene	0.029	mg/kg	0.026	0.012	5	02/06/23 22:45	02/07/23 17:40	207-08-9	
Chrysene	0.082	mg/kg	0.026	0.018	5	02/06/23 22:45	02/07/23 17:40	218-01-9	
Dibenz(a,h)anthracene	<0.013	mg/kg	0.026	0.013	5	02/06/23 22:45	02/07/23 17:40	53-70-3	
Fluoranthene	0.24	mg/kg	0.026	0.018	5	02/06/23 22:45	02/07/23 17:40	206-44-0	
Fluorene	<0.010	mg/kg	0.026	0.010	5	02/06/23 22:45	02/07/23 17:40	86-73-7	
Indeno(1,2,3-cd)pyrene	0.041	mg/kg	0.026	0.013	5	02/06/23 22:45	02/07/23 17:40	193-39-5	
1-Methylnaphthalene	<0.010	mg/kg	0.026	0.010	5	02/06/23 22:45	02/07/23 17:40	90-12-0	
2-Methylnaphthalene	<0.0099	mg/kg	0.026	0.0099	5	02/06/23 22:45	02/07/23 17:40	91-57-6	
Naphthalene	<0.0097	mg/kg	0.026	0.0097	5	02/06/23 22:45	02/07/23 17:40	91-20-3	ED
Phenanthrene	0.23	mg/kg	0.026	0.019	5	02/06/23 22:45	02/07/23 17:40	85-01-8	
Pyrene	0.19	mg/kg	0.026	0.018	5	02/06/23 22:45	02/07/23 17:40	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	66	%	28-116		5	02/06/23 22:45	02/07/23 17:40	321-60-8	
p-Terphenyl-d14 (S)	74	%	27-127		5	02/06/23 22:45	02/07/23 17:40	1718-51-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: SP-9 (0-2') **Lab ID: 50336749022** Collected: 02/01/23 09:20 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: SM 2540G Pace Analytical Services - Indianapolis								
Percent Moisture	7.3	%	0.10	0.10	1		02/08/23 10:23		N2

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: SP-9 (25') Lab ID: 50336749023 Collected: 02/01/23 09:40 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA									
Analytical Method: EPA 8260									
Initial Volume/Weight: 5.067 g Final Volume/Weight: 5 mL									
Pace Analytical Services - Indianapolis									
Acetone	<0.0060	mg/kg	0.15	0.0060	1		02/07/23 09:27	67-64-1	
Acrolein	<0.0042	mg/kg	0.15	0.0042	1		02/07/23 09:27	107-02-8	
Acrylonitrile	<0.0015	mg/kg	0.15	0.0015	1		02/07/23 09:27	107-13-1	
Benzene	<0.00052	mg/kg	0.0077	0.00052	1		02/07/23 09:27	71-43-2	
Bromobenzene	<0.00051	mg/kg	0.0077	0.00051	1		02/07/23 09:27	108-86-1	
Bromochloromethane	<0.00027	mg/kg	0.0077	0.00027	1		02/07/23 09:27	74-97-5	
Bromodichloromethane	<0.00032	mg/kg	0.0077	0.00032	1		02/07/23 09:27	75-27-4	
Bromoform	<0.00022	mg/kg	0.0077	0.00022	1		02/07/23 09:27	75-25-2	
Bromomethane	<0.00042	mg/kg	0.0077	0.00042	1		02/07/23 09:27	74-83-9	
2-Butanone (MEK)	<0.0011	mg/kg	0.038	0.0011	1		02/07/23 09:27	78-93-3	
n-Butylbenzene	<0.00064	mg/kg	0.0077	0.00064	1		02/07/23 09:27	104-51-8	
sec-Butylbenzene	<0.00067	mg/kg	0.0077	0.00067	1		02/07/23 09:27	135-98-8	
tert-Butylbenzene	<0.00069	mg/kg	0.0077	0.00069	1		02/07/23 09:27	98-06-6	
Carbon disulfide	<0.00054	mg/kg	0.015	0.00054	1		02/07/23 09:27	75-15-0	
Carbon tetrachloride	<0.00046	mg/kg	0.0077	0.00046	1		02/07/23 09:27	56-23-5	
Chlorobenzene	<0.00053	mg/kg	0.0077	0.00053	1		02/07/23 09:27	108-90-7	
Chloroethane	<0.00025	mg/kg	0.0077	0.00025	1		02/07/23 09:27	75-00-3	
Chloroform	<0.00093	mg/kg	0.0077	0.00093	1		02/07/23 09:27	67-66-3	
Chloromethane	<0.00026	mg/kg	0.0077	0.00026	1		02/07/23 09:27	74-87-3	
2-Chlorotoluene	<0.00060	mg/kg	0.0077	0.00060	1		02/07/23 09:27	95-49-8	
4-Chlorotoluene	<0.00060	mg/kg	0.0077	0.00060	1		02/07/23 09:27	106-43-4	
Dibromochloromethane	<0.00030	mg/kg	0.0077	0.00030	1		02/07/23 09:27	124-48-1	
1,2-Dibromoethane (EDB)	<0.00035	mg/kg	0.0077	0.00035	1		02/07/23 09:27	106-93-4	
Dibromomethane	<0.00027	mg/kg	0.0077	0.00027	1		02/07/23 09:27	74-95-3	
1,2-Dichlorobenzene	<0.00051	mg/kg	0.0077	0.00051	1		02/07/23 09:27	95-50-1	
1,3-Dichlorobenzene	<0.00063	mg/kg	0.0077	0.00063	1		02/07/23 09:27	541-73-1	
1,4-Dichlorobenzene	<0.00058	mg/kg	0.0077	0.00058	1		02/07/23 09:27	106-46-7	
trans-1,4-Dichloro-2-butene	<0.00052	mg/kg	0.15	0.00052	1		02/07/23 09:27	110-57-6	
Dichlorodifluoromethane	<0.00041	mg/kg	0.0077	0.00041	1		02/07/23 09:27	75-71-8	
1,1-Dichloroethane	<0.00047	mg/kg	0.0077	0.00047	1		02/07/23 09:27	75-34-3	
1,2-Dichloroethane	<0.00040	mg/kg	0.0077	0.00040	1		02/07/23 09:27	107-06-2	
1,1-Dichloroethene	<0.00041	mg/kg	0.0077	0.00041	1		02/07/23 09:27	75-35-4	
cis-1,2-Dichloroethene	<0.00048	mg/kg	0.0077	0.00048	1		02/07/23 09:27	156-59-2	
trans-1,2-Dichloroethene	<0.00067	mg/kg	0.0077	0.00067	1		02/07/23 09:27	156-60-5	
1,2-Dichloropropane	<0.00045	mg/kg	0.0077	0.00045	1		02/07/23 09:27	78-87-5	
1,3-Dichloropropane	<0.00027	mg/kg	0.0077	0.00027	1		02/07/23 09:27	142-28-9	
2,2-Dichloropropane	<0.00060	mg/kg	0.0077	0.00060	1		02/07/23 09:27	594-20-7	
1,1-Dichloropropene	<0.00063	mg/kg	0.0077	0.00063	1		02/07/23 09:27	563-58-6	
cis-1,3-Dichloropropene	<0.00032	mg/kg	0.0077	0.00032	1		02/07/23 09:27	10061-01-5	
trans-1,3-Dichloropropene	<0.00033	mg/kg	0.0077	0.00033	1		02/07/23 09:27	10061-02-6	
Ethylbenzene	<0.00063	mg/kg	0.0077	0.00063	1		02/07/23 09:27	100-41-4	
Ethyl methacrylate	<0.00028	mg/kg	0.15	0.00028	1		02/07/23 09:27	97-63-2	
Hexachloro-1,3-butadiene	<0.00068	mg/kg	0.0077	0.00068	1		02/07/23 09:27	87-68-3	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: SP-9 (25') **Lab ID: 50336749023** Collected: 02/01/23 09:40 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA									
Analytical Method: EPA 8260									
Initial Volume/Weight: 5.067 g Final Volume/Weight: 5 mL									
Pace Analytical Services - Indianapolis									
n-Hexane	<0.00034	mg/kg	0.0077	0.00034	1		02/07/23 09:27	110-54-3	
2-Hexanone	<0.0016	mg/kg	0.15	0.0016	1		02/07/23 09:27	591-78-6	
Iodomethane	<0.00044	mg/kg	0.15	0.00044	1		02/07/23 09:27	74-88-4	
Isopropylbenzene (Cumene)	<0.00065	mg/kg	0.0077	0.00065	1		02/07/23 09:27	98-82-8	
p-Isopropyltoluene	<0.00071	mg/kg	0.0077	0.00071	1		02/07/23 09:27	99-87-6	
Methylene Chloride	<0.00074	mg/kg	0.031	0.00074	1		02/07/23 09:27	75-09-2	
1-Methylnaphthalene	<0.00038	mg/kg	0.015	0.00038	1		02/07/23 09:27	90-12-0	
2-Methylnaphthalene	<0.00046	mg/kg	0.015	0.00046	1		02/07/23 09:27	91-57-6	
4-Methyl-2-pentanone (MIBK)	<0.0014	mg/kg	0.038	0.0014	1		02/07/23 09:27	108-10-1	
Methyl-tert-butyl ether	<0.00030	mg/kg	0.0077	0.00030	1		02/07/23 09:27	1634-04-4	
Naphthalene	<0.0012	mg/kg	0.0077	0.0012	1		02/07/23 09:27	91-20-3	
n-Propylbenzene	<0.00065	mg/kg	0.0077	0.00065	1		02/07/23 09:27	103-65-1	
Styrene	<0.00055	mg/kg	0.0077	0.00055	1		02/07/23 09:27	100-42-5	
1,1,1,2-Tetrachloroethane	<0.00037	mg/kg	0.0077	0.00037	1		02/07/23 09:27	630-20-6	
1,1,2,2-Tetrachloroethane	<0.00039	mg/kg	0.0077	0.00039	1		02/07/23 09:27	79-34-5	
Tetrachloroethene	<0.00061	mg/kg	0.0077	0.00061	1		02/07/23 09:27	127-18-4	
Toluene	0.0018J	mg/kg	0.0077	0.0010	1		02/07/23 09:27	108-88-3	
1,2,3-Trichlorobenzene	<0.00053	mg/kg	0.0077	0.00053	1		02/07/23 09:27	87-61-6	
1,2,4-Trichlorobenzene	<0.00064	mg/kg	0.0077	0.00064	1		02/07/23 09:27	120-82-1	
1,1,1-Trichloroethane	<0.00055	mg/kg	0.0077	0.00055	1		02/07/23 09:27	71-55-6	
1,1,2-Trichloroethane	<0.00032	mg/kg	0.0077	0.00032	1		02/07/23 09:27	79-00-5	
Trichloroethene	<0.00057	mg/kg	0.0077	0.00057	1		02/07/23 09:27	79-01-6	
Trichlorofluoromethane	<0.00025	mg/kg	0.0077	0.00025	1		02/07/23 09:27	75-69-4	
1,2,3-Trichloropropane	<0.00041	mg/kg	0.0077	0.00041	1		02/07/23 09:27	96-18-4	
1,2,4-Trimethylbenzene	<0.00066	mg/kg	0.0077	0.00066	1		02/07/23 09:27	95-63-6	
1,3,5-Trimethylbenzene	<0.00060	mg/kg	0.0077	0.00060	1		02/07/23 09:27	108-67-8	
Vinyl acetate	<0.00073	mg/kg	0.15	0.00073	1		02/07/23 09:27	108-05-4	
Vinyl chloride	<0.00026	mg/kg	0.0077	0.00026	1		02/07/23 09:27	75-01-4	
Xylene (Total)	<0.00065	mg/kg	0.015	0.00065	1		02/07/23 09:27	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	103	%	62-146		1		02/07/23 09:27	1868-53-7	
Toluene-d8 (S)	102	%	68-143		1		02/07/23 09:27	2037-26-5	
4-Bromofluorobenzene (S)	98	%	63-129		1		02/07/23 09:27	460-00-4	

Percent Moisture

Analytical Method: SM 2540G
Pace Analytical Services - Indianapolis

Percent Moisture	35.6	%	0.10	0.10	1		02/08/23 10:25		N2
------------------	-------------	---	------	------	---	--	----------------	--	----

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: SP-10 (0-2') **Lab ID: 50336749024** Collected: 02/01/23 10:35 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Initial Volume/Weight: 1.0231 g Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.48J	mg/kg	1.1	0.29	1	02/15/23 09:12	02/16/23 16:12	7440-36-0	
Arsenic	8.7	mg/kg	1.1	0.18	1	02/15/23 09:12	02/16/23 16:12	7440-38-2	
Barium	157	mg/kg	1.1	0.21	1	02/15/23 09:12	02/16/23 16:12	7440-39-3	
Beryllium	0.35J	mg/kg	0.55	0.11	1	02/15/23 09:12	02/16/23 16:12	7440-41-7	
Cadmium	5.6	mg/kg	0.55	0.026	1	02/15/23 09:12	02/16/23 16:12	7440-43-9	
Chromium	10.8	mg/kg	1.1	1.1	1	02/15/23 09:12	02/16/23 16:12	7440-47-3	
Copper	20.7	mg/kg	1.1	0.26	1	02/15/23 09:12	02/16/23 16:12	7440-50-8	
Lead	82.3	mg/kg	1.1	0.51	1	02/15/23 09:12	02/16/23 16:12	7439-92-1	
Nickel	12.8	mg/kg	1.1	0.14	1	02/15/23 09:12	02/16/23 16:12	7440-02-0	
Selenium	0.41J	mg/kg	1.1	0.31	1	02/15/23 09:12	02/16/23 16:12	7782-49-2	
Silver	0.33J	mg/kg	0.55	0.14	1	02/15/23 09:12	02/16/23 16:12	7440-22-4	
Thallium	<0.66	mg/kg	3.3	0.66	3	02/15/23 09:12	02/17/23 08:51	7440-28-0	D3
Zinc	1730	mg/kg	1.1	0.96	1	02/15/23 09:12	02/16/23 16:12	7440-66-6	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Initial Volume/Weight: 0.306 g Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Mercury	0.25	mg/kg	0.22	0.026	1	02/14/23 20:16	02/15/23 10:01	7439-97-6	
8270 PAH Soil by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Initial Volume/Weight: 15.6 g Final Volume/Weight: 1 mL									
Pace Analytical Services - Indianapolis									
Acenaphthene	0.028	mg/kg	0.027	0.011	5	02/06/23 22:45	02/07/23 17:55	83-32-9	
Acenaphthylene	0.28	mg/kg	0.027	0.010	5	02/06/23 22:45	02/07/23 17:55	208-96-8	
Anthracene	0.28	mg/kg	0.027	0.014	5	02/06/23 22:45	02/07/23 17:55	120-12-7	
Benzo(a)anthracene	0.66	mg/kg	0.027	0.016	5	02/06/23 22:45	02/07/23 17:55	56-55-3	
Benzo(a)pyrene	0.58	mg/kg	0.027	0.016	5	02/06/23 22:45	02/07/23 17:55	50-32-8	
Benzo(b)fluoranthene	0.97	mg/kg	0.027	0.015	5	02/06/23 22:45	02/07/23 17:55	205-99-2	
Benzo(g,h,i)perylene	0.34	mg/kg	0.027	0.016	5	02/06/23 22:45	02/07/23 17:55	191-24-2	
Benzo(k)fluoranthene	0.32	mg/kg	0.027	0.013	5	02/06/23 22:45	02/07/23 17:55	207-08-9	
Chrysene	0.83	mg/kg	0.027	0.019	5	02/06/23 22:45	02/07/23 17:55	218-01-9	
Dibenz(a,h)anthracene	0.079	mg/kg	0.027	0.013	5	02/06/23 22:45	02/07/23 17:55	53-70-3	
Fluoranthene	1.8	mg/kg	0.027	0.019	5	02/06/23 22:45	02/07/23 17:55	206-44-0	
Fluorene	0.15	mg/kg	0.027	0.011	5	02/06/23 22:45	02/07/23 17:55	86-73-7	
Indeno(1,2,3-cd)pyrene	0.34	mg/kg	0.027	0.014	5	02/06/23 22:45	02/07/23 17:55	193-39-5	
1-Methylnaphthalene	0.16	mg/kg	0.027	0.011	5	02/06/23 22:45	02/07/23 17:55	90-12-0	
2-Methylnaphthalene	0.15	mg/kg	0.027	0.010	5	02/06/23 22:45	02/07/23 17:55	91-57-6	
Naphthalene	0.27	mg/kg	0.027	0.010	5	02/06/23 22:45	02/07/23 17:55	91-20-3	ED
Phenanthrene	1.4	mg/kg	0.027	0.020	5	02/06/23 22:45	02/07/23 17:55	85-01-8	
Pyrene	1.5	mg/kg	0.027	0.019	5	02/06/23 22:45	02/07/23 17:55	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	68	%	28-116		5	02/06/23 22:45	02/07/23 17:55	321-60-8	
p-Terphenyl-d14 (S)	76	%	27-127		5	02/06/23 22:45	02/07/23 17:55	1718-51-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: SP-10 (0-2') **Lab ID: 50336749024** Collected: 02/01/23 10:35 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: SM 2540G Pace Analytical Services - Indianapolis								
Percent Moisture	11.9	%	0.10	0.10	1		02/08/23 10:25		N2

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: SP-11 (0-2') Lab ID: 50336749025 Collected: 02/01/23 16:05 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Initial Volume/Weight: 1.0798 g Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.28J	mg/kg	0.97	0.26	1	02/15/23 09:12	02/16/23 16:16	7440-36-0	
Arsenic	1.4	mg/kg	0.97	0.16	1	02/15/23 09:12	02/16/23 16:16	7440-38-2	
Barium	51.6	mg/kg	0.97	0.18	1	02/15/23 09:12	02/16/23 16:16	7440-39-3	
Beryllium	<0.099	mg/kg	0.48	0.099	1	02/15/23 09:12	02/16/23 16:16	7440-41-7	
Cadmium	0.32J	mg/kg	0.48	0.022	1	02/15/23 09:12	02/16/23 16:16	7440-43-9	
Chromium	4.4	mg/kg	0.97	0.92	1	02/15/23 09:12	02/16/23 16:16	7440-47-3	
Copper	2.0	mg/kg	0.97	0.23	1	02/15/23 09:12	02/16/23 16:16	7440-50-8	
Lead	1.6	mg/kg	0.97	0.45	1	02/15/23 09:12	02/16/23 16:16	7439-92-1	
Nickel	5.2	mg/kg	0.97	0.12	1	02/15/23 09:12	02/16/23 16:16	7440-02-0	
Selenium	<0.27	mg/kg	0.97	0.27	1	02/15/23 09:12	02/16/23 16:16	7782-49-2	
Silver	<0.12	mg/kg	0.48	0.12	1	02/15/23 09:12	02/16/23 16:16	7440-22-4	
Thallium	<0.19	mg/kg	0.97	0.19	1	02/15/23 09:12	02/17/23 13:10	7440-28-0	
Zinc	17.5	mg/kg	0.97	0.83	1	02/15/23 09:12	02/16/23 16:16	7440-66-6	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Initial Volume/Weight: 0.316 g Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Mercury	<0.023	mg/kg	0.20	0.023	1	02/14/23 20:16	02/15/23 10:03	7439-97-6	
8270 PAH Soil by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Initial Volume/Weight: 15.1 g Final Volume/Weight: 1 mL									
Pace Analytical Services - Indianapolis									
Acenaphthene	<0.0021	mg/kg	0.0052	0.0021	1	02/06/23 15:00	02/08/23 15:43	83-32-9	
Acenaphthylene	<0.0020	mg/kg	0.0052	0.0020	1	02/06/23 15:00	02/08/23 15:43	208-96-8	
Anthracene	<0.0026	mg/kg	0.0052	0.0026	1	02/06/23 15:00	02/08/23 15:43	120-12-7	
Benzo(a)anthracene	<0.0031	mg/kg	0.0052	0.0031	1	02/06/23 15:00	02/08/23 15:43	56-55-3	
Benzo(a)pyrene	<0.0031	mg/kg	0.0052	0.0031	1	02/06/23 15:00	02/08/23 15:43	50-32-8	
Benzo(b)fluoranthene	<0.0029	mg/kg	0.0052	0.0029	1	02/06/23 15:00	02/08/23 15:43	205-99-2	
Benzo(g,h,i)perylene	0.0036J	mg/kg	0.0052	0.0031	1	02/06/23 15:00	02/08/23 15:43	191-24-2	
Benzo(k)fluoranthene	<0.0024	mg/kg	0.0052	0.0024	1	02/06/23 15:00	02/08/23 15:43	207-08-9	
Chrysene	<0.0036	mg/kg	0.0052	0.0036	1	02/06/23 15:00	02/08/23 15:43	218-01-9	
Dibenz(a,h)anthracene	<0.0025	mg/kg	0.0052	0.0025	1	02/06/23 15:00	02/08/23 15:43	53-70-3	
Fluoranthene	<0.0036	mg/kg	0.0052	0.0036	1	02/06/23 15:00	02/08/23 15:43	206-44-0	
Fluorene	<0.0020	mg/kg	0.0052	0.0020	1	02/06/23 15:00	02/08/23 15:43	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0026	mg/kg	0.0052	0.0026	1	02/06/23 15:00	02/08/23 15:43	193-39-5	
1-Methylnaphthalene	<0.0021	mg/kg	0.0052	0.0021	1	02/06/23 15:00	02/08/23 15:43	90-12-0	
2-Methylnaphthalene	<0.0020	mg/kg	0.0052	0.0020	1	02/06/23 15:00	02/08/23 15:43	91-57-6	
Naphthalene	<0.0019	mg/kg	0.0052	0.0019	1	02/06/23 15:00	02/08/23 15:43	91-20-3	
Phenanthrene	<0.0037	mg/kg	0.0052	0.0037	1	02/06/23 15:00	02/08/23 15:43	85-01-8	
Pyrene	<0.0036	mg/kg	0.0052	0.0036	1	02/06/23 15:00	02/08/23 15:43	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	76	%	28-116		1	02/06/23 15:00	02/08/23 15:43	321-60-8	
p-Terphenyl-d14 (S)	81	%	27-127		1	02/06/23 15:00	02/08/23 15:43	1718-51-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: SP-11 (0-2') **Lab ID: 50336749025** Collected: 02/01/23 16:05 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: SM 2540G Pace Analytical Services - Indianapolis								
Percent Moisture	4.1	%	0.10	0.10	1		02/08/23 10:26		N2

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: SP-12 (0-1') Lab ID: 50336749026 Collected: 02/01/23 16:00 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Initial Volume/Weight: 1.0801 g Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.52J	mg/kg	0.98	0.26	1	02/15/23 09:12	02/16/23 16:20	7440-36-0	
Arsenic	2.0	mg/kg	0.98	0.16	1	02/15/23 09:12	02/16/23 16:20	7440-38-2	
Barium	62.8	mg/kg	0.98	0.18	1	02/15/23 09:12	02/16/23 16:20	7440-39-3	
Beryllium	<0.10	mg/kg	0.49	0.10	1	02/15/23 09:12	02/16/23 16:20	7440-41-7	
Cadmium	0.30J	mg/kg	0.49	0.022	1	02/15/23 09:12	02/16/23 16:20	7440-43-9	
Chromium	5.7	mg/kg	0.98	0.93	1	02/15/23 09:12	02/16/23 16:20	7440-47-3	
Copper	3.8	mg/kg	0.98	0.23	1	02/15/23 09:12	02/16/23 16:20	7440-50-8	
Lead	5.2	mg/kg	0.98	0.45	1	02/15/23 09:12	02/16/23 16:20	7439-92-1	
Nickel	7.8	mg/kg	0.98	0.13	1	02/15/23 09:12	02/16/23 16:20	7440-02-0	
Selenium	<0.27	mg/kg	0.98	0.27	1	02/15/23 09:12	02/16/23 16:20	7782-49-2	
Silver	<0.12	mg/kg	0.49	0.12	1	02/15/23 09:12	02/16/23 16:20	7440-22-4	
Thallium	<0.19	mg/kg	0.98	0.19	1	02/15/23 09:12	02/17/23 13:13	7440-28-0	
Zinc	23.7	mg/kg	0.98	0.84	1	02/15/23 09:12	02/16/23 16:20	7440-66-6	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Initial Volume/Weight: 0.309 g Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Mercury	<0.024	mg/kg	0.20	0.024	1	02/14/23 20:16	02/15/23 10:06	7439-97-6	
8270 PAH Soil by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Initial Volume/Weight: 15.6 g Final Volume/Weight: 1 mL									
Pace Analytical Services - Indianapolis									
Acenaphthene	<0.020	mg/kg	0.051	0.020	10	02/06/23 15:00	02/07/23 20:19	83-32-9	
Acenaphthylene	<0.019	mg/kg	0.051	0.019	10	02/06/23 15:00	02/07/23 20:19	208-96-8	
Anthracene	<0.025	mg/kg	0.051	0.025	10	02/06/23 15:00	02/07/23 20:19	120-12-7	
Benzo(a)anthracene	0.060	mg/kg	0.051	0.031	10	02/06/23 15:00	02/07/23 20:19	56-55-3	
Benzo(a)pyrene	0.073	mg/kg	0.051	0.030	10	02/06/23 15:00	02/07/23 20:19	50-32-8	
Benzo(b)fluoranthene	0.091	mg/kg	0.051	0.028	10	02/06/23 15:00	02/07/23 20:19	205-99-2	
Benzo(g,h,i)perylene	0.059	mg/kg	0.051	0.030	10	02/06/23 15:00	02/07/23 20:19	191-24-2	
Benzo(k)fluoranthene	<0.023	mg/kg	0.051	0.023	10	02/06/23 15:00	02/07/23 20:19	207-08-9	
Chrysene	0.091	mg/kg	0.051	0.035	10	02/06/23 15:00	02/07/23 20:19	218-01-9	
Dibenz(a,h)anthracene	<0.025	mg/kg	0.051	0.025	10	02/06/23 15:00	02/07/23 20:19	53-70-3	
Fluoranthene	0.096	mg/kg	0.051	0.035	10	02/06/23 15:00	02/07/23 20:19	206-44-0	
Fluorene	<0.020	mg/kg	0.051	0.020	10	02/06/23 15:00	02/07/23 20:19	86-73-7	
Indeno(1,2,3-cd)pyrene	0.037J	mg/kg	0.051	0.026	10	02/06/23 15:00	02/07/23 20:19	193-39-5	
1-Methylnaphthalene	<0.020	mg/kg	0.051	0.020	10	02/06/23 15:00	02/07/23 20:19	90-12-0	
2-Methylnaphthalene	<0.019	mg/kg	0.051	0.019	10	02/06/23 15:00	02/07/23 20:19	91-57-6	
Naphthalene	0.035J	mg/kg	0.051	0.019	10	02/06/23 15:00	02/07/23 20:19	91-20-3	ED
Phenanthrene	0.079	mg/kg	0.051	0.036	10	02/06/23 15:00	02/07/23 20:19	85-01-8	
Pyrene	0.13	mg/kg	0.051	0.035	10	02/06/23 15:00	02/07/23 20:19	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	55	%	28-116		10	02/06/23 15:00	02/07/23 20:19	321-60-8	
p-Terphenyl-d14 (S)	65	%	27-127		10	02/06/23 15:00	02/07/23 20:19	1718-51-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: SP-12 (0-1') **Lab ID: 50336749026** Collected: 02/01/23 16:00 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: SM 2540G Pace Analytical Services - Indianapolis								
Percent Moisture	5.2	%	0.10	0.10	1		02/08/23 10:26		N2

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: SP-13 (0-2') Lab ID: 50336749027 Collected: 02/01/23 15:25 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Initial Volume/Weight: 1.0247 g Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	0.54J	mg/kg	1.1	0.29	1	02/15/23 09:12	02/16/23 16:24	7440-36-0	
Arsenic	1.7	mg/kg	1.1	0.18	1	02/15/23 09:12	02/16/23 16:24	7440-38-2	
Barium	43.1	mg/kg	1.1	0.20	1	02/15/23 09:12	02/16/23 16:24	7440-39-3	
Beryllium	<0.11	mg/kg	0.54	0.11	1	02/15/23 09:12	02/16/23 16:24	7440-41-7	
Cadmium	0.31J	mg/kg	0.54	0.025	1	02/15/23 09:12	02/16/23 16:24	7440-43-9	
Chromium	5.2	mg/kg	1.1	1.0	1	02/15/23 09:12	02/16/23 16:24	7440-47-3	
Copper	2.7	mg/kg	1.1	0.26	1	02/15/23 09:12	02/16/23 16:24	7440-50-8	
Lead	5.4	mg/kg	1.1	0.50	1	02/15/23 09:12	02/16/23 16:24	7439-92-1	
Nickel	6.0	mg/kg	1.1	0.14	1	02/15/23 09:12	02/16/23 16:24	7440-02-0	
Selenium	<0.30	mg/kg	1.1	0.30	1	02/15/23 09:12	02/16/23 16:24	7782-49-2	
Silver	<0.14	mg/kg	0.54	0.14	1	02/15/23 09:12	02/16/23 16:24	7440-22-4	
Thallium	<0.22	mg/kg	1.1	0.22	1	02/15/23 09:12	02/17/23 13:17	7440-28-0	
Zinc	17.8	mg/kg	1.1	0.94	1	02/15/23 09:12	02/16/23 16:24	7440-66-6	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Initial Volume/Weight: 0.312 g Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Mercury	<0.025	mg/kg	0.21	0.025	1	02/14/23 20:16	02/15/23 10:13	7439-97-6	
8270 PAH Soil by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Initial Volume/Weight: 15.8 g Final Volume/Weight: 1 mL									
Pace Analytical Services - Indianapolis									
Acenaphthene	<0.021	mg/kg	0.053	0.021	10	02/06/23 15:00	02/07/23 20:34	83-32-9	
Acenaphthylene	<0.020	mg/kg	0.053	0.020	10	02/06/23 15:00	02/07/23 20:34	208-96-8	
Anthracene	0.056	mg/kg	0.053	0.026	10	02/06/23 15:00	02/07/23 20:34	120-12-7	
Benzo(a)anthracene	0.14	mg/kg	0.053	0.032	10	02/06/23 15:00	02/07/23 20:34	56-55-3	
Benzo(a)pyrene	0.15	mg/kg	0.053	0.031	10	02/06/23 15:00	02/07/23 20:34	50-32-8	
Benzo(b)fluoranthene	0.24	mg/kg	0.053	0.029	10	02/06/23 15:00	02/07/23 20:34	205-99-2	
Benzo(g,h,i)perylene	0.10	mg/kg	0.053	0.031	10	02/06/23 15:00	02/07/23 20:34	191-24-2	
Benzo(k)fluoranthene	0.077	mg/kg	0.053	0.024	10	02/06/23 15:00	02/07/23 20:34	207-08-9	
Chrysene	0.20	mg/kg	0.053	0.036	10	02/06/23 15:00	02/07/23 20:34	218-01-9	
Dibenz(a,h)anthracene	<0.026	mg/kg	0.053	0.026	10	02/06/23 15:00	02/07/23 20:34	53-70-3	
Fluoranthene	0.47	mg/kg	0.053	0.037	10	02/06/23 15:00	02/07/23 20:34	206-44-0	
Fluorene	0.039J	mg/kg	0.053	0.021	10	02/06/23 15:00	02/07/23 20:34	86-73-7	
Indeno(1,2,3-cd)pyrene	0.093	mg/kg	0.053	0.027	10	02/06/23 15:00	02/07/23 20:34	193-39-5	
1-Methylnaphthalene	<0.021	mg/kg	0.053	0.021	10	02/06/23 15:00	02/07/23 20:34	90-12-0	
2-Methylnaphthalene	<0.020	mg/kg	0.053	0.020	10	02/06/23 15:00	02/07/23 20:34	91-57-6	
Naphthalene	<0.020	mg/kg	0.053	0.020	10	02/06/23 15:00	02/07/23 20:34	91-20-3	ED
Phenanthrene	0.34	mg/kg	0.053	0.038	10	02/06/23 15:00	02/07/23 20:34	85-01-8	
Pyrene	0.41	mg/kg	0.053	0.036	10	02/06/23 15:00	02/07/23 20:34	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	74	%	28-116		10	02/06/23 15:00	02/07/23 20:34	321-60-8	
p-Terphenyl-d14 (S)	84	%	27-127		10	02/06/23 15:00	02/07/23 20:34	1718-51-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: SP-13 (0-2') **Lab ID: 50336749027** Collected: 02/01/23 15:25 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: SM 2540G Pace Analytical Services - Indianapolis								
Percent Moisture	10.2	%	0.10	0.10	1		02/08/23 10:27		N2

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: SP-13 (2-3') **Lab ID: 50336749028** Collected: 02/01/23 15:25 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Initial Volume/Weight: 1.0541 g Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	<0.30	mg/kg	1.2	0.30	1	02/15/23 09:12	02/16/23 16:27	7440-36-0	
Arsenic	9.3	mg/kg	1.2	0.19	1	02/15/23 09:12	02/16/23 16:27	7440-38-2	
Barium	143	mg/kg	1.2	0.22	1	02/15/23 09:12	02/16/23 16:27	7440-39-3	
Beryllium	0.86	mg/kg	0.58	0.12	1	02/15/23 09:12	02/16/23 16:27	7440-41-7	
Cadmium	0.41J	mg/kg	0.58	0.026	1	02/15/23 09:12	02/16/23 16:27	7440-43-9	
Chromium	14.9	mg/kg	1.2	1.1	1	02/15/23 09:12	02/16/23 16:27	7440-47-3	
Copper	18.4	mg/kg	1.2	0.27	1	02/15/23 09:12	02/16/23 16:27	7440-50-8	
Lead	41.7	mg/kg	1.2	0.53	1	02/15/23 09:12	02/16/23 16:27	7439-92-1	
Nickel	15.1	mg/kg	1.2	0.15	1	02/15/23 09:12	02/16/23 16:27	7440-02-0	
Selenium	0.77J	mg/kg	1.2	0.32	1	02/15/23 09:12	02/16/23 16:27	7782-49-2	
Silver	0.50J	mg/kg	0.58	0.14	1	02/15/23 09:12	02/16/23 16:27	7440-22-4	
Thallium	<1.1	mg/kg	5.8	1.1	5	02/15/23 09:12	02/17/23 08:55	7440-28-0	D3
Zinc	90.5	mg/kg	1.2	0.99	1	02/15/23 09:12	02/16/23 16:27	7440-66-6	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Initial Volume/Weight: 0.283 g Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Mercury	0.18J	mg/kg	0.26	0.030	1	02/14/23 20:16	02/15/23 10:15	7439-97-6	
8270 PAH Soil by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Initial Volume/Weight: 15.8 g Final Volume/Weight: 1 mL									
Pace Analytical Services - Indianapolis									
Acenaphthene	0.017	mg/kg	0.0058	0.0023	1	02/06/23 15:00	02/07/23 20:48	83-32-9	
Acenaphthylene	0.024	mg/kg	0.0058	0.0022	1	02/06/23 15:00	02/07/23 20:48	208-96-8	
Anthracene	0.056	mg/kg	0.0058	0.0029	1	02/06/23 15:00	02/07/23 20:48	120-12-7	
Benzo(a)anthracene	0.22	mg/kg	0.0058	0.0035	1	02/06/23 15:00	02/07/23 20:48	56-55-3	
Benzo(a)pyrene	0.24	mg/kg	0.0058	0.0034	1	02/06/23 15:00	02/07/23 20:48	50-32-8	
Benzo(b)fluoranthene	0.40	mg/kg	0.0058	0.0032	1	02/06/23 15:00	02/07/23 20:48	205-99-2	
Benzo(g,h,i)perylene	0.12	mg/kg	0.0058	0.0034	1	02/06/23 15:00	02/07/23 20:48	191-24-2	
Benzo(k)fluoranthene	0.15	mg/kg	0.0058	0.0027	1	02/06/23 15:00	02/07/23 20:48	207-08-9	
Chrysene	0.29	mg/kg	0.0058	0.0040	1	02/06/23 15:00	02/07/23 20:48	218-01-9	
Dibenz(a,h)anthracene	0.037	mg/kg	0.0058	0.0028	1	02/06/23 15:00	02/07/23 20:48	53-70-3	
Fluoranthene	0.44	mg/kg	0.0058	0.0040	1	02/06/23 15:00	02/07/23 20:48	206-44-0	
Fluorene	0.022	mg/kg	0.0058	0.0023	1	02/06/23 15:00	02/07/23 20:48	86-73-7	
Indeno(1,2,3-cd)pyrene	0.13	mg/kg	0.0058	0.0029	1	02/06/23 15:00	02/07/23 20:48	193-39-5	
1-Methylnaphthalene	0.032	mg/kg	0.0058	0.0023	1	02/06/23 15:00	02/07/23 20:48	90-12-0	
2-Methylnaphthalene	0.038	mg/kg	0.0058	0.0022	1	02/06/23 15:00	02/07/23 20:48	91-57-6	
Naphthalene	0.043	mg/kg	0.0058	0.0021	1	02/06/23 15:00	02/07/23 20:48	91-20-3	
Phenanthrene	0.26	mg/kg	0.0058	0.0041	1	02/06/23 15:00	02/07/23 20:48	85-01-8	
Pyrene	0.44	mg/kg	0.0058	0.0039	1	02/06/23 15:00	02/07/23 20:48	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	52	%	28-116		1	02/06/23 15:00	02/07/23 20:48	321-60-8	
p-Terphenyl-d14 (S)	53	%	27-127		1	02/06/23 15:00	02/07/23 20:48	1718-51-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: SP-13 (2-3') **Lab ID: 50336749028** Collected: 02/01/23 15:25 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: SM 2540G Pace Analytical Services - Indianapolis								
Percent Moisture	17.5	%	0.10	0.10	1		02/08/23 10:27		N2

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: TB-1 Lab ID: 50336749029 Collected: 02/01/23 08:00 Received: 02/03/23 15:15 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA									
Analytical Method: EPA 8260									
Initial Volume/Weight: 5 g Final Volume/Weight: 5 mL									
Pace Analytical Services - Indianapolis									
Acetone	<0.0039	mg/kg	0.10	0.0039	1		02/08/23 08:19	67-64-1	
Acrolein	<0.0027	mg/kg	0.10	0.0027	1		02/08/23 08:19	107-02-8	
Acrylonitrile	<0.0010	mg/kg	0.10	0.0010	1		02/08/23 08:19	107-13-1	
Benzene	<0.00034	mg/kg	0.0050	0.00034	1		02/08/23 08:19	71-43-2	
Bromobenzene	<0.00033	mg/kg	0.0050	0.00033	1		02/08/23 08:19	108-86-1	
Bromochloromethane	<0.00018	mg/kg	0.0050	0.00018	1		02/08/23 08:19	74-97-5	
Bromodichloromethane	<0.00021	mg/kg	0.0050	0.00021	1		02/08/23 08:19	75-27-4	
Bromoform	<0.00014	mg/kg	0.0050	0.00014	1		02/08/23 08:19	75-25-2	
Bromomethane	<0.00027	mg/kg	0.0050	0.00027	1		02/08/23 08:19	74-83-9	
2-Butanone (MEK)	<0.00069	mg/kg	0.025	0.00069	1		02/08/23 08:19	78-93-3	
n-Butylbenzene	<0.00042	mg/kg	0.0050	0.00042	1		02/08/23 08:19	104-51-8	
sec-Butylbenzene	<0.00044	mg/kg	0.0050	0.00044	1		02/08/23 08:19	135-98-8	
tert-Butylbenzene	<0.00045	mg/kg	0.0050	0.00045	1		02/08/23 08:19	98-06-6	
Carbon disulfide	<0.00035	mg/kg	0.010	0.00035	1		02/08/23 08:19	75-15-0	
Carbon tetrachloride	<0.00030	mg/kg	0.0050	0.00030	1		02/08/23 08:19	56-23-5	
Chlorobenzene	<0.00034	mg/kg	0.0050	0.00034	1		02/08/23 08:19	108-90-7	
Chloroethane	<0.00016	mg/kg	0.0050	0.00016	1		02/08/23 08:19	75-00-3	
Chloroform	<0.00061	mg/kg	0.0050	0.00061	1		02/08/23 08:19	67-66-3	
Chloromethane	<0.00017	mg/kg	0.0050	0.00017	1		02/08/23 08:19	74-87-3	
2-Chlorotoluene	<0.00039	mg/kg	0.0050	0.00039	1		02/08/23 08:19	95-49-8	
4-Chlorotoluene	<0.00039	mg/kg	0.0050	0.00039	1		02/08/23 08:19	106-43-4	
Dibromochloromethane	<0.00020	mg/kg	0.0050	0.00020	1		02/08/23 08:19	124-48-1	
1,2-Dibromoethane (EDB)	<0.00023	mg/kg	0.0050	0.00023	1		02/08/23 08:19	106-93-4	
Dibromomethane	<0.00018	mg/kg	0.0050	0.00018	1		02/08/23 08:19	74-95-3	
1,2-Dichlorobenzene	<0.00033	mg/kg	0.0050	0.00033	1		02/08/23 08:19	95-50-1	
1,3-Dichlorobenzene	<0.00041	mg/kg	0.0050	0.00041	1		02/08/23 08:19	541-73-1	
1,4-Dichlorobenzene	<0.00038	mg/kg	0.0050	0.00038	1		02/08/23 08:19	106-46-7	
trans-1,4-Dichloro-2-butene	<0.00034	mg/kg	0.10	0.00034	1		02/08/23 08:19	110-57-6	
Dichlorodifluoromethane	<0.00026	mg/kg	0.0050	0.00026	1		02/08/23 08:19	75-71-8	
1,1-Dichloroethane	<0.00031	mg/kg	0.0050	0.00031	1		02/08/23 08:19	75-34-3	
1,2-Dichloroethane	<0.00026	mg/kg	0.0050	0.00026	1		02/08/23 08:19	107-06-2	
1,1-Dichloroethene	<0.00027	mg/kg	0.0050	0.00027	1		02/08/23 08:19	75-35-4	
cis-1,2-Dichloroethene	<0.00031	mg/kg	0.0050	0.00031	1		02/08/23 08:19	156-59-2	
trans-1,2-Dichloroethene	<0.00044	mg/kg	0.0050	0.00044	1		02/08/23 08:19	156-60-5	
1,2-Dichloropropane	<0.00029	mg/kg	0.0050	0.00029	1		02/08/23 08:19	78-87-5	
1,3-Dichloropropane	<0.00018	mg/kg	0.0050	0.00018	1		02/08/23 08:19	142-28-9	
2,2-Dichloropropane	<0.00039	mg/kg	0.0050	0.00039	1		02/08/23 08:19	594-20-7	
1,1-Dichloropropene	<0.00041	mg/kg	0.0050	0.00041	1		02/08/23 08:19	563-58-6	
cis-1,3-Dichloropropene	<0.00021	mg/kg	0.0050	0.00021	1		02/08/23 08:19	10061-01-5	
trans-1,3-Dichloropropene	<0.00022	mg/kg	0.0050	0.00022	1		02/08/23 08:19	10061-02-6	
Ethylbenzene	<0.00041	mg/kg	0.0050	0.00041	1		02/08/23 08:19	100-41-4	
Ethyl methacrylate	<0.00018	mg/kg	0.10	0.00018	1		02/08/23 08:19	97-63-2	
Hexachloro-1,3-butadiene	<0.00044	mg/kg	0.0050	0.00044	1		02/08/23 08:19	87-68-3	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: TB-1 Lab ID: 50336749029 Collected: 02/01/23 08:00 Received: 02/03/23 15:15 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA									
Analytical Method: EPA 8260									
Initial Volume/Weight: 5 g Final Volume/Weight: 5 mL									
Pace Analytical Services - Indianapolis									
n-Hexane	<0.00022	mg/kg	0.0050	0.00022	1		02/08/23 08:19	110-54-3	
2-Hexanone	<0.0010	mg/kg	0.10	0.0010	1		02/08/23 08:19	591-78-6	
Iodomethane	<0.00028	mg/kg	0.10	0.00028	1		02/08/23 08:19	74-88-4	
Isopropylbenzene (Cumene)	<0.00042	mg/kg	0.0050	0.00042	1		02/08/23 08:19	98-82-8	
p-Isopropyltoluene	<0.00046	mg/kg	0.0050	0.00046	1		02/08/23 08:19	99-87-6	
Methylene Chloride	0.0021J	mg/kg	0.020	0.00048	1		02/08/23 08:19	75-09-2	B
1-Methylnaphthalene	0.0020J	mg/kg	0.010	0.00025	1		02/08/23 08:19	90-12-0	B
2-Methylnaphthalene	0.0019J	mg/kg	0.010	0.00030	1		02/08/23 08:19	91-57-6	B
4-Methyl-2-pentanone (MIBK)	<0.00094	mg/kg	0.025	0.00094	1		02/08/23 08:19	108-10-1	
Methyl-tert-butyl ether	<0.00019	mg/kg	0.0050	0.00019	1		02/08/23 08:19	1634-04-4	
Naphthalene	<0.00076	mg/kg	0.0050	0.00076	1		02/08/23 08:19	91-20-3	
n-Propylbenzene	<0.00042	mg/kg	0.0050	0.00042	1		02/08/23 08:19	103-65-1	
Styrene	<0.00036	mg/kg	0.0050	0.00036	1		02/08/23 08:19	100-42-5	
1,1,1,2-Tetrachloroethane	<0.00024	mg/kg	0.0050	0.00024	1		02/08/23 08:19	630-20-6	
1,1,2,2-Tetrachloroethane	<0.00025	mg/kg	0.0050	0.00025	1		02/08/23 08:19	79-34-5	
Tetrachloroethene	<0.00040	mg/kg	0.0050	0.00040	1		02/08/23 08:19	127-18-4	
Toluene	0.0013J	mg/kg	0.0050	0.00066	1		02/08/23 08:19	108-88-3	
1,2,3-Trichlorobenzene	<0.00035	mg/kg	0.0050	0.00035	1		02/08/23 08:19	87-61-6	
1,2,4-Trichlorobenzene	<0.00042	mg/kg	0.0050	0.00042	1		02/08/23 08:19	120-82-1	
1,1,1-Trichloroethane	<0.00036	mg/kg	0.0050	0.00036	1		02/08/23 08:19	71-55-6	
1,1,2-Trichloroethane	<0.00021	mg/kg	0.0050	0.00021	1		02/08/23 08:19	79-00-5	
Trichloroethene	<0.00037	mg/kg	0.0050	0.00037	1		02/08/23 08:19	79-01-6	
Trichlorofluoromethane	<0.00017	mg/kg	0.0050	0.00017	1		02/08/23 08:19	75-69-4	
1,2,3-Trichloropropane	<0.00026	mg/kg	0.0050	0.00026	1		02/08/23 08:19	96-18-4	
1,2,4-Trimethylbenzene	<0.00043	mg/kg	0.0050	0.00043	1		02/08/23 08:19	95-63-6	
1,3,5-Trimethylbenzene	<0.00039	mg/kg	0.0050	0.00039	1		02/08/23 08:19	108-67-8	
Vinyl acetate	<0.00048	mg/kg	0.10	0.00048	1		02/08/23 08:19	108-05-4	
Vinyl chloride	<0.00017	mg/kg	0.0050	0.00017	1		02/08/23 08:19	75-01-4	
Xylene (Total)	<0.00042	mg/kg	0.010	0.00042	1		02/08/23 08:19	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	102	%	62-146		1		02/08/23 08:19	1868-53-7	
Toluene-d8 (S)	98	%	68-143		1		02/08/23 08:19	2037-26-5	
4-Bromofluorobenzene (S)	103	%	63-129		1		02/08/23 08:19	460-00-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: SP-3 (25') Lab ID: 50336749030 Collected: 02/01/23 14:40 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA									
Analytical Method: EPA 8260									
Initial Volume/Weight: 6.047 g Final Volume/Weight: 5 mL									
Pace Analytical Services - Indianapolis									
Acetone	0.0087J	mg/kg	0.11	0.0042	1		02/08/23 08:50	67-64-1	
Acrolein	<0.0029	mg/kg	0.11	0.0029	1		02/08/23 08:50	107-02-8	
Acrylonitrile	<0.0011	mg/kg	0.11	0.0011	1		02/08/23 08:50	107-13-1	
Benzene	<0.00036	mg/kg	0.0054	0.00036	1		02/08/23 08:50	71-43-2	
Bromobenzene	<0.00036	mg/kg	0.0054	0.00036	1		02/08/23 08:50	108-86-1	
Bromochloromethane	<0.00019	mg/kg	0.0054	0.00019	1		02/08/23 08:50	74-97-5	
Bromodichloromethane	<0.00023	mg/kg	0.0054	0.00023	1		02/08/23 08:50	75-27-4	
Bromoform	<0.00016	mg/kg	0.0054	0.00016	1		02/08/23 08:50	75-25-2	
Bromomethane	<0.00029	mg/kg	0.0054	0.00029	1		02/08/23 08:50	74-83-9	
2-Butanone (MEK)	<0.00074	mg/kg	0.027	0.00074	1		02/08/23 08:50	78-93-3	
n-Butylbenzene	<0.00045	mg/kg	0.0054	0.00045	1		02/08/23 08:50	104-51-8	
sec-Butylbenzene	<0.00047	mg/kg	0.0054	0.00047	1		02/08/23 08:50	135-98-8	
tert-Butylbenzene	<0.00049	mg/kg	0.0054	0.00049	1		02/08/23 08:50	98-06-6	
Carbon disulfide	<0.00038	mg/kg	0.011	0.00038	1		02/08/23 08:50	75-15-0	
Carbon tetrachloride	<0.00032	mg/kg	0.0054	0.00032	1		02/08/23 08:50	56-23-5	
Chlorobenzene	<0.00037	mg/kg	0.0054	0.00037	1		02/08/23 08:50	108-90-7	
Chloroethane	<0.00018	mg/kg	0.0054	0.00018	1		02/08/23 08:50	75-00-3	
Chloroform	0.0063	mg/kg	0.0054	0.00065	1		02/08/23 08:50	67-66-3	
Chloromethane	<0.00018	mg/kg	0.0054	0.00018	1		02/08/23 08:50	74-87-3	
2-Chlorotoluene	<0.00042	mg/kg	0.0054	0.00042	1		02/08/23 08:50	95-49-8	
4-Chlorotoluene	<0.00042	mg/kg	0.0054	0.00042	1		02/08/23 08:50	106-43-4	
Dibromochloromethane	<0.00021	mg/kg	0.0054	0.00021	1		02/08/23 08:50	124-48-1	
1,2-Dibromoethane (EDB)	<0.00024	mg/kg	0.0054	0.00024	1		02/08/23 08:50	106-93-4	
Dibromomethane	<0.00019	mg/kg	0.0054	0.00019	1		02/08/23 08:50	74-95-3	
1,2-Dichlorobenzene	<0.00036	mg/kg	0.0054	0.00036	1		02/08/23 08:50	95-50-1	
1,3-Dichlorobenzene	<0.00044	mg/kg	0.0054	0.00044	1		02/08/23 08:50	541-73-1	
1,4-Dichlorobenzene	<0.00041	mg/kg	0.0054	0.00041	1		02/08/23 08:50	106-46-7	
trans-1,4-Dichloro-2-butene	<0.00036	mg/kg	0.11	0.00036	1		02/08/23 08:50	110-57-6	
Dichlorodifluoromethane	<0.00028	mg/kg	0.0054	0.00028	1		02/08/23 08:50	75-71-8	
1,1-Dichloroethane	<0.00033	mg/kg	0.0054	0.00033	1		02/08/23 08:50	75-34-3	
1,2-Dichloroethane	<0.00028	mg/kg	0.0054	0.00028	1		02/08/23 08:50	107-06-2	
1,1-Dichloroethene	<0.00029	mg/kg	0.0054	0.00029	1		02/08/23 08:50	75-35-4	
cis-1,2-Dichloroethene	<0.00033	mg/kg	0.0054	0.00033	1		02/08/23 08:50	156-59-2	
trans-1,2-Dichloroethene	<0.00047	mg/kg	0.0054	0.00047	1		02/08/23 08:50	156-60-5	
1,2-Dichloropropane	<0.00032	mg/kg	0.0054	0.00032	1		02/08/23 08:50	78-87-5	
1,3-Dichloropropane	<0.00019	mg/kg	0.0054	0.00019	1		02/08/23 08:50	142-28-9	
2,2-Dichloropropane	<0.00042	mg/kg	0.0054	0.00042	1		02/08/23 08:50	594-20-7	
1,1-Dichloropropene	<0.00044	mg/kg	0.0054	0.00044	1		02/08/23 08:50	563-58-6	
cis-1,3-Dichloropropene	<0.00022	mg/kg	0.0054	0.00022	1		02/08/23 08:50	10061-01-5	
trans-1,3-Dichloropropene	<0.00023	mg/kg	0.0054	0.00023	1		02/08/23 08:50	10061-02-6	
Ethylbenzene	<0.00044	mg/kg	0.0054	0.00044	1		02/08/23 08:50	100-41-4	
Ethyl methacrylate	<0.00020	mg/kg	0.11	0.00020	1		02/08/23 08:50	97-63-2	
Hexachloro-1,3-butadiene	<0.00047	mg/kg	0.0054	0.00047	1		02/08/23 08:50	87-68-3	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Hospital #22-286

Pace Project No.: 50336749

Sample: SP-3 (25') Lab ID: 50336749030 Collected: 02/01/23 14:40 Received: 02/03/23 15:15 Matrix: Solid

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

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA									
Analytical Method: EPA 8260									
Initial Volume/Weight: 6.047 g Final Volume/Weight: 5 mL									
Pace Analytical Services - Indianapolis									
n-Hexane	<0.00023	mg/kg	0.0054	0.00023	1		02/08/23 08:50	110-54-3	
2-Hexanone	<0.0011	mg/kg	0.11	0.0011	1		02/08/23 08:50	591-78-6	
Iodomethane	<0.00030	mg/kg	0.11	0.00030	1		02/08/23 08:50	74-88-4	
Isopropylbenzene (Cumene)	<0.00045	mg/kg	0.0054	0.00045	1		02/08/23 08:50	98-82-8	
p-Isopropyltoluene	<0.00050	mg/kg	0.0054	0.00050	1		02/08/23 08:50	99-87-6	
Methylene Chloride	0.0018J	mg/kg	0.021	0.00052	1		02/08/23 08:50	75-09-2	B
1-Methylnaphthalene	0.00038J	mg/kg	0.011	0.00026	1		02/08/23 08:50	90-12-0	B
2-Methylnaphthalene	0.00047J	mg/kg	0.011	0.00032	1		02/08/23 08:50	91-57-6	B
4-Methyl-2-pentanone (MIBK)	<0.0010	mg/kg	0.027	0.0010	1		02/08/23 08:50	108-10-1	
Methyl-tert-butyl ether	<0.00021	mg/kg	0.0054	0.00021	1		02/08/23 08:50	1634-04-4	
Naphthalene	<0.00081	mg/kg	0.0054	0.00081	1		02/08/23 08:50	91-20-3	
n-Propylbenzene	<0.00046	mg/kg	0.0054	0.00046	1		02/08/23 08:50	103-65-1	
Styrene	<0.00038	mg/kg	0.0054	0.00038	1		02/08/23 08:50	100-42-5	
1,1,1,2-Tetrachloroethane	<0.00026	mg/kg	0.0054	0.00026	1		02/08/23 08:50	630-20-6	
1,1,2,2-Tetrachloroethane	<0.00027	mg/kg	0.0054	0.00027	1		02/08/23 08:50	79-34-5	
Tetrachloroethene	<0.00043	mg/kg	0.0054	0.00043	1		02/08/23 08:50	127-18-4	
Toluene	0.0014J	mg/kg	0.0054	0.00071	1		02/08/23 08:50	108-88-3	
1,2,3-Trichlorobenzene	<0.00037	mg/kg	0.0054	0.00037	1		02/08/23 08:50	87-61-6	
1,2,4-Trichlorobenzene	<0.00044	mg/kg	0.0054	0.00044	1		02/08/23 08:50	120-82-1	
1,1,1-Trichloroethane	<0.00038	mg/kg	0.0054	0.00038	1		02/08/23 08:50	71-55-6	
1,1,2-Trichloroethane	<0.00022	mg/kg	0.0054	0.00022	1		02/08/23 08:50	79-00-5	
Trichloroethene	<0.00040	mg/kg	0.0054	0.00040	1		02/08/23 08:50	79-01-6	
Trichlorofluoromethane	<0.00018	mg/kg	0.0054	0.00018	1		02/08/23 08:50	75-69-4	
1,2,3-Trichloropropane	<0.00028	mg/kg	0.0054	0.00028	1		02/08/23 08:50	96-18-4	
1,2,4-Trimethylbenzene	<0.00046	mg/kg	0.0054	0.00046	1		02/08/23 08:50	95-63-6	
1,3,5-Trimethylbenzene	<0.00042	mg/kg	0.0054	0.00042	1		02/08/23 08:50	108-67-8	
Vinyl acetate	<0.00051	mg/kg	0.11	0.00051	1		02/08/23 08:50	108-05-4	
Vinyl chloride	<0.00018	mg/kg	0.0054	0.00018	1		02/08/23 08:50	75-01-4	
Xylene (Total)	<0.00045	mg/kg	0.011	0.00045	1		02/08/23 08:50	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	103	%	62-146		1		02/08/23 08:50	1868-53-7	
Toluene-d8 (S)	97	%	68-143		1		02/08/23 08:50	2037-26-5	
4-Bromofluorobenzene (S)	101	%	63-129		1		02/08/23 08:50	460-00-4	

Percent Moisture

Analytical Method: SM 2540G

Pace Analytical Services - Indianapolis

Percent Moisture	22.9	%	0.10	0.10	1		02/08/23 10:27		N2
------------------	------	---	------	------	---	--	----------------	--	----

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Hospital #22-286
Pace Project No.: 50336749

QC Batch: 718268 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50336749001, 50336749002, 50336749003, 50336749004, 50336749005, 50336749006, 50336749007, 50336749008, 50336749009, 50336749010

METHOD BLANK: 3297241 Matrix: Solid
Associated Lab Samples: 50336749001, 50336749002, 50336749003, 50336749004, 50336749005, 50336749006, 50336749007, 50336749008, 50336749009, 50336749010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/kg	<0.023	0.20	0.023	02/15/23 08:47	

LABORATORY CONTROL SAMPLE: 3297242

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.5	0.46	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3297243 3297244

Parameter	Units	50336749010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	<0.025	0.52	0.51	0.49	0.48	93	92	75-125	3	20	

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Hospital #22-286

Pace Project No.: 50336749

QC Batch:	718270	Analysis Method:	EPA 7471
QC Batch Method:	EPA 7471	Analysis Description:	7471 Mercury
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50336749011, 50336749012, 50336749022, 50336749024, 50336749025, 50336749026, 50336749027, 50336749028

METHOD BLANK: 3297256 Matrix: Solid
Associated Lab Samples: 50336749011, 50336749012, 50336749022, 50336749024, 50336749025, 50336749026, 50336749027, 50336749028

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/kg	<0.023	0.20	0.023	02/15/23 09:43	

LABORATORY CONTROL SAMPLE: 3297257

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.5	0.48	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3297258 3297259

Parameter	Units	50336749011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.070J	0.57	0.6	0.60	0.63	93	93	75-125	4	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3297260 3297261

Parameter	Units	50337103013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.035J	0.59	0.55	0.58	0.57	93	96	75-125	3	20	

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Hospital #22-286
Pace Project No.: 50336749

QC Batch: 718517 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
 Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50336749001, 50336749002, 50336749003, 50336749004, 50336749005, 50336749006, 50336749007, 50336749008, 50336749009, 50336749010, 50336749011, 50336749012, 50336749022, 50336749024, 50336749025, 50336749026, 50336749027, 50336749028

METHOD BLANK: 3298611 Matrix: Solid
Associated Lab Samples: 50336749001, 50336749002, 50336749003, 50336749004, 50336749005, 50336749006, 50336749007, 50336749008, 50336749009, 50336749010, 50336749011, 50336749012, 50336749022, 50336749024, 50336749025, 50336749026, 50336749027, 50336749028

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/kg	<0.26	1.0	0.26	02/16/23 14:29	
Arsenic	mg/kg	<0.17	1.0	0.17	02/16/23 14:29	
Barium	mg/kg	<0.19	1.0	0.19	02/16/23 14:29	
Beryllium	mg/kg	<0.10	0.50	0.10	02/16/23 14:29	
Cadmium	mg/kg	<0.023	0.50	0.023	02/16/23 14:29	
Chromium	mg/kg	<0.95	1.0	0.95	02/16/23 14:29	
Copper	mg/kg	<0.24	1.0	0.24	02/16/23 14:29	
Lead	mg/kg	<0.46	1.0	0.46	02/16/23 14:29	
Nickel	mg/kg	<0.13	1.0	0.13	02/16/23 14:29	
Selenium	mg/kg	<0.28	1.0	0.28	02/16/23 14:29	
Silver	mg/kg	<0.13	0.50	0.13	02/16/23 14:29	
Thallium	mg/kg	<0.20	1.0	0.20	02/16/23 14:29	
Zinc	mg/kg	<0.86	1.0	0.86	02/16/23 14:29	

LABORATORY CONTROL SAMPLE: 3298612

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/kg	50	51.8	104	80-120	
Arsenic	mg/kg	50	51.9	104	80-120	
Barium	mg/kg	50	50.8	102	80-120	
Beryllium	mg/kg	50	52.1	104	80-120	
Cadmium	mg/kg	50	51.2	102	80-120	
Chromium	mg/kg	50	51.4	103	80-120	
Copper	mg/kg	50	50.6	101	80-120	
Lead	mg/kg	50	49.9	100	80-120	
Nickel	mg/kg	50	51.4	103	80-120	
Selenium	mg/kg	50	52.5	105	80-120	
Silver	mg/kg	25	25.9	103	80-120	
Thallium	mg/kg	50	49.5	99	80-120	
Zinc	mg/kg	50	49.8	100	80-120	

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Hospital #22-286

Pace Project No.: 50336749

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3298613 3298614													
Parameter	Units	50336749011		MS	MSD	MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec	% Rec					
Antimony	mg/kg	0.41J	54.8	55.1	23.2	26.6	42	47	75-125	13	20	M3	
Arsenic	mg/kg	4.7	54.8	55.1	64.5	62.6	109	105	75-125	3	20		
Barium	mg/kg	95.3	54.8	55.1	130	123	64	51	75-125	6	20	M3	
Beryllium	mg/kg	<0.11	54.8	55.1	54.7	53.5	100	97	75-125	2	20		
Cadmium	mg/kg	0.43J	54.8	55.1	55.8	56.7	101	102	75-125	2	20		
Chromium	mg/kg	15.5	54.8	55.1	72.7	75.6	104	109	75-125	4	20		
Copper	mg/kg	5.2	54.8	55.1	62.6	61.9	105	103	75-125	1	20		
Lead	mg/kg	10.8	54.8	55.1	83.1	68.7	132	105	75-125	19	20	M0	
Nickel	mg/kg	12.9	54.8	55.1	59.8	57.6	85	81	75-125	4	20		
Selenium	mg/kg	0.38J	54.8	55.1	55.3	56.5	100	102	75-125	2	20		
Silver	mg/kg	<0.14	27.3	27.6	29.7	30.1	108	109	75-125	1	20		
Thallium	mg/kg	<0.22	54.8	55.1	40.1	39.7	73	72	75-125	1	20	M3	
Zinc	mg/kg	34.3	54.8	55.1	99.0	86.8	118	95	75-125	13	20		

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Hospital #22-286

Pace Project No.: 50336749

QC Batch: 717632

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV 5035A Volatile Organics

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50336749013, 50336749014, 50336749015, 50336749016, 50336749017, 50336749018, 50336749019, 50336749020, 50336749023

METHOD BLANK: 3294388

Matrix: Solid

Associated Lab Samples: 50336749013, 50336749014, 50336749015, 50336749016, 50336749017, 50336749018, 50336749019, 50336749020, 50336749023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	<0.00024	0.0050	0.00024	02/07/23 00:50	
1,1,1-Trichloroethane	mg/kg	<0.00036	0.0050	0.00036	02/07/23 00:50	
1,1,2,2-Tetrachloroethane	mg/kg	<0.00025	0.0050	0.00025	02/07/23 00:50	
1,1,2-Trichloroethane	mg/kg	<0.00021	0.0050	0.00021	02/07/23 00:50	
1,1-Dichloroethane	mg/kg	<0.00031	0.0050	0.00031	02/07/23 00:50	
1,1-Dichloroethene	mg/kg	<0.00027	0.0050	0.00027	02/07/23 00:50	
1,1-Dichloropropene	mg/kg	<0.00041	0.0050	0.00041	02/07/23 00:50	
1,2,3-Trichlorobenzene	mg/kg	<0.00035	0.0050	0.00035	02/07/23 00:50	
1,2,3-Trichloropropane	mg/kg	<0.00026	0.0050	0.00026	02/07/23 00:50	
1,2,4-Trichlorobenzene	mg/kg	<0.00042	0.0050	0.00042	02/07/23 00:50	
1,2,4-Trimethylbenzene	mg/kg	<0.00043	0.0050	0.00043	02/07/23 00:50	
1,2-Dibromoethane (EDB)	mg/kg	<0.00023	0.0050	0.00023	02/07/23 00:50	
1,2-Dichlorobenzene	mg/kg	<0.00033	0.0050	0.00033	02/07/23 00:50	
1,2-Dichloroethane	mg/kg	<0.00026	0.0050	0.00026	02/07/23 00:50	
1,2-Dichloropropane	mg/kg	<0.00029	0.0050	0.00029	02/07/23 00:50	
1,3,5-Trimethylbenzene	mg/kg	<0.00039	0.0050	0.00039	02/07/23 00:50	
1,3-Dichlorobenzene	mg/kg	<0.00041	0.0050	0.00041	02/07/23 00:50	
1,3-Dichloropropane	mg/kg	<0.00018	0.0050	0.00018	02/07/23 00:50	
1,4-Dichlorobenzene	mg/kg	<0.00038	0.0050	0.00038	02/07/23 00:50	
1-Methylnaphthalene	mg/kg	0.00068J	0.010	0.00025	02/07/23 00:50	
2,2-Dichloropropane	mg/kg	<0.00039	0.0050	0.00039	02/07/23 00:50	
2-Butanone (MEK)	mg/kg	<0.00069	0.025	0.00069	02/07/23 00:50	
2-Chlorotoluene	mg/kg	<0.00039	0.0050	0.00039	02/07/23 00:50	
2-Hexanone	mg/kg	<0.0010	0.10	0.0010	02/07/23 00:50	
2-Methylnaphthalene	mg/kg	0.00077J	0.010	0.00030	02/07/23 00:50	
4-Chlorotoluene	mg/kg	<0.00039	0.0050	0.00039	02/07/23 00:50	
4-Methyl-2-pentanone (MIBK)	mg/kg	<0.00094	0.025	0.00094	02/07/23 00:50	
Acetone	mg/kg	<0.0039	0.10	0.0039	02/07/23 00:50	
Acrolein	mg/kg	<0.0027	0.10	0.0027	02/07/23 00:50	
Acrylonitrile	mg/kg	<0.0010	0.10	0.0010	02/07/23 00:50	
Benzene	mg/kg	<0.00034	0.0050	0.00034	02/07/23 00:50	
Bromobenzene	mg/kg	<0.00033	0.0050	0.00033	02/07/23 00:50	
Bromochloromethane	mg/kg	<0.00018	0.0050	0.00018	02/07/23 00:50	
Bromodichloromethane	mg/kg	<0.00021	0.0050	0.00021	02/07/23 00:50	
Bromoform	mg/kg	<0.00014	0.0050	0.00014	02/07/23 00:50	
Bromomethane	mg/kg	<0.00027	0.0050	0.00027	02/07/23 00:50	
Carbon disulfide	mg/kg	<0.00035	0.010	0.00035	02/07/23 00:50	
Carbon tetrachloride	mg/kg	<0.00030	0.0050	0.00030	02/07/23 00:50	
Chlorobenzene	mg/kg	<0.00034	0.0050	0.00034	02/07/23 00:50	

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Hospital #22-286

Pace Project No.: 50336749

METHOD BLANK: 3294388

Matrix: Solid

Associated Lab Samples: 50336749013, 50336749014, 50336749015, 50336749016, 50336749017, 50336749018, 50336749019, 50336749020, 50336749023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloroethane	mg/kg	<0.00016	0.0050	0.00016	02/07/23 00:50	
Chloroform	mg/kg	<0.00061	0.0050	0.00061	02/07/23 00:50	
Chloromethane	mg/kg	<0.00017	0.0050	0.00017	02/07/23 00:50	
cis-1,2-Dichloroethene	mg/kg	<0.00031	0.0050	0.00031	02/07/23 00:50	
cis-1,3-Dichloropropene	mg/kg	<0.00021	0.0050	0.00021	02/07/23 00:50	
Dibromochloromethane	mg/kg	<0.00020	0.0050	0.00020	02/07/23 00:50	
Dibromomethane	mg/kg	<0.00018	0.0050	0.00018	02/07/23 00:50	
Dichlorodifluoromethane	mg/kg	<0.00026	0.0050	0.00026	02/07/23 00:50	
Ethyl methacrylate	mg/kg	<0.00018	0.10	0.00018	02/07/23 00:50	
Ethylbenzene	mg/kg	<0.00041	0.0050	0.00041	02/07/23 00:50	
Hexachloro-1,3-butadiene	mg/kg	<0.00044	0.0050	0.00044	02/07/23 00:50	
Iodomethane	mg/kg	<0.00028	0.10	0.00028	02/07/23 00:50	
Isopropylbenzene (Cumene)	mg/kg	<0.00042	0.0050	0.00042	02/07/23 00:50	
Methyl-tert-butyl ether	mg/kg	<0.00019	0.0050	0.00019	02/07/23 00:50	
Methylene Chloride	mg/kg	<0.00048	0.020	0.00048	02/07/23 00:50	
n-Butylbenzene	mg/kg	<0.00042	0.0050	0.00042	02/07/23 00:50	
n-Hexane	mg/kg	<0.00022	0.0050	0.00022	02/07/23 00:50	
n-Propylbenzene	mg/kg	<0.00042	0.0050	0.00042	02/07/23 00:50	
Naphthalene	mg/kg	<0.00076	0.0050	0.00076	02/07/23 00:50	
p-Isopropyltoluene	mg/kg	<0.00046	0.0050	0.00046	02/07/23 00:50	
sec-Butylbenzene	mg/kg	<0.00044	0.0050	0.00044	02/07/23 00:50	
Styrene	mg/kg	<0.00036	0.0050	0.00036	02/07/23 00:50	
tert-Butylbenzene	mg/kg	<0.00045	0.0050	0.00045	02/07/23 00:50	
Tetrachloroethene	mg/kg	<0.00040	0.0050	0.00040	02/07/23 00:50	
Toluene	mg/kg	<0.00066	0.0050	0.00066	02/07/23 00:50	
trans-1,2-Dichloroethene	mg/kg	<0.00044	0.0050	0.00044	02/07/23 00:50	
trans-1,3-Dichloropropene	mg/kg	<0.00022	0.0050	0.00022	02/07/23 00:50	
trans-1,4-Dichloro-2-butene	mg/kg	<0.00034	0.10	0.00034	02/07/23 00:50	
Trichloroethene	mg/kg	<0.00037	0.0050	0.00037	02/07/23 00:50	
Trichlorofluoromethane	mg/kg	<0.00017	0.0050	0.00017	02/07/23 00:50	
Vinyl acetate	mg/kg	<0.00048	0.10	0.00048	02/07/23 00:50	
Vinyl chloride	mg/kg	<0.00017	0.0050	0.00017	02/07/23 00:50	
Xylene (Total)	mg/kg	<0.00042	0.010	0.00042	02/07/23 00:50	
4-Bromofluorobenzene (S)	%	98	63-129		02/07/23 00:50	
Dibromofluoromethane (S)	%	104	62-146		02/07/23 00:50	1d
Toluene-d8 (S)	%	101	68-143		02/07/23 00:50	

LABORATORY CONTROL SAMPLE: 3294389

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/kg	0.05	0.040	79	60-122	
1,1,2,2-Tetrachloroethane	mg/kg	0.05	0.041	82	60-129	
1,1-Dichloroethene	mg/kg	0.05	0.043	86	57-133	

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Hospital #22-286

Pace Project No.: 50336749

LABORATORY CONTROL SAMPLE: 3294389

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	mg/kg	0.05	0.039	77	57-119	
1,2-Dibromoethane (EDB)	mg/kg	0.05	0.044	89	62-134	
1,2-Dichloroethane	mg/kg	0.05	0.041	81	63-127	
1,2-Dichloropropane	mg/kg	0.05	0.039	77	64-124	
1,3,5-Trimethylbenzene	mg/kg	0.05	0.039	78	58-118	
Benzene	mg/kg	0.05	0.040	79	65-124	
Chlorobenzene	mg/kg	0.05	0.039	79	64-118	
Chloroform	mg/kg	0.05	0.040	80	60-118	
cis-1,2-Dichloroethene	mg/kg	0.05	0.039	79	65-121	
Ethylbenzene	mg/kg	0.05	0.040	80	63-119	
Isopropylbenzene (Cumene)	mg/kg	0.05	0.040	79	61-122	
Methyl-tert-butyl ether	mg/kg	0.05	0.043	85	63-128	
n-Hexane	mg/kg	0.05	0.036	72	49-119	
Naphthalene	mg/kg	0.05	0.041	82	56-124	
Tetrachloroethene	mg/kg	0.05	0.038	76	60-122	
Toluene	mg/kg	0.05	0.038	76	61-117	
trans-1,2-Dichloroethene	mg/kg	0.05	0.040	80	61-121	
Trichloroethene	mg/kg	0.05	0.040	79	63-123	
Vinyl chloride	mg/kg	0.05	0.036	72	37-136	
Xylene (Total)	mg/kg	0.15	0.12	79	61-120	
4-Bromofluorobenzene (S)	%			96	63-129	
Dibromofluoromethane (S)	%			100	62-146	
Toluene-d8 (S)	%			101	68-143	

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Hospital #22-286
Pace Project No.: 50336749

QC Batch: 717707 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50336749021, 50336749029, 50336749030

METHOD BLANK: 3294719 Matrix: Solid

Associated Lab Samples: 50336749021, 50336749029, 50336749030

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	<0.00024	0.0050	0.00024	02/08/23 00:43	
1,1,1-Trichloroethane	mg/kg	<0.00036	0.0050	0.00036	02/08/23 00:43	
1,1,2,2-Tetrachloroethane	mg/kg	<0.00025	0.0050	0.00025	02/08/23 00:43	
1,1,2-Trichloroethane	mg/kg	<0.00021	0.0050	0.00021	02/08/23 00:43	
1,1-Dichloroethane	mg/kg	<0.00031	0.0050	0.00031	02/08/23 00:43	
1,1-Dichloroethene	mg/kg	<0.00027	0.0050	0.00027	02/08/23 00:43	
1,1-Dichloropropene	mg/kg	<0.00041	0.0050	0.00041	02/08/23 00:43	
1,2,3-Trichlorobenzene	mg/kg	<0.00035	0.0050	0.00035	02/08/23 00:43	
1,2,3-Trichloropropane	mg/kg	<0.00026	0.0050	0.00026	02/08/23 00:43	
1,2,4-Trichlorobenzene	mg/kg	<0.00042	0.0050	0.00042	02/08/23 00:43	
1,2,4-Trimethylbenzene	mg/kg	<0.00043	0.0050	0.00043	02/08/23 00:43	
1,2-Dibromoethane (EDB)	mg/kg	<0.00023	0.0050	0.00023	02/08/23 00:43	
1,2-Dichlorobenzene	mg/kg	<0.00033	0.0050	0.00033	02/08/23 00:43	
1,2-Dichloroethane	mg/kg	<0.00026	0.0050	0.00026	02/08/23 00:43	
1,2-Dichloropropane	mg/kg	<0.00029	0.0050	0.00029	02/08/23 00:43	
1,3,5-Trimethylbenzene	mg/kg	<0.00039	0.0050	0.00039	02/08/23 00:43	
1,3-Dichlorobenzene	mg/kg	<0.00041	0.0050	0.00041	02/08/23 00:43	
1,3-Dichloropropane	mg/kg	<0.00018	0.0050	0.00018	02/08/23 00:43	
1,4-Dichlorobenzene	mg/kg	<0.00038	0.0050	0.00038	02/08/23 00:43	
1-Methylnaphthalene	mg/kg	0.00067J	0.010	0.00025	02/08/23 00:43	
2,2-Dichloropropane	mg/kg	<0.00039	0.0050	0.00039	02/08/23 00:43	
2-Butanone (MEK)	mg/kg	<0.00069	0.025	0.00069	02/08/23 00:43	
2-Chlorotoluene	mg/kg	<0.00039	0.0050	0.00039	02/08/23 00:43	
2-Hexanone	mg/kg	<0.0010	0.10	0.0010	02/08/23 00:43	
2-Methylnaphthalene	mg/kg	0.00071J	0.010	0.00030	02/08/23 00:43	
4-Chlorotoluene	mg/kg	<0.00039	0.0050	0.00039	02/08/23 00:43	
4-Methyl-2-pentanone (MIBK)	mg/kg	<0.00094	0.025	0.00094	02/08/23 00:43	
Acetone	mg/kg	<0.0039	0.10	0.0039	02/08/23 00:43	
Acrolein	mg/kg	<0.0027	0.10	0.0027	02/08/23 00:43	
Acrylonitrile	mg/kg	<0.0010	0.10	0.0010	02/08/23 00:43	
Benzene	mg/kg	<0.00034	0.0050	0.00034	02/08/23 00:43	
Bromobenzene	mg/kg	<0.00033	0.0050	0.00033	02/08/23 00:43	
Bromochloromethane	mg/kg	<0.00018	0.0050	0.00018	02/08/23 00:43	
Bromodichloromethane	mg/kg	<0.00021	0.0050	0.00021	02/08/23 00:43	
Bromoform	mg/kg	<0.00014	0.0050	0.00014	02/08/23 00:43	
Bromomethane	mg/kg	<0.00027	0.0050	0.00027	02/08/23 00:43	
Carbon disulfide	mg/kg	<0.00035	0.010	0.00035	02/08/23 00:43	
Carbon tetrachloride	mg/kg	<0.00030	0.0050	0.00030	02/08/23 00:43	
Chlorobenzene	mg/kg	<0.00034	0.0050	0.00034	02/08/23 00:43	
Chloroethane	mg/kg	<0.00016	0.0050	0.00016	02/08/23 00:43	

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Hospital #22-286

Pace Project No.: 50336749

METHOD BLANK: 3294719

Matrix: Solid

Associated Lab Samples: 50336749021, 50336749029, 50336749030

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloroform	mg/kg	<0.00061	0.0050	0.00061	02/08/23 00:43	
Chloromethane	mg/kg	<0.00017	0.0050	0.00017	02/08/23 00:43	
cis-1,2-Dichloroethene	mg/kg	<0.00031	0.0050	0.00031	02/08/23 00:43	
cis-1,3-Dichloropropene	mg/kg	<0.00021	0.0050	0.00021	02/08/23 00:43	
Dibromochloromethane	mg/kg	<0.00020	0.0050	0.00020	02/08/23 00:43	
Dibromomethane	mg/kg	<0.00018	0.0050	0.00018	02/08/23 00:43	
Dichlorodifluoromethane	mg/kg	<0.00026	0.0050	0.00026	02/08/23 00:43	
Ethyl methacrylate	mg/kg	<0.00018	0.10	0.00018	02/08/23 00:43	
Ethylbenzene	mg/kg	<0.00041	0.0050	0.00041	02/08/23 00:43	
Hexachloro-1,3-butadiene	mg/kg	<0.00044	0.0050	0.00044	02/08/23 00:43	
Iodomethane	mg/kg	<0.00028	0.10	0.00028	02/08/23 00:43	
Isopropylbenzene (Cumene)	mg/kg	<0.00042	0.0050	0.00042	02/08/23 00:43	
Methyl-tert-butyl ether	mg/kg	<0.00019	0.0050	0.00019	02/08/23 00:43	
Methylene Chloride	mg/kg	0.0010J	0.020	0.00048	02/08/23 00:43	
n-Butylbenzene	mg/kg	<0.00042	0.0050	0.00042	02/08/23 00:43	
n-Hexane	mg/kg	<0.00022	0.0050	0.00022	02/08/23 00:43	
n-Propylbenzene	mg/kg	<0.00042	0.0050	0.00042	02/08/23 00:43	
Naphthalene	mg/kg	<0.00076	0.0050	0.00076	02/08/23 00:43	
p-Isopropyltoluene	mg/kg	<0.00046	0.0050	0.00046	02/08/23 00:43	
sec-Butylbenzene	mg/kg	<0.00044	0.0050	0.00044	02/08/23 00:43	
Styrene	mg/kg	<0.00036	0.0050	0.00036	02/08/23 00:43	
tert-Butylbenzene	mg/kg	<0.00045	0.0050	0.00045	02/08/23 00:43	
Tetrachloroethene	mg/kg	<0.00040	0.0050	0.00040	02/08/23 00:43	
Toluene	mg/kg	<0.00066	0.0050	0.00066	02/08/23 00:43	
trans-1,2-Dichloroethene	mg/kg	<0.00044	0.0050	0.00044	02/08/23 00:43	
trans-1,3-Dichloropropene	mg/kg	<0.00022	0.0050	0.00022	02/08/23 00:43	
trans-1,4-Dichloro-2-butene	mg/kg	<0.00034	0.10	0.00034	02/08/23 00:43	
Trichloroethene	mg/kg	<0.00037	0.0050	0.00037	02/08/23 00:43	
Trichlorofluoromethane	mg/kg	<0.00017	0.0050	0.00017	02/08/23 00:43	
Vinyl acetate	mg/kg	<0.00048	0.10	0.00048	02/08/23 00:43	
Vinyl chloride	mg/kg	<0.00017	0.0050	0.00017	02/08/23 00:43	
Xylene (Total)	mg/kg	<0.00042	0.010	0.00042	02/08/23 00:43	
4-Bromofluorobenzene (S)	%	102	63-129		02/08/23 00:43	
Dibromofluoromethane (S)	%	102	62-146		02/08/23 00:43	
Toluene-d8 (S)	%	99	68-143		02/08/23 00:43	

LABORATORY CONTROL SAMPLE: 3294720

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/kg	0.05	0.050	100	60-122	
1,1,2,2-Tetrachloroethane	mg/kg	0.05	0.044	88	60-129	
1,1-Dichloroethene	mg/kg	0.05	0.052	105	57-133	
1,2,4-Trimethylbenzene	mg/kg	0.05	0.043	86	57-119	
1,2-Dibromoethane (EDB)	mg/kg	0.05	0.048	96	62-134	

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Hospital #22-286

Pace Project No.: 50336749

LABORATORY CONTROL SAMPLE: 3294720

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	mg/kg	0.05	0.048	96	63-127	
1,2-Dichloropropane	mg/kg	0.05	0.047	93	64-124	
1,3,5-Trimethylbenzene	mg/kg	0.05	0.043	85	58-118	
Benzene	mg/kg	0.05	0.048	96	65-124	
Chlorobenzene	mg/kg	0.05	0.045	90	64-118	
Chloroform	mg/kg	0.05	0.048	96	60-118	
cis-1,2-Dichloroethene	mg/kg	0.05	0.047	94	65-121	
Ethylbenzene	mg/kg	0.05	0.045	90	63-119	
Isopropylbenzene (Cumene)	mg/kg	0.05	0.046	93	61-122	
Methyl-tert-butyl ether	mg/kg	0.05	0.049	99	63-128	
n-Hexane	mg/kg	0.05	0.046	92	49-119	
Naphthalene	mg/kg	0.05	0.045	90	56-124	
Tetrachloroethene	mg/kg	0.05	0.044	88	60-122	
Toluene	mg/kg	0.05	0.045	90	61-117	
trans-1,2-Dichloroethene	mg/kg	0.05	0.047	95	61-121	
Trichloroethene	mg/kg	0.05	0.048	96	63-123	
Vinyl chloride	mg/kg	0.05	0.052	105	37-136	
Xylene (Total)	mg/kg	0.15	0.13	88	61-120	
4-Bromofluorobenzene (S)	%			101	63-129	
Dibromofluoromethane (S)	%			100	62-146	
Toluene-d8 (S)	%			100	68-143	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3294721 3294722

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		50336749021 Result	Spike Conc.	Spike Conc.	Result							
1,1,1-Trichloroethane	mg/kg	<0.00039	0.06	0.047	0.052	0.048	87	103	32-140	8	20	
1,1,2,2-Tetrachloroethane	mg/kg	<0.00028	0.06	0.047	0.048	0.041	81	88	10-190	17	20	
1,1-Dichloroethene	mg/kg	<0.00029	0.06	0.047	0.053	0.050	90	107	28-162	6	20	
1,2,4-Trimethylbenzene	mg/kg	0.00085J	0.06	0.047	0.048	0.043	79	92	10-167	10	20	
1,2-Dibromoethane (EDB)	mg/kg	<0.00025	0.06	0.047	0.052	0.045	87	96	10-154	15	20	
1,2-Dichloroethane	mg/kg	<0.00029	0.06	0.047	0.051	0.045	85	96	29-139	13	20	
1,2-Dichloropropane	mg/kg	<0.00033	0.06	0.047	0.049	0.044	83	96	19-149	11	20	
1,3,5-Trimethylbenzene	mg/kg	<0.00043	0.06	0.047	0.047	0.043	78	93	10-177	8	20	
Benzene	mg/kg	<0.00037	0.06	0.047	0.050	0.046	84	99	26-147	8	20	
Chlorobenzene	mg/kg	<0.00038	0.06	0.047	0.048	0.044	80	94	10-147	9	20	
Chloroform	mg/kg	<0.00067	0.06	0.047	0.051	0.046	86	99	27-138	10	20	
cis-1,2-Dichloroethene	mg/kg	<0.00034	0.06	0.047	0.050	0.046	83	98	24-144	8	20	
Ethylbenzene	mg/kg	0.0021J	0.06	0.047	0.050	0.046	80	95	10-149	8	20	
Isopropylbenzene (Cumene)	mg/kg	<0.00047	0.06	0.047	0.051	0.047	85	100	10-150	8	20	
Methyl-tert-butyl ether	mg/kg	<0.00021	0.06	0.047	0.052	0.046	88	99	40-145	13	20	
n-Hexane	mg/kg	<0.00024	0.06	0.047	0.051	0.048	85	103	10-153	6	20	
Naphthalene	mg/kg	<0.00084	0.06	0.047	0.048	0.041	79	88	10-128	15	20	
Tetrachloroethene	mg/kg	<0.00044	0.06	0.047	0.047	0.043	79	93	10-159	9	20	

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

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Hospital #22-286

Pace Project No.: 50336749

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3294721												
3294722												
Parameter	Units	50336749021		MS	MSD	MS		MSD		% Rec Limits	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			
Toluene	mg/kg	0.0041J	0.06	0.047	0.047	0.050	0.047	77	92	11-153	5	20
trans-1,2-Dichloroethene	mg/kg	<0.00048	0.06	0.047	0.047	0.049	0.045	82	97	24-143	8	20
Trichloroethene	mg/kg	<0.00041	0.06	0.047	0.047	0.050	0.045	83	98	14-157	9	20
Vinyl chloride	mg/kg	<0.00019	0.06	0.047	0.047	0.054	0.050	91	108	18-155	7	20
Xylene (Total)	mg/kg	0.0017J	0.17	0.14	0.14	0.14	0.13	79	92	10-150	10	20
4-Bromofluorobenzene (S)	%							102	101	63-129		
Dibromofluoromethane (S)	%							100	100	62-146		
Toluene-d8 (S)	%							101	100	68-143		

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Hospital #22-286
Pace Project No.: 50336749

QC Batch: 717429 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270 Soil PAH by SIM
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50336749001, 50336749002, 50336749003, 50336749004, 50336749005, 50336749006, 50336749007, 50336749008, 50336749009, 50336749010, 50336749012, 50336749022, 50336749024

METHOD BLANK: 3293849 Matrix: Solid
Associated Lab Samples: 50336749001, 50336749002, 50336749003, 50336749004, 50336749005, 50336749006, 50336749007, 50336749008, 50336749009, 50336749010, 50336749012, 50336749022, 50336749024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1-Methylnaphthalene	mg/kg	<0.0020	0.0050	0.0020	02/07/23 09:43	
2-Methylnaphthalene	mg/kg	<0.0019	0.0050	0.0019	02/07/23 09:43	
Acenaphthene	mg/kg	<0.0020	0.0050	0.0020	02/07/23 09:43	
Acenaphthylene	mg/kg	<0.0019	0.0050	0.0019	02/07/23 09:43	
Anthracene	mg/kg	<0.0025	0.0050	0.0025	02/07/23 09:43	
Benzo(a)anthracene	mg/kg	<0.0030	0.0050	0.0030	02/07/23 09:43	
Benzo(a)pyrene	mg/kg	<0.0030	0.0050	0.0030	02/07/23 09:43	
Benzo(b)fluoranthene	mg/kg	<0.0028	0.0050	0.0028	02/07/23 09:43	
Benzo(g,h,i)perylene	mg/kg	<0.0030	0.0050	0.0030	02/07/23 09:43	
Benzo(k)fluoranthene	mg/kg	<0.0023	0.0050	0.0023	02/07/23 09:43	
Chrysene	mg/kg	<0.0034	0.0050	0.0034	02/07/23 09:43	
Dibenz(a,h)anthracene	mg/kg	<0.0025	0.0050	0.0025	02/07/23 09:43	
Fluoranthene	mg/kg	<0.0035	0.0050	0.0035	02/07/23 09:43	
Fluorene	mg/kg	<0.0020	0.0050	0.0020	02/07/23 09:43	
Indeno(1,2,3-cd)pyrene	mg/kg	<0.0025	0.0050	0.0025	02/07/23 09:43	
Naphthalene	mg/kg	<0.0019	0.0050	0.0019	02/07/23 09:43	
Phenanthrene	mg/kg	<0.0036	0.0050	0.0036	02/07/23 09:43	
Pyrene	mg/kg	<0.0034	0.0050	0.0034	02/07/23 09:43	
2-Fluorobiphenyl (S)	%	88	28-116		02/07/23 09:43	
p-Terphenyl-d14 (S)	%	105	27-127		02/07/23 09:43	

LABORATORY CONTROL SAMPLE: 3293850

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	mg/kg	0.67	0.58	87	49-125	
2-Methylnaphthalene	mg/kg	0.67	0.58	87	49-123	
Acenaphthene	mg/kg	0.67	0.58	87	50-116	
Acenaphthylene	mg/kg	0.67	0.63	94	54-113	
Anthracene	mg/kg	0.67	0.58	86	57-121	
Benzo(a)anthracene	mg/kg	0.67	0.62	93	58-122	
Benzo(a)pyrene	mg/kg	0.67	0.65	98	63-122	
Benzo(b)fluoranthene	mg/kg	0.67	0.63	95	63-128	
Benzo(g,h,i)perylene	mg/kg	0.67	0.60	90	54-123	
Benzo(k)fluoranthene	mg/kg	0.67	0.63	95	58-130	
Chrysene	mg/kg	0.67	0.62	93	59-127	
Dibenz(a,h)anthracene	mg/kg	0.67	0.60	89	57-127	
Fluoranthene	mg/kg	0.67	0.64	96	57-129	

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Hospital #22-286

Pace Project No.: 50336749

LABORATORY CONTROL SAMPLE: 3293850

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluorene	mg/kg	0.67	0.61	92	50-123	
Indeno(1,2,3-cd)pyrene	mg/kg	0.67	0.61	92	57-125	
Naphthalene	mg/kg	0.67	0.55	82	46-117	
Phenanthrene	mg/kg	0.67	0.60	91	58-119	
Pyrene	mg/kg	0.67	0.61	92	57-134	
2-Fluorobiphenyl (S)	%			85	28-116	
p-Terphenyl-d14 (S)	%			99	27-127	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3293851 3293852

Parameter	Units	MS 3293851		MSD 3293852		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50336521006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
1-Methylnaphthalene	mg/kg	0.26	0.82	0.81	0.71	0.72	55	57	16-150	2	20
2-Methylnaphthalene	mg/kg	0.026	0.82	0.81	0.64	0.62	75	74	11-156	2	20
Acenaphthene	mg/kg	ND	0.82	0.81	0.59	0.57	73	71	13-142	3	20
Acenaphthylene	mg/kg	ND	0.82	0.81	0.65	0.61	79	76	14-135	5	20
Anthracene	mg/kg	ND	0.82	0.81	0.56	0.53	69	66	10-155	6	20
Benzo(a)anthracene	mg/kg	ND	0.82	0.81	0.56	0.49	68	61	10-170	13	20
Benzo(a)pyrene	mg/kg	ND	0.82	0.81	0.57	0.50	69	62	30-135	12	20
Benzo(b)fluoranthene	mg/kg	ND	0.82	0.81	0.55	0.48	67	60	10-160	13	20
Benzo(g,h,i)perylene	mg/kg	ND	0.82	0.81	0.49	0.45	59	55	19-134	10	20
Benzo(k)fluoranthene	mg/kg	ND	0.82	0.81	0.54	0.45	66	56	10-160	17	20
Chrysene	mg/kg	ND	0.82	0.81	0.59	0.51	73	63	10-156	15	20
Dibenz(a,h)anthracene	mg/kg	ND	0.82	0.81	0.54	0.46	66	57	23-133	16	20
Fluoranthene	mg/kg	ND	0.82	0.81	0.60	0.57	73	70	10-173	6	20
Fluorene	mg/kg	ND	0.82	0.81	0.64	0.59	78	73	18-144	7	20
Indeno(1,2,3-cd)pyrene	mg/kg	ND	0.82	0.81	0.52	0.46	64	57	19-135	12	20
Naphthalene	mg/kg	0.16	0.82	0.81	0.64	0.63	58	59	15-140	0	20
Phenanthrene	mg/kg	ND	0.82	0.81	0.59	0.57	72	70	10-169	4	20
Pyrene	mg/kg	ND	0.82	0.81	0.59	0.51	73	63	10-178	16	20
2-Fluorobiphenyl (S)	%						69	68	28-116		
p-Terphenyl-d14 (S)	%						74	60	27-127		

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Hospital #22-286
Pace Project No.: 50336749

QC Batch: 717521 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270 Soil PAH by SIM
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50336749011, 50336749025, 50336749026, 50336749027, 50336749028

METHOD BLANK: 3294082 Matrix: Solid
Associated Lab Samples: 50336749011, 50336749025, 50336749026, 50336749027, 50336749028

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1-Methylnaphthalene	mg/kg	<0.0020	0.0050	0.0020	02/07/23 18:09	
2-Methylnaphthalene	mg/kg	<0.0019	0.0050	0.0019	02/07/23 18:09	
Acenaphthene	mg/kg	<0.0020	0.0050	0.0020	02/07/23 18:09	
Acenaphthylene	mg/kg	<0.0019	0.0050	0.0019	02/07/23 18:09	
Anthracene	mg/kg	<0.0025	0.0050	0.0025	02/07/23 18:09	
Benzo(a)anthracene	mg/kg	<0.0030	0.0050	0.0030	02/07/23 18:09	
Benzo(a)pyrene	mg/kg	<0.0030	0.0050	0.0030	02/07/23 18:09	
Benzo(b)fluoranthene	mg/kg	<0.0028	0.0050	0.0028	02/07/23 18:09	
Benzo(g,h,i)perylene	mg/kg	<0.0030	0.0050	0.0030	02/07/23 18:09	
Benzo(k)fluoranthene	mg/kg	<0.0023	0.0050	0.0023	02/07/23 18:09	
Chrysene	mg/kg	<0.0034	0.0050	0.0034	02/07/23 18:09	
Dibenz(a,h)anthracene	mg/kg	<0.0025	0.0050	0.0025	02/07/23 18:09	
Fluoranthene	mg/kg	<0.0035	0.0050	0.0035	02/07/23 18:09	
Fluorene	mg/kg	<0.0020	0.0050	0.0020	02/07/23 18:09	
Indeno(1,2,3-cd)pyrene	mg/kg	<0.0025	0.0050	0.0025	02/07/23 18:09	
Naphthalene	mg/kg	<0.0019	0.0050	0.0019	02/07/23 18:09	
Phenanthrene	mg/kg	<0.0036	0.0050	0.0036	02/07/23 18:09	
Pyrene	mg/kg	<0.0034	0.0050	0.0034	02/07/23 18:09	
2-Fluorobiphenyl (S)	%	76	28-116		02/07/23 18:09	
p-Terphenyl-d14 (S)	%	94	27-127		02/07/23 18:09	

LABORATORY CONTROL SAMPLE: 3294083

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	mg/kg	0.67	0.64	96	49-125	
2-Methylnaphthalene	mg/kg	0.67	0.64	96	49-123	
Acenaphthene	mg/kg	0.67	0.60	90	50-116	
Acenaphthylene	mg/kg	0.67	0.65	98	54-113	
Anthracene	mg/kg	0.67	0.59	89	57-121	
Benzo(a)anthracene	mg/kg	0.67	0.62	93	58-122	
Benzo(a)pyrene	mg/kg	0.67	0.64	96	63-122	
Benzo(b)fluoranthene	mg/kg	0.67	0.65	97	63-128	
Benzo(g,h,i)perylene	mg/kg	0.67	0.58	86	54-123	
Benzo(k)fluoranthene	mg/kg	0.67	0.57	86	58-130	
Chrysene	mg/kg	0.67	0.63	94	59-127	
Dibenz(a,h)anthracene	mg/kg	0.67	0.57	85	57-127	
Fluoranthene	mg/kg	0.67	0.62	93	57-129	
Fluorene	mg/kg	0.67	0.63	94	50-123	
Indeno(1,2,3-cd)pyrene	mg/kg	0.67	0.59	89	57-125	

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Hospital #22-286

Pace Project No.: 50336749

LABORATORY CONTROL SAMPLE: 3294083

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	mg/kg	0.67	0.58	87	46-117	
Phenanthrene	mg/kg	0.67	0.61	91	58-119	
Pyrene	mg/kg	0.67	0.67	100	57-134	
2-Fluorobiphenyl (S)	%			81	28-116	
p-Terphenyl-d14 (S)	%			95	27-127	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3294084 3294085

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		50336749011 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1-Methylnaphthalene	mg/kg	<0.011	0.75	0.76	0.82	0.79	109	104	16-150	3	20	
2-Methylnaphthalene	mg/kg	<0.011	0.75	0.76	0.80	0.79	106	105	11-156	1	20	
Acenaphthene	mg/kg	<0.011	0.75	0.76	0.71	0.68	95	90	13-142	4	20	
Acenaphthylene	mg/kg	<0.011	0.75	0.76	0.78	0.75	103	99	14-135	4	20	
Anthracene	mg/kg	<0.014	0.75	0.76	0.77	0.66	102	87	10-155	15	20	
Benzo(a)anthracene	mg/kg	0.049	0.75	0.76	1.7	1.3	216	159	10-170	29	20	M1,R1
Benzo(a)pyrene	mg/kg	0.037	0.75	0.76	2.1	1.4	281	178	30-135	43	20	M1,R1
Benzo(b)fluoranthene	mg/kg	0.085	0.75	0.76	2.6	1.7	337	214	10-160	43	20	M1,R1
Benzo(g,h,i)perylene	mg/kg	0.030	0.75	0.76	1.5	0.98	201	125	19-134	45	20	M1,R1
Benzo(k)fluoranthene	mg/kg	0.024J	0.75	0.76	1.6	1.1	210	140	10-160	38	20	M1,R1
Chrysene	mg/kg	0.062	0.75	0.76	2.0	1.4	261	182	10-156	34	20	M1,R1
Dibenz(a,h)anthracene	mg/kg	<0.014	0.75	0.76	0.91	0.72	120	95	23-133	23	20	R1
Fluoranthene	mg/kg	0.070	0.75	0.76	2.3	1.7	300	217	10-173	30	20	M1,R1
Fluorene	mg/kg	<0.011	0.75	0.76	0.74	0.71	99	94	18-144	5	20	
Indeno(1,2,3-cd)pyrene	mg/kg	0.027J	0.75	0.76	1.6	1.0	204	130	19-135	42	20	M1,R1
Naphthalene	mg/kg	<0.011	0.75	0.76	0.73	0.71	97	93	15-140	3	20	ED
Phenanthrene	mg/kg	0.037	0.75	0.76	0.98	0.83	125	105	10-169	16	20	
Pyrene	mg/kg	0.070	0.75	0.76	2.2	1.6	277	206	10-178	28	20	M1,R1
2-Fluorobiphenyl (S)	%						90	80	28-116			
p-Terphenyl-d14 (S)	%						101	84	27-127			

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Hospital #22-286

Pace Project No.: 50336749

QC Batch: 717743

Analysis Method: SM 2540G

QC Batch Method: SM 2540G

Analysis Description: Dry Weight/Percent Moisture

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50336749001, 50336749002, 50336749003, 50336749004, 50336749005, 50336749006, 50336749007, 50336749008, 50336749009, 50336749010, 50336749011, 50336749012

SAMPLE DUPLICATE: 3294942

Parameter	Units	50336697001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	8.3	8.1	2	5	N2

SAMPLE DUPLICATE: 3294943

Parameter	Units	50336749011 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	14.7	14.3	3	5	N2

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Hospital #22-286

Pace Project No.: 50336749

QC Batch: 717802

Analysis Method: SM 2540G

QC Batch Method: SM 2540G

Analysis Description: Dry Weight/Percent Moisture

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50336749013, 50336749014, 50336749015, 50336749016, 50336749017, 50336749018, 50336749019, 50336749020, 50336749021, 50336749022

SAMPLE DUPLICATE: 3295075

Parameter	Units	50336857021 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	12.4	14.4	15	5	N2,R1

SAMPLE DUPLICATE: 3295076

Parameter	Units	50336749021 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	8.0	7.0	14	5	N2,R1

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Hospital #22-286

Pace Project No.: 50336749

QC Batch: 717803

Analysis Method: SM 2540G

QC Batch Method: SM 2540G

Analysis Description: Dry Weight/Percent Moisture

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50336749023, 50336749024, 50336749025, 50336749026, 50336749027, 50336749028, 50336749030

SAMPLE DUPLICATE: 3295078

Parameter	Units	50336749024 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	11.9	17.4	37	5	N2,R1

SAMPLE DUPLICATE: 3295209

Parameter	Units	50336901003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	4.0	4.0	2	5	N2

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALIFIERS

Project: Hospital #22-286

Pace Project No.: 50336749

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.

TNTC - Too Numerous To Count

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 - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

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.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1d	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
B	Analyte was detected in the associated method blank.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
ED	Due to the extract's physical characteristics, the analysis was performed at dilution.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M3	Matrix spike recovery was outside laboratory control limits due to matrix interferences.
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.
R1	RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

METHOD CROSS REFERENCE TABLE

Project: Hospital #22-286

Pace Project No.: 50336749

Parameter	Matrix	Analytical Method	Preparation Method
6010 MET ICP	Solid	SW-846 6010B	SW-846 3050B
7471 Mercury	Solid	SW-846 7471A	SW-846 7471A
8260 MSV 5035A VOA	Solid	SW-846 8260C	SW-846 5035A
8270 PAH Soil by SIM	Solid	SW-846 8270C	SW-846 3546

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hospital #22-286

Pace Project No.: 50336749

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50336749001	SP-1 (0-2')	EPA 3050	718517	EPA 6010	718975
50336749002	SP-2 (0-2')	EPA 3050	718517	EPA 6010	718975
50336749003	SP-3 (0-1')	EPA 3050	718517	EPA 6010	718975
50336749004	SP-4 (0-2')	EPA 3050	718517	EPA 6010	718975
50336749005	SP-4 Dup (0-2')	EPA 3050	718517	EPA 6010	718975
50336749006	SP-4 (8-10')	EPA 3050	718517	EPA 6010	718975
50336749007	SP-5 (5-6')	EPA 3050	718517	EPA 6010	718975
50336749008	SP-5 (8-10')	EPA 3050	718517	EPA 6010	718975
50336749009	SP-6 (0-2')	EPA 3050	718517	EPA 6010	718975
50336749010	SP-7 (0-2')	EPA 3050	718517	EPA 6010	718975
50336749011	SP-8 (0-2')	EPA 3050	718517	EPA 6010	718975
50336749012	SP-8 (4-5')	EPA 3050	718517	EPA 6010	718975
50336749022	SP-9 (0-2')	EPA 3050	718517	EPA 6010	718975
50336749024	SP-10 (0-2')	EPA 3050	718517	EPA 6010	718975
50336749025	SP-11 (0-2')	EPA 3050	718517	EPA 6010	718975
50336749026	SP-12 (0-1')	EPA 3050	718517	EPA 6010	718975
50336749027	SP-13 (0-2')	EPA 3050	718517	EPA 6010	718975
50336749028	SP-13 (2-3')	EPA 3050	718517	EPA 6010	718975
50336749001	SP-1 (0-2')	EPA 7471	718268	EPA 7471	718674
50336749002	SP-2 (0-2')	EPA 7471	718268	EPA 7471	718674
50336749003	SP-3 (0-1')	EPA 7471	718268	EPA 7471	718674
50336749004	SP-4 (0-2')	EPA 7471	718268	EPA 7471	718674
50336749005	SP-4 Dup (0-2')	EPA 7471	718268	EPA 7471	718674
50336749006	SP-4 (8-10')	EPA 7471	718268	EPA 7471	718674
50336749007	SP-5 (5-6')	EPA 7471	718268	EPA 7471	718674
50336749008	SP-5 (8-10')	EPA 7471	718268	EPA 7471	718674
50336749009	SP-6 (0-2')	EPA 7471	718268	EPA 7471	718674
50336749010	SP-7 (0-2')	EPA 7471	718268	EPA 7471	718674
50336749011	SP-8 (0-2')	EPA 7471	718270	EPA 7471	718675
50336749012	SP-8 (4-5')	EPA 7471	718270	EPA 7471	718675
50336749022	SP-9 (0-2')	EPA 7471	718270	EPA 7471	718675
50336749024	SP-10 (0-2')	EPA 7471	718270	EPA 7471	718675
50336749025	SP-11 (0-2')	EPA 7471	718270	EPA 7471	718675
50336749026	SP-12 (0-1')	EPA 7471	718270	EPA 7471	718675
50336749027	SP-13 (0-2')	EPA 7471	718270	EPA 7471	718675
50336749028	SP-13 (2-3')	EPA 7471	718270	EPA 7471	718675
50336749001	SP-1 (0-2')	EPA 3546	717429	EPA 8270 by SIM	717532
50336749002	SP-2 (0-2')	EPA 3546	717429	EPA 8270 by SIM	717532
50336749003	SP-3 (0-1')	EPA 3546	717429	EPA 8270 by SIM	717532
50336749004	SP-4 (0-2')	EPA 3546	717429	EPA 8270 by SIM	717532
50336749005	SP-4 Dup (0-2')	EPA 3546	717429	EPA 8270 by SIM	717532
50336749006	SP-4 (8-10')	EPA 3546	717429	EPA 8270 by SIM	717532
50336749007	SP-5 (5-6')	EPA 3546	717429	EPA 8270 by SIM	717532
50336749008	SP-5 (8-10')	EPA 3546	717429	EPA 8270 by SIM	717532
50336749009	SP-6 (0-2')	EPA 3546	717429	EPA 8270 by SIM	717532
50336749010	SP-7 (0-2')	EPA 3546	717429	EPA 8270 by SIM	717532
50336749011	SP-8 (0-2')	EPA 3546	717521	EPA 8270 by SIM	717555

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hospital #22-286

Pace Project No.: 50336749

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50336749012	SP-8 (4-5')	EPA 3546	717429	EPA 8270 by SIM	717532
50336749022	SP-9 (0-2')	EPA 3546	717429	EPA 8270 by SIM	717532
50336749024	SP-10 (0-2')	EPA 3546	717429	EPA 8270 by SIM	717532
50336749025	SP-11 (0-2')	EPA 3546	717521	EPA 8270 by SIM	717555
50336749026	SP-12 (0-1')	EPA 3546	717521	EPA 8270 by SIM	717555
50336749027	SP-13 (0-2')	EPA 3546	717521	EPA 8270 by SIM	717555
50336749028	SP-13 (2-3')	EPA 3546	717521	EPA 8270 by SIM	717555
50336749013	SP-1 (6')	EPA 8260	717632		
50336749014	SP-2 (7')	EPA 8260	717632		
50336749015	SP-4 (7')	EPA 8260	717632		
50336749016	SP-4 (16')	EPA 8260	717632		
50336749017	SP-4 Dup (16')	EPA 8260	717632		
50336749018	SP-5 (11')	EPA 8260	717632		
50336749019	SP-6 (22')	EPA 8260	717632		
50336749020	SP-7 (25')	EPA 8260	717632		
50336749021	SP-8 (16')	EPA 8260	717707		
50336749023	SP-9 (25')	EPA 8260	717632		
50336749029	TB-1	EPA 8260	717707		
50336749030	SP-3 (25')	EPA 8260	717707		
50336749001	SP-1 (0-2')	SM 2540G	717743		
50336749002	SP-2 (0-2')	SM 2540G	717743		
50336749003	SP-3 (0-1')	SM 2540G	717743		
50336749004	SP-4 (0-2')	SM 2540G	717743		
50336749005	SP-4 Dup (0-2')	SM 2540G	717743		
50336749006	SP-4 (8-10')	SM 2540G	717743		
50336749007	SP-5 (5-6')	SM 2540G	717743		
50336749008	SP-5 (8-10')	SM 2540G	717743		
50336749009	SP-6 (0-2')	SM 2540G	717743		
50336749010	SP-7 (0-2')	SM 2540G	717743		
50336749011	SP-8 (0-2')	SM 2540G	717743		
50336749012	SP-8 (4-5')	SM 2540G	717743		
50336749013	SP-1 (6')	SM 2540G	717802		
50336749014	SP-2 (7')	SM 2540G	717802		
50336749015	SP-4 (7')	SM 2540G	717802		
50336749016	SP-4 (16')	SM 2540G	717802		
50336749017	SP-4 Dup (16')	SM 2540G	717802		
50336749018	SP-5 (11')	SM 2540G	717802		
50336749019	SP-6 (22')	SM 2540G	717802		
50336749020	SP-7 (25')	SM 2540G	717802		
50336749021	SP-8 (16')	SM 2540G	717802		
50336749022	SP-9 (0-2')	SM 2540G	717802		
50336749023	SP-9 (25')	SM 2540G	717803		
50336749024	SP-10 (0-2')	SM 2540G	717803		
50336749025	SP-11 (0-2')	SM 2540G	717803		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hospital #22-286

Pace Project No.: 50336749

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50336749026	SP-12 (0-1')	SM 2540G	717803		
50336749027	SP-13 (0-2')	SM 2540G	717803		
50336749028	SP-13 (2-3')	SM 2540G	717803		
50336749030	SP-3 (25')	SM 2540G	717803		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: JC [Signature] 1/6/09 2/3/23

1. Courier: FED EX UPS CLIENT PACE USPS OTHER

2. Custody Seal on Cooler/Box Present: Yes No

(If yes)Seals Intact: Yes No (leave blank if no seals were present)

3. Thermometer: 1 2 3 4 5 6 A B C D E F

4. Cooler Temperature(s): 4.5/4.2
 (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. Packing Material: Bubble Wrap Bubble Bags

None Other

6. Ice Type: Wet Blue None

7. If temp. is over 6°C or under 0°C, was the PM notified?: Yes No
 Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		<input checked="" type="checkbox"/>	All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.			
Short Hold Time Analysis (48 hours or less)? Analysis: TC	<input checked="" type="checkbox"/>		Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			<input checked="" type="checkbox"/>
Time 5035A TC placed in Freezer or Short Holds To Lab Time: 1/6/32			Residual Chlorine Check (SVOC 625 Pest/PCB 608)	Present	Absent	N/A
Rush TAT Requested (4 days or less):		<input checked="" type="checkbox"/>	Residual Chlorine Check (Total/Amenable/Free Cyanide)			<input checked="" type="checkbox"/>
Custody Signatures Present?	<input checked="" type="checkbox"/>		Headspace Wisconsin Sulfide?			<input checked="" type="checkbox"/>
Containers Intact?:	<input checked="" type="checkbox"/>		Headspace in VOA Vials (>6mm): See Container Count form for details	Present	Absent	No VOA Vials Sent
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID		<input checked="" type="checkbox"/>	Trip Blank Present?			<input checked="" type="checkbox"/>
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:			<input checked="" type="checkbox"/>

COMMENTS: PCVD TC not on chain "SP-3 (25)" 2/1/23 1440 = JC 2/3/23

Sample Container Count

** Place a RED dot on containers that are out of conformance **

COC Line Item	WGFLU	MeOH (only) SBS DI	VIALS			AMBER GLASS							PLASTIC							OTHER			Matrix	Nitric Red	Sulfuric Yellow	Sodium Hydroxide Green	Sodium Hydroxide/ -ZnAc Black										
			DG9H	VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S						BP3B	BP3Z	CG3H	CG3F	Syringe Kit					
1	1																																			SL	
2	1																																				
3																																					
4	1																																				
5		3																																			
6																																					
7																																					
8		4																																			SL
9																																					
10																																					
11																																					
12																																					

Container Codes

Glass				Plastic			
DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic	Miscellaneous	
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac		
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic	Syringe Kit	LL Cr+6 sampling kit
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic	ZPLC	Ziploc Bag
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic	R	Terracore Kit
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic	SP5T	120mL Coliform Sodium Thiosulfate
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac	GN	General Container
WGFLU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic	U	Summa Can (air sample)
JGFLU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	WT	Water
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered	SL	Solid Solid
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic	OL:	Oil
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic	NAL	Non-aqueous liquid
BG1S	1L H2SO4 clear glass	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic	WP	Wipe

MSV - FORM II VOA-1
SOLID VOLATILE SURROGATE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No.: 50336749 Contract: Hospital #22-286

Instrument ID: 50MV1A

LAB SAMPLE ID	SAMPLE NAME	BFB	DIBF	TOL8
3294388	3294388BLANK	98	104	101
3294389	3294389LCS	96	100	101
50336749013	SP-1 (6')	97	104	105
50336749014	SP-2 (7')	98	103	102
50336749015	SP-4 (7')	99	106	100
50336749016	SP-4 (16')	98	102	101
50336749017	SP-4 Dup (16')	98	102	101
50336749018	SP-5 (11')	99	103	101
50336749019	SP-6 (22')	96	102	103
50336749020	SP-7 (25')	96	102	102
50336749023	SP-9 (25')	98	103	102

(BFB) = 4-Bromofluorobenzene (S)

(DIBF) = Dibromofluoromethane (S)

(TOL8) = Toluene-d8 (S)

* Values outside of QC Limits

QC LIMITS

(63-129)

(62-146)

(68-143)

MSV - FORM II VOA-2
SOLID VOLATILE SURROGATE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No.: 50336749 Contract: Hospital #22-286

Instrument ID: 50MV1A

LAB SAMPLE ID	SAMPLE NAME	BFB	DIBF	TOL8
3294719	3294719BLANK	102	102	99
3294720	3294720LCS	101	100	100
3294721	3294721MS	102	100	101
3294722	3294722MSD	101	100	100
50336749021	SP-8 (16')	102	102	100
50336749029	TB-1	103	102	98
50336749030	SP-3 (25')	101	103	97

QC LIMITS

(63-129)

(62-146)

(68-143)

(BFB) = 4-Bromofluorobenzene (S)

(DIBF) = Dibromofluoromethane (S)

(TOL8) = Toluene-d8 (S)

* Values outside of QC Limits

MSV - FORM III VOA-1
SOLID LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana
 Date Extracted: 02/07/2023
 Instrument: 50MV1A
 Lab File ID: A020623.B\C02LCSSXX.D

Lab Sample ID: 3294389LCS
 Date Analyzed (1): 02/07/2023
 LCS Lot No: 336287
 SDG No.: 50336749

COMPOUND	AMOUNT ADDED (mg/kg)	LCS CONCENTRATION (mg/kg)	LCS %REC	QC LIMITS REC.
Benzene	0.050	0.040	79	65-124
Chlorobenzene	0.050	0.039	79	64-118
Chloroform	0.050	0.040	80	60-118
1,2-Dibromoethane (EDB)	0.050	0.044	89	62-134
1,2-Dichloroethane	0.050	0.041	81	63-127
1,1-Dichloroethene	0.050	0.043	86	57-133
cis-1,2-Dichloroethene	0.050	0.039	79	65-121
trans-1,2-Dichloroethene	0.050	0.040	80	61-121
1,2-Dichloropropane	0.050	0.039	77	64-124
Ethylbenzene	0.050	0.040	80	63-119
n-Hexane	0.050	0.036	72	49-119
Isopropylbenzene (Cumene)	0.050	0.040	79	61-122
Methyl-tert-butyl ether	0.050	0.043	85	63-128
Naphthalene	0.050	0.041	82	56-124
1,1,2,2-Tetrachloroethane	0.050	0.041	82	60-129
Tetrachloroethene	0.050	0.038	76	60-122
Toluene	0.050	0.038	76	61-117
1,1,1-Trichloroethane	0.050	0.040	79	60-122
Trichloroethene	0.050	0.040	79	63-123
1,2,4-Trimethylbenzene	0.050	0.039	77	57-119
1,3,5-Trimethylbenzene	0.050	0.039	78	58-118
Vinyl chloride	0.050	0.036	72	37-136
Xylene (Total)	0.15	0.12	79	61-120

Spike Recovery: 0 out of 23 outside limits.

MSV - FORM III VOA-1
SOLID LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana
Date Extracted: 02/08/2023
Instrument: 50MV1A
Lab File ID: A020723CAL.BIC02LCSSXX.D

Lab Sample ID: 3294720LCS
Date Analyzed (1): 02/08/2023
LCS Lot No: 337764
SDG No.: 50336749

COMPOUND	AMOUNT ADDED (mg/kg)	LCS CONCENTRATION (mg/kg)	LCS %REC	QC LIMITS REC.
Benzene	0.050	0.048	96	65-124
Chlorobenzene	0.050	0.045	90	64-118
Chloroform	0.050	0.048	96	60-118
1,2-Dibromoethane (EDB)	0.050	0.048	96	62-134
1,2-Dichloroethane	0.050	0.048	96	63-127
1,1-Dichloroethene	0.050	0.052	105	57-133
cis-1,2-Dichloroethene	0.050	0.047	94	65-121
trans-1,2-Dichloroethene	0.050	0.047	95	61-121
1,2-Dichloropropane	0.050	0.047	93	64-124
Ethylbenzene	0.050	0.045	90	63-119
n-Hexane	0.050	0.046	92	49-119
Isopropylbenzene (Cumene)	0.050	0.046	93	61-122
Methyl-tert-butyl ether	0.050	0.049	99	63-128
Naphthalene	0.050	0.045	90	56-124
1,1,2,2-Tetrachloroethane	0.050	0.044	88	60-129
Tetrachloroethene	0.050	0.044	88	60-122
Toluene	0.050	0.045	90	61-117
1,1,1-Trichloroethane	0.050	0.050	100	60-122
Trichloroethene	0.050	0.048	96	63-123
1,2,4-Trimethylbenzene	0.050	0.043	86	57-119
1,3,5-Trimethylbenzene	0.050	0.043	85	58-118
Vinyl chloride	0.050	0.052	105	37-136
Xylene (Total)	0.15	0.13	88	61-120

Spike Recovery: 0 out of 23 outside limits.

MSV - FORM III VOA-1
SOLID VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - Indiana

Matrix Spike - Sample No: 3294721MS

Date Extracted: 02/08/2023

Date Analyzed (1): 02/08/2023

Instrument: 50MV1A

Lab File ID: A020723CAL.B\C05.D

Parent Sample ID: SP-8 (16')

SDG No.: 50336749

COMPOUND	SPIKE ADDED (mg/kg)	SAMPLE CONCENTRATION (mg/kg)	MS CONCENTRATION (mg/kg)	MS %REC	QC LIMITS REC.
1,1,1-Trichloroethane	0.060	<0.00039	0.052	87	32-140
1,1,2,2-Tetrachloroethane	0.060	<0.00028	0.048	81	10-190
1,1-Dichloroethene	0.060	<0.00029	0.053	90	28-162
1,2,4-Trimethylbenzene	0.060	0.00085J	0.048	79	10-167
1,2-Dibromoethane (EDB)	0.060	<0.00025	0.052	87	10-154
1,2-Dichloroethane	0.060	<0.00029	0.051	85	29-139
1,2-Dichloropropane	0.060	<0.00033	0.049	83	19-149
1,3,5-Trimethylbenzene	0.060	<0.00043	0.047	78	10-177
Benzene	0.060	<0.00037	0.050	84	26-147
Chlorobenzene	0.060	<0.00038	0.048	80	10-147
Chloroform	0.060	<0.00067	0.051	86	27-138
Ethylbenzene	0.060	0.0021J	0.050	80	10-149
Isopropylbenzene (Cumene)	0.060	<0.00047	0.051	85	10-150
Methyl-tert-butyl ether	0.060	<0.00021	0.052	88	40-145
Naphthalene	0.060	<0.00084	0.048	79	10-128
Tetrachloroethene	0.060	<0.00044	0.047	79	10-159
Toluene	0.060	0.0041J	0.050	77	11-153
Trichloroethene	0.060	<0.00041	0.050	83	14-157
Vinyl chloride	0.060	<0.00019	0.054	91	18-155
Xylene (Total)	0.18	0.0017J	0.14	79	10-150
cis-1,2-Dichloroethene	0.060	<0.00034	0.050	83	24-144
n-Hexane	0.060	<0.00024	0.051	85	10-153
trans-1,2-Dichloroethene	0.060	<0.00048	0.049	82	24-143

Spike Recovery: 0 out of 23 outside limits.

MSV - FORM III VOA-2
SOLID VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Instrument (2): 50MV1A Matrix Spike Duplicate - Sample No: 3294722MSD
 Lab File ID (2): A020723CAL.B\C06.D Date Analyzed (2): 02/08/2023

COMPOUND	SPIKE ADDED (mg/kg)	MSD CONCENTRATION (mg/kg)	MSD %REC	%RPD	QC LIMITS	
					RPD	REC.
1,1,1-Trichloroethane	0.047	0.048	103	8	0-20	32-140
1,1,2,2-Tetrachloroethane	0.047	0.041	88	17	0-20	10-190
1,1-Dichloroethene	0.047	0.050	107	6	0-20	28-162
1,2,4-Trimethylbenzene	0.047	0.043	92	10	0-20	10-167
1,2-Dibromoethane (EDB)	0.047	0.045	96	15	0-20	10-154
1,2-Dichloroethane	0.047	0.045	96	13	0-20	29-139
1,2-Dichloropropane	0.047	0.044	96	11	0-20	19-149
1,3,5-Trimethylbenzene	0.047	0.043	93	8	0-20	10-177
Benzene	0.047	0.046	99	8	0-20	26-147
Chlorobenzene	0.047	0.044	94	9	0-20	10-147
Chloroform	0.047	0.046	99	10	0-20	27-138
Ethylbenzene	0.047	0.046	95	8	0-20	10-149
Isopropylbenzene (Cumene)	0.047	0.047	100	8	0-20	10-150
Methyl-tert-butyl ether	0.047	0.046	99	13	0-20	40-145
Naphthalene	0.047	0.041	88	15	0-20	10-128
Tetrachloroethene	0.047	0.043	93	9	0-20	10-159
Toluene	0.047	0.047	92	5	0-20	11-153
Trichloroethene	0.047	0.045	98	9	0-20	14-157
Vinyl chloride	0.047	0.050	108	7	0-20	18-155
Xylene (Total)	0.14	0.13	92	10	0-20	10-150
cis-1,2-Dichloroethene	0.047	0.046	98	8	0-20	24-144
n-Hexane	0.047	0.048	103	6	0-20	10-153
trans-1,2-Dichloroethene	0.047	0.045	97	8	0-20	24-143

RPD: 0 out of 23 outside limits.

Spike Recovery: 0 out of 23 outside limits.

MSV - FORM IV VOA-1
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

3294388BLANK

Lab Name: Pace Analytical - Indiana SDG No.: 50336749 Contract: Hospital #22-286
Instrument ID: 50MV1A Matrix: Solid Lab Sample ID: 3294388
Lab File ID: A020623.B\C03MBSXX.D Date Analyzed: 02/07/2023 Time: 00:50

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
3294389LCS	3294389	A020623.B\C02LCSSXX.D	02/07/2023 00:20
SP-1 (6')	50336749013	A020623.B\C12.D	02/07/2023 05:24
SP-2 (7')	50336749014	A020623.B\C13.D	02/07/2023 05:55
SP-4 (7')	50336749015	A020623.B\C14.D	02/07/2023 06:25
SP-4 (16')	50336749016	A020623.B\C15.D	02/07/2023 06:56
SP-4 Dup (16')	50336749017	A020623.B\C16.D	02/07/2023 07:26
SP-5 (11')	50336749018	A020623.B\C17.D	02/07/2023 07:56
SP-6 (22')	50336749019	A020623.B\C18.D	02/07/2023 08:27
SP-7 (25')	50336749020	A020623.B\C19.D	02/07/2023 08:57
SP-9 (25')	50336749023	A020623.B\C20.D	02/07/2023 09:27

MSV - FORM IV VOA-1
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

3294719BLANK

Lab Name: Pace Analytical - Indiana SDG No.: 50336749 Contract: Hospital #22-286
Instrument ID: 50MV1A Matrix: Solid Lab Sample ID: 3294719
Lab File ID: A020723CAL.BVC03MBSXX.D Date Analyzed: 02/08/2023 Time: 00:43

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
3294720LCS	3294720	A020723CAL.BVC02LCSSXX.D	02/08/2023 00:13
SP-8 (16')	50336749021	A020723CAL.BVC04.D	02/08/2023 01:13
3294721MS	3294721	A020723CAL.BVC05.D	02/08/2023 01:44
3294722MSD	3294722	A020723CAL.BVC06.D	02/08/2023 02:14
TB-1	50336749029	A020723CAL.BVC18.D	02/08/2023 08:19
SP-3 (25')	50336749030	A020723CAL.BVC19.D	02/08/2023 08:50

MSV - FORM V VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Pace Analytical - Indiana SDG No.: 50336749 Contract: Hospital #22-286
 Lab File ID: A012023CAL.BVA00BFB.D BFB Injection Date: 01/20/2023
 Instrument ID: 50MV1A BFB Injection Time: 14:04

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.00 - 40.00% of mass 95	21.27
75	30.00 - 60.00% of mass 95	53.10
95	Base Peak, 100.00% relative	100.00
96	5.00 - 9.00% of mass 95	6.67
173	Less than 2.00% of mass 174	0.00
174	50.00 - 100.00% of mass 95	63.52
175	5.00 - 9.00% of mass 174	4.89 (7.69) ¹
176	95.00 - 101.00% of mass 174	61.69 (97.12) ¹
177	5.00 - 9.00% of mass 176	4.04 (6.54) ²

1 - Value is % mass 174

2 - Value is % mass 176

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
22333744CAL1	22333744CAL1	A012023CAL.BVA02CAL1.D	01/20/2023	15:26
22333745CAL2	22333745CAL2	A012023CAL.BVA03CAL2.D	01/20/2023	15:57
22333751CAL3	22333751CAL3	A012023CAL.BVA04CAL3.D	01/20/2023	16:27
22333759CAL4	22333759CAL4	A012023CAL.BVA05CAL4.D	01/20/2023	16:58
22333760CAL5	22333760CAL5	A012023CAL.BVA06CAL5.D	01/20/2023	17:28
22333761CAL6	22333761CAL6	A012023CAL.BVA07CAL6.D	01/20/2023	17:59
22333762CAL7	22333762CAL7	A012023CAL.BVA08CAL7.D	01/20/2023	18:30
22333763CAL8	22333763CAL8	A012023CAL.BVA09CAL8.D	01/20/2023	19:00
22333764ICV	22333764ICV	A012023CAL.BVA11ICV.D	01/20/2023	20:01

MSV - FORM V VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Pace Analytical - Indiana SDG No.: 50336749 Contract: Hospital #22-286
 Lab File ID: A020623.B\C00BFB.D BFB Injection Date 02/06/2023
 Instrument ID: 50MV1A BFB Injection Time 23:19

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.00 - 40.00% of mass 95	21.55
75	30.00 - 60.00% of mass 95	52.97
95	Base Peak, 100.00% relative	100.00
96	5.00 - 9.00% of mass 95	6.32
173	Less than 2.00% of mass 174	0.81 (1.26) ¹
174	50.00 - 100.00% of mass 95	64.25
175	5.00 - 9.00% of mass 174	4.96 (7.72) ¹
176	95.00 - 101.00% of mass 174	62.17 (96.76) ¹
177	5.00 - 9.00% of mass 176	4.11 (6.61) ²

1 - Value is % mass 174

2 - Value is % mass 176

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
22389029CCV	22389029CCV	A020623.B\C02LCSSCCV.D	02/07/2023	00:20
3294389LCS	3294389LCS	A020623.B\C02LCSSXX.D	02/07/2023	00:20
3294388BLANK	3294388BLANK	A020623.B\C03MBSXX.D	02/07/2023	00:50
SP-1 (6')	50336749013	A020623.B\C12.D	02/07/2023	05:24
SP-2 (7')	50336749014	A020623.B\C13.D	02/07/2023	05:55
SP-4 (7')	50336749015	A020623.B\C14.D	02/07/2023	06:25
SP-4 (16')	50336749016	A020623.B\C15.D	02/07/2023	06:56
SP-4 Dup (16')	50336749017	A020623.B\C16.D	02/07/2023	07:26
SP-5 (11')	50336749018	A020623.B\C17.D	02/07/2023	07:56
SP-6 (22')	50336749019	A020623.B\C18.D	02/07/2023	08:27
SP-7 (25')	50336749020	A020623.B\C19.D	02/07/2023	08:57
SP-9 (25')	50336749023	A020623.B\C20.D	02/07/2023	09:27

MSV - FORM V VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Pace Analytical - Indiana SDG No.: 50336749 Contract: Hospital #22-286
 Lab File ID: A020723CAL.BVA00BFB.D BFB Injection Date: 02/07/2023
 Instrument ID: 50MV1A BFB Injection Time: 13:04

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.00 - 40.00% of mass 95	21.43
75	30.00 - 60.00% of mass 95	46.94
95	Base Peak, 100.00% relative	100.00
96	5.00 - 9.00% of mass 95	6.60
173	Less than 2.00% of mass 174	0.99 (1.04) ¹
174	50.00 - 100.00% of mass 95	95.08
175	5.00 - 9.00% of mass 174	6.97 (7.33) ¹
176	95.00 - 101.00% of mass 174	92.42 (97.20) ¹
177	5.00 - 9.00% of mass 176	6.25 (6.76) ²

1 - Value is % mass 174

2 - Value is % mass 176

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
22397160CAL1	22397160CAL1	A020723CAL.BVA01CAL1.D	02/07/2023	13:34
22397161CAL2	22397161CAL2	A020723CAL.BVA02CAL2.D	02/07/2023	14:05
22397162CAL3	22397162CAL3	A020723CAL.BVA03CAL3.D	02/07/2023	14:35
22397163CAL4	22397163CAL4	A020723CAL.BVA04CAL4.D	02/07/2023	15:06
22397164CAL5	22397164CAL5	A020723CAL.BVA05CAL5.D	02/07/2023	15:36
22397165CAL6	22397165CAL6	A020723CAL.BVA06CAL6.D	02/07/2023	16:06
22397166CAL7	22397166CAL7	A020723CAL.BVA07CAL7.D	02/07/2023	16:37
22397167CAL8	22397167CAL8	A020723CAL.BVA08CAL8.D	02/07/2023	17:07
22397168ICV	22397168ICV	A020723CAL.BVA10ICV.D	02/07/2023	18:08

MSV - FORM V VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Pace Analytical - Indiana SDG No.: 50336749 Contract: Hospital #22-286
 Lab File ID: A020723CAL.B\C00BFB.D BFB Injection Date 02/07/2023
 Instrument ID: 50MV1A BFB Injection Time 23:12

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.00 - 40.00% of mass 95	21.23
75	30.00 - 60.00% of mass 95	47.34
95	Base Peak, 100.00% relative	100.00
96	5.00 - 9.00% of mass 95	6.66
173	Less than 2.00% of mass 174	1.06 (1.07) ¹
174	50.00 - 100.00% of mass 95	99.55
175	5.00 - 9.00% of mass 174	7.83 (7.87) ¹
176	95.00 - 101.00% of mass 174	96.93 (97.37) ¹
177	5.00 - 9.00% of mass 176	6.63 (6.84) ²

1 - Value is % mass 174

2 - Value is % mass 176

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
22397175CCV	22397175CCV	A020723CAL.B\C01CCV.D	02/07/2023	23:42
3294720LCS	3294720LCS	A020723CAL.B\C02LCSSXX.D	02/08/2023	00:13
3294719BLANK	3294719BLANK	A020723CAL.B\C03MBSXX.D	02/08/2023	00:43
SP-8 (16')	50336749021	A020723CAL.B\C04.D	02/08/2023	01:13
3294721MS	3294721MS	A020723CAL.B\C05.D	02/08/2023	01:44
3294722MSD	3294722MSD	A020723CAL.B\C06.D	02/08/2023	02:14
TB-1	50336749029	A020723CAL.B\C18.D	02/08/2023	08:19
SP-3 (25')	50336749030	A020723CAL.B\C19.D	02/08/2023	08:50

MSV - FORM VIII VOA-1
MSV INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50336749 Contract: Hospital #22-286

Sample ID : 22389029CCV Date Analyzed: 02/07/2023

Instrument ID: 50MV1A GC Column: Col 1 Time Analyzed: 00:20

Lab File ID: A020623.B\C02LCSSCCV.D

		AREA CBZ	RT	AREA DCB	RT	AREA FBZ	RT
12 HOUR STD		231493	7.303	102410	8.603	367487	4.393
UPPER LIMIT		462986	7.803	204820	9.103	734974	4.893
LOWER LIMIT		115746.5	6.803	51205	8.103	183743.5	3.893
LAB SAMPLE ID	SAMPLE NO.						
3294388	3294388BLANK	227316	7.303	104121	8.603	351433	4.393
3294389	3294389LCS	231493	7.303	102410	8.603	367487	4.393
50336749013	SP-1 (6')	197552	7.303	85223	8.603	313116	4.398
50336749014	SP-2 (7')	212101	7.303	94528	8.603	330694	4.398
50336749015	SP-4 (7')	207745	7.303	94005	8.603	317284	4.398
50336749016	SP-4 (16')	227941	7.303	102037	8.603	359313	4.398
50336749017	SP-4 Dup (16')	217401	7.303	97332	8.603	340919	4.398
50336749018	SP-5 (11')	213992	7.303	94358	8.603	334570	4.393
50336749019	SP-6 (22')	192156	7.303	83340	8.603	303626	4.398
50336749020	SP-7 (25')	193097	7.303	85742	8.603	300771	4.398
50336749023	SP-9 (25')	180203	7.303	80277	8.603	283237	4.398

CBZ = Chlorobenzene-D5 (IS)

DCB = 1,4-Dichlorobenzene-d4 (IS)

FBZ = Fluorobenzene (IS)

AREA UPPER LIMIT = 200% of Internal Standard Area

AREA LOWER LIMIT = 50% of Internal Standard Area

RT UPPER LIMIT = +0.50 minutes of Internal Standard RT

RT LOWER LIMIT = -0.50 minutes of Internal Standard RT

* Values outside of QC Limits

MSV - FORM VIII VOA-1
MSV INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50336749 Contract: Hospital #22-286

Sample ID : 22397175CCV Date Analyzed: 02/07/2023

Instrument ID: 50MV1A GC Column: Col 1 Time Analyzed: 23:42

Lab File ID: A020723CAL.BIC01CCV.D

		AREA CBZ	RT	AREA DCB	RT	AREA FBZ	RT
12 HOUR STD		367712	7.303	202925	8.603	488480	4.398
UPPER LIMIT		735424	7.803	405850	9.103	976960	4.898
LOWER LIMIT		183856	6.803	101462.5	8.103	244240	3.898
LAB SAMPLE ID	SAMPLE NO.						
3294719	3294719BLANK	348013	7.303	198018	8.603	458088	4.393
3294720	3294720LCS	364949	7.303	202543	8.603	478612	4.398
3294721	3294721MS	347437	7.303	192026	8.603	463963	4.393
3294722	3294722MSD	357382	7.303	196377	8.603	474947	4.398
50336749021	SP-8 (16')	354475	7.303	201008	8.603	465541	4.398
50336749029	TB-1	381705	7.303	225629	8.603	495715	4.393
50336749030	SP-3 (25')	352774	7.303	208928	8.603	451574	4.398

CBZ = Chlorobenzene-D5 (IS)

DCB = 1,4-Dichlorobenzene-d4 (IS)

FBZ = Fluorobenzene (IS)

AREA UPPER LIMIT = 200% of Internal Standard Area

AREA LOWER LIMIT = 50% of Internal Standard Area

RT UPPER LIMIT = +0.50 minutes of Internal Standard RT

RT LOWER LIMIT = -0.50 minutes of Internal Standard RT

* Values outside of QC Limits

MSV - FORM VI VOA-1
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV1A GC Column: Col 1 SDG No.: 50336749
 Calibration Date(s): 01/20/2023 01/20/2023 Calibration Time(s): 15:26 19:00

LAB FILE ID

CAL1 = A012023CAL.BVA02CAL1.D CAL2 = A012023CAL.BVA03CAL2.D CAL3 = A012023CAL.BVA04CAL3.D
 CAL4 = A012023CAL.BVA05CAL4.D CAL5 = A012023CAL.BVA06CAL5.D CAL6 = A012023CAL.BVA07CAL6.D
 CAL7 = A012023CAL.BVA08CAL7.D CAL8 = A012023CAL.BVA09CAL8.D

COMPOUND	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5	CAL6
Acetone	Averaged			0.06593	0.05210	0.05497	0.04340
Acrolein	Averaged		0.02995	0.02613	0.02504	0.02935	0.03190
Acrylonitrile	Averaged			0.06627	0.06523	0.07302	0.06268
Benzene	Averaged	0.87501	1.04292	1.02408	0.99567	1.14160	0.94872
Bromobenzene	Averaged		0.71858	0.65859	0.63995	0.71476	0.59402
Bromochloromethane	Averaged		0.25236	0.24641	0.23284	0.25517	0.20647
Bromodichloromethane	Averaged		0.35025	0.32298	0.30896	0.34598	0.29124
Bromoform	Averaged			0.35089	0.34685	0.40959	0.35991
Bromomethane	Averaged		0.13872	0.13352	0.12052	0.14578	0.15132
2-Butanone (MEK)	Averaged			0.08203	0.07622	0.08681	0.07694
n-Butylbenzene	Averaged		3.08547	3.01294	2.94602	3.58498	2.98005
sec-Butylbenzene	Averaged		3.64642	3.52212	3.52743	4.31568	3.57930
tert-Butylbenzene	Averaged		2.41248	2.32135	2.28695	2.77384	2.29628
Carbon disulfide	Averaged			0.76122	0.71365	0.83297	0.66473
Carbon tetrachloride	Averaged		0.30431	0.31088	0.29792	0.35592	0.29722
Chlorobenzene	Averaged		0.96036	0.85695	0.85092	0.96298	0.81180
Chloroethane	Averaged		0.16942	0.17109	0.15596	0.19197	0.19508
Chloroform	Averaged			0.47121	0.44245	0.49327	0.40251
Chloromethane	Averaged		0.36896	0.34296	0.31136	0.36947	0.37281
2-Chlorotoluene	Averaged		2.55535	2.45381	2.34065	2.71409	2.29164
4-Chlorotoluene	Averaged		0.77531	0.74650	0.72904	0.84197	0.69716
Dibromochloromethane	Averaged		0.32038	0.29954	0.29563	0.33473	0.28421
1,2-Dibromoethane (EDB)	Averaged	0.20353	0.26504	0.24296	0.24426	0.27499	0.23656
Dibromomethane	Averaged			0.13112	0.12523	0.14084	0.11929
1,2-Dichlorobenzene	Averaged		1.32594	1.23368	1.15892	1.36042	1.11891
1,3-Dichlorobenzene	Averaged		1.40079	1.34184	1.26578	1.46604	1.24443
1,4-Dichlorobenzene	Averaged		1.41435	1.30280	1.22467	1.41688	1.18935
trans-1,4-Dichloro-2-butene	Averaged			0.09915	0.09859	0.11155	0.09349
Dichlorodifluoromethane	Averaged		0.33291	0.32792	0.30040	0.37714	0.38150
1,1-Dichloroethane	Averaged		0.50487	0.50647	0.47445	0.53859	0.45512
1,2-Dichloroethane	Averaged		0.32393	0.30311	0.28094	0.32017	0.26989
1,1-Dichloroethene	Averaged			0.17596	0.17243	0.20835	0.16976
cis-1,2-Dichloroethene	Averaged		0.27419	0.25817	0.24609	0.28506	0.23566
trans-1,2-Dichloroethene	Averaged		0.22969	0.23627	0.22361	0.25799	0.21492
1,2-Dichloropropane	Averaged		0.29680	0.28080	0.27780	0.31121	0.26492

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-2
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV1A GC Column: Col 1 SDG No.: 50336749
 Calibration Date(s): 01/20/2023 01/20/2023 Calibration Time(s): 15:26 19:00

LAB FILE ID

CAL1 = A012023CAL.BVA02CAL1.D CAL2 = A012023CAL.BVA03CAL2.D CAL3 = A012023CAL.BVA04CAL3.D
 CAL4 = A012023CAL.BVA05CAL4.D CAL5 = A012023CAL.BVA06CAL5.D CAL6 = A012023CAL.BVA07CAL6.D
 CAL7 = A012023CAL.BVA08CAL7.D CAL8 = A012023CAL.BVA09CAL8.D

COMPOUND	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5	CAL6
1,3-Dichloropropane	Averaged		0.52479	0.51817	0.50095	0.56606	0.48454
2,2-Dichloropropane	Averaged		0.32964	0.32142	0.31506	0.37977	0.31743
1,1-Dichloropropene	Averaged		0.35791	0.34428	0.33647	0.41054	0.33836
cis-1,3-Dichloropropene	Averaged		0.60251	0.58922	0.58174	0.67399	0.58035
trans-1,3-Dichloropropene	Averaged		0.50385	0.47192	0.48092	0.55130	0.47824
Ethylbenzene	Averaged		0.51278	0.47488	0.47944	0.54779	0.45760
Ethyl methacrylate	Averaged		0.33019	0.33127	0.33006	0.39162	0.35049
Hexachloro-1,3-butadiene	Averaged		0.48841	0.46469	0.43097	0.53492	0.44269
n-Hexane	Averaged			0.41188	0.41556	0.53145	0.44344
2-Hexanone	Averaged		0.19359	0.18405	0.18314	0.20931	0.18665
Iodomethane	Averaged			0.16736	0.16927	0.20567	0.17870
Isopropylbenzene (Cumene)	Averaged		1.54550	1.51023	1.48435	1.75620	1.45182
p-Isopropyltoluene	Averaged		3.07110	2.86172	2.81462	3.38593	2.81817
Methylene Chloride	Wt Linear			0.38666	0.28594	0.27814	0.20623
1-Methylnaphthalene	Averaged		0.55399	0.52214	0.50636	0.61766	0.57008
2-Methylnaphthalene	Averaged			0.68326	0.65317	0.80902	0.74250
4-Methyl-2-pentanone (MIBK)	Averaged		0.27485	0.25665	0.26094	0.30100	0.27229
Methyl-tert-butyl ether	Averaged		0.52991	0.49931	0.49408	0.56321	0.48361
Naphthalene	Averaged	1.56301	1.78341	1.70277	1.63693	1.92981	1.66504
n-Propylbenzene	Averaged		4.43458	4.25321	4.11073	4.99664	4.19842
Styrene	Averaged		1.02633	0.98589	0.97570	1.10519	0.91918
1,1,1,2-Tetrachloroethane	Averaged		0.30191	0.28578	0.27771	0.32856	0.27779
1,1,2,2-Tetrachloroethane	Averaged		0.80231	0.75832	0.75607	0.85694	0.74929
Tetrachloroethene	Averaged		0.30991	0.29651	0.28861	0.35427	0.29493
Toluene	Averaged		1.87360	1.63689	1.55017	1.75890	1.46116
1,2,3-Trichlorobenzene	Averaged		0.73684	0.69005	0.66161	0.77083	0.65269
1,2,4-Trichlorobenzene	Averaged		0.83070	0.78874	0.74438	0.86216	0.73665
1,1,1-Trichloroethane	Averaged		0.37212	0.35595	0.33814	0.40408	0.33810
1,1,2-Trichloroethane	Averaged		0.24967	0.23939	0.23019	0.26778	0.23097
Trichloroethene	Averaged		0.24747	0.24641	0.23811	0.28058	0.23285
Trichlorofluoromethane	Averaged		0.32084	0.31898	0.29246	0.36246	0.37131
1,2,3-Trichloropropane	Averaged		0.18783	0.19460	0.18403	0.20644	0.18105
1,2,4-Trimethylbenzene	Averaged		2.85975	2.76299	2.68043	3.19216	2.65402
1,3,5-Trimethylbenzene	Averaged		2.80182	2.71228	2.64202	3.16732	2.65124
Vinyl acetate	Averaged		0.46152	0.42976	0.41556	0.47481	0.49114

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-3
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV1A GC Column: Col 1 SDG No.: 50336749
 Calibration Date(s): 01/20/2023 01/20/2023 Calibration Time(s): 15:26 19:00

LAB FILE ID

CAL1 = A012023CAL.BVA02CAL1.D CAL2 = A012023CAL.BVA03CAL2.D CAL3 = A012023CAL.BVA04CAL3.D
 CAL4 = A012023CAL.BVA05CAL4.D CAL5 = A012023CAL.BVA06CAL5.D CAL6 = A012023CAL.BVA07CAL6.D
 CAL7 = A012023CAL.BVA08CAL7.D CAL8 = A012023CAL.BVA09CAL8.D

COMPOUND	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5	CAL6
Vinyl chloride	Averaged		0.35132	0.34230	0.31307	0.38929	0.39664
m&p-Xylene	Averaged		0.66252	0.61957	0.58218	0.68075	0.55833
o-Xylene	Averaged		0.60388	0.59494	0.55917	0.63677	0.52916
4-Bromofluorobenzene (S)	Averaged	0.50271	0.50449	0.50208	0.50630	0.50390	0.49817
Dibromofluoromethane (S)	Averaged	0.24078	0.24492	0.24273	0.23901	0.23506	0.23307
Toluene-d8 (S)	Averaged	1.42564	1.41975	1.42600	1.44263	1.43755	1.44028

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

02/20/2023 12:39

MSV - FORM VI VOA-4
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV1A GC Column: Col 1 SDG No.: 50336749
 Calibration Date(s): 01/20/2023 01/20/2023 Calibration Time(s): 15:26 19:00

LAB FILE ID

CAL1 = A012023CAL.BVA02CAL1.D CAL2 = A012023CAL.BVA03CAL2.D CAL3 = A012023CAL.BVA04CAL3.D
 CAL4 = A012023CAL.BVA05CAL4.D CAL5 = A012023CAL.BVA06CAL5.D CAL6 = A012023CAL.BVA07CAL6.D
 CAL7 = A012023CAL.BVA08CAL7.D CAL8 = A012023CAL.BVA09CAL8.D

COMPOUND	CURVE TYPE	CAL7	CAL8
Acetone	Averaged	0.04292	0.04397
Acrolein	Averaged	0.03122	0.02962
Acrylonitrile	Averaged	0.06391	0.06505
Benzene	Averaged	0.97326	0.98238
Bromobenzene	Averaged	0.59669	0.59898
Bromochloromethane	Averaged	0.20059	0.19769
Bromodichloromethane	Averaged	0.30129	0.30819
Bromoform	Averaged	0.38743	0.41190
Bromomethane	Averaged	0.14702	0.14393
2-Butanone (MEK)	Averaged	0.07793	0.07869
n-Butylbenzene	Averaged	3.06802	3.09616
sec-Butylbenzene	Averaged	3.66575	3.61715
tert-Butylbenzene	Averaged	2.38690	2.41011
Carbon disulfide	Averaged	0.63403	0.62100
Carbon tetrachloride	Averaged	0.30586	0.31437
Chlorobenzene	Averaged	0.82649	0.83077
Chloroethane	Averaged	0.18480	0.16806
Chloroform	Averaged	0.40595	0.41428
Chloromethane	Averaged	0.36972	0.35976
2-Chlorotoluene	Averaged	2.41071	2.45200
4-Chlorotoluene	Averaged	0.73433	0.75539
Dibromochloromethane	Averaged	0.29267	0.29806
1,2-Dibromoethane (EDB)	Averaged	0.24503	0.24844
Dibromomethane	Averaged	0.12220	0.12503
1,2-Dichlorobenzene	Averaged	1.15748	1.19387
1,3-Dichlorobenzene	Averaged	1.26350	1.30036
1,4-Dichlorobenzene	Averaged	1.21883	1.25579
trans-1,4-Dichloro-2-butene	Averaged	0.09350	0.09310
Dichlorodifluoromethane	Averaged	0.37798	0.35882
1,1-Dichloroethane	Averaged	0.45758	0.47036
1,2-Dichloroethane	Averaged	0.27696	0.28691
1,1-Dichloroethene	Averaged	0.17042	0.16933
cis-1,2-Dichloroethene	Averaged	0.24147	0.24795
trans-1,2-Dichloroethene	Averaged	0.21701	0.22196
1,2-Dichloropropane	Averaged	0.27534	0.28142

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-5
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV1A GC Column: Col 1 SDG No.: 50336749
 Calibration Date(s): 01/20/2023 01/20/2023 Calibration Time(s): 15:26 19:00

LAB FILE ID

CAL1 = A012023CAL.BVA02CAL1.D CAL2 = A012023CAL.BVA03CAL2.D CAL3 = A012023CAL.BVA04CAL3.D
 CAL4 = A012023CAL.BVA05CAL4.D CAL5 = A012023CAL.BVA06CAL5.D CAL6 = A012023CAL.BVA07CAL6.D
 CAL7 = A012023CAL.BVA08CAL7.D CAL8 = A012023CAL.BVA09CAL8.D

COMPOUND	CURVE TYPE	CAL7	CAL8
1,3-Dichloropropane	Averaged	0.49785	0.49638
2,2-Dichloropropane	Averaged	0.33598	0.35206
1,1-Dichloropropene	Averaged	0.34412	0.35339
cis-1,3-Dichloropropene	Averaged	0.60516	0.62056
trans-1,3-Dichloropropene	Averaged	0.50265	0.51610
Ethylbenzene	Averaged	0.46371	0.46753
Ethyl methacrylate	Averaged	0.37025	0.38600
Hexachloro-1,3-butadiene	Averaged	0.48035	0.52538
n-Hexane	Averaged	0.45385	0.46454
2-Hexanone	Averaged	0.18967	0.19248
Iodomethane	Averaged	0.18875	0.18760
Isopropylbenzene (Cumene)	Averaged	1.42952	1.36760
p-Isopropyltoluene	Averaged	2.84799	2.85029
Methylene Chloride	Wt Linear	0.20013	0.19866
1-Methylnaphthalene	Averaged	0.66924	0.76152
2-Methylnaphthalene	Averaged	0.90251	1.05200
4-Methyl-2-pentanone (MIBK)	Averaged	0.28455	0.28879
Methyl-tert-butyl ether	Averaged	0.50511	0.52409
Naphthalene	Averaged	1.78914	1.86949
n-Propylbenzene	Averaged	4.27429	4.13629
Styrene	Averaged	0.91785	0.89613
1,1,1,2-Tetrachloroethane	Averaged	0.29220	0.29442
1,1,2,2-Tetrachloroethane	Averaged	0.79176	0.83605
Tetrachloroethene	Averaged	0.30612	0.31523
Toluene	Averaged	1.48071	1.48170
1,2,3-Trichlorobenzene	Averaged	0.69820	0.74862
1,2,4-Trichlorobenzene	Averaged	0.79326	0.85783
1,1,1-Trichloroethane	Averaged	0.34852	0.36132
1,1,2-Trichloroethane	Averaged	0.23366	0.23817
Trichloroethene	Averaged	0.24141	0.24953
Trichlorofluoromethane	Averaged	0.34528	0.30278
1,2,3-Trichloropropane	Averaged	0.18690	0.19801
1,2,4-Trimethylbenzene	Averaged	2.72608	2.76055
1,3,5-Trimethylbenzene	Averaged	2.76359	2.81623
Vinyl acetate	Averaged	0.49330	0.48488

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-6
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV1A GC Column: Col 1 SDG No.: 50336749
 Calibration Date(s): 01/20/2023 01/20/2023 Calibration Time(s): 15:26 19:00

LAB FILE ID

CAL1 = A012023CAL.BVA02CAL1.D CAL2 = A012023CAL.BVA03CAL2.D CAL3 = A012023CAL.BVA04CAL3.D
 CAL4 = A012023CAL.BVA05CAL4.D CAL5 = A012023CAL.BVA06CAL5.D CAL6 = A012023CAL.BVA07CAL6.D
 CAL7 = A012023CAL.BVA08CAL7.D CAL8 = A012023CAL.BVA09CAL8.D

COMPOUND	CURVE TYPE	CAL7	CAL8
Vinyl chloride	Averaged	0.38830	0.37048
m&p-Xylene	Averaged	0.56460	0.56063
o-Xylene	Averaged	0.54313	0.54697
4-Bromofluorobenzene (S)	Averaged	0.47602	0.45813
Dibromofluoromethane (S)	Averaged	0.23087	0.23130
Toluene-d8 (S)	Averaged	1.42948	1.43085

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-7
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV1A GC Column: Col 1 SDG No.: 50336749
 Calibration Date(s): 01/20/2023 01/20/2023 Calibration Time(s): 15:26 19:00

LAB FILE ID

CAL1 = A012023CAL.BVA02CAL1.D CAL2 = A012023CAL.BVA03CAL2.D CAL3 = A012023CAL.BVA04CAL3.D
 CAL4 = A012023CAL.BVA05CAL4.D CAL5 = A012023CAL.BVA06CAL5.D CAL6 = A012023CAL.BVA07CAL6.D
 CAL7 = A012023CAL.BVA08CAL7.D CAL8 = A012023CAL.BVA09CAL8.D

COMPOUND	CURVE TYPE	%RSD	R2	A1	A2	A3
Acetone	Averaged	17.94051			0.05055	
Acrolein	Averaged	8.74868			0.02903	
Acrylonitrile	Averaged	5.51363			0.06603	
Benzene	Averaged	7.73724			0.99795	
Bromobenzene	Averaged	8.36903			0.64594	
Bromochloromethane	Averaged	11.10473			0.22736	
Bromodichloromethane	Averaged	7.04579			0.31842	
Bromoform	Averaged	7.73459			0.37776	
Bromomethane	Averaged	7.42429			0.14012	
2-Butanone (MEK)	Averaged	5.00932			0.07977	
n-Butylbenzene	Averaged	6.96179			3.11052	
sec-Butylbenzene	Averaged	7.53863			3.69626	
tert-Butylbenzene	Averaged	6.95246			2.41256	
Carbon disulfide	Averaged	11.58681			0.70460	
Carbon tetrachloride	Averaged	6.46749			0.31235	
Chlorobenzene	Averaged	7.28002			0.87147	
Chloroethane	Averaged	8.09238			0.17663	
Chloroform	Averaged	8.55325			0.43828	
Chloromethane	Averaged	6.26889			0.35644	
2-Chlorotoluene	Averaged	5.72006			2.45975	
4-Chlorotoluene	Averaged	6.04950			0.75424	
Dibromochloromethane	Averaged	5.79411			0.30360	
1,2-Dibromoethane (EDB)	Averaged	8.59807			0.24510	
Dibromomethane	Averaged	6.06063			0.12729	
1,2-Dichlorobenzene	Averaged	7.44881			1.22132	
1,3-Dichlorobenzene	Averaged	6.18022			1.32610	
1,4-Dichlorobenzene	Averaged	7.24692			1.28895	
trans-1,4-Dichloro-2-butene	Averaged	7.19072			0.09823	
Dichlorodifluoromethane	Averaged	8.87624			0.35095	
1,1-Dichloroethane	Averaged	6.31847			0.48678	
1,2-Dichloroethane	Averaged	7.27289			0.29456	
1,1-Dichloroethene	Averaged	8.55870			0.17771	
cis-1,2-Dichloroethene	Averaged	7.08548			0.25551	
trans-1,2-Dichloroethene	Averaged	6.46918			0.22878	
1,2-Dichloropropane	Averaged	5.37461			0.28404	

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-8
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV1A GC Column: Col 1 SDG No.: 50336749
 Calibration Date(s): 01/20/2023 01/20/2023 Calibration Time(s): 15:26 19:00

LAB FILE ID

CAL1 = A012023CAL.BVA02CAL1.D CAL2 = A012023CAL.BVA03CAL2.D CAL3 = A012023CAL.BVA04CAL3.D
 CAL4 = A012023CAL.BVA05CAL4.D CAL5 = A012023CAL.BVA06CAL5.D CAL6 = A012023CAL.BVA07CAL6.D
 CAL7 = A012023CAL.BVA08CAL7.D CAL8 = A012023CAL.BVA09CAL8.D

COMPOUND	CURVE TYPE	%RSD	R2	A1	A2	A3
1,3-Dichloropropane	Averaged	5.30652			0.51268	
2,2-Dichloropropane	Averaged	6.88652			0.33591	
1,1-Dichloropropene	Averaged	7.22711			0.35501	
cis-1,3-Dichloropropene	Averaged	5.35673			0.60765	
trans-1,3-Dichloropropene	Averaged	5.49112			0.50071	
Ethylbenzene	Averaged	6.68826			0.48625	
Ethyl methacrylate	Averaged	7.57208			0.35570	
Hexachloro-1,3-butadiene	Averaged	8.12637			0.48106	
n-Hexane	Averaged	9.59825			0.45345	
2-Hexanone	Averaged	4.64812			0.19127	
Iodomethane	Averaged	7.80928			0.18289	
Isopropylbenzene (Cumene)	Averaged	8.24597			1.50646	
p-Isopropyltoluene	Averaged	7.17159			2.94998	
Methylene Chloride	Wt Linear		0.99837	0.02039760	0.19470	
1-Methylnaphthalene	Averaged	15.06367			0.60014	
2-Methylnaphthalene	Averaged	18.56787			0.80708	
4-Methyl-2-pentanone (MIBK)	Averaged	5.65246			0.27701	
Methyl-tert-butyl ether	Averaged	5.26101			0.51419	
Naphthalene	Averaged	7.06229			1.74245	
n-Propylbenzene	Averaged	7.07126			4.34345	
Styrene	Averaged	7.52464			0.97518	
1,1,1,2-Tetrachloroethane	Averaged	5.98176			0.29405	
1,1,2,2-Tetrachloroethane	Averaged	5.27710			0.79296	
Tetrachloroethene	Averaged	7.06467			0.30937	
Toluene	Averaged	9.88301			1.60616	
1,2,3-Trichlorobenzene	Averaged	6.32784			0.70841	
1,2,4-Trichlorobenzene	Averaged	6.31777			0.80196	
1,1,1-Trichloroethane	Averaged	6.41643			0.35975	
1,1,2-Trichloroethane	Averaged	5.53966			0.24140	
Trichloroethene	Averaged	6.23998			0.24805	
Trichlorofluoromethane	Averaged	9.02966			0.33059	
1,2,3-Trichloropropane	Averaged	4.64974			0.19127	
1,2,4-Trimethylbenzene	Averaged	6.52761			2.80514	
1,3,5-Trimethylbenzene	Averaged	6.38694			2.79350	
Vinyl acetate	Averaged	6.61994			0.46442	

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-9
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV1A GC Column: Col 1 SDG No.: 50336749
 Calibration Date(s): 01/20/2023 01/20/2023 Calibration Time(s): 15:26 19:00

LAB FILE ID

CAL1 = A012023CAL.BVA02CAL1.D CAL2 = A012023CAL.BVA03CAL2.D CAL3 = A012023CAL.BVA04CAL3.D
 CAL4 = A012023CAL.BVA05CAL4.D CAL5 = A012023CAL.BVA06CAL5.D CAL6 = A012023CAL.BVA07CAL6.D
 CAL7 = A012023CAL.BVA08CAL7.D CAL8 = A012023CAL.BVA09CAL8.D

COMPOUND	CURVE TYPE	%RSD	R2	A1	A2	A3
Vinyl chloride	Averaged	8.35218			0.36449	
m&p-Xylene	Averaged	8.42826			0.60408	
o-Xylene	Averaged	6.82258			0.57343	
4-Bromofluorobenzene (S)	Averaged	3.52923			0.49398	
Dibromofluoromethane (S)	Averaged	2.26922			0.23722	
Toluene-d8 (S)	Averaged	0.55670			1.43152	

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-1
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV1A GC Column: Col 1 SDG No.: 50336749
 Calibration Date(s): 02/07/2023 02/07/2023 Calibration Time(s): 13:34 17:07

LAB FILE ID

CAL1 = A020723CAL.BVA01CAL1.D CAL2 = A020723CAL.BVA02CAL2.D CAL3 = A020723CAL.BVA03CAL3.D
 CAL4 = A020723CAL.BVA04CAL4.D CAL5 = A020723CAL.BVA05CAL5.D CAL6 = A020723CAL.BVA06CAL6.D
 CAL7 = A020723CAL.BVA07CAL7.D CAL8 = A020723CAL.BVA08CAL8.D

COMPOUND	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5	CAL6
Acetone	Averaged			0.05788	0.04688	0.05158	0.04013
Acrolein	Averaged		0.01840	0.01887	0.01837	0.01788	0.02094
Acrylonitrile	Averaged			0.05056	0.04929	0.06050	0.04920
Benzene	Averaged	0.77717	0.87453	0.76705	0.73986	0.95052	0.76984
Bromobenzene	Averaged		0.54380	0.46889	0.43246	0.55376	0.45358
Bromochloromethane	Averaged		0.22674	0.19103	0.18842	0.23574	0.18408
Bromodichloromethane	Averaged		0.33232	0.29800	0.27387	0.35089	0.28696
Bromoform	Averaged			0.41898	0.39269	0.51472	0.41559
Bromomethane	Averaged		0.08962	0.09311	0.09383	0.10032	0.11301
2-Butanone (MEK)	Averaged			0.07126	0.06829	0.09034	0.07117
n-Butylbenzene	Averaged		2.39654	2.10754	2.03169	2.54535	2.07636
sec-Butylbenzene	Averaged		3.10632	2.72272	2.65379	3.42138	2.79174
tert-Butylbenzene	Averaged		2.10257	1.96366	1.87599	2.44128	2.01621
Carbon disulfide	Averaged			0.47925	0.46094	0.58231	0.46315
Carbon tetrachloride	Averaged		0.40514	0.37629	0.35850	0.48796	0.38968
Chlorobenzene	Averaged		0.98612	0.86403	0.81306	1.02823	0.83446
Chloroethane	Averaged		0.09120	0.10148	0.09823	0.10526	0.11815
Chloroform	Averaged			0.41763	0.37609	0.48199	0.38444
Chloromethane	Averaged		0.23871	0.22778	0.21595	0.23183	0.26197
2-Chlorotoluene	Averaged		1.98778	1.69369	1.59850	2.02387	1.64281
4-Chlorotoluene	Averaged		0.78193	0.67222	0.61573	0.78683	0.63470
Dibromochloromethane	Averaged		0.38763	0.35371	0.33401	0.42505	0.34632
1,2-Dibromoethane (EDB)	Averaged	0.21127	0.29448	0.24915	0.23472	0.29924	0.24376
Dibromomethane	Averaged			0.12561	0.12680	0.15689	0.12756
1,2-Dichlorobenzene	Averaged		1.42744	1.25915	1.15544	1.44769	1.17536
1,3-Dichlorobenzene	Averaged		1.51022	1.35158	1.28658	1.56744	1.28838
1,4-Dichlorobenzene	Averaged		1.55023	1.37533	1.27324	1.54807	1.24938
trans-1,4-Dichloro-2-butene	Averaged			0.08448	0.07760	0.10108	0.08136
Dichlorodifluoromethane	Averaged		0.25236	0.25420	0.23123	0.26198	0.29446
1,1-Dichloroethane	Averaged		0.39016	0.34744	0.33930	0.44029	0.34716
1,2-Dichloroethane	Averaged		0.31242	0.25267	0.24437	0.31024	0.25496
1,1-Dichloroethene	Averaged			0.14984	0.14171	0.19531	0.15316
cis-1,2-Dichloroethene	Averaged		0.26763	0.24193	0.23179	0.29605	0.23867
trans-1,2-Dichloroethene	Averaged		0.24763	0.21493	0.20053	0.26698	0.21425
1,2-Dichloropropane	Averaged		0.22920	0.20472	0.19404	0.24895	0.20270

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-2
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV1A GC Column: Col 1 SDG No.: 50336749
 Calibration Date(s): 02/07/2023 02/07/2023 Calibration Time(s): 13:34 17:07

LAB FILE ID

CAL1 = A020723CAL.BVA01CAL1.D CAL2 = A020723CAL.BVA02CAL2.D CAL3 = A020723CAL.BVA03CAL3.D
 CAL4 = A020723CAL.BVA04CAL4.D CAL5 = A020723CAL.BVA05CAL5.D CAL6 = A020723CAL.BVA06CAL6.D
 CAL7 = A020723CAL.BVA07CAL7.D CAL8 = A020723CAL.BVA08CAL8.D

COMPOUND	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5	CAL6
1,3-Dichloropropane	Averaged		0.42358	0.36482	0.33855	0.43608	0.35126
2,2-Dichloropropane	Averaged		0.29985	0.26814	0.26311	0.35572	0.28847
1,1-Dichloropropene	Averaged		0.29512	0.25615	0.25891	0.34264	0.27407
cis-1,3-Dichloropropene	Averaged		0.47826	0.40357	0.37769	0.49701	0.41064
trans-1,3-Dichloropropene	Averaged		0.39789	0.33954	0.33294	0.43038	0.35185
Ethylbenzene	Averaged		0.52454	0.44116	0.41878	0.54314	0.44134
Ethyl methacrylate	Averaged		0.23781	0.21781	0.20588	0.28348	0.23534
Hexachloro-1,3-butadiene	Averaged		0.52917	0.45622	0.44881	0.55628	0.46956
n-Hexane	Averaged			0.29517	0.28788	0.40448	0.32859
2-Hexanone	Averaged		0.15191	0.13631	0.13675	0.18301	0.14703
Iodomethane	Averaged			0.17124	0.17528	0.23847	0.20920
Isopropylbenzene (Cumene)	Averaged		1.55521	1.38226	1.32166	1.70978	1.39800
p-Isopropyltoluene	Averaged		2.73519	2.39200	2.33366	2.98547	2.43219
Methylene Chloride	Averaged			0.24943	0.19648	0.23026	0.17860
1-Methylnaphthalene	Averaged		0.62150	0.57640	0.59485	0.84114	0.73903
2-Methylnaphthalene	Averaged			0.64894	0.68220	0.93422	0.83107
4-Methyl-2-pentanone (MIBK)	Averaged		0.20791	0.20164	0.20037	0.26668	0.21677
Methyl-tert-butyl ether	Averaged		0.45732	0.39561	0.38157	0.48624	0.39740
Naphthalene	Averaged	1.58318	1.66455	1.52597	1.53864	1.97532	1.60239
n-Propylbenzene	Averaged		3.35239	2.90563	2.75594	3.57328	2.91414
Styrene	Averaged		0.99194	0.89158	0.85191	1.06858	0.87223
1,1,1,2-Tetrachloroethane	Averaged		0.37697	0.33800	0.31629	0.41233	0.33473
1,1,2,2-Tetrachloroethane	Averaged		0.56142	0.50629	0.47787	0.62103	0.49283
Tetrachloroethene	Averaged		0.44516	0.38092	0.36385	0.47924	0.39619
Toluene	Averaged		1.48722	1.24885	1.17312	1.50483	1.20697
1,2,3-Trichlorobenzene	Averaged		0.91762	0.78412	0.74034	0.92906	0.76430
1,2,4-Trichlorobenzene	Averaged		1.02764	0.90317	0.84479	1.01733	0.86414
1,1,1-Trichloroethane	Averaged		0.40696	0.36455	0.34735	0.46744	0.38144
1,1,2-Trichloroethane	Averaged		0.20610	0.17963	0.18106	0.22464	0.17756
Trichloroethene	Averaged		0.25453	0.23067	0.22513	0.30177	0.24366
Trichlorofluoromethane	Averaged		0.33429	0.32247	0.29893	0.32380	0.37496
1,2,3-Trichloropropane	Averaged		0.19793	0.16000	0.14914	0.19716	0.15577
1,2,4-Trimethylbenzene	Averaged		2.38448	2.11887	1.99679	2.58695	2.08212
1,3,5-Trimethylbenzene	Averaged		2.38914	2.09376	1.98514	2.55591	2.09437
Vinyl acetate	Averaged		0.42299	0.41490	0.40495	0.42836	0.46121

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-3
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV1A GC Column: Col 1 SDG No.: 50336749
 Calibration Date(s): 02/07/2023 02/07/2023 Calibration Time(s): 13:34 17:07

LAB FILE ID

CAL1 = A020723CAL.BVA01CAL1.D CAL2 = A020723CAL.BVA02CAL2.D CAL3 = A020723CAL.BVA03CAL3.D
 CAL4 = A020723CAL.BVA04CAL4.D CAL5 = A020723CAL.BVA05CAL5.D CAL6 = A020723CAL.BVA06CAL6.D
 CAL7 = A020723CAL.BVA07CAL7.D CAL8 = A020723CAL.BVA08CAL8.D

COMPOUND	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5	CAL6
Vinyl chloride	Averaged		0.18885	0.21530	0.19074	0.21446	0.24276
m&p-Xylene	Averaged		0.66291	0.55844	0.51761	0.66159	0.54073
o-Xylene	Averaged		0.60564	0.53121	0.48532	0.62660	0.51435
4-Bromofluorobenzene (S)	Averaged	0.43183	0.43178	0.42968	0.42999	0.42091	0.42245
Dibromofluoromethane (S)	Averaged	0.28334	0.28263	0.28372	0.28453	0.28121	0.28374
Toluene-d8 (S)	Averaged	1.23771	1.25890	1.25123	1.25663	1.25513	1.25945

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

02/20/2023 12:39

MSV - FORM VI VOA-4
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV1A GC Column: Col 1 SDG No.: 50336749
 Calibration Date(s): 02/07/2023 02/07/2023 Calibration Time(s): 13:34 17:07

LAB FILE ID

CAL1 = A020723CAL.BVA01CAL1.D CAL2 = A020723CAL.BVA02CAL2.D CAL3 = A020723CAL.BVA03CAL3.D
 CAL4 = A020723CAL.BVA04CAL4.D CAL5 = A020723CAL.BVA05CAL5.D CAL6 = A020723CAL.BVA06CAL6.D
 CAL7 = A020723CAL.BVA07CAL7.D CAL8 = A020723CAL.BVA08CAL8.D

COMPOUND	CURVE TYPE	CAL7	CAL8
Acetone	Averaged	0.05617	0.04372
Acrolein	Averaged	0.01955	0.01903
Acrylonitrile	Averaged	0.05039	0.04579
Benzene	Averaged	0.76773	0.70459
Bromobenzene	Averaged	0.43386	0.38398
Bromochloromethane	Averaged	0.17401	0.15121
Bromodichloromethane	Averaged	0.29690	0.28584
Bromoform	Averaged	0.45314	0.44808
Bromomethane	Averaged	0.09920	0.09887
2-Butanone (MEK)	Averaged	0.07603	0.06508
n-Butylbenzene	Averaged	1.96549	1.79770
sec-Butylbenzene	Averaged	2.66747	2.43421
tert-Butylbenzene	Averaged	1.94981	1.82628
Carbon disulfide	Averaged	0.44340	0.39864
Carbon tetrachloride	Averaged	0.40041	0.38515
Chlorobenzene	Averaged	0.82632	0.75334
Chloroethane	Averaged	0.10131	0.09100
Chloroform	Averaged	0.38699	0.36659
Chloromethane	Averaged	0.25414	0.26282
2-Chlorotoluene	Averaged	1.60723	1.49510
4-Chlorotoluene	Averaged	0.61419	0.58377
Dibromochloromethane	Averaged	0.35200	0.33346
1,2-Dibromoethane (EDB)	Averaged	0.24996	0.23144
Dibromomethane	Averaged	0.13241	0.12612
1,2-Dichlorobenzene	Averaged	1.19119	1.14145
1,3-Dichlorobenzene	Averaged	1.29551	1.23993
1,4-Dichlorobenzene	Averaged	1.26602	1.21940
trans-1,4-Dichloro-2-butene	Averaged	0.08079	0.07226
Dichlorodifluoromethane	Averaged	0.27985	0.28443
1,1-Dichloroethane	Averaged	0.36369	0.33487
1,2-Dichloroethane	Averaged	0.26156	0.24621
1,1-Dichloroethene	Averaged	0.15719	0.14074
cis-1,2-Dichloroethene	Averaged	0.24432	0.23120
trans-1,2-Dichloroethene	Averaged	0.21250	0.19321
1,2-Dichloropropane	Averaged	0.20629	0.19439

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-5
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV1A GC Column: Col 1 SDG No.: 50336749
 Calibration Date(s): 02/07/2023 02/07/2023 Calibration Time(s): 13:34 17:07

LAB FILE ID

CAL1 = A020723CAL.BVA01CAL1.D CAL2 = A020723CAL.BVA02CAL2.D CAL3 = A020723CAL.BVA03CAL3.D
 CAL4 = A020723CAL.BVA04CAL4.D CAL5 = A020723CAL.BVA05CAL5.D CAL6 = A020723CAL.BVA06CAL6.D
 CAL7 = A020723CAL.BVA07CAL7.D CAL8 = A020723CAL.BVA08CAL8.D

COMPOUND	CURVE TYPE	CAL7	CAL8
1,3-Dichloropropane	Averaged	0.35150	0.32078
2,2-Dichloropropane	Averaged	0.30202	0.29147
1,1-Dichloropropene	Averaged	0.27621	0.26072
cis-1,3-Dichloropropene	Averaged	0.42225	0.39649
trans-1,3-Dichloropropene	Averaged	0.36898	0.34638
Ethylbenzene	Averaged	0.42116	0.38449
Ethyl methacrylate	Averaged	0.24738	0.23204
Hexachloro-1,3-butadiene	Averaged	0.49962	0.51846
n-Hexane	Averaged	0.33047	0.30523
2-Hexanone	Averaged	0.15630	0.13635
Iodomethane	Averaged	0.22333	0.21394
Isopropylbenzene (Cumene)	Averaged	1.33477	1.17474
p-Isopropyltoluene	Averaged	2.34177	2.17975
Methylene Chloride	Averaged	0.17454	0.16130
1-Methylnaphthalene	Averaged	0.87505	0.91000
2-Methylnaphthalene	Averaged	1.00301	1.04497
4-Methyl-2-pentanone (MIBK)	Averaged	0.22510	0.20163
Methyl-tert-butyl ether	Averaged	0.41642	0.38727
Naphthalene	Averaged	1.66583	1.59994
n-Propylbenzene	Averaged	2.75975	2.50873
Styrene	Averaged	0.81421	0.73005
1,1,1,2-Tetrachloroethane	Averaged	0.34477	0.32646
1,1,2,2-Tetrachloroethane	Averaged	0.47833	0.43907
Tetrachloroethene	Averaged	0.40887	0.39725
Toluene	Averaged	1.17570	1.06788
1,2,3-Trichlorobenzene	Averaged	0.84109	0.84728
1,2,4-Trichlorobenzene	Averaged	0.93033	0.95207
1,1,1-Trichloroethane	Averaged	0.39560	0.38409
1,1,2-Trichloroethane	Averaged	0.18184	0.16657
Trichloroethene	Averaged	0.25327	0.24504
Trichlorofluoromethane	Averaged	0.34103	0.31642
1,2,3-Trichloropropane	Averaged	0.16361	0.15413
1,2,4-Trimethylbenzene	Averaged	2.00489	1.87194
1,3,5-Trimethylbenzene	Averaged	2.03050	1.89293
Vinyl acetate	Averaged	0.42492	0.41426

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-6
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV1A GC Column: Col 1 SDG No.: 50336749
 Calibration Date(s): 02/07/2023 02/07/2023 Calibration Time(s): 13:34 17:07

LAB FILE ID

CAL1 = A020723CAL.BVA01CAL1.D CAL2 = A020723CAL.BVA02CAL2.D CAL3 = A020723CAL.BVA03CAL3.D
 CAL4 = A020723CAL.BVA04CAL4.D CAL5 = A020723CAL.BVA05CAL5.D CAL6 = A020723CAL.BVA06CAL6.D
 CAL7 = A020723CAL.BVA07CAL7.D CAL8 = A020723CAL.BVA08CAL8.D

COMPOUND	CURVE TYPE	CAL7	CAL8
Vinyl chloride	Averaged	0.23059	0.23486
m&p-Xylene	Averaged	0.52199	0.47362
o-Xylene	Averaged	0.49733	0.44950
4-Bromofluorobenzene (S)	Averaged	0.40254	0.39086
Dibromofluoromethane (S)	Averaged	0.28392	0.28590
Toluene-d8 (S)	Averaged	1.22877	1.23023

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-7
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV1A GC Column: Col 1 SDG No.: 50336749
 Calibration Date(s): 02/07/2023 02/07/2023 Calibration Time(s): 13:34 17:07

LAB FILE ID

CAL1 = A020723CAL.BVA01CAL1.D CAL2 = A020723CAL.BVA02CAL2.D CAL3 = A020723CAL.BVA03CAL3.D
 CAL4 = A020723CAL.BVA04CAL4.D CAL5 = A020723CAL.BVA05CAL5.D CAL6 = A020723CAL.BVA06CAL6.D
 CAL7 = A020723CAL.BVA07CAL7.D CAL8 = A020723CAL.BVA08CAL8.D

COMPOUND	CURVE TYPE	%RSD	R2	A1	A2	A3
Acetone	Averaged	14.23165			0.04939	
Acrolein	Averaged	5.29532			0.01901	
Acrylonitrile	Averaged	9.78063			0.05095	
Benzene	Averaged	10.00791			0.79391	
Bromobenzene	Averaged	13.19291			0.46719	
Bromochloromethane	Averaged	15.21628			0.19303	
Bromodichloromethane	Averaged	9.13515			0.30354	
Bromoform	Averaged	9.68179			0.44053	
Bromomethane	Averaged	7.70231			0.09828	
2-Butanone (MEK)	Averaged	12.11231			0.07370	
n-Butylbenzene	Averaged	12.02345			2.13152	
sec-Butylbenzene	Averaged	11.66584			2.82823	
tert-Butylbenzene	Averaged	10.08950			2.02512	
Carbon disulfide	Averaged	12.94810			0.47128	
Carbon tetrachloride	Averaged	10.38334			0.40045	
Chlorobenzene	Averaged	11.32504			0.87222	
Chloroethane	Averaged	9.18905			0.10094	
Chloroform	Averaged	10.60506			0.40229	
Chloromethane	Averaged	7.50015			0.24188	
2-Chlorotoluene	Averaged	11.82898			1.72128	
4-Chlorotoluene	Averaged	12.32777			0.66991	
Dibromochloromethane	Averaged	9.19938			0.36174	
1,2-Dibromoethane (EDB)	Averaged	12.10021			0.25175	
Dibromomethane	Averaged	9.17558			0.13257	
1,2-Dichlorobenzene	Averaged	10.27587			1.25682	
1,3-Dichlorobenzene	Averaged	9.21895			1.36281	
1,4-Dichlorobenzene	Averaged	10.43846			1.35452	
trans-1,4-Dichloro-2-butene	Averaged	11.82752			0.08293	
Dichlorodifluoromethane	Averaged	8.26708			0.26550	
1,1-Dichloroethane	Averaged	10.27417			0.36613	
1,2-Dichloroethane	Averaged	10.98005			0.26892	
1,1-Dichloroethene	Averaged	12.88646			0.15633	
cis-1,2-Dichloroethene	Averaged	9.43156			0.25023	
trans-1,2-Dichloroethene	Averaged	11.90250			0.22143	
1,2-Dichloropropane	Averaged	9.58241			0.21147	

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-8
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV1A GC Column: Col 1 SDG No.: 50336749
 Calibration Date(s): 02/07/2023 02/07/2023 Calibration Time(s): 13:34 17:07

LAB FILE ID

CAL1 = A020723CAL.BVA01CAL1.D CAL2 = A020723CAL.BVA02CAL2.D CAL3 = A020723CAL.BVA03CAL3.D
 CAL4 = A020723CAL.BVA04CAL4.D CAL5 = A020723CAL.BVA05CAL5.D CAL6 = A020723CAL.BVA06CAL6.D
 CAL7 = A020723CAL.BVA07CAL7.D CAL8 = A020723CAL.BVA08CAL8.D

COMPOUND	CURVE TYPE	%RSD	R2	A1	A2	A3
1,3-Dichloropropane	Averaged	11.77928			0.36951	
2,2-Dichloropropane	Averaged	10.29218			0.29554	
1,1-Dichloropropene	Averaged	10.87456			0.28055	
cis-1,3-Dichloropropene	Averaged	10.36535			0.42656	
trans-1,3-Dichloropropene	Averaged	9.66615			0.36685	
Ethylbenzene	Averaged	12.85583			0.45351	
Ethyl methacrylate	Averaged	10.37809			0.23711	
Hexachloro-1,3-butadiene	Averaged	8.11500			0.49687	
n-Hexane	Averaged	13.05507			0.32530	
2-Hexanone	Averaged	11.21499			0.14967	
Iodomethane	Averaged	13.03148			0.20524	
Isopropylbenzene (Cumene)	Averaged	12.29896			1.41092	
p-Isopropyltoluene	Averaged	11.15245			2.48572	
Methylene Chloride	Averaged	17.39909			0.19843	
1-Methylnaphthalene	Averaged	19.12671			0.73685	
2-Methylnaphthalene	Averaged	19.31499			0.85740	
4-Methyl-2-pentanone (MIBK)	Averaged	10.90609			0.21716	
Methyl-tert-butyl ether	Averaged	9.48275			0.41740	
Naphthalene	Averaged	8.69372			1.64448	
n-Propylbenzene	Averaged	12.46064			2.96712	
Styrene	Averaged	12.61210			0.88864	
1,1,1,2-Tetrachloroethane	Averaged	9.55452			0.34994	
1,1,2,2-Tetrachloroethane	Averaged	11.94146			0.51098	
Tetrachloroethene	Averaged	9.62811			0.41021	
Toluene	Averaged	13.12628			1.26637	
1,2,3-Trichlorobenzene	Averaged	8.82509			0.83197	
1,2,4-Trichlorobenzene	Averaged	7.54879			0.93421	
1,1,1-Trichloroethane	Averaged	9.78344			0.39249	
1,1,2-Trichloroethane	Averaged	10.61407			0.18820	
Trichloroethene	Averaged	9.99766			0.25058	
Trichlorofluoromethane	Averaged	7.21381			0.33027	
1,2,3-Trichloropropane	Averaged	12.19747			0.16825	
1,2,4-Trimethylbenzene	Averaged	11.60499			2.14943	
1,3,5-Trimethylbenzene	Averaged	11.00848			2.14882	
Vinyl acetate	Averaged	4.24004			0.42451	

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-9
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV1A GC Column: Col 1 SDG No.: 50336749
 Calibration Date(s): 02/07/2023 02/07/2023 Calibration Time(s): 13:34 17:07

LAB FILE ID

CAL1 = A020723CAL.BVA01CAL1.D CAL2 = A020723CAL.BVA02CAL2.D CAL3 = A020723CAL.BVA03CAL3.D
 CAL4 = A020723CAL.BVA04CAL4.D CAL5 = A020723CAL.BVA05CAL5.D CAL6 = A020723CAL.BVA06CAL6.D
 CAL7 = A020723CAL.BVA07CAL7.D CAL8 = A020723CAL.BVA08CAL8.D

COMPOUND	CURVE TYPE	%RSD	R2	A1	A2	A3
Vinyl chloride	Averaged	9.70950			0.21680	
m&p-Xylene	Averaged	12.97423			0.56241	
o-Xylene	Averaged	12.14142			0.52999	
4-Bromofluorobenzene (S)	Averaged	3.63689			0.42000	
Dibromofluoromethane (S)	Averaged	0.48042			0.28362	
Toluene-d8 (S)	Averaged	1.03778			1.24726	

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VII VOA-1
MSV CONTINUING CALIBRATION DATA

SAMPLE NO.

22389029CCV

Lab Name: Pace Analytical - Indiana

Calibration Date: 02/07/2023 Time: 00:20

Instrument ID: 50MV1A GC Column: Col 1

Init. Calib. Date(s): 01/20/2023 01/20/2023

Lab File ID: A020623.B\C02LCSSCCV.D

Init. Calib. Time(s): 15:26 19:00

SDG No.: 50336749

COMPOUND	CURVE	RRF or Amount	RRF or Amount	MIN RRF	%D	MAX %D
Acetone	Averaged	0.05055	0.04346	0.0100	-14.0249	20.0000
Acrolein	Averaged	0.02903	0.02376	0.0000	-18.1443	20.0000
Acrylonitrile	Averaged	0.06603	0.05400	0.0000	-18.2192	20.0000
Benzene	Averaged	0.99795	0.79223	0.5000	-20.6141	20.0000
Bromobenzene	Averaged	0.64594	0.49233	0.0000	-23.7799	20.0000
Bromochloromethane	Averaged	0.22736	0.18498	0.1000	-18.6395	20.0000
Bromodichloromethane	Averaged	0.31842	0.26428	0.2000	-17.0001	20.0000
Bromoform	Averaged	0.37776	0.31612	0.1000	-16.3168	20.0000
Bromomethane	Averaged	0.14012	0.14463	0.1000	3.2249	20.0000
2-Butanone (MEK)	Averaged	0.07977	0.06281	0.0100	-21.2651	20.0000
n-Butylbenzene	Averaged	3.11052	2.44136	0.0000	-21.5127	20.0000
sec-Butylbenzene	Averaged	3.69626	2.97737	0.0000	-19.4493	20.0000
tert-Butylbenzene	Averaged	2.41256	1.90801	0.0000	-20.9135	20.0000
Carbon disulfide	Averaged	0.70460	0.61864	0.1000	-12.1994	20.0000
Carbon tetrachloride	Averaged	0.31235	0.24087	0.1000	-22.8871	20.0000
Chlorobenzene	Averaged	0.87147	0.68630	0.5000	-21.2476	20.0000
Chloroethane	Averaged	0.17663	0.15769	0.1000	-10.7208	20.0000
Chloroform	Averaged	0.43828	0.35105	0.2000	-19.9011	20.0000
Chloromethane	Averaged	0.35644	0.27790	0.1000	-22.0325	20.0000
2-Chlorotoluene	Averaged	2.45975	1.91865	0.0000	-21.9982	20.0000
4-Chlorotoluene	Averaged	0.75424	0.59461	0.0000	-21.1648	20.0000
Dibromochloromethane	Averaged	0.30360	0.26126	0.1000	-13.9452	20.0000
1,2-Dibromoethane (EDB)	Averaged	0.24510	0.21761	0.1000	-11.2154	20.0000
Dibromomethane	Averaged	0.12729	0.10579	0.0000	-16.8897	20.0000
1,2-Dichlorobenzene	Averaged	1.22132	0.96349	0.4000	-21.1105	20.0000
1,3-Dichlorobenzene	Averaged	1.32610	1.01133	0.6000	-23.7370	20.0000
1,4-Dichlorobenzene	Averaged	1.28895	0.99836	0.5000	-22.5449	20.0000
trans-1,4-Dichloro-2-butene	Averaged	0.09823	0.07806	0.0000	-20.5303	20.0000
Dichlorodifluoromethane	Averaged	0.35095	0.15796	0.1000	-54.9915	20.0000
1,1-Dichloroethane	Averaged	0.48678	0.38246	0.2000	-21.4308	20.0000
1,2-Dichloroethane	Averaged	0.29456	0.23896	0.1000	-18.8749	20.0000
1,1-Dichloroethene	Averaged	0.17771	0.15317	0.1000	-13.8095	20.0000
cis-1,2-Dichloroethene	Averaged	0.25551	0.20182	0.1000	-21.0141	20.0000
trans-1,2-Dichloroethene	Averaged	0.22878	0.18328	0.1000	-19.8889	20.0000
1,2-Dichloropropane	Averaged	0.28404	0.21951	0.1000	-22.7190	20.0000

* - Value lies outside of established control limits.

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

02/20/2023 12:39

MSV - FORM VII VOA-2
MSV CONTINUING CALIBRATION DATA

SAMPLE NO.

22389029CCV

Lab Name: Pace Analytical - Indiana

Calibration Date: 02/07/2023 Time: 00:20

Instrument ID: 50MV1A GC Column: Col 1

Init. Calib. Date(s): 01/20/2023 01/20/2023

Lab File ID: A020623.B\C02LCSSCCV.D

Init. Calib. Time(s): 15:26 19:00

SDG No.: 50336749

COMPOUND	CURVE	RRF or Amount	RRF or Amount	MIN RRF	%D	MAX %D
1,3-Dichloropropane	Averaged	0.51268	0.43028	0.0000	-16.0726	20.0000
2,2-Dichloropropane	Averaged	0.33591	0.25257	0.0000	-24.8099	20.0000
1,1-Dichloropropene	Averaged	0.35501	0.28321	0.0000	-20.2257	20.0000
cis-1,3-Dichloropropene	Averaged	0.60765	0.50333	0.2000	-17.1669	20.0000
trans-1,3-Dichloropropene	Averaged	0.50071	0.41343	0.1000	-17.4324	20.0000
Ethylbenzene	Averaged	0.48625	0.38708	0.1000	-20.3939	20.0000
Ethyl methacrylate	Averaged	0.35570	0.29868	0.0000	-16.0290	20.0000
Hexachloro-1,3-butadiene	Averaged	0.48106	0.33172	0.0000	-31.0445	20.0000
n-Hexane	Averaged	0.45345	0.32469	0.0000	-28.3969	20.0000
2-Hexanone	Averaged	0.19127	0.14868	0.0500	-22.2687	20.0000
Iodomethane	Averaged	0.18289	0.14150	0.0000	-22.6299	20.0000
Isopropylbenzene (Cumene)	Averaged	1.50646	1.19329	0.1000	-20.7884	20.0000
p-Isopropyltoluene	Averaged	2.94998	2.27910	0.0000	-22.7416	20.0000
Methylene Chloride	Wt Linear	50	42.45007	0.1000	-15.0999	20.0000
1-Methylnaphthalene	Averaged	0.60014	0.52204	0.0000	-13.0142	20.0000
2-Methylnaphthalene	Averaged	0.80708	0.54546	0.0000	-32.4148	20.0000
4-Methyl-2-pentanone (MIBK)	Averaged	0.27701	0.22105	0.0500	-20.2016	20.0000
Methyl-tert-butyl ether	Averaged	0.51419	0.43953	0.1000	-14.5199	20.0000
Naphthalene	Averaged	1.74245	1.42104	0.0000	-18.4457	20.0000
n-Propylbenzene	Averaged	4.34345	3.50651	0.0000	-19.2690	20.0000
Styrene	Averaged	0.97518	0.78964	0.3000	-19.0268	20.0000
1,1,1,2-Tetrachloroethane	Averaged	0.29405	0.24601	0.0000	-16.3393	20.0000
1,1,2,2-Tetrachloroethane	Averaged	0.79296	0.65065	0.3000	-17.9469	20.0000
Tetrachloroethene	Averaged	0.30937	0.23564	0.2000	-23.8317	20.0000
Toluene	Averaged	1.60616	1.21723	0.4000	-24.2147	20.0000
1,2,3-Trichlorobenzene	Averaged	0.70841	0.51543	0.0000	-27.2410	20.0000
1,2,4-Trichlorobenzene	Averaged	0.80196	0.54641	0.2000	-31.8654	20.0000
1,1,1-Trichloroethane	Averaged	0.35975	0.28428	0.1000	-20.9785	20.0000
1,1,2-Trichloroethane	Averaged	0.24140	0.20656	0.1000	-14.4322	20.0000
Trichloroethene	Averaged	0.24805	0.19612	0.2000	-20.9354	20.0000
Trichlorofluoromethane	Averaged	0.33059	0.26727	0.1000	-19.1512	20.0000
1,2,3-Trichloropropane	Averaged	0.19127	0.15920	0.0000	-16.7639	20.0000
1,2,4-Trimethylbenzene	Averaged	2.80514	2.17142	0.0000	-22.5914	20.0000
1,3,5-Trimethylbenzene	Averaged	2.79350	2.18743	0.0000	-21.6956	20.0000
Vinyl acetate	Averaged	0.46442	0.32469	0.0000	-30.0879	20.0000

* - Value lies outside of established control limits.

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

02/20/2023 12:39

MSV - FORM VII VOA-3
MSV CONTINUING CALIBRATION DATA

SAMPLE NO.

22389029CCV

Lab Name: Pace Analytical - Indiana Calibration Date: 02/07/2023 Time: 00:20
 Instrument ID: 50MV1A GC Column: Col 1 Init. Calib. Date(s): 01/20/2023 01/20/2023
 Lab File ID: A020623.B\C02LCSSCCV.D Init. Calib. Time(s): 15:26 19:00
 SDG No.: 50336749

COMPOUND	CURVE	RRF or Amount	RRF or Amount	MIN RRF	%D	MAX %D
Vinyl chloride	Averaged	0.36449	0.26392	0.1000	-27.5912	20.0000
m&p-Xylene	Averaged	0.60408	0.95393	0.1000	57.9129*	20.0000
o-Xylene	Averaged	0.57343	0.45699	0.3000	-20.3070	20.0000
4-Bromofluorobenzene (S)	Averaged	0.49398	0.47532	0.1000	-3.7759	20.0000
Dibromofluoromethane (S)	Averaged	0.23722	0.23643	0.1000	-0.3321	20.0000
Toluene-d8 (S)	Averaged	1.43152	1.44760	0.1000	1.1231	20.0000

* - Value lies outside of established control limits.

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

02/20/2023 12:39

MSV - FORM VII VOA-1
MSV CONTINUING CALIBRATION DATA

SAMPLE NO.

22397175CCV

Lab Name: Pace Analytical - Indiana

Calibration Date: 02/07/2023 Time: 23:42

Instrument ID: 50MV1A GC Column: Col 1

Init. Calib. Date(s): 02/07/2023 02/07/2023

Lab File ID: A020723CAL.BIC01CCV.D

Init. Calib. Time(s): 13:34 17:07

SDG No.: 50336749

COMPOUND	CURVE	RRF or Amount	RRF or Amount	MIN RRF	%D	MAX %D
Acetone	Averaged	0.04939	0.04858	0.0100	-1.6357	20.0000
Acrolein	Averaged	0.01901	0.01842	0.0000	-3.0991	20.0000
Acrylonitrile	Averaged	0.05095	0.05517	0.0000	8.2653	20.0000
Benzene	Averaged	0.79391	0.82231	0.5000	3.5776	20.0000
Bromobenzene	Averaged	0.46719	0.47138	0.0000	0.8977	20.0000
Bromochloromethane	Averaged	0.19303	0.20330	0.1000	5.3179	20.0000
Bromodichloromethane	Averaged	0.30354	0.31256	0.2000	2.9705	20.0000
Bromoform	Averaged	0.44053	0.45629	0.1000	3.5774	20.0000
Bromomethane	Averaged	0.09828	0.10399	0.1000	5.8134	20.0000
2-Butanone (MEK)	Averaged	0.07370	0.07855	0.0100	6.5873	20.0000
n-Butylbenzene	Averaged	2.13152	1.92985	0.0000	-9.4614	20.0000
sec-Butylbenzene	Averaged	2.82823	2.77909	0.0000	-1.7376	20.0000
tert-Butylbenzene	Averaged	2.02512	2.05073	0.0000	1.2650	20.0000
Carbon disulfide	Averaged	0.47128	0.49617	0.1000	5.2815	20.0000
Carbon tetrachloride	Averaged	0.40045	0.42523	0.1000	6.1895	20.0000
Chlorobenzene	Averaged	0.87222	0.88099	0.5000	1.0049	20.0000
Chloroethane	Averaged	0.10094	0.10591	0.1000	4.9215	20.0000
Chloroform	Averaged	0.40229	0.41661	0.2000	3.5608	20.0000
Chloromethane	Averaged	0.24188	0.23397	0.1000	-3.2726	20.0000
2-Chlorotoluene	Averaged	1.72128	1.65088	0.0000	-4.0903	20.0000
4-Chlorotoluene	Averaged	0.66991	0.62656	0.0000	-6.4707	20.0000
Dibromochloromethane	Averaged	0.36174	0.38300	0.1000	5.8771	20.0000
1,2-Dibromoethane (EDB)	Averaged	0.25175	0.26728	0.1000	6.1678	20.0000
Dibromomethane	Averaged	0.13257	0.14111	0.0000	6.4478	20.0000
1,2-Dichlorobenzene	Averaged	1.25682	1.20387	0.4000	-4.2128	20.0000
1,3-Dichlorobenzene	Averaged	1.36281	1.27045	0.6000	-6.7766	20.0000
1,4-Dichlorobenzene	Averaged	1.35452	1.23857	0.5000	-8.5604	20.0000
trans-1,4-Dichloro-2-butene	Averaged	0.08293	0.08277	0.0000	-0.1880	20.0000
Dichlorodifluoromethane	Averaged	0.26550	0.26029	0.1000	-1.9635	20.0000
1,1-Dichloroethane	Averaged	0.36613	0.38583	0.2000	5.3790	20.0000
1,2-Dichloroethane	Averaged	0.26892	0.27780	0.1000	3.3042	20.0000
1,1-Dichloroethene	Averaged	0.15633	0.16921	0.1000	8.2423	20.0000
cis-1,2-Dichloroethene	Averaged	0.25023	0.26102	0.1000	4.3143	20.0000
trans-1,2-Dichloroethene	Averaged	0.22143	0.22495	0.1000	1.5890	20.0000
1,2-Dichloropropane	Averaged	0.21147	0.21728	0.1000	2.7493	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

02/20/2023 12:39

MSV - FORM VII VOA-2
MSV CONTINUING CALIBRATION DATA

SAMPLE NO.

22397175CCV

Lab Name: Pace Analytical - Indiana

Calibration Date: 02/07/2023 Time: 23:42

Instrument ID: 50MV1A GC Column: Col 1

Init. Calib. Date(s): 02/07/2023 02/07/2023

Lab File ID: A020723CAL.B\C01CCV.D

Init. Calib. Time(s): 13:34 17:07

SDG No.: 50336749

COMPOUND	CURVE	RRF or Amount	RRF or Amount	MIN RRF	%D	MAX %D
1,3-Dichloropropane	Averaged	0.36951	0.38275	0.0000	3.5818	20.0000
2,2-Dichloropropane	Averaged	0.29554	0.29385	0.0000	-0.5715	20.0000
1,1-Dichloropropene	Averaged	0.28055	0.29109	0.0000	3.7594	20.0000
cis-1,3-Dichloropropene	Averaged	0.42656	0.42732	0.2000	0.1793	20.0000
trans-1,3-Dichloropropene	Averaged	0.36685	0.36868	0.1000	0.4985	20.0000
Ethylbenzene	Averaged	0.45351	0.46446	0.1000	2.4143	20.0000
Ethyl methacrylate	Averaged	0.23711	0.24952	0.0000	5.2337	20.0000
Hexachloro-1,3-butadiene	Averaged	0.49687	0.43796	0.0000	-11.8566	20.0000
n-Hexane	Averaged	0.32530	0.34817	0.0000	7.0300	20.0000
2-Hexanone	Averaged	0.14967	0.16232	0.0500	8.4508	20.0000
Iodomethane	Averaged	0.20524	0.22216	0.0000	8.2410	20.0000
Isopropylbenzene (Cumene)	Averaged	1.41092	1.46126	0.1000	3.5678	20.0000
p-Isopropyltoluene	Averaged	2.48572	2.35647	0.0000	-5.1998	20.0000
Methylene Chloride	Averaged	0.19843	0.19032	0.1000	-4.0875	20.0000
1-Methylnaphthalene	Averaged	0.73685	0.73793	0.0000	0.1464	20.0000
2-Methylnaphthalene	Averaged	0.85740	0.79518	0.0000	-7.2575	20.0000
4-Methyl-2-pentanone (MIBK)	Averaged	0.21716	0.24162	0.0500	11.2645	20.0000
Methyl-tert-butyl ether	Averaged	0.41740	0.43679	0.1000	4.6448	20.0000
Naphthalene	Averaged	1.64448	1.67453	0.0000	1.8275	20.0000
n-Propylbenzene	Averaged	2.96712	2.87235	0.0000	-3.1942	20.0000
Styrene	Averaged	0.88864	0.90519	0.3000	1.8622	20.0000
1,1,1,2-Tetrachloroethane	Averaged	0.34994	0.36468	0.0000	4.2141	20.0000
1,1,2,2-Tetrachloroethane	Averaged	0.51098	0.51676	0.3000	1.1312	20.0000
Tetrachloroethene	Averaged	0.41021	0.41036	0.2000	0.0354	20.0000
Toluene	Averaged	1.26637	1.27197	0.4000	0.4424	20.0000
1,2,3-Trichlorobenzene	Averaged	0.83197	0.74869	0.0000	-10.0102	20.0000
1,2,4-Trichlorobenzene	Averaged	0.93421	0.77586	0.2000	-16.9503	20.0000
1,1,1-Trichloroethane	Averaged	0.39249	0.41368	0.1000	5.3978	20.0000
1,1,2-Trichloroethane	Averaged	0.18820	0.19394	0.1000	3.0522	20.0000
Trichloroethene	Averaged	0.25058	0.25833	0.2000	3.0912	20.0000
Trichlorofluoromethane	Averaged	0.33027	0.33091	0.1000	0.1946	20.0000
1,2,3-Trichloropropane	Averaged	0.16825	0.16910	0.0000	0.5044	20.0000
1,2,4-Trimethylbenzene	Averaged	2.14943	2.04923	0.0000	-4.6618	20.0000
1,3,5-Trimethylbenzene	Averaged	2.14882	2.08650	0.0000	-2.9003	20.0000
Vinyl acetate	Averaged	0.42451	0.41058	0.0000	-3.2819	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

02/20/2023 12:39

MSV - FORM VII VOA-3
MSV CONTINUING CALIBRATION DATA

SAMPLE NO.

22397175CCV

Lab Name: Pace Analytical - Indiana Calibration Date: 02/07/2023 Time: 23:42
 Instrument ID: 50MV1A GC Column: Col 1 Init. Calib. Date(s): 02/07/2023 02/07/2023
 Lab File ID: A020723CAL.B\C01CCV.D Init. Calib. Time(s): 13:34 17:07
 SDG No.: 50336749

COMPOUND	CURVE	RRF or Amount	RRF or Amount	MIN RRF	%D	MAX %D
Vinyl chloride	Averaged	0.21680	0.21273	0.1000	-1.8764	20.0000
m&p-Xylene	Averaged	0.56241	0.55735	0.1000	-0.9004	20.0000
o-Xylene	Averaged	0.52999	0.53900	0.3000	1.6998	20.0000
4-Bromofluorobenzene (S)	Averaged	0.42000	0.42479	0.1000	1.1390	20.0000
Dibromofluoromethane (S)	Averaged	0.28362	0.28443	0.1000	0.2831	20.0000
Toluene-d8 (S)	Averaged	1.24726	1.24746	0.1000	0.0165	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

02/20/2023 12:39

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mv1a.i
Column DB-624 20m X 0.18mm Helium
Misc. Prep Info [L]:
Misc. Prep Info [S]: 304521
ISTD lot:
Lot:
Tune std: _____

Method:
Surr. lot: 334271:5
Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	pH	Method/Sublist	Date	Time	Oper	Comments
1/a00bfb.d	8260-TUNE, 336450	L/166193	BFB	1	7	-bfb/all	1/20/23	14:04	TMW	Good
1/a01.d	RINSE	L/	SAMPLE	1	<2	-a8260_a_c/all	1/20/23	14:55	TMW	
1/a02cal1.d	8260-CAL1, 336451	L/166193	CALIB_1	1	<2	-a8260_a_c/all	1/20/23	15:26	TMW	
1/a03cal2.d	8260-CAL2, 336452	L/166193	CALIB_2	1	<2	-a8260_a_c/all	1/20/23	15:57	TMW	
1/a04cal3.d	8260-CAL3, 336453	L/166193	CALIB_3	1	<2	-a8260_a_c/all	1/20/23	16:27	TMW	
1/a04cal3lqc.d	8260-CAL3, 336453	L/166193	LQC	1	<2	-a8260_a_c/all	1/20/23	16:27	TMW	
1/a05cal4.d	8260-CAL4, 336454	L/166193	CALIB_4	1	<2	-a8260_a_c/all	1/20/23	16:58	TMW	
1/a06cal5.d	8260-CAL5, 336455	L/166193	CALIB_5	1	<2	-a8260_a_c/all	1/20/23	17:28	TMW	
1/a07cal6.d	8260-CAL6, 336456	L/166193	CALIB_6	1	<2	-a8260_a_c/all	1/20/23	17:59	TMW	
1/a07cal6mqc.d	8260-CAL6, 336456	L/166193	MQC	1	<2	-a8260_a_c/all	1/20/23	17:59	TMW	
1/a08cal7.d	8260-CAL7, 336457	L/166193	CALIB_7	1	<2	-a8260_a_c/all	1/20/23	18:30	TMW	
1/a09cal8.d	8260-CAL8, 336458	L/166193	CALIB_8	1	<2	-a8260_a_c/all	1/20/23	19:00	TMW	
1/a10.d	RINSE	L/	SAMPLE	1	<2	-a8260_a_c/all	1/20/23	19:31	TMW	
1/a11icv.d	8260-ICV, 336459	L/166193	ICV	1	<2	-a8260_a_c/all	1/20/23	20:01	TMW	
1/a12.d	RINSE	L/	SAMPLE	1	<2	-a8260_a_c/all	1/20/23	20:32	TMW	
1/a13.d	SOIL1	L/	SAMPLE	1	<2	-a8260_a_c/all	1/20/23	21:03	TMW	
1/a14.d	WATER1	L/	SAMPLE	1	<2	-a8260_a_c/all	1/20/23	21:33	TMW	
1/a15.d	SOIL5	L/	SAMPLE	1	<2	-a8260_a_c/all	1/20/23	22:04	TMW	
1/c00bfb.d	8260-TUNE, 336450	L/166193	BFB	1	7	-bfb/all	1/20/23	22:35	TMW	Good
1/c01ccv.d	8260-CCV, 336460	L/166193	CCALIB_6	1	7	-a8260_a_c/all	1/20/23	23:05	TMW	
1/c02lcss.d	8260-LCS, 336287	S/	LCS	1		-a8260_a_c/826	1/20/23	23:36	TMW	
1/c03mbs.d	mb	S/	BLANK	1		-a8260_a_c/all	1/21/23	00:06	TMW	
1/c04.d	3285948, 334894:5	S/166151	MS	1		-a8260_a_c/826	1/21/23	00:37	TMW	
1/c05.d	3285949, 334894:5	S/166151	MSD	1	5.29	-a8260_a_c/826	1/21/23	01:08	TMW	
1/c06.d	50335420018	S/166178	SAMPLE	1	5.38	-a8260_a_c/all	1/21/23	01:38	TMW	VAP ✓
1/c07.d	50335418001	S/166178	SAMPLE	1		-a8260_a_c/all	1/21/23	02:09	TMW	✓
1/c08.d	50335625030	S/166179	SAMPLE	1		-a8260_a_c/all	1/21/23	02:40	TMW	0250X124
1/c09.d	50335625031	S/166179	SAMPLE	1		-a8260_a_c/all	1/21/23	03:10	TMW	0250X124
1/c10.d	50335507001	S/166179	SAMPLE	1		-a8260_a_c/all	1/21/23	03:41	TMW	✓
1/c11.d	50335507002	S/166179	SAMPLE	1		-a8260_a_c/all	1/21/23	04:11	TMW	✓

Comments: All water samples have a pH below 2 unless otherwise noted.

Samples for 624.1 are collected in unpreserved vials and analyzed within 7 days.

File Path 1: \\192.168.50.6\chem\50mv1a.i\A012023cal.b
Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one
Report Date: 14:17 01/23/2023

Reviewed By/Date: _____ Page: 1 of 2

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mv1a.i

Column DB-624 20m X 0.18mm Helium

Method:

Misc. Prep Info [L]:

Misc. Prep Info [S]: 304521

ISTD lot:

Surr. lot: 334271.5

Lot:

Tune std: _____

Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	pH	Method/Sublist	Date	Time	Oper	Comments
1/c12.d	50335507003	S/166179	SAMPLE	1		-a8260_a_c/all	1/21/23	04:42	TMW	✓
1/c13.d	50335507004	S/166179	SAMPLE	1		-a8260_a_c/all	1/21/23	05:12	TMW	✓
1/c14.d	50335507005	S/166179	SAMPLE	1		-a8260_a_c/all	1/21/23	05:43	TMW	✓
1/c15.d	50335765001	S/166178	SAMPLE	1		-a8260_a_c/all	1/21/23	06:13	TMW	✓
1/c16.d	50335765002	S/166178	SAMPLE	1		-a8260_a_c/all	1/21/23	06:44	TMW	✓
1/c17.d	50335765003	S/166178	SAMPLE	1		-a8260_a_c/all	1/21/23	07:14	TMW	✓
1/c18.d	50335765004	S/166178	SAMPLE	1		-a8260_a_c/all	1/21/23	07:45	TMW	✓
1/c19.d	50335765005	S/166178	SAMPLE	1		-a8260_a_c/all	1/21/23	08:15	TMW	✓
1/c20.d	50335773007	S/166179	SAMPLE	1		-a8260_a_c/all	1/21/23	08:45	TMW	✓
1/c21.d	50335773008	S/166179	SAMPLE	1		-a8260_a_c/all	1/21/23	09:16	TMW	✓
1/c22.d	50335773009	S/166179	SAMPLE	1		-a8260_a_c/all	1/21/23	09:46	TMW	✓
1/c23.d	50335773012	S/166179	SAMPLE	1		-a8260_a_c/all	1/21/23	10:17	TMW	✓

Comments: All water samples have a pH below 2 unless otherwise noted.
Samples for 624.1 are collected in unpreserved vials and analyzed within 7 days.

File Path 1: \\192.168.50.6\chem\50mv1a.i\A012023cal.b

Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one

Report Date: 14:17 01/23/2023

Reviewed By/Date: _____ Page: 2 of 2

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mv1a.1
Column DB-624 20m X 0.18mm Helium
Misc. Prep Info [L]:
Misc. Prep Info [S]: 304521
ISTD lot:
Lot:
Tune std: _____

Method:
Surr. lot: 336848:5
Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	pH	Method/Sublist	Date	Time	Oper	Comments
1/a00.X	RINSE	L/	SAMPLE	1	<2	-a8260_a_c/all	2/06/23	10:39	TMW	Ring
1/a01bfb.d	8260-TUNE, 336849	L/166193	BFB	1	7	-bfb/all	2/06/23	11:10	TMW	Good
1/a02ccv.d	8260-CCV, 337371:	L/166193	CCALIB_6	1	7	-a8260_a_c/all	2/06/23	11:40	TMW	2nd
1/a03lcss.d	3294104, 336287:5	S/166478	LCS	1		-a8260_a_c/826	2/06/23	12:11	TMW	e
1/a04mbs.d	3294103	S/166478	BLANK	1		-a8260_a_c/all	2/06/23	12:41	TMW	✓
1/a05.d	50336019001x500	S/166449	SAMPLE	500		-a8260_a_c/all	2/06/23	13:11	TMW	✓
1/a06.d	50336369002x50, u	S/166348	SAMPLE	50		-a8260_a_c/ust	2/06/23	13:42	TMW	✓
1/a07.d	50336369005x200,	S/166348	SAMPLE	200		-a8260_a_c/ust	2/06/23	14:12	TMW	✓
1/a08.d	50336369002x1.1,	S/166478	SAMPLE	1.1		-a8260_a_c/ust	2/06/23	14:42	TMW	✓
1/a09.d	50336645004	L/166482	SAMPLE	1	<2	-a8260_a_c/all	2/06/23	15:13	TMW	✓
1/a10.d	50336344001x50.1	S/166347	SAMPLE	50.1		-a8260_a_c/all	2/06/23	15:43	TMW	✓
1/a11.d	50336262001x50, u	S/166348	SAMPLE	50		-a8260_a_c/ust	2/06/23	16:14	TMW	✓
1/a12.d	50336538010	S/166483	SAMPLE	1		-a8260_a_c/all	2/06/23	16:44	TMW	✓
1/a13.d	50336637008	S/166483	SAMPLE	1		-a8260_a_c/all	2/06/23	17:14	TMW	2300X
1/a14.d	50336538022x1.1	S/166429	SAMPLE	1.1		-a8260_a_c/all	2/06/23	17:45	TMW	NS
1/a15.X	50336538022x50	S/166429	SAMPLE	50		-a8260_a_c/all	2/06/23	18:15	TMW	NU
1/a16.d	50336637001	S/166483	SAMPLE	1		-a8260_a_c/all	2/06/23	18:45	TMW	✓
1/a17.d	50336596001x100	L/166451	SAMPLE	100	<2	-a8260_a_c/all	2/06/23	19:16	TMW	✓
1/a18.d	50336637003x50	S/166483	SAMPLE	50		-a8260_a_c/all	2/06/23	19:46	TMW	DA
1/a19.d	50336541004x50	S/166458	SAMPLE	50		-a8260_a_c/all	2/06/23	20:17	TMW	✓
1/a20.d	50336637005x1000	S/166452	SAMPLE	1000		-a8260_a_c/all	2/06/23	20:47	TMW	✓
1/a21.d	50336637006x500	S/166452	SAMPLE	500		-a8260_a_c/all	2/06/23	21:17	TMW	✓
1/a22.d	50336538002x50	S/166452	SAMPLE	50		-a8260_a_c/all	2/06/23	21:48	TMW	✓
1/a23.d	50336545001x50	S/166447	SAMPLE	50		-a8260_a_c/all	2/06/23	22:18	TMW	✓
1/a24.d	50336717003, ust	L/166484	SAMPLE	1	<2	-a8260_a_c/ust	2/06/23	22:49	TMW	✓
1/c00bfb.d	8260-TUNE, 336849	L/166193	BFB	1	7	-bfb/all	2/06/23	23:19	TMW	Good
1/c01ccv.X	8260-CCV, 337371:	L/166193	CCALIB_6	1	7	-a8260_a_c/all	2/06/23	23:49	TMW	ISTD + USE LCS AS SC
1/c02lcss.d	8260-LCS, 336287:	S/	LCS	1		-a8260_a_c/826	2/07/23	00:20	TMW	e
1/c02lcssccv.d	8260-CCV, 337915:	S/166193	CCALIB_6	1		-a8260_a_c/all	2/07/23	00:20	TMW	57090 CLEAN ONLY
1/c03mbs.d	mb	S/	BLANK	1		-a8260_a_c/all	2/07/23	00:50	TMW	✓

Comments: All water samples have a pH below 2 unless otherwise noted.
Samples for 624.1 are collected in unpreserved vials and analyzed within 7 days.

TMW 2/7/23

File Path 1: \\192.168.50.6\chem\50mv1a.i\A020623.b
Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one
Report Date: 10:48 02/07/2023

Reviewed By/Date: _____ Page: 1 of 2

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mvl1.i
 Column DB-624 20m X 0.18mm Helium Method:
 Misc. Prep Info [L]:
 Misc. Prep Info [S]: 304521
 ISTD lot: Surr. lot: 336848:5
 Lot:
 Tune std: Cal. std:

Path/File	Smp Info	Mtrx/Batch	Type	DF	pH	Method/Sublist	Date	Time	Oper	Comments
1/c04.d	50336773008,ust	L/166485	SAMPLE	1	<2	-a8260_a_c/ust	2/07/23	01:21	TMW	✓
1/c05.d	50336766004	L/166487	SAMPLE	1	<2	-a8260_a_c/all	2/07/23	01:51	TMW	✓
1/c06.d	3294392,336287:5	L/166487	MS	1	<2	-a8260_a_c/826	2/07/23	02:22	TMW	✓
1/c07.d	3294393,336287:5	L/166487	MSD	1	<2	-a8260_a_c/826	2/07/23	02:52	TMW	✓
1/c08.d	50336766005	L/166487	SAMPLE	1	<2	-a8260_a_c/all	2/07/23	03:22	TMW	✓
1/c09.d	50336766006	L/166487	SAMPLE	1	<2	-a8260_a_c/all	2/07/23	03:53	TMW	✓
1/c10.d	50336766007	L/166487	SAMPLE	1	<2	-a8260_a_c/all	2/07/23	04:23	TMW	✓
1/c11.d	50336766008	L/166487	SAMPLE	1	<2	-a8260_a_c/all	2/07/23	04:54	TMW	✓
1/c12.d	50336749013	S/166486	SAMPLE	1		-a8260_a_c/all	2/07/23	05:24	TMW	✓
1/c13.d	50336749014	S/166486	SAMPLE	1		-a8260_a_c/all	2/07/23	05:55	TMW	✓
1/c14.d	50336749015	S/166486	SAMPLE	1		-a8260_a_c/all	2/07/23	06:25	TMW	✓
1/c15.d	50336749016	S/166486	SAMPLE	1		-a8260_a_c/all	2/07/23	06:56	TMW	✓
1/c16.d	50336749017	S/166486	SAMPLE	1		-a8260_a_c/all	2/07/23	07:26	TMW	✓
1/c17.d	50336749018	S/166486	SAMPLE	1		-a8260_a_c/all	2/07/23	07:56	TMW	✓
1/c18.d	50336749019	S/166486	SAMPLE	1		-a8260_a_c/all	2/07/23	08:27	TMW	✓
1/c19.d	50336749020	S/166486	SAMPLE	1		-a8260_a_c/all	2/07/23	08:57	TMW	✓
1/c20.d	50336749023	S/166486	SAMPLE	1		-a8260_a_c/all	2/07/23	09:27	TMW	✓

pH

Comments: All water samples have a pH below 2 unless otherwise noted.
 Samples for 624.1 are collected in unpreserved vials and analyzed within 7 days.

File Path 1: \\192.168.50.6\chem\50mvl1.i\A020623.b
 Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one
 Report Date: 10:48 02/07/2023

Reviewed By/Date: _____ Page: 2 of 2

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mvl1.i
 Column DB-624 20m X 0.18mm Helium
 Misc. Prep Info [L]:
 Misc. Prep Info [S]: 304521
 ISTD lot:
 Lot:
 Tune std: _____

Method: _____
 Surr. lot: 337928:5
 Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	pH	Method/Sublist	Date	Time	Oper	Comments
1/a00bfb.d	8260-TUNE, 337929	L/166509	BFB	1	7	-bfb/all	2/07/23	13:04	TMW	Good
1/a01cal1.d	8260-CAL1, 337930	L/166509	CALIB_1	1	<2	-a8260_a_c/all	2/07/23	13:34	TMW	Good
1/a02cal2.d	8260-CAL2, 337931	L/166509	CALIB_2	1	<2	-a8260_a_c/all	2/07/23	14:05	TMW	
1/a03cal3.d	8260-CAL3, 337932	L/166509	CALIB_3	1	<2	-a8260_a_c/all	2/07/23	14:35	TMW	
1/a03cal3lqc.d	8260-CAL3, 337932	L/166509	LQC	1	<2	-a8260_a_c/all	2/07/23	14:35	TMW	
1/a04cal4.d	8260-CAL4, 337933	L/166509	CALIB_4	1	<2	-a8260_a_c/all	2/07/23	15:06	TMW	
1/a05cal5.d	8260-CAL5, 337934	L/166509	CALIB_5	1	<2	-a8260_a_c/all	2/07/23	15:36	TMW	
1/a06cal6.d	8260-CAL6, 337935	L/166509	CALIB_6	1	<2	-a8260_a_c/all	2/07/23	16:06	TMW	
1/a06cal6ccv.d	8260-CCV, 337939	L/166509	CCALIB_6	1	7	-a8260_a_c/all	2/07/23	16:06	TMW	
1/a06cal6mqc.d	8260-CAL6, 337935	L/166509	MQC	1	<2	-a8260_a_c/all	2/07/23	16:06	TMW	
1/a07cal7.d	8260-CAL7, 337936	L/166509	CALIB_7	1	<2	-a8260_a_c/all	2/07/23	16:37	TMW	
1/a08cal8.d	8260-CAL8, 337937	L/166509	CALIB_8	1	<2	-a8260_a_c/all	2/07/23	17:07	TMW	
1/a09.d	RINSE	L/	SAMPLE	1	<2	-a8260_a_c/all	2/07/23	17:37	TMW	Good
1/a10icv.d	8260-ICV, 337938	L/166509	ICV	1	<2	-a8260_a_c/all	2/07/23	18:08	TMW	
1/a10icvicsw.d	8260-LCS, 337764	L/	LCS	1	7	-a8260_a_c/all	2/07/23	18:08	TMW	
1/a11mbw.d	mb	L/	BLANK	1	7	-a8260_a_c/all	2/07/23	18:38	TMW	Good
1/a12.d	soil1	L/	SAMPLE	1	<2	-a8260_a_c/all	2/07/23	19:09	TMW	
1/a13.d	water1	L/	SAMPLE	1	<2	-a8260_a_c/all	2/07/23	19:39	TMW	
1/a14.d	soil5	L/	SAMPLE	1	<2	-a8260_a_c/all	2/07/23	20:09	TMW	
1/a15.d	50336737002	L/166501	SAMPLE	1	<2	-a8260_a_c/all	2/07/23	20:40	TMW	
1/a16.d	50336777006,ust	L/166502	SAMPLE	1	<2	-a8260_a_c/ust	2/07/23	21:10	TMW	Good
1/a17.d	50336777007,ust	L/166502	SAMPLE	1	<2	-a8260_a_c/ust	2/07/23	21:40	TMW	
1/a18.d	50336777009,ust	L/166502	SAMPLE	1	<2	-a8260_a_c/ust	2/07/23	22:11	TMW	
1/a19.d	50336717004,ust	L/166502	SAMPLE	1	<2	-a8260_a_c/ust	2/07/23	22:41	TMW	
1/c00bfb.d	8260-TUNE, 337929	L/166509	BFB	1	7	-bfb/all	2/07/23	23:12	TMW	
1/c01ccv.d	8260-CCV, 337939	L/166509	CCALIB_6	1	7	-a8260_a_c/all	2/07/23	23:42	TMW	Good
1/c02lcss.d	8260-LCS, 337764	S/	LCS	1		-a8260_a_c/826	2/08/23	00:13	TMW	
1/c03mbs.d	mb	S/	BLANK	1		-a8260_a_c/all	2/08/23	00:43	TMW	
1/c04.d	50336749021	S/166503	SAMPLE	1		-a8260_a_c/all	2/08/23	01:13	TMW	
1/c05.d	3294721, 337764:5	S/166503	MS	1		-a8260_a_c/826	2/08/23	01:44	TMW	

Comments: All water samples have a pH below 2 unless otherwise noted.
 Samples for 624.1 are collected in unpreserved vials and analyzed within 7 days.

File Path 1: \\192.168.50.6\chem\50mvl1.i\020723cal.b
 Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one
 Report Date: 13:49 02/08/2023

Reviewed By/Date: _____ Page: 1 of 2

MSSV SIM - FORM II SVOA-1
SOLID SEMI-VOLATILE SURROGATE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No.: 50336749 Contract: Hospital #22-286

Instrument ID: 50MSSF

LAB SAMPLE ID	SAMPLE NAME	2FBP	TD14
3293849	3293849BLANK	88	105
3293850	3293850LCS	85	99
50336749001	SP-1 (0-2')	67	74
50336749002	SP-2 (0-2')	65	72
50336749003	SP-3 (0-1')	40	45
50336749004	SP-4 (0-2')	73	85
50336749005	SP-4 Dup (0-2')	69	80
50336749006	SP-4 (8-10')	68	76
50336749007	SP-5 (5-6')	76	86
50336749008	SP-5 (8-10')	75	84
50336749009	SP-6 (0-2')	70	79
50336749010	SP-7 (0-2')	64	72
50336749012	SP-8 (4-5')	56	61
50336749022	SP-9 (0-2')	66	74
50336749024	SP-10 (0-2')	68	76

QC LIMITS

(28-116)

(27-127)

(2FBP) = 2-Fluorobiphenyl (S)

(TD14) = p-Terphenyl-d14 (S)

* Values outside of QC Limits

MSSV SIM - FORM II SVOA-2
SOLID SEMI-VOLATILE SURROGATE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No.: 50336749 Contract: Hospital #22-286

Instrument ID: 50MSSF

LAB SAMPLE ID	SAMPLE NAME	2FBP	TD14
3294082	3294082BLANK	76	94
3294083	3294083LCS	81	95
3294084	3294084MS	90	101
3294085	3294085MSD	80	84
50336749011	SP-8 (0-2')	71	56
50336749025	SP-11 (0-2')	76	81
50336749026	SP-12 (0-1')	55	65
50336749027	SP-13 (0-2')	74	84
50336749028	SP-13 (2-3')	52	53

QC LIMITS

(28-116)

(27-127)

(2FBP) = 2-Fluorobiphenyl (S)

(TD14) = p-Terphenyl-d14 (S)

* Values outside of QC Limits

MSSV SIM - FORM III SVOA-1
SOLID LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana
 Date Extracted: 02/06/2023
 Instrument: 50MSSF
 Lab File ID: 020723.B\3293850.D

Lab Sample ID: 3293850LCS
 Date Analyzed (1): 02/07/2023
 LCS Lot No: 322130
 SDG No.: 50336749

COMPOUND	AMOUNT ADDED (mg/kg)	LCS CONCENTRATION (mg/kg)	LCS %REC	QC LIMITS REC.
Acenaphthene	0.67	0.58	87	50-116
Acenaphthylene	0.67	0.63	94	54-113
Anthracene	0.67	0.58	86	57-121
Benzo(a)anthracene	0.67	0.62	93	58-122
Benzo(a)pyrene	0.67	0.65	98	63-122
Benzo(b)fluoranthene	0.67	0.63	95	63-128
Benzo(g,h,i)perylene	0.67	0.60	90	54-123
Benzo(k)fluoranthene	0.67	0.63	95	58-130
Chrysene	0.67	0.62	93	59-127
Dibenz(a,h)anthracene	0.67	0.60	89	57-127
Fluoranthene	0.67	0.64	96	57-129
Fluorene	0.67	0.61	92	50-123
Indeno(1,2,3-cd)pyrene	0.67	0.61	92	57-125
1-Methylnaphthalene	0.67	0.58	87	49-125
2-Methylnaphthalene	0.67	0.58	87	49-123
Naphthalene	0.67	0.55	82	46-117
Phenanthrene	0.67	0.60	91	58-119
Pyrene	0.67	0.61	92	57-134

Spike Recovery: 0 out of 18 outside limits.

MSSV SIM - FORM III SVOA-1
SOLID LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana
 Date Extracted: 02/06/2023
 Instrument: 50MSSF
 Lab File ID: 020723.B\3294083.D

Lab Sample ID: 3294083LCS
 Date Analyzed (1): 02/07/2023
 LCS Lot No: 322130
 SDG No.: 50336749

COMPOUND	AMOUNT ADDED (mg/kg)	LCS CONCENTRATION (mg/kg)	LCS %REC	QC LIMITS REC.
Acenaphthene	0.67	0.60	90	50-116
Acenaphthylene	0.67	0.65	98	54-113
Anthracene	0.67	0.59	89	57-121
Benzo(a)anthracene	0.67	0.62	93	58-122
Benzo(a)pyrene	0.67	0.64	96	63-122
Benzo(b)fluoranthene	0.67	0.65	97	63-128
Benzo(g,h,i)perylene	0.67	0.58	86	54-123
Benzo(k)fluoranthene	0.67	0.57	86	58-130
Chrysene	0.67	0.63	94	59-127
Dibenz(a,h)anthracene	0.67	0.57	85	57-127
Fluoranthene	0.67	0.62	93	57-129
Fluorene	0.67	0.63	94	50-123
Indeno(1,2,3-cd)pyrene	0.67	0.59	89	57-125
1-Methylnaphthalene	0.67	0.64	96	49-125
2-Methylnaphthalene	0.67	0.64	96	49-123
Naphthalene	0.67	0.58	87	46-117
Phenanthrene	0.67	0.61	91	58-119
Pyrene	0.67	0.67	100	57-134

Spike Recovery: 0 out of 18 outside limits.

MSSV SIM - FORM III SVOA-1
SOLID SEMI-VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - Indiana

Matrix Spike - Sample No: 3293851MS

Date Extracted: 02/06/2023

Date Analyzed (1): 02/07/2023

Instrument: 50MSSF

Lab File ID: 020723.B\3293851.D

Parent Sample ID: 50336521006

SDG No.: 50336749

COMPOUND	SPIKE ADDED (mg/kg)	SAMPLE CONCENTRATION (mg/kg)	MS CONCENTRATION (mg/kg)	MS %REC	QC LIMITS REC.
1-Methylnaphthalene	0.82	0.26	0.71	55	16-150
2-Methylnaphthalene	0.82	0.026	0.64	75	11-156
Acenaphthene	0.82	ND	0.59	73	13-142
Acenaphthylene	0.82	ND	0.65	79	14-135
Anthracene	0.82	ND	0.56	69	10-155
Benzo(a)anthracene	0.82	ND	0.56	68	10-170
Benzo(a)pyrene	0.82	ND	0.57	69	30-135
Benzo(b)fluoranthene	0.82	ND	0.55	67	10-160
Benzo(g,h,i)perylene	0.82	ND	0.49	59	19-134
Benzo(k)fluoranthene	0.82	ND	0.54	66	10-160
Chrysene	0.82	ND	0.59	73	10-156
Dibenz(a,h)anthracene	0.82	ND	0.54	66	23-133
Fluoranthene	0.82	ND	0.60	73	10-173
Fluorene	0.82	ND	0.64	78	18-144
Indeno(1,2,3-cd)pyrene	0.82	ND	0.52	64	19-135
Naphthalene	0.82	0.16	0.64	58	15-140
Phenanthrene	0.82	ND	0.59	72	10-169
Pyrene	0.82	ND	0.59	73	10-178

Spike Recovery: 0 out of 18 outside limits.

MSSV SIM - FORM III SVOA-2
SOLID SEMI-VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Instrument (2): 50MSSF Matrix Spike Duplicate - Sample No: 3293852MSD
 Lab File ID (2): 020723.B\3293852.D Date Analyzed (2): 02/07/2023

COMPOUND	SPIKE ADDED (mg/kg)	MSD CONCENTRATION (mg/kg)	MSD %REC	%RPD	QC LIMITS	
					RPD	REC.
1-Methylnaphthalene	0.81	0.72	57	2	0-20	16-150
2-Methylnaphthalene	0.81	0.62	74	2	0-20	11-156
Acenaphthene	0.81	0.57	71	3	0-20	13-142
Acenaphthylene	0.81	0.61	76	5	0-20	14-135
Anthracene	0.81	0.53	66	6	0-20	10-155
Benzo(a)anthracene	0.81	0.49	61	13	0-20	10-170
Benzo(a)pyrene	0.81	0.50	62	12	0-20	30-135
Benzo(b)fluoranthene	0.81	0.48	60	13	0-20	10-160
Benzo(g,h,i)perylene	0.81	0.45	55	10	0-20	19-134
Benzo(k)fluoranthene	0.81	0.45	56	17	0-20	10-160
Chrysene	0.81	0.51	63	15	0-20	10-156
Dibenz(a,h)anthracene	0.81	0.46	57	16	0-20	23-133
Fluoranthene	0.81	0.57	70	6	0-20	10-173
Fluorene	0.81	0.59	73	7	0-20	18-144
Indeno(1,2,3-cd)pyrene	0.81	0.46	57	12	0-20	19-135
Naphthalene	0.81	0.63	59	0	0-20	15-140
Phenanthrene	0.81	0.57	70	4	0-20	10-169
Pyrene	0.81	0.51	63	16	0-20	10-178

RPD: 0 out of 18 outside limits.

Spike Recovery: 0 out of 18 outside limits.

MSSV SIM - FORM III SVOA-1
SOLID SEMI-VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - Indiana

Matrix Spike - Sample No: 3294084MS

Date Extracted: 02/06/2023

Date Analyzed (1): 02/07/2023

Instrument: 50MSSF

Lab File ID: 020723.B\3294084X5.D

Parent Sample ID: SP-8 (0-2')

SDG No.: 50336749

COMPOUND	SPIKE ADDED (mg/kg)	SAMPLE CONCENTRATION (mg/kg)	MS CONCENTRATION (mg/kg)	MS %REC	QC LIMITS REC.
1-Methylnaphthalene	0.75	<0.011	0.82	109	16-150
2-Methylnaphthalene	0.75	<0.011	0.80	106	11-156
Acenaphthene	0.75	<0.011	0.71	95	13-142
Acenaphthylene	0.75	<0.011	0.78	103	14-135
Anthracene	0.75	<0.014	0.77	102	10-155
Benzo(a)anthracene	0.75	0.049	1.7	216	10-170
Benzo(a)pyrene	0.75	0.037	2.1	281	30-135
Benzo(b)fluoranthene	0.75	0.085	2.6	337	10-160
Benzo(g,h,i)perylene	0.75	0.030	1.5	201	19-134
Benzo(k)fluoranthene	0.75	0.024J	1.6	210	10-160
Chrysene	0.75	0.062	2.0	261	10-156
Dibenz(a,h)anthracene	0.75	<0.014	0.91	120	23-133
Fluoranthene	0.75	0.070	2.3	300	10-173
Fluorene	0.75	<0.011	0.74	99	18-144
Indeno(1,2,3-cd)pyrene	0.75	0.027J	1.6	204	19-135
Naphthalene	0.75	<0.011	0.73	97	15-140
Phenanthrene	0.75	0.037	0.98	125	10-169
Pyrene	0.75	0.070	2.2	277	10-178

Spike Recovery: 9 out of 18 outside limits.

MSSV SIM - FORM III SVOA-2
SOLID SEMI-VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Instrument (2): 50MSSF Matrix Spike Duplicate - Sample No: 3294085MSD
 Lab File ID (2): 020723.B\3294085X5.D Date Analyzed (2): 02/07/2023

COMPOUND	SPIKE ADDED (mg/kg)	MSD CONCENTRATION (mg/kg)	MSD %REC	%RPD	QC LIMITS	
					RPD	REC.
1-Methylnaphthalene	0.76	0.79	104	3	0-20	16-150
2-Methylnaphthalene	0.76	0.79	105	1	0-20	11-156
Acenaphthene	0.76	0.68	90	4	0-20	13-142
Acenaphthylene	0.76	0.75	99	4	0-20	14-135
Anthracene	0.76	0.66	87	15	0-20	10-155
Benzo(a)anthracene	0.76	1.3	159	29	0-20	10-170
Benzo(a)pyrene	0.76	1.4	178	43	0-20	30-135
Benzo(b)fluoranthene	0.76	1.7	214	43	0-20	10-160
Benzo(g,h,i)perylene	0.76	0.98	125	45	0-20	19-134
Benzo(k)fluoranthene	0.76	1.1	140	38	0-20	10-160
Chrysene	0.76	1.4	182	34	0-20	10-156
Dibenz(a,h)anthracene	0.76	0.72	95	23	0-20	23-133
Fluoranthene	0.76	1.7	217	30	0-20	10-173
Fluorene	0.76	0.71	94	5	0-20	18-144
Indeno(1,2,3-cd)pyrene	0.76	1.0	130	42	0-20	19-135
Naphthalene	0.76	0.71	93	3	0-20	15-140
Phenanthrene	0.76	0.83	105	16	0-20	10-169
Pyrene	0.76	1.6	206	28	0-20	10-178

RPD: 10 out of 18 outside limits.

Spike Recovery: 5 out of 18 outside limits.

MSSV SIM - FORM IV SVOA-1
SEMI-VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

3293849BLANK

Lab Name: Pace Analytical - Indiana SDG No.: 50336749 Contract: Hospital #22-286

Instrument ID: 50MSSF Matrix: Solid Lab Sample ID: 3293849

Lab File ID: 020723.B\3293849.D Date Analyzed: 02/07/2023 Time: 09:43

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
3293850LCS	3293850	020723.B\3293850.D	02/07/2023 09:57
SP-1 (0-2')	50336749001	020723.B\50336749001X5.D	02/07/2023 12:51
SP-3 (0-1')	50336749003	020723.B\50336749003X10.	02/07/2023 13:20
SP-4 (0-2')	50336749004	020723.B\50336749004.D	02/07/2023 13:34
SP-4 Dup (0-2')	50336749005	020723.B\50336749005.D	02/07/2023 15:30
SP-4 (8-10')	50336749006	020723.B\50336749006.D	02/07/2023 15:44
SP-5 (5-6')	50336749007	020723.B\50336749007.D	02/07/2023 15:59
SP-5 (8-10')	50336749008	020723.B\50336749008.D	02/07/2023 16:42
SP-7 (0-2')	50336749010	020723.B\50336749010X5.D	02/07/2023 17:11
SP-8 (4-5')	50336749012	020723.B\50336749012X5.D	02/07/2023 17:26
SP-9 (0-2')	50336749022	020723.B\50336749022X5.D	02/07/2023 17:40
SP-10 (0-2')	50336749024	020723.B\50336749024X5.D	02/07/2023 17:55
SP-6 (0-2')	50336749009	020823.B\50336749009.D	02/08/2023 15:58
SP-2 (0-2')	50336749002	021323.B\50336749002X5.D	02/13/2023 09:35

MSSV SIM - FORM IV SVOA-1
SEMI-VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

3294082BLANK

Lab Name: Pace Analytical - Indiana SDG No.: 50336749 Contract: Hospital #22-286

Instrument ID: 50MSSF Matrix: Solid Lab Sample ID: 3294082

Lab File ID: 020723.B\3294082.D Date Analyzed: 02/07/2023 Time: 18:09

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
3294083LCS	3294083	020723.B\3294083.D	02/07/2023 18:24
SP-8 (0-2')	50336749011	020723.B\50336749011X5.D	02/07/2023 19:22
3294084MS	3294084	020723.B\3294084X5.D	02/07/2023 19:36
3294085MSD	3294085	020723.B\3294085X5.D	02/07/2023 19:51
SP-12 (0-1')	50336749026	020723.B\50336749026X10.	02/07/2023 20:19
SP-13 (0-2')	50336749027	020723.B\50336749027X10.	02/07/2023 20:34
SP-13 (2-3')	50336749028	020723.B\50336749028.D	02/07/2023 20:48
SP-11 (0-2')	50336749025	020823.B\50336749025.D	02/08/2023 15:43

MSSV SIM - FORM VIII SVOA-1
MSSV SIM INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50336749 Contract: Hospital #22-286
 Sample ID : 22401842CCV Date Analyzed: 02/07/2023
 Instrument ID: 50MSSF GC Column: FULL Time Analyzed: 09:27
 Lab File ID: 020723.B\5PPM2.D

		AREA ANT	RT	AREA CRY	RT	AREA NPT	RT	AREA PHN	RT
12 HOUR STD		3087	2.03	7473	5.641	4810	1.24	7077	2.913
UPPER LIMIT		6174	2.53	14946	6.141	9620	1.74	14154	3.413
LOWER LIMIT		1543.5	1.53	3736.5	5.141	2405	0.74	3538.5	2.413
LAB SAMPLE ID	SAMPLE NO.								
3293849	3293849BLANK	2980	2.03	7382	5.641	4905	1.24	6809	2.913
3293850	3293850LCS	3274	2.03	8195	5.641	5106	1.24	7548	2.919
3294082	3294082BLANK	4084	2.035	8797	5.641	5834	1.24	9360	2.913
3294083	3294083LCS	4491	2.035	9919	5.642	6396	1.24	10388	2.913
3294084	3294084MS	4874	2.035	10232	5.641	6914	1.244	10487	2.913
3294085	3294085MSD	4509	2.035	9530	5.641	6772	1.244	10217	2.913
50336749001	SP-1 (0-2')	3704	2.035	9165	5.641	5842	1.24	8489	2.913
50336749003	SP-3 (0-1')	3927	2.035	8613	5.641	6052	1.244	9228	2.913
50336749004	SP-4 (0-2')	3388	2.035	7968	5.641	4700	1.24	7948	2.913
50336749005	SP-4 Dup (0-2')	3862	2.035	9421	5.641	5517	1.24	8720	2.913
50336749006	SP-4 (8-10')	3570	2.035	8879	5.641	4988	1.24	8409	2.913
50336749007	SP-5 (5-6')	3920	2.035	9981	5.641	5705	1.24	9537	2.913
50336749008	SP-5 (8-10')	3575	2.035	8778	5.641	5180	1.24	8518	2.913
50336749010	SP-7 (0-2')	4332	2.035	9429	5.641	6338	1.244	9738	2.913
50336749011	SP-8 (0-2')	4379	2.035	9502	5.641	6781	1.244	9871	2.913
50336749012	SP-8 (4-5')	4201	2.035	9108	5.641	6173	1.244	9567	2.913
50336749022	SP-9 (0-2')	4227	2.035	9127	5.641	6165	1.245	9634	2.913
50336749024	SP-10 (0-2')	4250	2.035	9258	5.641	6236	1.244	9765	2.913
50336749026	SP-12 (0-1')	4501	2.035	9199	5.641	6422	1.244	10041	2.913
50336749027	SP-13 (0-2')	4403	2.035	9082	5.641	6464	1.244	9715	2.919
50336749028	SP-13 (2-3')	5017	2.035	10048	5.648	7161	1.244	10780	2.913

ANT = Acenaphthene-d10 (IS)

CRY = Chrysene-d12 (IS)

NPT = Naphthalene-d8 (IS)

PHN = Phenanthrene-d10 (IS)

AREA UPPER LIMIT = 200% of Internal Standard Area

AREA LOWER LIMIT = 50% of Internal Standard Area

RT UPPER LIMIT = +0.50 minutes of Internal Standard RT

RT LOWER LIMIT = -0.50 minutes of Internal Standard RT

* Values outside of QC Limits

MSSV SIM - FORM VIII SVOA-1
MSSV SIM INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50336749 Contract: Hospital #22-286

Sample ID : 22401842CCV Date Analyzed: 02/07/2023

Instrument ID: 50MSSF GC Column: FULL Time Analyzed: 09:27

Lab File ID: 020723.B\5PPM2.D

		AREA PYL	RT
12 HOUR STD		8026	7.477
UPPER LIMIT		16052	7.977
LOWER LIMIT		4013	6.977
LAB SAMPLE ID	SAMPLE NO.		
3293849	3293849BLANK	8234	7.478
3293850	3293850LCS	9142	7.477
3294082	3294082BLANK	9728	7.484
3294083	3294083LCS	11236	7.478
3294084	3294084MS	11071	7.484
3294085	3294085MSD	10752	7.484
50336749001	SP-1 (0-2')	9824	7.478
50336749003	SP-3 (0-1')	9466	7.478
50336749004	SP-4 (0-2')	8632	7.478
50336749005	SP-4 Dup (0-2')	10116	7.477
50336749006	SP-4 (8-10')	9724	7.478
50336749007	SP-5 (5-6')	10851	7.478
50336749008	SP-5 (8-10')	9329	7.478
50336749010	SP-7 (0-2')	10282	7.478
50336749011	SP-8 (0-2')	10486	7.478
50336749012	SP-8 (4-5')	9970	7.478
50336749022	SP-9 (0-2')	10044	7.478
50336749024	SP-10 (0-2')	10178	7.478
50336749026	SP-12 (0-1')	10087	7.484
50336749027	SP-13 (0-2')	9807	7.484
50336749028	SP-13 (2-3')	10866	7.484

PYL = Perylene-d12 (IS)

AREA UPPER LIMIT = 200% of Internal Standard Area

AREA LOWER LIMIT = 50% of Internal Standard Area

RT UPPER LIMIT = +0.50 minutes of Internal Standard RT

RT LOWER LIMIT = -0.50 minutes of Internal Standard RT

* Values outside of QC Limits

MSSV SIM - FORM VIII SVOA-1
MSSV SIM INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50336749 Contract: Hospital #22-286
 Sample ID : 22401798CCV Date Analyzed: 02/08/2023
 Instrument ID: 50MSSF GC Column: FULL Time Analyzed: 15:11
 Lab File ID: 020823.B\5PPM1.D

		AREA ANT	RT	AREA CRY	RT	AREA NPT	RT	AREA PHN	RT
12 HOUR STD		3171	2.03	7354	5.635	5053	1.24	6928	2.913
UPPER LIMIT		6342	2.53	14708	6.135	10106	1.74	13856	3.413
LOWER LIMIT		1585.5	1.53	3677	5.135	2526.5	0.74	3464	2.413
LAB SAMPLE ID	SAMPLE NO.								
50336749009	SP-6 (0-2')	3409	2.03	9005	5.641	4872	1.236	8310	2.913
50336749025	SP-11 (0-2')	3513	2.035	9943	5.648	5279	1.235	8442	2.919

ANT = Acenaphthene-d10 (IS)
 CRY = Chrysene-d12 (IS)
 NPT = Naphthalene-d8 (IS)
 PHN = Phenanthrene-d10 (IS)

AREA UPPER LIMIT = 200% of Internal Standard Area
 AREA LOWER LIMIT = 50% of Internal Standard Area
 RT UPPER LIMIT = +0.50 minutes of Internal Standard RT
 RT LOWER LIMIT = -0.50 minutes of Internal Standard RT

* Values outside of QC Limits

MSSV SIM - FORM VIII SVOA-1
MSSV SIM INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50336749 Contract: Hospital #22-286
 Sample ID : 22401798CCV Date Analyzed: 02/08/2023
 Instrument ID: 50MSSF GC Column: FULL Time Analyzed: 15:11
 Lab File ID: 020823.B\5PPM1.D

		AREA PYL	RT
12 HOUR STD		8157	7.478
UPPER LIMIT		16314	7.978
LOWER LIMIT		4078.5	6.978
LAB SAMPLE ID	SAMPLE NO.		
50336749009	SP-6 (0-2')	9792	7.478
50336749025	SP-11 (0-2')	10820	7.484

PYL = Perylene-d12 (IS)

AREA UPPER LIMIT = 200% of Internal Standard Area

AREA LOWER LIMIT = 50% of Internal Standard Area

RT UPPER LIMIT = +0.50 minutes of Internal Standard RT

RT LOWER LIMIT = -0.50 minutes of Internal Standard RT

* Values outside of QC Limits

MSSV SIM - FORM VIII SVOA-1
MSSV SIM INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50336749 Contract: Hospital #22-286
 Sample ID : 22422554CCV Date Analyzed: 02/13/2023
 Instrument ID: 50MSSF GC Column: FULL Time Analyzed: 08:14
 Lab File ID: 021323.B\5PPM1.D

		AREA ANT	RT	AREA CRY	RT	AREA NPT	RT	AREA PHN	RT
12 HOUR STD		3074	2.031	7932	5.635	4749	1.236	7108	2.908
UPPER LIMIT		6148	2.531	15864	6.135	9498	1.736	14216	3.408
LOWER LIMIT		1537	1.531	3966	5.135	2374.5	0.736	3554	2.408
LAB SAMPLE ID	SAMPLE NO.								
50336749002	SP-2 (0-2')	3021	2.031	7331	5.642	4282	1.24	7278	2.914

ANT = Acenaphthene-d10 (IS)
 CRY = Chrysene-d12 (IS)
 NPT = Naphthalene-d8 (IS)
 PHN = Phenanthrene-d10 (IS)

AREA UPPER LIMIT = 200% of Internal Standard Area
 AREA LOWER LIMIT = 50% of Internal Standard Area
 RT UPPER LIMIT = +0.50 minutes of Internal Standard RT
 RT LOWER LIMIT = -0.50 minutes of Internal Standard RT

* Values outside of QC Limits

MSSV SIM - FORM VIII SVOA-1
MSSV SIM INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50336749 Contract: Hospital #22-286
 Sample ID : 22422554CCV Date Analyzed: 02/13/2023
 Instrument ID: 50MSSF GC Column: FULL Time Analyzed: 08:14
 Lab File ID: 021323.B\5PPM1.D

		AREA PYL	RT
12 HOUR STD		8735	7.478
UPPER LIMIT		17470	7.978
LOWER LIMIT		4367.5	6.978
LAB SAMPLE ID	SAMPLE NO.		
50336749002	SP-2 (0-2')	8104	7.484

PYL = Perylene-d12 (IS)

AREA UPPER LIMIT = 200% of Internal Standard Area

AREA LOWER LIMIT = 50% of Internal Standard Area

RT UPPER LIMIT = +0.50 minutes of Internal Standard RT

RT LOWER LIMIT = -0.50 minutes of Internal Standard RT

* Values outside of QC Limits

MSSV SIM - FORM VI SVOA-1
MSSV SIM INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MSSF GC Column: FULL SDG No.: 50336749
Calibration Date(s): 01/27/2023 01/27/2023 Calibration Time(s): 15:53 17:49

LAB FILE ID

CAL1 = 012723CAL.B\CAL1.D CAL2 = 012723CAL.B\CAL2.D CAL3 = 012723CAL.B\CAL3.D
CAL4 = 012723CAL.B\CAL4.D CAL5 = 012723CAL.B\CAL5.D CAL6 = 012723CAL.B\CAL6.D
CAL7 = 012723CAL.B\CAL7.D CAL8 = 012723CAL.B\CAL8.D CAL9 = 012723CAL.B\CAL9.D

COMPOUND	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5	CAL6
Acenaphthene	Averaged	1.20536	1.21111	1.15477	1.10128	1.13844	1.19311
Acenaphthylene	Averaged	1.94196	1.94195	1.98644	1.88593	1.87436	1.99421
Anthracene	Averaged	1.09273	1.11669	1.05837	1.03035	1.07437	1.13953
Benzo(a)anthracene	Averaged	1.85097	1.65489	1.47043	1.43986	1.42629	1.50838
Benzo(a)pyrene	Averaged	1.30644	1.23333	1.07146	1.19497	1.23346	1.30657
Benzo(b)fluoranthene	Averaged	1.39289	1.38599	1.19199	1.33712	1.33942	1.42676
Benzo(g,h,i)perylene	Averaged	1.40250	1.23333	1.20686	1.46851	1.38648	1.36987
Benzo(k)fluoranthene	Averaged	1.69068	1.62703	1.44244	1.33755	1.38532	1.55926
Chrysene	Averaged	1.60418	1.50614	1.44412	1.44319	1.44335	1.50537
Dibenz(a,h)anthracene	Averaged	1.35447	1.23735	1.29295	1.43706	1.37356	1.25855
Fluoranthene	Averaged	1.49636	1.35887	1.41947	1.37548	1.42295	1.58688
Fluorene	Averaged	1.60714	1.57653	1.48783	1.44989	1.49685	1.53244
Indeno(1,2,3-cd)pyrene	Averaged	1.46013	1.40206	1.44635	1.60808	1.53595	1.40416
1-Methylnaphthalene	Averaged	0.70175	0.72008	0.69025	0.65619	0.69053	0.72178
2-Methylnaphthalene	Averaged	0.71579	0.73972	0.71737	0.68638	0.70979	0.73982
Naphthalene	Averaged	1.13684	1.10631	1.06496	1.04806	1.06323	1.11775
Phenanthrene	Averaged	1.20102	1.17051	1.09808	1.07644	1.08272	1.15583
Pyrene	Averaged	1.51875	1.45965	1.41419	1.37229	1.41834	1.36606
2-Fluorobiphenyl (S)	Averaged	1.67411	1.57653	1.52972	1.53305	1.48291	1.59731
p-Terphenyl-d14 (S)	Averaged	0.99668	1.03198	0.91074	0.90836	0.94328	0.94927

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

02/20/2023 12:39

MSSV SIM - FORM VI SVOA-2
MSSV SIM INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MSSF GC Column: FULL SDG No.: 50336749
 Calibration Date(s): 01/27/2023 01/27/2023 Calibration Time(s): 15:53 17:49

LAB FILE ID

CAL1 = 012723CAL.B\CAL1.D CAL2 = 012723CAL.B\CAL2.D CAL3 = 012723CAL.B\CAL3.D
 CAL4 = 012723CAL.B\CAL4.D CAL5 = 012723CAL.B\CAL5.D CAL6 = 012723CAL.B\CAL6.D
 CAL7 = 012723CAL.B\CAL7.D CAL8 = 012723CAL.B\CAL8.D CAL9 = 012723CAL.B\CAL9.D

COMPOUND	CURVE TYPE	CAL7	CAL8	CAL9
Acenaphthene	Averaged	1.17531	1.13345	1.14824
Acenaphthylene	Averaged	1.99614	1.93465	1.99457
Anthracene	Averaged	1.09651	1.05663	1.09688
Benzo(a)anthracene	Averaged	1.51803	1.48307	1.49954
Benzo(a)pyrene	Averaged	1.31603	1.24249	1.29134
Benzo(b)fluoranthene	Averaged	1.37983	1.32891	1.24537
Benzo(g,h,i)perylene	Averaged	1.43822	1.21000	1.17383
Benzo(k)fluoranthene	Averaged	1.57778	1.49762	1.34941
Chrysene	Averaged	1.50360	1.39351	1.41372
Dibenz(a,h)anthracene	Averaged	1.36488	1.25225	1.19642
Fluoranthene	Averaged	1.42092	1.40393	1.47181
Fluorene	Averaged	1.53312	1.45937	1.48346
Indeno(1,2,3-cd)pyrene	Averaged	1.53549	1.42108	1.36276
1-Methylnaphthalene	Averaged	0.71492	0.70301	0.67628
2-Methylnaphthalene	Averaged	0.74304	0.74920	0.71264
Naphthalene	Averaged	1.09086	1.06163	1.06498
Phenanthrene	Averaged	1.12458	1.08210	1.11515
Pyrene	Averaged	1.52120	1.59061	1.47279
2-Fluorobiphenyl (S)	Averaged	1.58312	1.52192	1.54504
p-Terphenyl-d14 (S)	Averaged	0.99453	1.02553	0.94927

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSSV SIM - FORM VI SVOA-3
MSSV SIM INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MSSF GC Column: FULL SDG No.: 50336749
Calibration Date(s): 01/27/2023 01/27/2023 Calibration Time(s): 15:53 17:49

LAB FILE ID

CAL1 = 012723CAL.B\CAL1.D CAL2 = 012723CAL.B\CAL2.D CAL3 = 012723CAL.B\CAL3.D
CAL4 = 012723CAL.B\CAL4.D CAL5 = 012723CAL.B\CAL5.D CAL6 = 012723CAL.B\CAL6.D
CAL7 = 012723CAL.B\CAL7.D CAL8 = 012723CAL.B\CAL8.D CAL9 = 012723CAL.B\CAL9.D

COMPOUND	CURVE TYPE	%RSD	R2	A1	A2	A3
Acenaphthene	Averaged	3.15147			1.16234	
Acenaphthylene	Averaged	2.40465			1.95002	
Anthracene	Averaged	3.07905			1.08467	
Benzo(a)anthracene	Averaged	8.71902			1.53905	
Benzo(a)pyrene	Averaged	6.20353			1.24401	
Benzo(b)fluoranthene	Averaged	5.60607			1.33648	
Benzo(g,h,i)perylene	Averaged	8.61039			1.32107	
Benzo(k)fluoranthene	Averaged	8.43584			1.49634	
Chrysene	Averaged	4.34184			1.47302	
Dibenz(a,h)anthracene	Averaged	6.02031			1.30750	
Fluoranthene	Averaged	4.84273			1.43963	
Fluorene	Averaged	3.48679			1.51407	
Indeno(1,2,3-cd)pyrene	Averaged	5.44755			1.46401	
1-Methylnaphthalene	Averaged	3.08816			0.69720	
2-Methylnaphthalene	Averaged	2.82829			0.72375	
Naphthalene	Averaged	2.81061			1.08385	
Phenanthrene	Averaged	3.92879			1.12294	
Pyrene	Averaged	5.12612			1.45932	
2-Fluorobiphenyl (S)	Averaged	3.54495			1.56041	
p-Terphenyl-d14 (S)	Averaged	4.77441			0.96774	

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSSV SIM - FORM VII SVOA-1
MSSV SIM CONTINUING CALIBRATION DATA

SAMPLE NO.

22401842CCV

Lab Name: Pace Analytical - Indiana

Calibration Date: 02/07/2023 Time: 09:27

Instrument ID: 50MSSF GC Column: FULL

Init. Calib. Date(s): 01/27/2023 01/27/2023

Lab File ID: 020723.B\5PPM2.D

Init. Calib. Time(s): 15:53 17:49

SDG No.: 50336749

COMPOUND	CURVE	RRF or Amount	RRF or Amount	MIN RRF	%D	MAX %D
Acenaphthene	Averaged	1.16234	1.10398	0.0500	-5.0206	20.0000
Acenaphthylene	Averaged	1.95002	1.86427	0.0500	-4.3975	20.0000
Anthracene	Averaged	1.08467	1.06472	0.0500	-1.8399	20.0000
Benzo(a)anthracene	Averaged	1.53905	1.45805	0.0500	-5.2631	20.0000
Benzo(a)pyrene	Averaged	1.24401	1.21842	0.0500	-2.0574	20.0000
Benzo(b)fluoranthene	Averaged	1.33648	1.35647	0.0500	1.4958	20.0000
Benzo(g,h,i)perylene	Averaged	1.32107	1.24433	0.0500	-5.8085	20.0000
Benzo(k)fluoranthene	Averaged	1.49634	1.41627	0.0500	-5.3512	20.0000
Chrysene	Averaged	1.47302	1.40533	0.0500	-4.5956	20.0000
Dibenz(a,h)anthracene	Averaged	1.30750	1.26115	0.0500	-3.5448	20.0000
Fluoranthene	Averaged	1.43963	1.40483	0.0500	-2.4170	20.0000
Fluorene	Averaged	1.51407	1.46582	0.0500	-3.1866	20.0000
Indeno(1,2,3-cd)pyrene	Averaged	1.46401	1.42350	0.0500	-2.7670	20.0000
1-Methylnaphthalene	Averaged	0.69720	0.67547	0.0500	-3.1170	20.0000
2-Methylnaphthalene	Averaged	0.72375	0.70291	0.0500	-2.8794	20.0000
Naphthalene	Averaged	1.08385	1.03077	0.0500	-4.8970	20.0000
Phenanthrene	Averaged	1.12294	1.04960	0.0500	-6.5311	20.0000
Pyrene	Averaged	1.45932	1.39007	0.0500	-4.7453	20.0000
2-Fluorobiphenyl (S)	Averaged	1.56041	1.45287	0.0500	-6.8921	20.0000
p-Terphenyl-d14 (S)	Averaged	0.96774	0.95316	0.0500	-1.5058	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

02/20/2023 12:39

MSSV SIM - FORM VII SVOA-1
MSSV SIM CONTINUING CALIBRATION DATA

SAMPLE NO.

22401798CCV

Lab Name: Pace Analytical - Indiana

Calibration Date: 02/08/2023 Time: 15:11

Instrument ID: 50MSSF GC Column: FULL

Init. Calib. Date(s): 01/27/2023 01/27/2023

Lab File ID: 020823.B\5PPM1.D

Init. Calib. Time(s): 15:53 17:49

SDG No.: 50336749

COMPOUND	CURVE	RRF or Amount	RRF or Amount	MIN RRF	%D	MAX %D
Acenaphthene	Averaged	1.16234	1.09713	0.0500	-5.6103	20.0000
Acenaphthylene	Averaged	1.95002	1.85052	0.0500	-5.1026	20.0000
Anthracene	Averaged	1.08467	1.06351	0.0500	-1.9511	20.0000
Benzo(a)anthracene	Averaged	1.53905	1.44302	0.0500	-6.2393	20.0000
Benzo(a)pyrene	Averaged	1.24401	1.21344	0.0500	-2.4577	20.0000
Benzo(b)fluoranthene	Averaged	1.33648	1.32549	0.0500	-0.8222	20.0000
Benzo(g,h,i)perylene	Averaged	1.32107	1.30869	0.0500	-0.9366	20.0000
Benzo(k)fluoranthene	Averaged	1.49634	1.37845	0.0500	-7.8789	20.0000
Chrysene	Averaged	1.47302	1.41352	0.0500	-4.0395	20.0000
Dibenz(a,h)anthracene	Averaged	1.30750	1.31494	0.0500	0.5694	20.0000
Fluoranthene	Averaged	1.43963	1.39636	0.0500	-3.0053	20.0000
Fluorene	Averaged	1.51407	1.44024	0.0500	-4.8764	20.0000
Indeno(1,2,3-cd)pyrene	Averaged	1.46401	1.47407	0.0500	0.6874	20.0000
1-Methylnaphthalene	Averaged	0.69720	0.66594	0.0500	-4.4834	20.0000
2-Methylnaphthalene	Averaged	0.72375	0.69642	0.0500	-3.7765	20.0000
Naphthalene	Averaged	1.08385	1.03127	0.0500	-4.8510	20.0000
Phenanthrene	Averaged	1.12294	1.05312	0.0500	-6.2176	20.0000
Pyrene	Averaged	1.45932	1.38741	0.0500	-4.9278	20.0000
2-Fluorobiphenyl (S)	Averaged	1.56041	1.45695	0.0500	-6.6302	20.0000
p-Terphenyl-d14 (S)	Averaged	0.96774	0.93894	0.0500	-2.9752	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

02/20/2023 12:39

MSSV SIM - FORM VII SVOA-1
MSSV SIM CONTINUING CALIBRATION DATA

SAMPLE NO.

22422554CCV

Lab Name: Pace Analytical - Indiana

Calibration Date: 02/13/2023 Time: 08:14

Instrument ID: 50MSSF GC Column: FULL

Init. Calib. Date(s): 01/27/2023 01/27/2023

Lab File ID: 021323.B\5PPM1.D

Init. Calib. Time(s): 15:53 17:49

SDG No.: 50336749

COMPOUND	CURVE	RRF or Amount	RRF or Amount	MIN RRF	%D	MAX %D
Acenaphthene	Averaged	1.16234	1.10605	0.0500	-4.8428	20.0000
Acenaphthylene	Averaged	1.95002	1.86272	0.0500	-4.4770	20.0000
Anthracene	Averaged	1.08467	1.05487	0.0500	-2.7479	20.0000
Benzo(a)anthracene	Averaged	1.53905	1.45197	0.0500	-5.6583	20.0000
Benzo(a)pyrene	Averaged	1.24401	1.21317	0.0500	-2.4794	20.0000
Benzo(b)fluoranthene	Averaged	1.33648	1.28037	0.0500	-4.1983	20.0000
Benzo(g,h,i)perylene	Averaged	1.32107	1.27144	0.0500	-3.7567	20.0000
Benzo(k)fluoranthene	Averaged	1.49634	1.44476	0.0500	-3.4472	20.0000
Chrysene	Averaged	1.47302	1.42146	0.0500	-3.5004	20.0000
Dibenz(a,h)anthracene	Averaged	1.30750	1.25907	0.0500	-3.7037	20.0000
Fluoranthene	Averaged	1.43963	1.44640	0.0500	0.4703	20.0000
Fluorene	Averaged	1.51407	1.46422	0.0500	-3.2928	20.0000
Indeno(1,2,3-cd)pyrene	Averaged	1.46401	1.42782	0.0500	-2.4719	20.0000
1-Methylnaphthalene	Averaged	0.69720	0.68351	0.0500	-1.9631	20.0000
2-Methylnaphthalene	Averaged	0.72375	0.71131	0.0500	-1.7192	20.0000
Naphthalene	Averaged	1.08385	1.02948	0.0500	-5.0160	20.0000
Phenanthrene	Averaged	1.12294	1.05529	0.0500	-6.0241	20.0000
Pyrene	Averaged	1.45932	1.35993	0.0500	-6.8104	20.0000
2-Fluorobiphenyl (S)	Averaged	1.56041	1.43884	0.0500	-7.7909	20.0000
p-Terphenyl-d14 (S)	Averaged	0.96774	0.91137	0.0500	-5.8245	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

02/20/2023 12:39



Prep Log Report

Batch Information: OEXT 8270 717429 PAH (S)

Template Version: Rev.00 (27Feb2022)

Prep Method	EPA 3546	Analysis Method	EPA 8270 by SIM	Prepared By	SDC	Extracted Date/Time	02/06/2023 22:45:40:195
Instrument	50BALN	Spiked By	SDC	Spiked By Date/Time	02/06/2023 22:45:40:195	Vialed By	SDC
Vialed By Date	02/06/2023 02:30:33:971	Syringe ID 1		Syringe ID 2		Conc. Method	
Methylene Chloride	336855	3:1 Methylene Chloride/Acetone	335742	Ottawa Sand	318487	Sodium Sulfate	332976
Filter Paper	78278	Reviewed By		Reviewed By Date		Batch Notes	

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Select	Matrix	Initial Amount (g)	Final Volume (mL)	Microwave ID	Sample Notes	SIM-SPK (mL)	SIM-SS (mL)
8270SIMSLP	BLANK	3293849	Y	Solid	15	1				335692 (.2)
8270SIMSLP	LCS	3293850	Y	Solid	15	1			322130 (.2)	335692 (.2)
8270SIMSLP	PS	50336521003	Y	Solid	15.3	1				335692 (.2)
8270SIMSLP	RQS	50336521006	Y	Solid	15.4	1				335692 (.2)
8270SIMSLP	MS	3293851	Y	Solid	15.2	1			322130 (.2)	335692 (.2)
8270SIMSLP	MSD	3293852	Y	Solid	15.4	1			322130 (.2)	335692 (.2)
8270SIMSLP	PS	50336766001	Y	Solid	15.4	1				335692 (.2)
8270SIMSLP	PS	50336766002	Y	Solid	15.6	1				335692 (.2)
8270SIMSLP	PS	50336766003	Y	Solid	15.5	1				335692 (.2)
8270SIMSLP	PS	50336645001	Y	Solid	15.2	1				335692 (.2)
8270SIMSLP	PS	50336645002	Y	Solid	15.3	1				335692 (.2)
8270SIMSLP	PS	50336749001	Y	Solid	15.1	1				335692 (.2)
8270SIMSLP	PS	50336749002	Y	Solid	15.3	1				335692 (.2)
8270SIMSLP	PS	50336749003	Y	Solid	15.5	1				335692 (.2)
8270SIMSLP	PS	50336749004	Y	Solid	15.2	1				335692 (.2)
8270SIMSLP	PS	50336749005	Y	Solid	15.2	1				335692 (.2)
8270SIMSLP	PS	50336749006	Y	Solid	15.2	1				335692 (.2)
8270SIMSLP	PS	50336749007	Y	Solid	15.3	1				335692 (.2)
8270SIMSLP	PS	50336749008	Y	Solid	15.4	1				335692 (.2)
8270SIMSLP	PS	50336749009	Y	Solid	15.4	1				335692 (.2)



Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Select	Matrix	Initial Amount (g mL wipe)	Final Volume (mL)	Microwave ID	Sample Notes	SIM-SPK (mL)	SIM-SS (mL)
8270SIMSLP	PS	50336749010	Y	Solid	15.5	1				335692 (.2)
8270SIMSLP	PS	50336749012	Y	Solid	15.4	1				335692 (.2)
8270SIMSLP	PS	50336749022	Y	Solid	15.6	1				335692 (.2)
8270SIMSLP	PS	50336749024	Y	Solid	15.6	1				335692 (.2)

Standard Notes:

322130: SIM Spike

335692: SIM Surrogate Mix



Prep Log Report

Batch Information: OEXT 717521 8270 SIM (S)

Template Version: Rev.00 (27Feb2022)

Prep Method	EPA 3546	Analysis Method	EPA 8270 by SIM
Instrument	50BALN	Spiked By	BMW
Vialed By Date	02/06/2023 16:20:51:548	Syringe ID 1	
Methylene Chloride	336855	3:1 Methylene Chloride/Acetone	335742
Filter Paper	78278	Reviewed By	

Prepared By	BMW	Thermo ID	
Spiked By Date/Time	02/06/2023 15:00:50:348	Evap. ID	
Syringe ID 2		Microwave ID	
Ottawa Sand	325547	Turbvap ID	
Reviewed By Date		Correction Factor	

Extracted Date/Time	02/06/2023 15:00:49:020	Sample Notes	
Vialed By	BMW	Evap. Temp	
Conc. Method	Turbvap	Corr (C)	
Sodium Sulfate	332976	SIM-SPK (mL)	
Batch Notes		SIM-SS (mL)	

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Select	Matrix	Initial Amount (g)	Final Volume (mL)	Microwave ID	Evap. ID	Thermo ID	Correction Factor	Evap. Temp	Corr (C)	Sample Notes	SIM-SPK (mL)	SIM-SS (mL)
8270SIMSLP	BLANK	3294082	Y	Solid	15	1									335692 (-2)
8270SIMSLP	LCS	3294083	Y	Solid	15	1								322130 (.2)	335692 (-2)
8270SIMSLP	PS	50336521004	Y	Solid	15.7	1									335692 (-2)
8270SIMSLP	PS	50336521005	Y	Solid	15.4	1									335692 (-2)
8270SIMSLP	PS	50336521007	Y	Solid	15.5	1									335692 (-2)
8270SIMSLP	RQS	50336749011	Y	Solid	15.4	1									335692 (-2)
8270SIMSLP	MS	3294084	Y	Solid	15.6	1								322130 (.2)	335692 (-2)
8270SIMSLP	MSD	3294085	Y	Solid	15.5	1								322130 (.2)	335692 (-2)
8270SIMSLP	PS	50336749025	Y	Solid	15.1	1									335692 (-2)
8270SIMSLP	PS	50336749026	Y	Solid	15.6	1									335692 (-2)
8270SIMSLP	PS	50336749027	Y	Solid	15.8	1									335692 (-2)
8270SIMSLP	PS	50336749028	Y	Solid	15.8	1									335692 (-2)

Standard Notes:

322130: SIM Spike

335692: SIM Surrogate Mix

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mssf.i
 Column Rtx-5MS 15m X 0.25mm Method: PAHs by SW846-8270 SIM
 Misc. Prep Info [L]:
 Misc. Prep Info [S]: MeCl2 Lot #333523
 ISTD lot: 336587:1 Surr. lot:
 Lot:
 Tune std: _____ Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	Method	Date	Time	Oper	Comments
1/50335857008.d	50335857008	S/36998	SAMPLE	1	8270csim	1/27/23	23:56	FIP	
1/50335946001.d	50335946001	S/36998	SAMPLE	1	8270csim	1/28/23	00:11	FIP	
1/50335946003.d	50335946003	S/36998	SAMPLE	1	8270csim	1/28/23	00:25	FIP	
1/50335946004.d	50335946004	S/36998	SAMPLE	1	8270csim	1/28/23	00:40	FIP	
1/50336056002.d	50336056002	S/37018	SAMPLE	1	8270csim	1/28/23	00:54	FIP	
1/50336056004.d	50336056004	S/37018	SAMPLE	1	8270csim	1/28/23	01:09	FIP	
1/50336056006.d	50336056006	S/37018	SAMPLE	1	8270csim	1/28/23	01:23	FIP	
1/50336085001.d	50336085001	S/37018	SAMPLE	1	8270csim	1/28/23	01:38	FIP	
1/50336085002.d	50336085002	S/37018	SAMPLE	1	8270csim	1/28/23	01:52	FIP	
1/50336085003.d	50336085003	S/37018	SAMPLE	1	8270csim	1/28/23	02:07	FIP	
1/50336085004.d	50336085004	S/37018	SAMPLE	1	8270csim	1/28/23	02:21	FIP	
1/50336085005.d	50336085005	S/37018	SAMPLE	1	8270csim	1/28/23	02:36	FIP	
1/50336085007.d	50336085007	S/37018	SAMPLE	1	8270csim	1/28/23	02:50	FIP	
1/50336087002.d	50336087002	S/37018	SAMPLE	1	8270csim	1/28/23	03:05	FIP	
1/3288518.d	3288518	S/37018	MS	1	8270csim	1/28/23	03:19	FIP	
1/3288519.d	3288519	S/37018	MSD	1	8270csim	1/28/23	03:33	FIP	
1/50336087003x10.d	50336087003x10	S/37018	SAMPLE	10	8270csim	1/28/23	03:48	FIP	

File Path 1: \\192.168.50.6\chem\50mssf.i\012723cal.b
 Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one
 Report Date: 12:56 01/30/2023

Reviewed By/Date: _____ Page: 2 of 2

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mssf.i

Column Rtx-5MS 15m X 0.25mm

Misc. Prep Info [S]: MeCl2 Lot #333523

ISTD lot: 336587:1

Lot:

Tune std: _____

Method: PAHs by SW846-8270 SIM

Surr. lot:

Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	Method	Date	Time	Oper	Comments
1/5ppm1.d	CCV,328268:1	S/37036	CCALIB_5	1	8270csim	2/07/23	08:25	FIP	<u>Failed, clipped column</u>
1/5ppm2.d	CCV,328268:1	S/37036	CCALIB_5	1	8270csim	2/07/23	09:27	FIP	<u>Good</u>
1/3293849.d	3293849	S/37074	BLANK	1	8270csim	2/07/23	09:43	FIP	
1/3293850.d	3293850	S/37074	LCS	1	8270csim	2/07/23	09:57	FIP	
1/50336521003.d	50336521003	S/37074	SAMPLE	1	8270csim	2/07/23	10:12	FIP	
1/50336521006.d	50336521006	S/37074	SAMPLE	1	8270csim	2/07/23	10:26	FIP	
1/3293851.d	3293851	S/37074	MS	1	8270csim	2/07/23	10:41	FIP	
1/3293852.d	3293852	S/37074	MSD	1	8270csim	2/07/23	10:55	FIP	
1/50336766001.d	50336766001	S/37074	SAMPLE	1	8270csim	2/07/23	11:09	FIP	
1/50336766002.d	50336766002	S/37074	SAMPLE	1	8270csim	2/07/23	11:24	FIP	
1/50336766003.d	50336766003	S/37074	SAMPLE	1	8270csim	2/07/23	11:39	FIP	
1/50336645001.d	50336645001	S/37074	SAMPLE	1	8270csim	2/07/23	11:53	FIP	
1/50336538023.d	50336538023	S/37068	SAMPLE	1	8270csim	2/07/23	12:07	FIP	
1/50336538026.d	50336538026	S/37068	SAMPLE	1	8270csim	2/07/23	12:22	FIP	
1/50336645002.d	50336645002	S/37074	SAMPLE	1	8270csim	2/07/23	12:36	FIP	
1/50336749001x5.d	50336749001x5	S/37074	SAMPLE	5	8270csim	2/07/23	12:51	FIP	
1/50336749002x10.d	50336749002x10	S/37074	SAMPLE	10	8270csim	2/07/23	13:05	FIP	
1/50336749003x10.d	50336749003x10	S/37074	SAMPLE	10	8270csim	2/07/23	13:20	FIP	
1/50336749004.d	50336749004	S/37074	SAMPLE	1	8270csim	2/07/23	13:34	FIP	
1/50336538019x5.d	50336538019x5	S/37068	SAMPLE	5	8270csim	2/07/23	13:49	FIP	
1/50336538020x5.d	50336538020x5	S/37068	SAMPLE	5	8270csim	2/07/23	14:03	FIP	
1/50336538021x5.d	50336538021x5	S/37068	SAMPLE	5	8270csim	2/07/23	14:17	FIP	
1/3292934x5.d	3292934x5	S/37068	MS	5	8270csim	2/07/23	14:32	FIP	
1/50336655001x10.d	50336655001x10	S/37071	SAMPLE	10	8270csim	2/07/23	14:46	FIP	
1/3292935x5.d	3292935x5	S/37068	MSD	5	8270csim	2/07/23	15:01	FIP	
1/50336538024x5.d	50336538024x5	S/37068	SAMPLE	5	8270csim	2/07/23	15:15	FIP	
1/50336749005.d	50336749005	S/37074	SAMPLE	1	8270csim	2/07/23	15:30	FIP	
1/50336749006.d	50336749006	S/37074	SAMPLE	1	8270csim	2/07/23	15:44	FIP	
1/50336749007.d	50336749007	S/37074	SAMPLE	1	8270csim	2/07/23	15:59	FIP	
1/3292966.d	3292966	S/37071	BLANK	1	8270csim	2/07/23	16:13	FIP	
1/3292967.d	3292967	S/37071	LCS	1	8270csim	2/07/23	16:28	FIP	

Check Maintenance Items Performed:

- | | | |
|---|---|---|
| <input type="checkbox"/> Changed septum | <input type="checkbox"/> Clipped column | <input type="checkbox"/> Changed column (lot # _____) |
| <input type="checkbox"/> Cleaned liner | <input type="checkbox"/> Changed trap (lot # _____) | <input type="checkbox"/> Other minor parts replaced _____ |
| <input type="checkbox"/> Replaced/Cleaned gold seal | <input type="checkbox"/> Cleaned MS source | <input type="checkbox"/> No maintenance performed today |

Additional Comments:

Run Order Verified: _____

File Path 1: \\192.168.50.6\chem\50mssf.i\020723.b
Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one
Report Date: 09:50 02/09/2023

Reviewed By/Date: _____ Page: 1 of 3

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mssf.i
 Column Rtx-SMS 15m X 0.25mm Method: PAHs by SW846-8270 SIM
 Misc. Prep Info [S]: MeCl2 Lot #333523
 ISTD lot: 336587:1 Surr. lot:
 Lot:
 Tune std: _____ Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	Method	Date	Time	Oper	Comments
1/50336749008.d	50336749008	S/37074	SAMPLE	1	8270csim	2/07/23	16:42	FIP	
1/50336749009x5.d	50336749009x5	S/37074	SAMPLE	5	8270csim	2/07/23	16:57	FIP	
1/50336749010x5.d	50336749010x10	S/37074	SAMPLE	10	8270csim	2/07/23	17:11	FIP	
1/50336749012x5.d	50336749012x5	S/37074	SAMPLE	5	8270csim	2/07/23	17:26	FIP	
1/50336749022x5.d	50336749022x5	S/37074	SAMPLE	5	8270csim	2/07/23	17:40	FIP	
1/50336749024x5.d	50336749024x5	S/37074	SAMPLE	5	8270csim	2/07/23	17:55	FIP	
1/3294082.d	3294082	S/37078	BLANK	1	8270csim	2/07/23	18:09	FIP	
1/3294083.d	3294083	S/37078	LCS	1	8270csim	2/07/23	18:24	FIP	
1/50336521004.d	50336521004	S/37078	SAMPLE	1	8270csim	2/07/23	18:38	FIP	
1/50336521005.d	50336521005	S/37078	SAMPLE	1	8270csim	2/07/23	18:53	FIP	
1/50336521007.d	50336521007	S/37078	SAMPLE	1	8270csim	2/07/23	19:07	FIP	
1/50336749011x5.d	50336749011x5	S/37078	SAMPLE	5	8270csim	2/07/23	19:22	FIP	
1/3294084x5.d	3294084x5	S/37078	MS	5	8270csim	2/07/23	19:36	FIP	
1/3294085x5.d	3294085x5	S/37078	MSD	5	8270csim	2/07/23	19:51	FIP	
1/50336749025x5.d	50336749025x5	S/37078	SAMPLE	5	8270csim	2/07/23	20:05	FIP	
1/50336749026x10.d	50336749026x10	S/37078	SAMPLE	10	8270csim	2/07/23	20:19	FIP	
1/50336749027x10.d	50336749027x10	S/37078	SAMPLE	10	8270csim	2/07/23	20:34	FIP	
1/50336749028.d	50336749028	S/37078	SAMPLE	1	8270csim	2/07/23	20:48	FIP	
1/5ppm3.d	CCV, 328268:1	S/37036	CCALIB_5	1	8270csim	2/07/23	21:17	FIP	Good
1/50336538027.d	50336538027	S/37071	SAMPLE	1	8270csim	2/07/23	21:32	FIP	
1/50336538028.d	50336538028	S/37071	SAMPLE	1	8270csim	2/07/23	21:46	FIP	
1/50336538029.d	50336538029	S/37071	SAMPLE	1	8270csim	2/07/23	22:01	FIP	
1/50336541005.d	50336541005	S/37071	SAMPLE	1	8270csim	2/07/23	22:15	FIP	
1/50336541006.d	50336541006	S/37071	SAMPLE	1	8270csim	2/07/23	22:30	FIP	
1/50336655006.d	50336655006	S/37071	SAMPLE	1	8270csim	2/07/23	22:44	FIP	
1/50336508016.d	50336508016	S/37071	SAMPLE	1	8270csim	2/07/23	22:59	FIP	
1/50336655002x10.d	50336655002x10	S/37071	SAMPLE	10	8270csim	2/07/23	23:13	FIP	
1/50336655004x10.d	50336655004x10	S/37071	SAMPLE	10	8270csim	2/07/23	23:28	FIP	
1/50336655007x5.d	50336655007x5	S/37071	SAMPLE	5	8270csim	2/07/23	23:42	FIP	
1/50336655008x5.d	50336655008x5	S/37071	SAMPLE	5	8270csim	2/07/23	23:57	FIP	
1/3294344.d	3294344	S/37084	BLANK	1	8270csim	2/08/23	00:11	FIP	

File Path 1: \\192.168.50.6\chem\50mssf.i\020723.b
 Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one
 Report Date: 09:51 02/09/2023

Reviewed By/Date: _____ Page: 2 of 3

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mssf.i
Column Rtx-5MS 15m X 0.25mm Method: PAHs by SW846-8270 SIM
Misc. Prep Info [S]: MeCl2 Lot #333523
ISTD lot: 336587:1 Surr. lot:
Lot:
Tune std: _____ Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	Method	Date	Time	Oper	Comments
1/3294345.d	3294345	S/37084	LCS	1	8270csim	2/08/23	00:26	FIP	
1/50336806001.d	50336806001	S/37084	SAMPLE	1	8270csim	2/08/23	00:40	FIP	
1/50336806002.d	50336806002	S/37084	SAMPLE	1	8270csim	2/08/23	00:55	FIP	
1/50336806003.d	50336806003	S/37084	SAMPLE	1	8270csim	2/08/23	01:09	FIP	
1/50336806004.d	50336806004	S/37084	SAMPLE	1	8270csim	2/08/23	01:24	FIP	
1/3294346.d	3294346	S/37084	MS	1	8270csim	2/08/23	01:38	FIP	
1/3294347.d	3294347	S/37084	MSD	1	8270csim	2/08/23	01:53	FIP	
1/50336806005.d	50336806005	S/37084	SAMPLE	1	8270csim	2/08/23	02:07	FIP	

File Path 1: \\192.168.50.6\chem\50mssf.i\020723.b
Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one
Report Date: 09:51 02/09/2023

Reviewed By/Date: _____ Page: 3 of 3

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mssf.i
 Column Rtx-5MS 15m X 0.25mm
 Misc. Prep Info [S]: MeCl2 Lot #333523
 ISTD lot: 336587:1
 Lot:
 Tune std: _____

Method: PAHs by SW846-8270 SIM
 Surr. lot:
 Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	Method	Date	Time	Oper	Comments
1/5ppm1.d	CCV,328268:1	S/37036	CCALIB_5	1	8270csim	2/08/23	15:11	FIP	<u>Good</u>
1/50336749025.d	50336749025	S/37078	SAMPLE	1	8270csim	2/08/23	15:43	FIP	
1/50336749009.d	50336749009	S/37074	SAMPLE	1	8270csim	2/08/23	15:58	FIP	
1/3292476.d	3292476	S/37065	SAMPLE	1	8270csim	2/08/23	16:12	FIP	
1/3295564.d	3295564	S/37099	BLANK	1	8270csim	2/08/23	18:38	FIP	
1/3295565.d	3295565	S/37099	LCS	1	8270csim	2/08/23	18:53	FIP	
1/50336926001.d	50336926001	S/37099	SAMPLE	1	8270csim	2/08/23	19:07	FIP	
1/50336926002.d	50336926002	S/37099	SAMPLE	1	8270csim	2/08/23	19:22	FIP	
1/3295566.d	3295566	S/37099	MS	1	8270csim	2/08/23	19:36	FIP	
1/3295567.d	3295567	S/37099	MSD	1	8270csim	2/08/23	19:51	FIP	
1/50336926003.d	50336926003	S/37099	SAMPLE	1	8270csim	2/08/23	20:05	FIP	
1/50336926004.d	50336926004	S/37099	SAMPLE	1	8270csim	2/08/23	20:19	FIP	

Check Maintenance Items Performed:

Changed septum Clipped column Changed column (lot # _____)
 Cleaned liner Changed trap (lot # _____) Other minor parts replaced _____
 Replaced/Cleaned gold seal Cleaned MS source No maintenance performed today

Additional Comments:

Run Order Verified: _____

File Path 1: \\192.168.50.6\chem\50mssf.i\020823.b
 Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one
 Report Date: 09:39 02/09/2023

Reviewed By/Date: _____ Page: 1 of 1

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mssf.i
 Column Rtx-5MS 15m X 0.25mm
 Misc. Prep Info [S]: MeCl2 Lot #333523
 ISTD lot: 336587:1
 Lot:
 Tune std: _____

Method: PAHs by SW846-8270 SIM
 Surr. lot:
 Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	Method	Date	Time	Oper	Comments
1/5ppm1.d	CCV,328268:1	S/37036	CCALIB_5	1	8270csim	2/13/23	08:14	FIP	<u>Good</u>
1/3297008.d	3297008	S/37111	BLANK	1	8270csim	2/13/23	08:52	FIP	
1/3297009.d	3297009	S/37111	LCS	1	8270csim	2/13/23	09:06	FIP	
1/50336887003x10.d	50336887003x10	S/37103	SAMPLE	10	8270csim	2/13/23	09:21	FIP	
1/50336749002x5.d	50336749002x5	S/37074	SAMPLE	5	8270csim	2/13/23	09:35	FIP	
1/50337004002.d	50337004002	S/37111	SAMPLE	1	8270csim	2/13/23	09:49	FIP	
1/50337004003x5.d	50337004003x5	S/37111	SAMPLE	5	8270csim	2/13/23	10:04	FIP	
1/50337004004.d	50337004004	S/37111	SAMPLE	1	8270csim	2/13/23	10:18	FIP	
1/50337004005.d	50337004005	S/37111	SAMPLE	1	8270csim	2/13/23	10:33	FIP	
1/50337004006x5.d	50337004006x5	S/37111	SAMPLE	5	8270csim	2/13/23	10:47	FIP	
1/50337004007.d	50337004007	S/37111	SAMPLE	1	8270csim	2/13/23	11:02	FIP	
1/50337004008x5.d	50337004008x5	S/37111	SAMPLE	5	8270csim	2/13/23	11:16	FIP	
1/50337004009x5.d	50337004009x5	S/37111	SAMPLE	5	8270csim	2/13/23	11:31	FIP	
1/50337004010x5.d	50337004010x5	S/37111	SAMPLE	5	8270csim	2/13/23	11:45	FIP	
1/50337004011.d	50337004011	S/37111	SAMPLE	1	8270csim	2/13/23	12:00	FIP	
1/50337004012.d	50337004012	S/37111	SAMPLE	1	8270csim	2/13/23	12:14	FIP	
1/50337004013.d	50337004013	S/37111	SAMPLE	1	8270csim	2/13/23	12:29	FIP	
1/3297010.d	3297010	S/37111	MS	1	8270csim	2/13/23	12:43	FIP	
1/3297011.d	3297011	S/37111	MSD	1	8270csim	2/13/23	12:58	FIP	
1/50337004014x5.d	50337004014x5	S/37111	SAMPLE	5	8270csim	2/13/23	13:12	FIP	
1/50337004015.d	50337004015	S/37111	SAMPLE	1	8270csim	2/13/23	13:27	FIP	
1/50337004016.d	50337004016	S/37111	SAMPLE	1	8270csim	2/13/23	13:41	FIP	
1/50337004017.d	50337004017	S/37111	SAMPLE	1	8270csim	2/13/23	13:56	FIP	
1/50337004018.d	50337004018	S/37111	SAMPLE	1	8270csim	2/13/23	14:10	FIP	
1/50337004019.d	50337004019	S/37111	SAMPLE	1	8270csim	2/13/23	14:25	FIP	
1/3297939.d	3297939	S/37113	SAMPLE	1	8270csim	2/13/23	15:10	FIP	
1/3297940.d	3297940	S/37113	SAMPLE	1	8270csim	2/13/23	15:24	FIP	

Check Maintenance Items Performed:

- | | | |
|---|---|---|
| <input type="checkbox"/> Changed septum | <input type="checkbox"/> Clipped column | <input type="checkbox"/> Changed column (lot # _____) |
| <input type="checkbox"/> Cleaned liner | <input type="checkbox"/> Changed trap (lot # _____) | <input type="checkbox"/> Other minor parts replaced _____ |
| <input type="checkbox"/> Replaced/Cleaned gold seal | <input type="checkbox"/> Cleaned MS source | <input type="checkbox"/> No maintenance performed today |

Additional Comments:

Run Order Verified: _____

File Path 1: \\v50wintarget\chem\50mssf.i\021323.b
 Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one
 Report Date: 14:58 02/14/2023

Reviewed By/Date: _____ Page: 1 of 1

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-1 (0-2')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
 Lab Sample ID: 50336749001 Percent Moisture: 9.5

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	<0.29	U	mg/kg	1	02/16/2023 14:36
7440-38-2	Arsenic	3.6		mg/kg	1	02/16/2023 14:36
7440-39-3	Barium	67.7		mg/kg	1	02/16/2023 14:36
7440-41-7	Beryllium	<0.11	U	mg/kg	1	02/16/2023 14:36
7440-43-9	Cadmium	0.50	J	mg/kg	1	02/16/2023 14:36
7440-47-3	Chromium	8.5		mg/kg	1	02/16/2023 14:36
7440-50-8	Copper	6.4		mg/kg	1	02/16/2023 14:36
7439-92-1	Lead	8.6		mg/kg	1	02/16/2023 14:36
7440-02-0	Nickel	8.6		mg/kg	1	02/16/2023 14:36
7782-49-2	Selenium	0.40	J	mg/kg	1	02/16/2023 14:36
7440-22-4	Silver	<0.14	U	mg/kg	1	02/16/2023 14:36
7440-28-0	Thallium	<0.22	U	mg/kg	1	02/16/2023 14:36
7440-66-6	Zinc	36.3		mg/kg	1	02/16/2023 14:36

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-2 (0-2')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
 Lab Sample ID: 50336749002 Percent Moisture: 18.6

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	0.48	J	mg/kg	1	02/16/2023 14:40
7440-38-2	Arsenic	3.5		mg/kg	1	02/16/2023 14:40
7440-39-3	Barium	50.9		mg/kg	1	02/16/2023 14:40
7440-41-7	Beryllium	<0.12	U	mg/kg	1	02/16/2023 14:40
7440-43-9	Cadmium	0.56	J	mg/kg	1	02/16/2023 14:40
7440-47-3	Chromium	12.1		mg/kg	1	02/16/2023 14:40
7440-50-8	Copper	8.4		mg/kg	1	02/16/2023 14:40
7439-92-1	Lead	69.6		mg/kg	1	02/16/2023 14:40
7440-02-0	Nickel	11.4		mg/kg	1	02/16/2023 14:40
7782-49-2	Selenium	<0.33	U	mg/kg	1	02/16/2023 14:40
7440-22-4	Silver	<0.15	U	mg/kg	1	02/16/2023 14:40
7440-28-0	Thallium	<0.23	U	mg/kg	1	02/16/2023 14:40
7440-66-6	Zinc	64.6		mg/kg	1	02/16/2023 14:40

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-3 (0-1')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
 Lab Sample ID: 50336749003 Percent Moisture: 3.3

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	<0.27	U	mg/kg	1	02/16/2023 14:43
7440-38-2	Arsenic	1.9		mg/kg	1	02/16/2023 14:43
7440-39-3	Barium	13.7		mg/kg	1	02/16/2023 14:43
7440-41-7	Beryllium	<0.10	U	mg/kg	1	02/16/2023 14:43
7440-43-9	Cadmium	0.16	J	mg/kg	1	02/16/2023 14:43
7440-47-3	Chromium	3.9		mg/kg	1	02/16/2023 14:43
7440-50-8	Copper	3.6		mg/kg	1	02/16/2023 14:43
7439-92-1	Lead	2.1		mg/kg	1	02/16/2023 14:43
7440-02-0	Nickel	8.1		mg/kg	1	02/16/2023 14:43
7782-49-2	Selenium	<0.28	U	mg/kg	1	02/16/2023 14:43
7440-22-4	Silver	<0.13	U	mg/kg	1	02/16/2023 14:43
7440-28-0	Thallium	<0.20	U	mg/kg	1	02/16/2023 14:43
7440-66-6	Zinc	12.8		mg/kg	1	02/16/2023 14:43

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-4 (0-2')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
 Lab Sample ID: 50336749004 Percent Moisture: 5.9

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	0.41	J	mg/kg	1	02/16/2023 15:13
7440-38-2	Arsenic	1.5		mg/kg	1	02/16/2023 15:13
7440-39-3	Barium	33.3		mg/kg	1	02/16/2023 15:13
7440-41-7	Beryllium	<0.10	U	mg/kg	1	02/16/2023 15:13
7440-43-9	Cadmium	0.32	J	mg/kg	1	02/16/2023 15:13
7440-47-3	Chromium	9.1		mg/kg	1	02/16/2023 15:13
7440-50-8	Copper	2.7		mg/kg	1	02/16/2023 15:13
7439-92-1	Lead	1.1		mg/kg	1	02/16/2023 15:13
7440-02-0	Nickel	8.5		mg/kg	1	02/16/2023 15:13
7782-49-2	Selenium	<0.28	U	mg/kg	1	02/16/2023 15:13
7440-22-4	Silver	<0.13	U	mg/kg	1	02/16/2023 15:13
7440-28-0	Thallium	<0.20	U	mg/kg	1	02/16/2023 15:13
7440-66-6	Zinc	24.6		mg/kg	1	02/16/2023 15:13

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-4 Dup (0-2')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
 Lab Sample ID: 50336749005 Percent Moisture: 5.0

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	0.65	J	mg/kg	1	02/16/2023 15:17
7440-38-2	Arsenic	1.0	J	mg/kg	1	02/16/2023 15:17
7440-39-3	Barium	22.1		mg/kg	1	02/16/2023 15:17
7440-41-7	Beryllium	<0.11	U	mg/kg	1	02/16/2023 15:17
7440-43-9	Cadmium	0.36	J	mg/kg	1	02/16/2023 15:17
7440-47-3	Chromium	10.4		mg/kg	1	02/16/2023 15:17
7440-50-8	Copper	2.6		mg/kg	1	02/16/2023 15:17
7439-92-1	Lead	1.0	J	mg/kg	1	02/16/2023 15:17
7440-02-0	Nickel	9.6		mg/kg	1	02/16/2023 15:17
7782-49-2	Selenium	<0.29	U	mg/kg	1	02/16/2023 15:17
7440-22-4	Silver	<0.13	U	mg/kg	1	02/16/2023 15:17
7440-28-0	Thallium	<0.20	U	mg/kg	1	02/16/2023 15:17
7440-66-6	Zinc	26.3		mg/kg	1	02/16/2023 15:17

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-4 (8-10')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
 Lab Sample ID: 50336749006 Percent Moisture: 19.2

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	<0.92	U	mg/kg	3	02/16/2023 16:31
7440-38-2	Arsenic	12.9		mg/kg	1	02/16/2023 15:21
7440-39-3	Barium	75.5		mg/kg	1	02/16/2023 15:21
7440-41-7	Beryllium	0.88		mg/kg	1	02/16/2023 15:21
7440-43-9	Cadmium	<0.027	U	mg/kg	1	02/16/2023 15:21
7440-47-3	Chromium	28.1		mg/kg	1	02/16/2023 15:21
7440-50-8	Copper	13.2		mg/kg	1	02/16/2023 15:21
7439-92-1	Lead	16.5		mg/kg	1	02/16/2023 15:21
7440-02-0	Nickel	19.2		mg/kg	1	02/16/2023 15:21
7782-49-2	Selenium	1.1	J	mg/kg	1	02/16/2023 15:21
7440-22-4	Silver	0.33	J	mg/kg	1	02/16/2023 15:21
7440-28-0	Thallium	<0.23	U	mg/kg	1	02/16/2023 15:21
7440-66-6	Zinc	55.6		mg/kg	1	02/16/2023 15:21

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-5 (5-6')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
 Lab Sample ID: 50336749007 Percent Moisture: 17.3

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	<0.30	U	mg/kg	1	02/16/2023 15:24
7440-38-2	Arsenic	8.2		mg/kg	1	02/16/2023 15:24
7440-39-3	Barium	98.7		mg/kg	1	02/16/2023 15:24
7440-41-7	Beryllium	0.68		mg/kg	1	02/16/2023 15:24
7440-43-9	Cadmium	<0.026	U	mg/kg	1	02/16/2023 15:24
7440-47-3	Chromium	20.9		mg/kg	1	02/16/2023 15:24
7440-50-8	Copper	10.8		mg/kg	1	02/16/2023 15:24
7439-92-1	Lead	11.1		mg/kg	1	02/16/2023 15:24
7440-02-0	Nickel	12.9		mg/kg	1	02/16/2023 15:24
7782-49-2	Selenium	0.41	J	mg/kg	1	02/16/2023 15:24
7440-22-4	Silver	0.24	J	mg/kg	1	02/16/2023 15:24
7440-28-0	Thallium	<0.67	U	mg/kg	3	02/17/2023 08:37
7440-66-6	Zinc	34.9		mg/kg	1	02/16/2023 15:24

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-5 (8-10')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
 Lab Sample ID: 50336749008 Percent Moisture: 19.3

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	<0.31	U	mg/kg	1	02/16/2023 15:28
7440-38-2	Arsenic	8.2		mg/kg	1	02/16/2023 15:28
7440-39-3	Barium	73.4		mg/kg	1	02/16/2023 15:28
7440-41-7	Beryllium	0.72		mg/kg	1	02/16/2023 15:28
7440-43-9	Cadmium	<0.027	U	mg/kg	1	02/16/2023 15:28
7440-47-3	Chromium	24.1		mg/kg	1	02/16/2023 15:28
7440-50-8	Copper	10.8		mg/kg	1	02/16/2023 15:28
7439-92-1	Lead	11.9		mg/kg	1	02/16/2023 15:28
7440-02-0	Nickel	14.0		mg/kg	1	02/16/2023 15:28
7782-49-2	Selenium	0.48	J	mg/kg	1	02/16/2023 15:28
7440-22-4	Silver	0.22	J	mg/kg	1	02/16/2023 15:28
7440-28-0	Thallium	<0.69	U	mg/kg	3	02/17/2023 08:40
7440-66-6	Zinc	34.8		mg/kg	1	02/16/2023 15:28

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-6 (0-2')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
 Lab Sample ID: 50336749009 Percent Moisture: 4.6

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	0.39	J	mg/kg	1	02/16/2023 15:32
7440-38-2	Arsenic	1.1		mg/kg	1	02/16/2023 15:32
7440-39-3	Barium	157		mg/kg	1	02/16/2023 15:32
7440-41-7	Beryllium	<0.11	U	mg/kg	1	02/16/2023 15:32
7440-43-9	Cadmium	0.45	J	mg/kg	1	02/16/2023 15:32
7440-47-3	Chromium	7.0		mg/kg	1	02/16/2023 15:32
7440-50-8	Copper	5.9		mg/kg	1	02/16/2023 15:32
7439-92-1	Lead	1.6		mg/kg	1	02/16/2023 15:32
7440-02-0	Nickel	8.0		mg/kg	1	02/16/2023 15:32
7782-49-2	Selenium	0.36	J	mg/kg	1	02/16/2023 15:32
7440-22-4	Silver	<0.13	U	mg/kg	1	02/16/2023 15:32
7440-28-0	Thallium	<0.20	U	mg/kg	1	02/16/2023 15:32
7440-66-6	Zinc	28.7		mg/kg	1	02/16/2023 15:32

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-7 (0-2')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
 Lab Sample ID: 50336749010 Percent Moisture: 3.2

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	0.36	J	mg/kg	1	02/16/2023 15:35
7440-38-2	Arsenic	1.7		mg/kg	1	02/16/2023 15:35
7440-39-3	Barium	29.2		mg/kg	1	02/16/2023 15:35
7440-41-7	Beryllium	<0.10	U	mg/kg	1	02/16/2023 15:35
7440-43-9	Cadmium	0.29	J	mg/kg	1	02/16/2023 15:35
7440-47-3	Chromium	4.8		mg/kg	1	02/16/2023 15:35
7440-50-8	Copper	3.4		mg/kg	1	02/16/2023 15:35
7439-92-1	Lead	14.6		mg/kg	1	02/16/2023 15:35
7440-02-0	Nickel	6.3		mg/kg	1	02/16/2023 15:35
7782-49-2	Selenium	<0.28	U	mg/kg	1	02/16/2023 15:35
7440-22-4	Silver	<0.13	U	mg/kg	1	02/16/2023 15:35
7440-28-0	Thallium	<0.59	U	mg/kg	3	02/17/2023 08:44
7440-66-6	Zinc	21.6		mg/kg	1	02/16/2023 15:35

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-8 (0-2')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
 Lab Sample ID: 50336749011 Percent Moisture: 14.7

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	0.41	J	mg/kg	1	02/16/2023 15:39
7440-38-2	Arsenic	4.7		mg/kg	1	02/16/2023 15:39
7440-39-3	Barium	95.3		mg/kg	1	02/16/2023 15:39
7440-41-7	Beryllium	<0.11	U	mg/kg	1	02/16/2023 15:39
7440-43-9	Cadmium	0.43	J	mg/kg	1	02/16/2023 15:39
7440-47-3	Chromium	15.5		mg/kg	1	02/16/2023 15:39
7440-50-8	Copper	5.2		mg/kg	1	02/16/2023 15:39
7439-92-1	Lead	10.8		mg/kg	1	02/16/2023 15:39
7440-02-0	Nickel	12.9		mg/kg	1	02/16/2023 15:39
7782-49-2	Selenium	0.38	J	mg/kg	1	02/16/2023 15:39
7440-22-4	Silver	<0.14	U	mg/kg	1	02/16/2023 15:39
7440-28-0	Thallium	<0.22	U	mg/kg	1	02/16/2023 15:39
7440-66-6	Zinc	34.3		mg/kg	1	02/16/2023 15:39

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-8 (4-5')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
 Lab Sample ID: 50336749012 Percent Moisture: 21.0

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	<1.5	U	mg/kg	5	02/17/2023 08:48
7440-38-2	Arsenic	12.7		mg/kg	1	02/16/2023 16:05
7440-39-3	Barium	207		mg/kg	1	02/16/2023 16:05
7440-41-7	Beryllium	0.56	J	mg/kg	1	02/16/2023 16:05
7440-43-9	Cadmium	1.2		mg/kg	1	02/16/2023 16:05
7440-47-3	Chromium	25.3		mg/kg	1	02/16/2023 16:05
7440-50-8	Copper	32.3		mg/kg	1	02/16/2023 16:05
7439-92-1	Lead	734		mg/kg	1	02/16/2023 16:05
7440-02-0	Nickel	12.6		mg/kg	1	02/16/2023 16:05
7782-49-2	Selenium	1.1	J	mg/kg	1	02/16/2023 16:05
7440-22-4	Silver	0.33	J	mg/kg	1	02/16/2023 16:05
7440-28-0	Thallium	<1.1	U	mg/kg	5	02/17/2023 08:48
7440-66-6	Zinc	401		mg/kg	1	02/16/2023 16:05

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-9 (0-2')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
 Lab Sample ID: 50336749022 Percent Moisture: 7.3

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	<0.28	U	mg/kg	1	02/16/2023 16:09
7440-38-2	Arsenic	13.5		mg/kg	1	02/16/2023 16:09
7440-39-3	Barium	83.1		mg/kg	1	02/16/2023 16:09
7440-41-7	Beryllium	0.53	J	mg/kg	1	02/16/2023 16:09
7440-43-9	Cadmium	0.20	J	mg/kg	1	02/16/2023 16:09
7440-47-3	Chromium	22.1		mg/kg	1	02/16/2023 16:09
7440-50-8	Copper	53.9		mg/kg	1	02/16/2023 16:09
7439-92-1	Lead	25.8		mg/kg	1	02/16/2023 16:09
7440-02-0	Nickel	21.6		mg/kg	1	02/16/2023 16:09
7782-49-2	Selenium	0.57	J	mg/kg	1	02/16/2023 16:09
7440-22-4	Silver	0.23	J	mg/kg	1	02/16/2023 16:09
7440-28-0	Thallium	<0.21	U	mg/kg	1	02/17/2023 13:06
7440-66-6	Zinc	56.1		mg/kg	1	02/16/2023 16:09

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-10 (0-2')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
 Lab Sample ID: 50336749024 Percent Moisture: 11.9

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	0.48	J	mg/kg	1	02/16/2023 16:12
7440-38-2	Arsenic	8.7		mg/kg	1	02/16/2023 16:12
7440-39-3	Barium	157		mg/kg	1	02/16/2023 16:12
7440-41-7	Beryllium	0.35	J	mg/kg	1	02/16/2023 16:12
7440-43-9	Cadmium	5.6		mg/kg	1	02/16/2023 16:12
7440-47-3	Chromium	10.8		mg/kg	1	02/16/2023 16:12
7440-50-8	Copper	20.7		mg/kg	1	02/16/2023 16:12
7439-92-1	Lead	82.3		mg/kg	1	02/16/2023 16:12
7440-02-0	Nickel	12.8		mg/kg	1	02/16/2023 16:12
7782-49-2	Selenium	0.41	J	mg/kg	1	02/16/2023 16:12
7440-22-4	Silver	0.33	J	mg/kg	1	02/16/2023 16:12
7440-28-0	Thallium	<0.66	U	mg/kg	3	02/17/2023 08:51
7440-66-6	Zinc	1730		mg/kg	1	02/16/2023 16:12

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-11 (0-2')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
 Lab Sample ID: 50336749025 Percent Moisture: 4.1

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	0.28	J	mg/kg	1	02/16/2023 16:16
7440-38-2	Arsenic	1.4		mg/kg	1	02/16/2023 16:16
7440-39-3	Barium	51.6		mg/kg	1	02/16/2023 16:16
7440-41-7	Beryllium	<0.099	U	mg/kg	1	02/16/2023 16:16
7440-43-9	Cadmium	0.32	J	mg/kg	1	02/16/2023 16:16
7440-47-3	Chromium	4.4		mg/kg	1	02/16/2023 16:16
7440-50-8	Copper	2.0		mg/kg	1	02/16/2023 16:16
7439-92-1	Lead	1.6		mg/kg	1	02/16/2023 16:16
7440-02-0	Nickel	5.2		mg/kg	1	02/16/2023 16:16
7782-49-2	Selenium	<0.27	U	mg/kg	1	02/16/2023 16:16
7440-22-4	Silver	<0.12	U	mg/kg	1	02/16/2023 16:16
7440-28-0	Thallium	<0.19	U	mg/kg	1	02/17/2023 13:10
7440-66-6	Zinc	17.5		mg/kg	1	02/16/2023 16:16

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-12 (0-1')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
 Lab Sample ID: 50336749026 Percent Moisture: 5.2

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	0.52	J	mg/kg	1	02/16/2023 16:20
7440-38-2	Arsenic	2.0		mg/kg	1	02/16/2023 16:20
7440-39-3	Barium	62.8		mg/kg	1	02/16/2023 16:20
7440-41-7	Beryllium	<0.10	U	mg/kg	1	02/16/2023 16:20
7440-43-9	Cadmium	0.30	J	mg/kg	1	02/16/2023 16:20
7440-47-3	Chromium	5.7		mg/kg	1	02/16/2023 16:20
7440-50-8	Copper	3.8		mg/kg	1	02/16/2023 16:20
7439-92-1	Lead	5.2		mg/kg	1	02/16/2023 16:20
7440-02-0	Nickel	7.8		mg/kg	1	02/16/2023 16:20
7782-49-2	Selenium	<0.27	U	mg/kg	1	02/16/2023 16:20
7440-22-4	Silver	<0.12	U	mg/kg	1	02/16/2023 16:20
7440-28-0	Thallium	<0.19	U	mg/kg	1	02/17/2023 13:13
7440-66-6	Zinc	23.7		mg/kg	1	02/16/2023 16:20

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-13 (0-2')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
 Lab Sample ID: 50336749027 Percent Moisture: 10.2

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	0.54	J	mg/kg	1	02/16/2023 16:24
7440-38-2	Arsenic	1.7		mg/kg	1	02/16/2023 16:24
7440-39-3	Barium	43.1		mg/kg	1	02/16/2023 16:24
7440-41-7	Beryllium	<0.11	U	mg/kg	1	02/16/2023 16:24
7440-43-9	Cadmium	0.31	J	mg/kg	1	02/16/2023 16:24
7440-47-3	Chromium	5.2		mg/kg	1	02/16/2023 16:24
7440-50-8	Copper	2.7		mg/kg	1	02/16/2023 16:24
7439-92-1	Lead	5.4		mg/kg	1	02/16/2023 16:24
7440-02-0	Nickel	6.0		mg/kg	1	02/16/2023 16:24
7782-49-2	Selenium	<0.30	U	mg/kg	1	02/16/2023 16:24
7440-22-4	Silver	<0.14	U	mg/kg	1	02/16/2023 16:24
7440-28-0	Thallium	<0.22	U	mg/kg	1	02/17/2023 13:17
7440-66-6	Zinc	17.8		mg/kg	1	02/16/2023 16:24

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-13 (2-3')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
 Lab Sample ID: 50336749028 Percent Moisture: 17.5

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	<0.30	U	mg/kg	1	02/16/2023 16:27
7440-38-2	Arsenic	9.3		mg/kg	1	02/16/2023 16:27
7440-39-3	Barium	143		mg/kg	1	02/16/2023 16:27
7440-41-7	Beryllium	0.86		mg/kg	1	02/16/2023 16:27
7440-43-9	Cadmium	0.41	J	mg/kg	1	02/16/2023 16:27
7440-47-3	Chromium	14.9		mg/kg	1	02/16/2023 16:27
7440-50-8	Copper	18.4		mg/kg	1	02/16/2023 16:27
7439-92-1	Lead	41.7		mg/kg	1	02/16/2023 16:27
7440-02-0	Nickel	15.1		mg/kg	1	02/16/2023 16:27
7782-49-2	Selenium	0.77	J	mg/kg	1	02/16/2023 16:27
7440-22-4	Silver	0.50	J	mg/kg	1	02/16/2023 16:27
7440-28-0	Thallium	<1.1	U	mg/kg	5	02/17/2023 08:55
7440-66-6	Zinc	90.5		mg/kg	1	02/16/2023 16:27

FORM II INORGANIC-1
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286

Initial Calibration Verification Source: 338486

Continuing Calibration Verification Source: 338487

Concentration Units: ug/L Instrument ID: 50ICP4

Analyte	Initial Calibration Verification				Continuing Calibration Verification						
	02/16/2023 11:55				02/16/2023 12:52			02/16/2023 14:21			Control Limit
	True	Found	%R	Control Limit	True	Found	%R	True	Found	%R	
Antimony	1000	985	98.5	90-110	1000	980	98.0	1000	986	98.6	90-110
Arsenic	1000	982	98.2	90-110	1000	984	98.4	1000	984	98.4	90-110
Barium	1000	979	97.9	90-110	1000	978	97.8	1000	974	97.4	90-110
Beryllium	1000	1000	100.2	90-110	1000	998	99.8	1000	995	99.5	90-110
Cadmium	1000	980	98.0	90-110	1000	978	97.8	1000	978	97.8	90-110
Chromium	1000	988	98.8	90-110	1000	987	98.7	1000	986	98.6	90-110
Copper	1000	940	94.0	90-110	1000	940	94.0	1000	940	94.0	90-110
Lead	1000	961	96.1	90-110	1000	960	96.0	1000	959	95.9	90-110
Nickel	1000	992	99.2	90-110	1000	993	99.3	1000	985	98.5	90-110
Selenium	1000	1010	100.7	90-110	1000	1000	100.0	1000	998	99.8	90-110
Silver	500	488	97.5	90-110	500	484	96.7	500	485	97.1	90-110
Thallium	1000	964	96.4	90-110	1000	954	95.4	1000	949	94.9	90-110
Zinc	1000	982	98.2	90-110	1000	982	98.2	1000	966	96.6	90-110

FORM II INORGANIC-2
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286

Initial Calibration Verification Source: _____

Continuing Calibration Verification Source: 338487

Concentration Units: ug/L Instrument ID: 50ICP4

Analyte	Continuing Calibration Verification									Control Limit
	02/16/2023 15:06			02/16/2023 15:50			02/16/2023 16:35			
	True	Found	%R	True	Found	%R	True	Found	%R	
Antimony	1000	980	98.0	1000	946	94.6	1000	918	91.8	90-110
Arsenic	1000	977	97.7	1000	974	97.4	1000	988	98.8	90-110
Barium	1000	971	97.1	1000	959	95.9	1000	959	95.9	90-110
Beryllium	1000	994	99.4	1000	986	98.6	1000	986	98.6	90-110
Cadmium	1000	978	97.8	1000	967	96.7	1000	964	96.4	90-110
Chromium	1000	989	98.9	1000	955	95.5	1000	956	95.6	90-110
Copper	1000	943	94.3	1000	911	91.1	1000	902	90.2	90-110
Lead	1000	953	95.3	1000	949	94.9	1000	959	95.9	90-110
Nickel	1000	988	98.8	1000	960	96.0	1000	946	94.6	90-110
Selenium	1000	993	99.3	1000	971	97.1	1000	968	96.8	90-110
Silver	500	484	96.9	500	482	96.5	500	489	97.8	90-110
Thallium	1000	952	95.2	1000	927	92.7	1000	898	89.8	90-110
Zinc	1000	972	97.2	1000	950	95.0	1000	946	94.6	90-110

FORM II INORGANIC-1
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286

Initial Calibration Verification Source: 338848

Continuing Calibration Verification Source: 338849

Concentration Units: ug/L Instrument ID: 50ICP4

	Initial Calibration Verification				Continuing Calibration Verification			
	02/17/2023 08:05				02/17/2023 09:06			Control Limit
Analyte	True	Found	%R	Control Limit	True	Found	%R	
Antimony	1000	982	98.2	90-110	1000	984	98.4	90-110
Thallium	1000	965	96.5	90-110	1000	970	97.0	90-110

FORM II INORGANIC-1
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286

Initial Calibration Verification Source: 338848

Continuing Calibration Verification Source: 338849

Concentration Units: ug/L Instrument ID: 50ICP4

	Initial Calibration Verification				Continuing Calibration Verification						
	02/17/2023 09:47				02/17/2023 10:42			02/17/2023 12:55			Control Limit
Analyte	True	Found	%R	Control Limit	True	Found	%R	True	Found	%R	
Thallium	1000	960	96.0	90-110	1000	959	95.9	1000	1000	100.1	90-110

FORM II INORGANIC-2
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286

Initial Calibration Verification Source: _____

Continuing Calibration Verification Source: 338849

Concentration Units: ug/L Instrument ID: 50ICP4

	Continuing Calibration Verification			
	02/17/2023 13:39			Control Limit
Analyte	True	Found	%R	
Thallium	1000	1010	101.1	90-110

FORM II INORGANIC-1
CRDL CHECK STANDARD

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286

CRDL Check Standard Source: _____ Analysis Date/Time: 02/16/2023 12:02

Concentration Units: ug/L

Analyte	CRDL Check Standard			
	True	Found	%R	Control Limit %R
Antimony	6.0	6.1	101.4	50-150
Arsenic	5.0	3.9	78.0	50-150
Barium	5.0	6.8	135.2	50-150
Beryllium	3.0	2.6	88.3	50-150
Cadmium	1.0	0.93	92.8	50-150
Chromium	5.0	5.9	117.5	50-150
Copper	5.0	3.3	66.3	50-150
Lead	5.0	4.3	85.5	50-150
Nickel	5.0	5.0	100.7	50-150
Selenium	10.0	13.5	135.0	50-150
Silver	5.0	6.1	122.7	50-150
Thallium	10.0	13.7	136.8	50-150
Zinc	10.0	10.0	100.5	50-150

FORM II INORGANIC-1
CRDL CHECK STANDARD

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286

CRDL Check Standard Source: _____ Analysis Date/Time: 02/17/2023 08:22

Concentration Units: ug/L

Analyte	CRDL Check Standard			
	True	Found	%R	Control Limit %R
Antimony	6.0	5.5	91.7	50-150
Thallium	10.0	12.0	120.0	50-150

FORM II INORGANIC-1
CRDL CHECK STANDARD

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286

CRDL Check Standard Source: _____ Analysis Date/Time: 02/17/2023 09:51

Concentration Units: ug/L

Analyte	CRDL Check Standard			
	True	Found	%R	Control Limit %R
Thallium	10.0	11.6	116.3	50-150

FORM III INORGANIC-1
BLANKS

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract : Hospital #22-286

Method Blank Matrix: Solid Instrument ID: 50ICP4

Method Blank Concentration Units: mg/kg

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Method Blank	
	02/16/2023 11:58	C	02/16/2023 12:55	C	02/16/2023 14:25	C	02/16/2023 15:09	C	3298611	C
Antimony	4.0	U	4.0	U	4.0	U	4.9	J	<0.26	U
Arsenic	5.0	U	5.0	U	5.0	U	5.0	U	<0.17	U
Barium	5.0	U	5.0	U	5.0	U	5.0	U	<0.19	U
Beryllium	2.0	U	2.0	U	2.0	U	2.0	U	<0.10	U
Cadmium	1.0	U	1.0	U	1.0	U	1.0	U	<0.023	U
Chromium	5.0	U	5.0	U	5.0	U	5.0	U	<0.95	U
Copper	5.0	U	5.0	U	5.0	U	5.0	U	<0.24	U
Lead	4.0	U	4.0	U	4.0	U	4.0	U	<0.46	U
Nickel	5.0	U	5.0	U	5.0	U	5.0	U	<0.13	U
Selenium	5.0	U	5.0	U	5.0	U	5.0	U	<0.28	U
Silver	5.0	U	5.0	U	5.0	U	5.0	U	<0.13	U
Thallium	5.0	U	5.0	U	5.0	U	5.0	U	<0.20	U
Zinc	10.0	U	10.0	U	10.0	U	10.0	U	<0.86	U

FORM III INORGANIC-2

BLANKS

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract : Hospital #22-286

Method Blank Matrix: _____ Instrument ID: 50ICP4

Method Blank Concentration Units: _____

Analyte	Initial Calibration Blank		Continuing Calibration Blank (ug/L)					
		C	02/16/2023 15:54	C	02/16/2023 16:45	C		C
Antimony			4.0	U	4.0	U		
Arsenic			5.0	U	5.0	U		
Barium			5.0	U	5.0	U		
Beryllium			2.0	U	2.0	U		
Cadmium			1.0	U	1.0	U		
Chromium			5.0	U	5.0	U		
Copper			5.0	U	5.0	U		
Lead			4.0	U	4.0	U		
Nickel			5.0	U	5.0	U		
Selenium			5.0	U	5.0	U		
Silver			5.0	U	5.0	U		
Thallium			5.0	U	5.0	U		
Zinc			10.0	U	10.0	U		

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract : Hospital #22-286

Method Blank Matrix: _____ Instrument ID: 50ICP4

Method Blank Concentration Units: _____

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)					
	02/17/2023 08:09	C	02/17/2023 09:10	C		C		C
Antimony	4.0	U	4.0	U				
Thallium	5.0	U	5.0	U				

FORM III INORGANIC-1
BLANKS

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract : Hospital #22-286

Method Blank Matrix: _____ Instrument ID: 50ICP4

Method Blank Concentration Units: _____

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)					
	02/17/2023 09:49	C	02/17/2023 10:46	C	02/17/2023 12:58	C	02/17/2023 13:43	C
Thallium	5.0	U	5.0	U	5.0	U	5.0	U

FORM IV INORGANIC-1
INTERFERENCE CHECK SAMPLE

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286

Instrument ID: 50ICP4

Solution A Run Date: 02/16/2023 12:06

ICS Source: 338532,338533

Solution AB Run Date: 02/16/2023 12:10

Concentration Units: ug/L

Analyte	True		Found				
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Limits
Aluminum	500000	500000	530500	106.1	513000	102.6	80-120
Antimony		500	0.455		504.8	101	80-120
Arsenic		500	11.34		522.2	104.4	80-120
Barium		500	0.4449		515	103	80-120
Beryllium		500	-0.4992		510.4	102.1	80-120
Cadmium		500	0.0248		513.3	102.7	80-120
Calcium	500000	500000	523200	104.6	514500	102.9	80-120
Chromium		500	0.1261		473.5	94.7	80-120
Copper		500	1.902		487.6	97.5	80-120
Iron	200000	200000	192800	96.4	189600	94.8	80-120
Lead		500	5.821		461.1	92.2	80-120
Magnesium	500000	500000	535500	107.1	527000	105.4	80-120
Nickel		500	4.869		458.3	91.7	80-120
Selenium		500	7.211		507.1	101.4	80-120
Silver		250	-0.0228		271.3	108.5	80-120
Thallium		500	-1.302		436.8	87.4	80-120
Zinc		500	-7.038		459.7	91.9	80-120

FORM IV INORGANIC-1
INTERFERENCE CHECK SAMPLE

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286

Instrument ID: 50ICP4

Solution A Run Date: 02/17/2023 08:29

ICS Source: 338532,338533

Solution AB Run Date: 02/17/2023 08:33

Concentration Units: ug/L

Analyte	True		Found				
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Limits
Aluminum	500000	500000	507500	101.5	504200	100.8	80-120
Antimony		500	4.472		514.6	102.9	80-120
Arsenic		500	4.815		498.8	99.8	80-120
Barium		500	1.462		507.3	101.5	80-120
Beryllium		500	-0.3887		493.3	98.7	80-120
Cadmium		500	0.242		502	100.4	80-120
Calcium	500000	500000	494700	98.9	493200	98.6	80-120
Chromium		500	-0.0929		465	93	80-120
Copper		500	2.376		496.7	99.3	80-120
Iron	200000	200000	190400	95.2	189800	94.9	80-120
Lead		500	15.16		451.5	90.3	80-120
Magnesium	500000	500000	518000	103.6	515200	103	80-120
Nickel		500	5.348		454.5	90.9	80-120
Selenium		500	11.96		505.6	101.1	80-120
Silver		250	-2.645		264.8	105.9	80-120
Thallium		500	-0.7609		436.3	87.3	80-120
Zinc		500	-6.573		443.7	88.7	80-120

FORM IV INORGANIC-1
INTERFERENCE CHECK SAMPLE

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286

Instrument ID: 50ICP4

Solution A Run Date: 02/17/2023 09:58

ICS Source: 338881,338882

Solution AB Run Date: 02/17/2023 10:02

Concentration Units: ug/L

Analyte	True		Found				
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Limits
Aluminum	500000	500000	495300	99.1	501800	100.4	80-120
Antimony		500	0.9459		510.9	102.2	80-120
Arsenic		500	1.172		494.2	98.8	80-120
Barium		500	2.058		509.3	101.9	80-120
Beryllium		500	-0.6294		491.9	98.4	80-120
Cadmium		500	0.4073		498	99.6	80-120
Calcium	500000	500000	487200	97.4	494800	99	80-120
Chromium		500	0.5914		466.7	93.3	80-120
Copper		500	1.691		489.5	97.9	80-120
Iron	200000	200000	186700	93.4	189400	94.7	80-120
Lead		500	17.45		450.5	90.1	80-120
Magnesium	500000	500000	506800	101.4	515000	103	80-120
Nickel		500	5.573		454.6	90.9	80-120
Selenium		500	10.29		490.9	98.2	80-120
Silver		250	-0.9563		269.6	107.8	80-120
Thallium		500	-2.991		434.4	86.9	80-120
Zinc		500	-6.945		445.1	89	80-120

FORM V INORGANIC-1
MATRIX SPIKE SAMPLE RECOVERY

SAMPLE NO.

3298613MS

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286

Matrix: Solid Basis: Dry Parent Sample ID: SP-8 (0-2')

Percent Moisture: 14.7

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Antimony	mg/kg	75-125	23.2	0.41J	54.8	42*
Arsenic	mg/kg	75-125	64.5	4.7	54.8	109
Barium	mg/kg	75-125	130	95.3	54.8	64*
Beryllium	mg/kg	75-125	54.7	<0.11	54.8	100
Cadmium	mg/kg	75-125	55.8	0.43J	54.8	101
Chromium	mg/kg	75-125	72.7	15.5	54.8	104
Copper	mg/kg	75-125	62.6	5.2	54.8	105
Lead	mg/kg	75-125	83.1	10.8	54.8	132*
Nickel	mg/kg	75-125	59.8	12.9	54.8	85
Selenium	mg/kg	75-125	55.3	0.38J	54.8	100
Silver	mg/kg	75-125	29.7	<0.14	27.3	108
Thallium	mg/kg	75-125	40.1	<0.22	54.8	73*
Zinc	mg/kg	75-125	99.0	34.3	54.8	118

* Spike Recovery outside QC Limits

FORM V INORGANIC-2
MATRIX SPIKE SAMPLE RECOVERY

SAMPLE NO.

3298614MSD

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286

Matrix: Solid Basis: Dry Parent Sample ID: SP-8 (0-2')

Percent Moisture: 14.7

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Antimony	mg/kg	75-125	26.6	0.41J	55.1	47*
Arsenic	mg/kg	75-125	62.6	4.7	55.1	105
Barium	mg/kg	75-125	123	95.3	55.1	51*
Beryllium	mg/kg	75-125	53.5	<0.11	55.1	97
Cadmium	mg/kg	75-125	56.7	0.43J	55.1	102
Chromium	mg/kg	75-125	75.6	15.5	55.1	109
Copper	mg/kg	75-125	61.9	5.2	55.1	103
Lead	mg/kg	75-125	68.7	10.8	55.1	105
Nickel	mg/kg	75-125	57.6	12.9	55.1	81
Selenium	mg/kg	75-125	56.5	0.38J	55.1	102
Silver	mg/kg	75-125	30.1	<0.14	27.6	109
Thallium	mg/kg	75-125	39.7	<0.22	55.1	72*
Zinc	mg/kg	75-125	86.8	34.3	55.1	95

* Spike Recovery outside QC Limits

FORM V INORGANIC-1
POST-DIGESTION SPIKE SAMPLE RECOVERY

SAMPLE NO.

3300640PDS

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286

Matrix: Solid Parent Sample ID: SP-8 (0-2')

Analyte	Units	Control Limit %R	DF	Spiked Sample Result (SSR)	DF	Sample Result (SR)	Spike Added (SA)	%R
Antimony	ug/L	75-125	1	1030	1	7.5J	1000	102.1
Arsenic	ug/L	75-125	1	1180	1	85.8	1000	109.0
Barium	ug/L	75-125	1	2700	1	1740	1000	95.3
Beryllium	ug/L	75-125	1	957	1	2.0U	1000	95.7
Cadmium	ug/L	75-125	1	1050	1	7.9J	1000	104.5
Chromium	ug/L	75-125	1	1150	1	284	1000	86.8
Copper	ug/L	75-125	1	1050	1	96.1	1000	95.8
Lead	ug/L	75-125	1	1020	1	197	1000	81.8
Nickel	ug/L	75-125	1	1040	1	237	1000	80.8
Selenium	ug/L	75-125	1	1060	1	6.9J	1000	105.8
Silver	ug/L	75-125	1	566	1	2.5U	500	113.1
Thallium	ug/L	75-125	1	719	1	4.0U	1000	71.9*
Zinc	ug/L	75-125	1	1420	1	628	1000	79.1

FORM VI INORGANIC-1
 DUPLICATES

SAMPLE NO.

3298614MSD

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286

Matrix: Solid Concentration Units: mg/kg

Percent Moisture: 14.7 Basis: Dry

Analyte	RPD Control Limit	Sample	Duplicate	RPD
Antimony	20	23.2	26.6	13
Arsenic	20	64.5	62.6	3
Barium	20	130	123	6
Beryllium	20	54.7	53.5	2
Cadmium	20	55.8	56.7	2
Chromium	20	72.7	75.6	4
Copper	20	62.6	61.9	1
Lead	20	83.1	68.7	19
Nickel	20	59.8	57.6	4
Selenium	20	55.3	56.5	2
Silver	20	29.7	30.1	1
Thallium	20	40.1	39.7	1
Zinc	20	99.0	86.8	13

FORM VII INORGANIC-1
LABORATORY CONTROL SAMPLE

SAMPLE NO.

3298612LCS

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286

Matrix: Solid

Analyte	Units	True	Found	%R	Limits	
Antimony	mg/kg	50.0	51.8	104	80	120
Arsenic	mg/kg	50.0	51.9	104	80	120
Barium	mg/kg	50.0	50.8	102	80	120
Beryllium	mg/kg	50.0	52.1	104	80	120
Cadmium	mg/kg	50.0	51.2	102	80	120
Chromium	mg/kg	50.0	51.4	103	80	120
Copper	mg/kg	50.0	50.6	101	80	120
Lead	mg/kg	50.0	49.9	100	80	120
Nickel	mg/kg	50.0	51.4	103	80	120
Selenium	mg/kg	50.0	52.5	105	80	120
Silver	mg/kg	25.0	25.9	103	80	120
Thallium	mg/kg	50.0	49.5	99	80	120
Zinc	mg/kg	50.0	49.8	100	80	120

FORM VIII INORGANIC-1
SERIAL DILUTIONS

3300639SD

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286Matrix: Solid Parent Sample ID: SP-8 (0-2')

Analyte	Units	Initial Sample Result	Serial Dilution Result	% Difference	Control Limit %D
Antimony	ug/L	7.5J	37.2J	397.7*	10
Arsenic	ug/L	85.8	78.4J	8.7	10
Barium	ug/L	1740	1740	0.5	10
Beryllium	ug/L	2.0U	10.2U		10
Cadmium	ug/L	7.9J	8.2J	3.2	10
Chromium	ug/L	284	316	11.1*	10
Copper	ug/L	96.1	89.5J	6.9	10
Lead	ug/L	197	213	8.2	10
Nickel	ug/L	237	259	9.4	10
Selenium	ug/L	6.9J	27.7U		10
Silver	ug/L	2.5U	12.6U		10
Thallium	ug/L	4.0U	19.8U		10
Zinc	ug/L	628	711	13.2*	10

* Indicates that the % Difference exceeds the control limit.
No difference is calculated if either result is a non-detect.

02/20/2023 12:39

FORM XI - INORGANIC-1
LINEAR DYNAMIC RANGES

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract : Hospital #22-286
Instrument ID: 50ICP4 Effective Date:06/24/2022

Analyte	Concentration (ug/L)
Antimony	40000
Arsenic	35000
Barium	25000
Beryllium	10000
Cadmium	20000
Chromium	25000
Copper	100000
Lead	100000
Nickel	100000
Selenium	50000
Silver	10000
Thallium	50000
Zinc	50000

FORM XII INORGANIC-1
PREPARATION LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286

Preparation Method: EPA 3050 Batch: MPRP 53870

Lab Sample ID	Sample Name	Preparation Date	Initial Weight (g)	Final Volume (mL)
3298611	3298611BLANK	02/15/2023	1	50
3298612	3298612LCS	02/15/2023	1	50
3298613	3298613MS	02/15/2023	1.0708	50
3298614	3298614MSD	02/15/2023	1.0638	50
50336749001	SP-1 (0-2')	02/15/2023	1.0041	50
50336749002	SP-2 (0-2')	02/15/2023	1.0429	50
50336749003	SP-3 (0-1')	02/15/2023	1.0111	50
50336749004	SP-4 (0-2')	02/15/2023	1.0395	50
50336749005	SP-4 Dup (0-2')	02/15/2023	1.0165	50
50336749006	SP-4 (8-10')	02/15/2023	1.0672	50
50336749007	SP-5 (5-6')	02/15/2023	1.0743	50
50336749008	SP-5 (8-10')	02/15/2023	1.0681	50
50336749009	SP-6 (0-2')	02/15/2023	1.0167	50
50336749010	SP-7 (0-2')	02/15/2023	1.0351	50
50336749011	SP-8 (0-2')	02/15/2023	1.0743	50
50336749012	SP-8 (4-5')	02/15/2023	1.1096	50
50336749022	SP-9 (0-2')	02/15/2023	1.0027	50
50336749024	SP-10 (0-2')	02/15/2023	1.0231	50
50336749025	SP-11 (0-2')	02/15/2023	1.0798	50
50336749026	SP-12 (0-1')	02/15/2023	1.0801	50
50336749027	SP-13 (0-2')	02/15/2023	1.0247	50
50336749028	SP-13 (2-3')	02/15/2023	1.0541	50

FORM XIII INORGANIC-1
ANALYSIS RUN LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286

Instrument ID: 50ICP4 Analysis Method: EPA 6010

Start Date: 02/16/2023 11:25 End Date: 02/16/2023 16:45

Sample Name	Lab Sample ID	D/F	Date	Time	Ag	As	Ba	Be	Cd	Cr	Cu	Ni	Pb	Sb	Se	Tl	Zn
22440005CAL0	22440005CAL0	1	02/16/2023	11:25	X	X	X	X	X	X	X	X	X	X	X	X	X
22440006CAL7	22440006CAL7	1	02/16/2023	11:29	X												
22440007CAL1	22440007CAL1	1	02/16/2023	11:32				X	X				X		X		X
22440008CAL2	22440008CAL2	1	02/16/2023	11:36			X				X						
22440009CAL3	22440009CAL3	1	02/16/2023	11:40		X											
22440010CAL4	22440010CAL4	1	02/16/2023	11:44						X		X					
22440011CAL5	22440011CAL5	1	02/16/2023	11:47										X		X	
22440013ICV	22440013ICV	1	02/16/2023	11:55	X	X	X	X	X	X	X	X	X	X	X	X	X
22440014ICB	22440014ICB	1	02/16/2023	11:58	X	X	X	X	X	X	X	X	X	X	X	X	X
22440015CRDLA	22440015CRDLA	1	02/16/2023	12:02	X	X	X	X	X	X	X	X	X	X	X	X	X
22440016ICSA	22440016ICSA	1	02/16/2023	12:06	X	X	X	X	X	X	X	X	X	X	X	X	X
22440017ICSAB	22440017ICSAB	1	02/16/2023	12:10	X	X	X	X	X	X	X	X	X	X	X	X	X
22440023CCV	22440023CCV	1	02/16/2023	12:52	X	X	X	X	X	X	X	X	X	X	X	X	X
22440024CCB	22440024CCB	1	02/16/2023	12:55	X	X	X	X	X	X	X	X	X	X	X	X	X
22440030CCV	22440030CCV	1	02/16/2023	14:21	X	X	X	X	X	X	X	X	X	X	X	X	X
22440031CCB	22440031CCB	1	02/16/2023	14:25	X	X	X	X	X	X	X	X	X	X	X	X	X
3298611BLANK	3298611	1	02/16/2023	14:29	X	X	X	X	X	X	X	X	X	X	X	X	X
3298612LCS	3298612	1	02/16/2023	14:32	X	X	X	X	X	X	X	X	X	X	X	X	X
SP-1 (0-2')	50336749001	1	02/16/2023	14:36	X	X	X	X	X	X	X	X	X	X	X	X	X
SP-2 (0-2')	50336749002	1	02/16/2023	14:40	X	X	X	X	X	X	X	X	X	X	X	X	X
SP-3 (0-1')	50336749003	1	02/16/2023	14:43	X	X	X	X	X	X	X	X	X	X	X	X	X
22440037CCV	22440037CCV	1	02/16/2023	15:06	X	X	X	X	X	X	X	X	X	X	X	X	X
22440038CCB	22440038CCB	1	02/16/2023	15:09	X	X	X	X	X	X	X	X	X	X	X	X	X
SP-4 (0-2')	50336749004	1	02/16/2023	15:13	X	X	X	X	X	X	X	X	X	X	X	X	X
SP-4 Dup (0-2')	50336749005	1	02/16/2023	15:17	X	X	X	X	X	X	X	X	X	X	X	X	X
SP-4 (8-10')	50336749006	1	02/16/2023	15:21	X	X	X	X	X	X	X	X			X	X	X
SP-5 (5-6')	50336749007	1	02/16/2023	15:24	X	X	X	X	X	X	X	X	X	X			X
SP-5 (8-10')	50336749008	1	02/16/2023	15:28	X	X	X	X	X	X	X	X	X	X			X
SP-6 (0-2')	50336749009	1	02/16/2023	15:32	X	X	X	X	X	X	X	X	X	X	X	X	X
SP-7 (0-2')	50336749010	1	02/16/2023	15:35	X	X	X	X	X	X	X	X	X	X			X
SP-8 (0-2')	50336749011	1	02/16/2023	15:39	X	X	X	X	X	X	X	X	X	X	X	X	X
3298613MS	3298613	1	02/16/2023	15:43	X	X	X	X	X	X	X	X	X	X	X	X	X
3298614MSD	3298614	1	02/16/2023	15:46	X	X	X	X	X	X	X	X	X	X	X	X	X
22440039CCV	22440039CCV	1	02/16/2023	15:50	X	X	X	X	X	X	X	X	X	X	X	X	X
22440040CCB	22440040CCB	1	02/16/2023	15:54	X	X	X	X	X	X	X	X	X	X	X	X	X
3300639SD	3300639	1	02/16/2023	15:57	X	X	X	X	X	X	X	X	X	X	X	X	X
3300640PDS	3300640	1	02/16/2023	16:01	X	X	X	X	X	X	X	X	X	X	X	X	X
SP-8 (4-5')	50336749012	1	02/16/2023	16:05	X	X	X	X	X	X	X	X			X		X
SP-9 (0-2')	50336749022	1	02/16/2023	16:09	X	X	X	X	X	X	X	X	X	X			X
SP-10 (0-2')	50336749024	1	02/16/2023	16:12	X	X	X	X	X	X	X	X	X	X			X
SP-11 (0-2')	50336749025	1	02/16/2023	16:16	X	X	X	X	X	X	X	X	X	X			X
SP-12 (0-1')	50336749026	1	02/16/2023	16:20	X	X	X	X	X	X	X	X	X	X			X
SP-13 (0-2')	50336749027	1	02/16/2023	16:24	X	X	X	X	X	X	X	X	X	X			X
SP-13 (2-3')	50336749028	1	02/16/2023	16:27	X	X	X	X	X	X	X	X	X	X			X
SP-4 (8-10')	50336749006	3	02/16/2023	16:31										X			

02/20/2023 12:40

FORM XIII INORGANIC-2
ANALYSIS RUN LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286

Instrument ID: 50ICP4 Analysis Method: EPA 6010

Start Date: 02/16/2023 11:25 End Date: 02/16/2023 16:45

Sample Name	Lab Sample ID	D/F	Date	Time	Ag	As	Ba	Be	Cd	Cr	Cu	Ni	Pb	Sb	Se	Tl	Zn
22440041CCV	22440041CCV	1	02/16/2023	16:35	X	X	X	X	X	X	X	X	X	X	X	X	X
22440042CCB	22440042CCB	1	02/16/2023	16:45	X	X	X	X	X	X	X	X	X	X	X	X	X

FORM XIII INORGANIC-1
ANALYSIS RUN LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286

Instrument ID: 50ICP4 Analysis Method: EPA 6010

Start Date: 02/17/2023 07:35 End Date: 02/17/2023 09:10

Sample Name	Lab Sample ID	D/F	Date	Time	Sb	Tl
22442529CAL0	22442529CAL0	1	02/17/2023	07:35	X	X
22442535CAL5	22442535CAL5	1	02/17/2023	07:58	X	X
22442537ICV	22442537ICV	1	02/17/2023	08:05	X	X
22442538ICB	22442538ICB	1	02/17/2023	08:09	X	X
22442539CRDLA	22442539CRDLA	1	02/17/2023	08:22	X	X
22442540ICSA	22442540ICSA	1	02/17/2023	08:29	X	X
22442541ICSAB	22442541ICSAB	1	02/17/2023	08:33	X	X
SP-5 (5-6')	50336749007	3	02/17/2023	08:37		X
SP-5 (8-10')	50336749008	3	02/17/2023	08:40		X
SP-7 (0-2')	50336749010	3	02/17/2023	08:44		X
SP-8 (4-5')	50336749012	5	02/17/2023	08:48	X	X
SP-10 (0-2')	50336749024	3	02/17/2023	08:51		X
SP-13 (2-3')	50336749028	5	02/17/2023	08:55		X
22442542CCV	22442542CCV	1	02/17/2023	09:06	X	X
22442543CCB	22442543CCB	1	02/17/2023	09:10	X	X

FORM XIII INORGANIC-1
ANALYSIS RUN LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286

Instrument ID: 50ICP4 Analysis Method: EPA 6010

Start Date: 02/17/2023 09:17 End Date: 02/17/2023 13:43

Sample Name	Lab Sample ID	D/F	Date	Time	TI
22444878CAL0	22444878CAL0	1	02/17/2023	09:17	X
22444884CAL5	22444884CAL5	1	02/17/2023	09:39	X
22444886ICV	22444886ICV	1	02/17/2023	09:47	X
22444887ICB	22444887ICB	1	02/17/2023	09:49	X
22444888CRDLA	22444888CRDLA	1	02/17/2023	09:51	X
22444889ICSA	22444889ICSA	1	02/17/2023	09:58	X
22444890ICSAB	22444890ICSAB	1	02/17/2023	10:02	X
22444935CCV	22444935CCV	1	02/17/2023	10:42	X
22444936CCB	22444936CCB	1	02/17/2023	10:46	X
22447663CCV	22447663CCV	1	02/17/2023	12:55	X
22447664CCB	22447664CCB	1	02/17/2023	12:58	X
SP-9 (0-2')	50336749022	1	02/17/2023	13:06	X
SP-11 (0-2')	50336749025	1	02/17/2023	13:10	X
SP-12 (0-1')	50336749026	1	02/17/2023	13:13	X
SP-13 (0-2')	50336749027	1	02/17/2023	13:17	X
22447669CCV	22447669CCV	1	02/17/2023	13:39	X
22447670CCB	22447670CCB	1	02/17/2023	13:43	X

FORM XV INORGANIC-1
INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286

Instrument ID: 50ICP4 Start Date: 02/16/2023 11:25 End Date: 02/16/2023 16:45

Sample Name	Time	Y1	Y2	Y3
22440005CAL0	11:25	100.0	100.0	100.0
22440006CAL7	11:29	100.2		
22440007CAL1	11:32	99.5	98.9	99.5
22440008CAL2	11:36	99.1	99.1	98.7
22440009CAL3	11:40	100.7	100.5	
22440010CAL4	11:44	100.1	99.5	99.2
22440011CAL5	11:47	99.8	98.5	
22440012CAL6	11:51	98.5	97.0	97.7
22440013ICV	11:55	98.9	98.0	97.8
22440014ICB	11:58	99.1	99.2	99.2
22440015CRDLA	12:02	99.7	99.4	99.5
22440016ICSA	12:06	88.9	85.7	93.2
22440017ICSAB	12:10	90.3	86.1	91.6
22440023CCV	12:52	10113.0	31282.0	5555.9
22440024CCB	12:55	10088.0	31059.0	5485.4
22440030CCV	14:21	10264.0	31503.0	5777.6
22440031CCB	14:25	10288.0	31754.0	5744.6
22440037CCV	15:06	10060.0	31057.0	5644.4
22440038CCB	15:09	10215.0	31426.0	5599.0
22440039CCV	15:50	9986.2	30390.0	5362.4
22440040CCB	15:54	9868.1	30230.0	5226.7
3300639SD	15:57	9104.2	27463.0	5154.5
3300640PDS	16:01	8389.9	25647.0	5286.2
22440041CCV	16:35	10042.0	30467.0	5281.0
22440042CCB	16:45	9837.0	29847.0	5067.0

FORM XV INORGANIC-1
INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286

Instrument ID: 50ICP4 Start Date: 02/17/2023 07:35 End Date: 02/17/2023 09:10

Sample Name	Time	Y1	Y2	Y3
22442529CAL0	07:35	100.0	100.0	100.0
22442530CAL7	07:39	101.3		
22442531CAL1	07:43	99.4	98.4	97.7
22442532CAL2	07:47	99.8	98.4	97.2
22442533CAL3	07:50	102.6	102.3	
22442534CAL4	07:54	100.1	99.2	101.0
22442535CAL5	07:58	100.3	99.9	
22442536CAL6	08:01	98.5	97.2	97.7
22442537ICV	08:05	100.4	97.9	99.6
22442538ICB	08:09	99.8	100.0	99.7
22442539CRDLA	08:22	9969.7	32262.0	5544.0
22442540ICSA	08:29	8750.1	27403.0	5074.7
22442541ICSAB	08:33	9039.2	28242.0	5276.1
22442542CCV	09:06	9807.2	31523.0	5395.1
22442543CCB	09:10	9761.4	31354.0	5289.2

FORM XV INORGANIC-1
INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286

Instrument ID: 50ICP4 Start Date: 02/17/2023 09:17 End Date: 02/17/2023 13:43

Sample Name	Time	Y1	Y2	Y3
22444878CAL0	09:17	100.0	100.0	100.0
22444879CAL7	09:21	102.3		
22444880CAL1	09:24	99.7	99.2	98.9
22444881CAL2	09:28	98.0	96.9	97.0
22444882CAL3	09:32	100.9	101.1	
22444883CAL4	09:36	98.2	97.0	97.1
22444884CAL5	09:39	101.0	99.3	
22444885CAL6	09:43	99.1	97.5	97.7
22444886ICV	09:47	99.6	98.8	99.4
22444887ICB	09:49	99.4	97.8	95.9
22444888CRDLA	09:51	100.9	100.1	99.6
22444889ICSA	09:58	88.2	84.6	89.7
22444890ICSAB	10:02	88.5	85.1	90.8
22444935CCV	10:42	100.1	98.5	97.9
22444936CCB	10:46	102.7	101.1	97.8
22447663CCV	12:55	101.3	102.1	101.7
22447664CCB	12:58	99.8	100.7	99.5
22447669CCV	13:39	97.8	97.0	95.0
22447670CCB	13:43	98.7	96.5	93.6



Prep Log Report

Batch Information: MPRP 53870

Template Version: EF-IN-I-318-Rev.04 (27Feb2022)

Prep Method	EPA 3050
Instrument	50BALI
Block Temp (C)	96
Resin Pellets Solid Matrix	334282
Metals Pipette 3	

Analysis Method	EPA 6010
Block ID	5
Corrected Temp. (C)	97.20
Antifoam	310363
Reviewed By	DJS

Prepared By	ELK
Thermometer ID	PT-187
Acceptance Range	95 +/- 3 C
Metals Pipette 1	M89
Reviewed By Date	02/16/2023 12:16

Extracted Date/Time	02/15/2023 09:12:24:033
Correction Factor (C)	1.2
Digestion Vessel	336079
Metals Pipette 2	M105
Batch Notes	w/b NWB 02/14/2023

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Matrix	Initial Weight (g)	Conc. HNO3 (mL)	H2O2 (mL)	Conc. HCL (mL)	Final Volume (mL)	Sample Notes	6010-SPK (mL)
6010 S_P	BLANK	3298611	Solid	1	338075 (5)	324553 (4)	336076 (5)	50		
6010 S_P	LCS	3298612	Solid	1	338075 (5)	324553 (4)	336076 (5)	50		338214 (1)
6010 S_P	PS	50336749001	Solid	1.0041	338075 (5)	324553 (4)	336076 (5)	50		
6010 S_P	PS	50336749002	Solid	1.0429	338075 (5)	324553 (4)	336076 (5)	50		
6010 S_P	PS	50336749003	Solid	1.0111	338075 (5)	324553 (4)	336076 (5)	50		
6010 S_P	PS	50336749004	Solid	1.0395	338075 (5)	324553 (4)	336076 (5)	50		
6010 S_P	PS	50336749005	Solid	1.0165	338075 (5)	324553 (4)	336076 (5)	50		
6010 S_P	PS	50336749006	Solid	1.0672	338075 (5)	324553 (4)	336076 (5)	50		
6010 S_P	PS	50336749007	Solid	1.0743	338075 (5)	324553 (4)	336076 (5)	50		
6010 S_P	PS	50336749008	Solid	1.0681	338075 (5)	324553 (4)	336076 (5)	50		
6010 S_P	PS	50336749009	Solid	1.0167	338075 (5)	324553 (4)	336076 (5)	50		
6010 S_P	PS	50336749010	Solid	1.0351	338075 (5)	324553 (4)	336076 (5)	50		
6010 S_P	RQS	50336749011	Solid	1.0743	338075 (5)	324553 (4)	336076 (5)	50		
6010 S_P	MS	3298613	Solid	1.0708	338075 (5)	324553 (4)	336076 (5)	50		338214 (1)
6010 S_P	MSD	3298614	Solid	1.0638	338075 (5)	324553 (4)	336076 (5)	50		338214 (1)
6010 S_P	PS	50336749012	Solid	1.1096	338075 (5)	324553 (4)	336076 (5)	50		
6010 S_P	PS	50336749022	Solid	1.0027	338075 (5)	324553 (4)	336076 (5)	50		
6010 S_P	PS	50336749024	Solid	1.0231	338075 (5)	324553 (4)	336076 (5)	50		
6010 S_P	PS	50336749025	Solid	1.0798	338075 (5)	324553 (4)	336076 (5)	50		
6010 S_P	PS	50336749026	Solid	1.0801	338075 (5)	324553 (4)	336076 (5)	50		



Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Matrix	Initial Weight (g)	Conc. HNO3 (mL)	H2O2 (mL)	Conc. HCL (mL)	Final Volume (mL)	Sample Notes	6010-SPK (mL)
6010 S_P	PS	50336749027	Solid	1.0247	338075 (5)	324553 (4)	336076 (5)	50		
6010 S_P	PS	50336749028	Solid	1.0541	338075 (5)	324553 (4)	336076 (5)	50		

Standard Notes:

338214: ICP-SPK

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-1 (0-2')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
Lab Sample ID: 50336749001 Percent Moisture: 9.5

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	0.052	J	mg/kg	1	02/15/2023 08:52

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-2 (0-2')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
Lab Sample ID: 50336749002 Percent Moisture: 18.6

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	<0.029	U	mg/kg	1	02/15/2023 08:54

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-3 (0-1')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
Lab Sample ID: 50336749003 Percent Moisture: 3.3

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	<0.025	U	mg/kg	1	02/15/2023 08:57

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-4 (0-2')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
Lab Sample ID: 50336749004 Percent Moisture: 5.9

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	<0.025	U	mg/kg	1	02/15/2023 08:59

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-4 Dup (0-2')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
Lab Sample ID: 50336749005 Percent Moisture: 5.0

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	<0.025	U	mg/kg	1	02/15/2023 09:02

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-4 (8-10')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
Lab Sample ID: 50336749006 Percent Moisture: 19.2

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	0.044	J	mg/kg	1	02/15/2023 09:04

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-5 (5-6')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
Lab Sample ID: 50336749007 Percent Moisture: 17.3

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	0.042	J	mg/kg	1	02/15/2023 09:12

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-5 (8-10')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
Lab Sample ID: 50336749008 Percent Moisture: 19.3

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	0.039	J	mg/kg	1	02/15/2023 09:14

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-6 (0-2')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
Lab Sample ID: 50336749009 Percent Moisture: 4.6

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	<0.026	U	mg/kg	1	02/15/2023 09:16

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-7 (0-2')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
Lab Sample ID: 50336749010 Percent Moisture: 3.2

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	<0.025	U	mg/kg	1	02/15/2023 09:19

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-8 (0-2')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
Lab Sample ID: 50336749011 Percent Moisture: 14.7

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	0.070	J	mg/kg	1	02/15/2023 09:48

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-8 (4-5')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
Lab Sample ID: 50336749012 Percent Moisture: 21.0

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	0.10	J	mg/kg	1	02/15/2023 09:56

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-9 (0-2')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
Lab Sample ID: 50336749022 Percent Moisture: 7.3

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	0.036	J	mg/kg	1	02/15/2023 09:58

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-10 (0-2')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
Lab Sample ID: 50336749024 Percent Moisture: 11.9

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	0.25		mg/kg	1	02/15/2023 10:01

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-11 (0-2')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
Lab Sample ID: 50336749025 Percent Moisture: 4.1

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	<0.023	U	mg/kg	1	02/15/2023 10:03

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-12 (0-1')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
Lab Sample ID: 50336749026 Percent Moisture: 5.2

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	<0.024	U	mg/kg	1	02/15/2023 10:06

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-13 (0-2')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
Lab Sample ID: 50336749027 Percent Moisture: 10.2

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	<0.025	U	mg/kg	1	02/15/2023 10:13

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-13 (2-3')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
Lab Sample ID: 50336749028 Percent Moisture: 17.5

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	0.18	J	mg/kg	1	02/15/2023 10:15

FORM II INORGANIC-1
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286

Initial Calibration Verification Source: 338599

Continuing Calibration Verification Source: 338596

Concentration Units: ug/L Instrument ID: 50HG05

	Initial Calibration Verification				Continuing Calibration Verification						
	02/15/2023 07:33				02/15/2023 08:05			02/15/2023 08:35			Control Limit
Analyte	True	Found	%R	Control Limit	True	Found	%R	True	Found	%R	
Mercury	5.0	4.7	93.8	90-110	5.0	5.0	100.4	5.0	5.1	102.2	90-110

FORM II INORGANIC-2
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286

Initial Calibration Verification Source: _____

Continuing Calibration Verification Source: 338596

Concentration Units: ug/L Instrument ID: 50HG05

Analyte	Continuing Calibration Verification									Control Limit
	02/15/2023 09:07			02/15/2023 09:36			02/15/2023 10:08			
	True	Found	%R	True	Found	%R	True	Found	%R	
Mercury	5.0	5.1	101.2	5.0	5.1	102.4	5.0	5.1	102.8	90-110

FORM II INORGANIC-3
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286

Initial Calibration Verification Source: _____

Continuing Calibration Verification Source: 338596

Concentration Units: ug/L Instrument ID: 50HG05

Analyte	Continuing Calibration Verification						Control Limit
	02/15/2023 10:39			02/15/2023 11:04			
	True	Found	%R	True	Found	%R	
Mercury	5.0	5.1	101.6	5.0	5.3	106.8	90-110

FORM II INORGANIC-1
CRDL CHECK STANDARD

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286

CRDL Check Standard Source: 338593 Analysis Date/Time: 02/15/2023 07:38

Concentration Units: ug/L

Analyte	CRDL Check Standard			
	True	Found	%R	Control Limit %R
Mercury	0.2	0.22	112.5	50-150

FORM II INORGANIC-1
CRDL CHECK STANDARD

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286

CRDL Check Standard Source: 338593 Analysis Date/Time: 02/15/2023 08:40

Concentration Units: ug/L

Analyte	CRDL Check Standard			
	True	Found	%R	Control Limit %R
Mercury	0.2	0.25	123.0	50-150

FORM II INORGANIC-1
CRDL CHECK STANDARD

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286

CRDL Check Standard Source: 338593 Analysis Date/Time: 02/15/2023 09:41

Concentration Units: ug/L

Analyte	CRDL Check Standard			
	True	Found	%R	Control Limit %R
Mercury	0.2	0.25	125.0	50-150

FORM II INORGANIC-1
CRDL CHECK STANDARD

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286

CRDL Check Standard Source: 338593 Analysis Date/Time: 02/15/2023 10:44

Concentration Units: ug/L

Analyte	CRDL Check Standard			
	True	Found	%R	Control Limit %R
Mercury	0.2	0.25	127.0	50-150

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract : Hospital #22-286

Method Blank Matrix: Solid Instrument ID: 50HG05

Method Blank Concentration Units: mg/kg

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Method Blank	
	02/15/2023 07:36	C	02/15/2023 08:08	C	02/15/2023 08:37	C	02/15/2023 09:09	C	3297241	C
Mercury	0.20	U	0.20	U	0.20	U	0.20	U	<0.023	U

FORM III INORGANIC-2

BLANKS

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract : Hospital #22-286

Method Blank Matrix: Solid Instrument ID: 50HG05

Method Blank Concentration Units: mg/kg

Analyte	Initial Calibration Blank		Continuing Calibration Blank (ug/L)						Method Blank	
		C	02/15/2023 09:38	C	02/15/2023 10:10	C	02/15/2023 10:42	C	3297256	C
Mercury			0.20	U	0.20	U	0.20	U	<0.023	U

FORM III INORGANIC-3
BLANKS

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract : Hospital #22-286

Method Blank Matrix: _____ Instrument ID: 50HG05

Method Blank Concentration Units: _____

Analyte	Initial Calibration Blank		Continuing Calibration Blank (ug/L)					
		C	02/15/2023 11:06	C		C		C
Mercury			0.20	U				

FORM V INORGANIC-1
MATRIX SPIKE SAMPLE RECOVERY

SAMPLE NO.

3297243MS

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286

Matrix: Solid Basis: Dry Parent Sample ID: SP-7 (0-2')

Percent Moisture: 3.2

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Mercury	mg/kg	75-125	0.49	<0.025	0.52	93

FORM V INORGANIC-2
MATRIX SPIKE SAMPLE RECOVERY

SAMPLE NO.

3297244MSD

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286

Matrix: Solid Basis: Dry Parent Sample ID: SP-7 (0-2')

Percent Moisture: 3.2

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Mercury	mg/kg	75-125	0.48	<0.025	0.51	92

FORM V INORGANIC-1
MATRIX SPIKE SAMPLE RECOVERY

SAMPLE NO.

3297258MS

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286

Matrix: Solid Basis: Dry Parent Sample ID: SP-8 (0-2')

Percent Moisture: 14.7

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Mercury	mg/kg	75-125	0.60	0.070J	0.57	93

FORM V INORGANIC-2
MATRIX SPIKE SAMPLE RECOVERY

SAMPLE NO.

3297259MSD

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286

Matrix: Solid Basis: Dry Parent Sample ID: SP-8 (0-2')

Percent Moisture: 14.7

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Mercury	mg/kg	75-125	0.63	0.070J	0.60	93

FORM V INORGANIC-3
MATRIX SPIKE SAMPLE RECOVERY

SAMPLE NO.

3297260MS

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286

Matrix: Solid Basis: Dry Parent Sample ID: 50337103013

Percent Moisture: 14.9

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Mercury	mg/kg	75-125	0.58	0.035J	0.59	93

FORM V INORGANIC-4
MATRIX SPIKE SAMPLE RECOVERY

SAMPLE NO.

3297261MSD

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286

Matrix: Solid Basis: Dry Parent Sample ID: 50337103013

Percent Moisture: 14.9

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Mercury	mg/kg	75-125	0.57	0.035J	0.55	96

FORM VI INORGANIC-1
DUPLICATES

SAMPLE NO.

3297244MSD

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286

Matrix: Solid Concentration Units: mg/kg

Percent Moisture: 3.2 Basis: Dry

Analyte	RPD Control Limit	Sample	Duplicate	RPD
Mercury	20	0.49	0.48	3

FORM VI INORGANIC-1
DUPLICATES

SAMPLE NO.

3297259MSD

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286

Matrix: Solid Concentration Units: mg/kg

Percent Moisture: 14.7 Basis: Dry

Analyte	RPD Control Limit	Sample	Duplicate	RPD
Mercury	20	0.60	0.63	4

FORM VI INORGANIC-2
DUPLICATES

SAMPLE NO.

3297261MSD

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286

Matrix: Solid Concentration Units: mg/kg

Percent Moisture: 14.9 Basis: Dry

Analyte	RPD Control Limit	Sample	Duplicate	RPD
Mercury	20	0.58	0.57	3

FORM VII INORGANIC-1
LABORATORY CONTROL SAMPLE

SAMPLE NO.

3297242LCS

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286

Matrix: Solid

Analyte	Units	True	Found	%R	Limits	
Mercury	mg/kg	0.50	0.46	92	80	120

FORM VII INORGANIC-1
LABORATORY CONTROL SAMPLE

SAMPLE NO.

3297257LCS

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286

Matrix: Solid

Analyte	Units	True	Found	%R	Limits	
Mercury	mg/kg	0.50	0.48	96	80	120

FORM XII INORGANIC-1
PREPARATION LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286

Preparation Method: EPA 7471 Batch: MERP 16414

Lab Sample ID	Sample Name	Preparation Date	Initial Weight (g)	Final Volume (mL)
3297241	3297241BLANK	02/14/2023	0.3	50
3297242	3297242LCS	02/14/2023	0.3	50
3297243	3297243MS	02/14/2023	0.303	50
3297244	3297244MSD	02/14/2023	0.308	50
50336749001	SP-1 (0-2')	02/14/2023	0.298	50
50336749002	SP-2 (0-2')	02/14/2023	0.291	50
50336749003	SP-3 (0-1')	02/14/2023	0.283	50
50336749004	SP-4 (0-2')	02/14/2023	0.297	50
50336749005	SP-4 Dup (0-2')	02/14/2023	0.292	50
50336749006	SP-4 (8-10')	02/14/2023	0.302	50
50336749007	SP-5 (5-6')	02/14/2023	0.295	50
50336749008	SP-5 (8-10')	02/14/2023	0.288	50
50336749009	SP-6 (0-2')	02/14/2023	0.283	50
50336749010	SP-7 (0-2')	02/14/2023	0.288	50

FORM XII INORGANIC-1
PREPARATION LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286

Preparation Method: EPA 7471 Batch: MERP 16415

Lab Sample ID	Sample Name	Preparation Date	Initial Weight (g)	Final Volume (mL)
3297256	3297256BLANK	02/14/2023	0.3	50
3297257	3297257LCS	02/14/2023	0.3	50
3297258	3297258MS	02/14/2023	0.308	50
3297259	3297259MSD	02/14/2023	0.294	50
3297260	3297260MS	02/14/2023	0.3	50
3297261	3297261MSD	02/14/2023	0.318	50
50336749011	SP-8 (0-2')	02/14/2023	0.315	50
50336749012	SP-8 (4-5')	02/14/2023	0.3	50
50336749022	SP-9 (0-2')	02/14/2023	0.294	50
50336749024	SP-10 (0-2')	02/14/2023	0.306	50
50336749025	SP-11 (0-2')	02/14/2023	0.316	50
50336749026	SP-12 (0-1')	02/14/2023	0.309	50
50336749027	SP-13 (0-2')	02/14/2023	0.312	50
50336749028	SP-13 (2-3')	02/14/2023	0.283	50

FORM XIII INORGANIC-1
ANALYSIS RUN LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286

Instrument ID: 50HG05 Analysis Method: EPA 7471

Start Date: 02/15/2023 07:16 End Date: 02/15/2023 11:06

Sample Name	Lab Sample ID	D/F	Date	Time	Hg
22427509CAL0	22427509CAL0	1	02/15/2023	07:16	X
22427510CAL1	22427510CAL1	1	02/15/2023	07:19	X
22427511CAL2	22427511CAL2	1	02/15/2023	07:21	X
22427512CAL3	22427512CAL3	1	02/15/2023	07:24	X
22427513CAL4	22427513CAL4	1	02/15/2023	07:26	X
22427514CAL5	22427514CAL5	1	02/15/2023	07:29	X
22427515CAL6	22427515CAL6	1	02/15/2023	07:31	X
22427516ICV	22427516ICV	1	02/15/2023	07:33	X
22427517ICB	22427517ICB	1	02/15/2023	07:36	X
22427518CRDL	22427518CRDL	1	02/15/2023	07:38	X
22427519CCV	22427519CCV	1	02/15/2023	08:05	X
22427520CCB	22427520CCB	1	02/15/2023	08:08	X
22427521CCV	22427521CCV	1	02/15/2023	08:35	X
22427522CCB	22427522CCB	1	02/15/2023	08:37	X
22427523CRDL	22427523CRDL	1	02/15/2023	08:40	X
3297241BLANK	3297241	1	02/15/2023	08:47	X
3297242LCS	3297242	1	02/15/2023	08:49	X
SP-1 (0-2')	50336749001	1	02/15/2023	08:52	X
SP-2 (0-2')	50336749002	1	02/15/2023	08:54	X
SP-3 (0-1')	50336749003	1	02/15/2023	08:57	X
SP-4 (0-2')	50336749004	1	02/15/2023	08:59	X
SP-4 Dup (0-2')	50336749005	1	02/15/2023	09:02	X
SP-4 (8-10')	50336749006	1	02/15/2023	09:04	X
22427524CCV	22427524CCV	1	02/15/2023	09:07	X
22427525CCB	22427525CCB	1	02/15/2023	09:09	X
SP-5 (5-6')	50336749007	1	02/15/2023	09:12	X
SP-5 (8-10')	50336749008	1	02/15/2023	09:14	X
SP-6 (0-2')	50336749009	1	02/15/2023	09:16	X
SP-7 (0-2')	50336749010	1	02/15/2023	09:19	X
3297243MS	3297243	1	02/15/2023	09:21	X
3297244MSD	3297244	1	02/15/2023	09:24	X
22427526CCV	22427526CCV	1	02/15/2023	09:36	X
22427527CCB	22427527CCB	1	02/15/2023	09:38	X
22427528CRDL	22427528CRDL	1	02/15/2023	09:41	X
3297256BLANK	3297256	1	02/15/2023	09:43	X
3297257LCS	3297257	1	02/15/2023	09:46	X
SP-8 (0-2')	50336749011	1	02/15/2023	09:48	X
3297258MS	3297258	1	02/15/2023	09:51	X
3297259MSD	3297259	1	02/15/2023	09:53	X
SP-8 (4-5')	50336749012	1	02/15/2023	09:56	X
SP-9 (0-2')	50336749022	1	02/15/2023	09:58	X
SP-10 (0-2')	50336749024	1	02/15/2023	10:01	X
SP-11 (0-2')	50336749025	1	02/15/2023	10:03	X
SP-12 (0-1')	50336749026	1	02/15/2023	10:06	X
22427529CCV	22427529CCV	1	02/15/2023	10:08	X

02/20/2023 12:40

FORM XIII INORGANIC-2
ANALYSIS RUN LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286

Instrument ID: 50HG05 Analysis Method: EPA 7471

Start Date: 02/15/2023 07:16 End Date: 02/15/2023 11:06

Sample Name	Lab Sample ID	D/F	Date	Time	Hg
22427530CCB	22427530CCB	1	02/15/2023	10:10	X
SP-13 (0-2')	50336749027	1	02/15/2023	10:13	X
SP-13 (2-3')	50336749028	1	02/15/2023	10:15	X
50337103013	50337103013	1	02/15/2023	10:35	X
22427531CCV	22427531CCV	1	02/15/2023	10:39	X
22427532CCB	22427532CCB	1	02/15/2023	10:42	X
22427533CRDL	22427533CRDL	1	02/15/2023	10:44	X
3297260MS	3297260	1	02/15/2023	10:47	X
3297261MSD	3297261	1	02/15/2023	10:49	X
22427534CCV	22427534CCV	1	02/15/2023	11:04	X
22427535CCB	22427535CCB	1	02/15/2023	11:06	X



Prep Log Report

Batch Information: MERP 16414

Template Version: EF-IN-I-323-Rev.04 (27Feb2022)

Prep Method	EPA 7471
Instrument	50BAL7
Block Temp (C)	94
Antifoam	None Added
Reviewed By	ILP

Analysis Method	EPA 7471
Block ID	D
Corrected Temp. (C)	95.10
Metals Pipette 1	M60
Reviewed By Date	02/15/2023 06:35

Prepared By	EAE
Thermometer ID	PT-341
Digestion Vessel	336079
Metals Pipette 2	M104
Batch Notes	

Extracted Date/Time	02/14/2023 20:16:10Z
Correction Factor (C)	1.1
Resin Pellets Solid Matrix	334282
Metals Pipette 3	M105

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Matrix	Initial Weight (g)	Aqua Regia (mL)	5% KMnO4 (mL)	12% NH2OH-HCL (mL)	Final Volume (mL)	Sample Notes	MERCURY-SPK (mL)
7471 S_P	BLANK	3297241	Solid	0.3	338584 (2.5)	331473 (7.5)	338113 (3)	50	w/b ILP	
7471 S_P	LCS	3297242	Solid	0.3	338584 (2.5)	331473 (7.5)	338113 (3)	50		338474 (1.5)
7471 S_P	PS	50336749001	Solid	0.298	338584 (2.5)	331473 (7.5)	338113 (3)	50		
7471 S_P	PS	50336749002	Solid	0.291	338584 (2.5)	331473 (7.5)	338113 (3)	50		
7471 S_P	PS	50336749003	Solid	0.283	338584 (2.5)	331473 (7.5)	338113 (3)	50		
7471 S_P	PS	50336749004	Solid	0.297	338584 (2.5)	331473 (7.5)	338113 (3)	50		
7471 S_P	PS	50336749005	Solid	0.292	338584 (2.5)	331473 (7.5)	338113 (3)	50		
7471 S_P	PS	50336749006	Solid	0.302	338584 (2.5)	331473 (7.5)	338113 (3)	50		
7471 S_P	PS	50336749007	Solid	0.295	338584 (2.5)	331473 (7.5)	338113 (3)	50		
7471 S_P	PS	50336749008	Solid	0.288	338584 (2.5)	331473 (7.5)	338113 (3)	50		
7471 S_P	PS	50336749009	Solid	0.283	338584 (2.5)	331473 (7.5)	338113 (3)	50		
7471 S_P	PS	50336749010	Solid	0.288	338584 (2.5)	331473 (7.5)	338113 (3)	50		
7471 S_P	MS	3297243	Solid	0.303	338584 (2.5)	331473 (7.5)	338113 (3)	50		338474 (1.5)
7471 S_P	MSD	3297244	Solid	0.308	338584 (2.5)	331473 (7.5)	338113 (3)	50		338474 (1.5)
7471 S_P	PS	50337114001	Solid	0.289	338584 (2.5)	331473 (7.5)	338113 (3)	50		
7471 S_P	PS	50337114002	Solid	0.282	338584 (2.5)	331473 (7.5)	338113 (3)	50		



Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Matrix	Initial Weight (g)	Aqua Regia (mL)	5% K ₂ MnO ₄ (mL)	12% NH ₂ OH·HCL (mL)	Final Volume (mL)	Sample Notes	MERCURY-SPK (mL)
7471 S_P	PS	50337114003	Solid	0.287	338584 (2.5)	331473 (7.5)	338113 (3)	50		
7471 S_P	PS	50337114004	Solid	0.29	338584 (2.5)	331473 (7.5)	338113 (3)	50		

Standard Notes:

338474: prepared fresh weekly



Prep Log Report

Batch Information: MERP 16415

Template Version: EF-IN-I-323-Rev.04 (27Feb2022)

Prep Method	EPA 7471
Instrument	50BAL7
Block Temp (C)	94
Antifoam	None Added
Reviewed By	ILP

Analysis Method	EPA 7471
Block ID	8
Corrected Temp. (C)	95.30
Metals Pipette 1	M60
Reviewed By Date	02/15/2023 06:36

Prepared By	EAE
Thermometer ID	PT-345
Digestion Vessel	336079
Metals Pipette 2	M104
Batch Notes	
Extracted Date/Time	02/14/2023 20:16:102
Correction Factor (C)	1.3
Resin Pellets Solid Matrix	334282
Metals Pipette 3	M105

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Matrix	Initial Weight (g)	Aqua Regia (mL)	5% KMnO4 (mL)	12% NH2OH-HCL (mL)	Final Volume (mL)	Sample Notes	MERCURY-SPK (mL)
7471 S_P	BLANK	3297256	Solid	0.3	338584 (2.5)	331473 (7.5)	338113 (3)	50	WB EAE	
7471 S_P	LCS	3297257	Solid	0.3	338584 (2.5)	331473 (7.5)	338113 (3)	50		338474 (1.5)
7471 S_P	RQS	50336749011	Solid	0.315	338584 (2.5)	331473 (7.5)	338113 (3)	50		
7471 S_P	MS	3297258	Solid	0.308	338584 (2.5)	331473 (7.5)	338113 (3)	50		338474 (1.5)
7471 S_P	MSD	3297259	Solid	0.294	338584 (2.5)	331473 (7.5)	338113 (3)	50		338474 (1.5)
7471 S_P	PS	50336749012	Solid	0.3	338584 (2.5)	331473 (7.5)	338113 (3)	50		
7471 S_P	PS	50336749022	Solid	0.294	338584 (2.5)	331473 (7.5)	338113 (3)	50		
7471 S_P	PS	50336749024	Solid	0.306	338584 (2.5)	331473 (7.5)	338113 (3)	50		
7471 S_P	PS	50336749025	Solid	0.316	338584 (2.5)	331473 (7.5)	338113 (3)	50		
7471 S_P	PS	50336749026	Solid	0.309	338584 (2.5)	331473 (7.5)	338113 (3)	50		
7471 S_P	PS	50336749027	Solid	0.312	338584 (2.5)	331473 (7.5)	338113 (3)	50		
7471 S_P	PS	50336749028	Solid	0.283	338584 (2.5)	331473 (7.5)	338113 (3)	50		
7471 S_P	PS	50336654001	Solid	0.303	338584 (2.5)	331473 (7.5)	338113 (3)	50		
7471 S_P	PS	50336864001	Solid	0.294	338584 (2.5)	331473 (7.5)	338113 (3)	50		
7471 S_P	PS	50336965001	Solid	0.31	338584 (2.5)	331473 (7.5)	338113 (3)	50		
7471 S_P	PS	50337103001	Solid	0.307	338584 (2.5)	331473 (7.5)	338113 (3)	50		

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Matrix	Initial Weight (g)	Aqua Regia (mL)	5% KMnO4 (mL)	12% NH2OH·HCL (mL)	Final Volume (mL)	Sample Notes	MERCURY-SPK (mL)
7471 S_P	PS	50337103004	Solid	0.3	338584 (2.5)	331473 (7.5)	338113 (3)	50		
7471 S_P	PS	50337103006	Solid	0.288	338584 (2.5)	331473 (7.5)	338113 (3)	50		
7471 S_P	PS	50337103009	Solid	0.314	338584 (2.5)	331473 (7.5)	338113 (3)	50		
7471 S_P	RQS	50337103013	Solid	0.296	338584 (2.5)	331473 (7.5)	338113 (3)	50		
7471 S_P	MS	3297260	Solid	0.3	338584 (2.5)	331473 (7.5)	338113 (3)	50		338474 (1.5)
7471 S_P	MSD	3297261	Solid	0.318	338584 (2.5)	331473 (7.5)	338113 (3)	50		338474 (1.5)
7471 S_P	PS	50337103015	Solid	0.317	338584 (2.5)	331473 (7.5)	338113 (3)	50		
7471 S_P	PS	50337103016	Solid	0.288	338584 (2.5)	331473 (7.5)	338113 (3)	50		
7471 S_P	PS	50337103017	Solid	0.301	338584 (2.5)	331473 (7.5)	338113 (3)	50		

Standard Notes:

338474: prepared fresh weekly



Prep Log Report

Batch Information: MERC 21439

Template Version: EF-IN-I-323-Rev.04 (27Feb2022)

Prep Method	7471
Instrument	50BAL7
Block Temp (C)	94
Antifoam	None Added
Reviewed By	

Analysis Method	EPA 7470/7471/245.1
Block ID	D
Corrected Temp. (C)	95.10
Metals Pipette 1	M60
Reviewed By Date	

Prepared By	EAE
Thermometer ID	PT-341
Digestion Vessel	336079
Metals Pipette 2	M104
Batch Notes	

Extracted Date/Time	02/14/2023 20:05:59:509
Correction Factor (C)	1.1
Resin Pellets Solid Matrix	334282
Metals Pipette 3	M105

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Matrix	Initial Weight (g)	Aqua Regia (mL)	5% KMnO4 (mL)	12% NH2OH-HCL (mL)	Final Volume (mL)	Sample Notes
7471_Q	CAL0	CAL0	SL	1	338584 (2.5)	331473 (7.5)	338113 (3)	50	
7471_Q	CAL1	CAL1	SL	1	338584 (2.5)	331473 (7.5)	338113 (3)	50	
7471_Q	CAL2	CAL2	SL	1	338584 (2.5)	331473 (7.5)	338113 (3)	50	
7471_Q	CAL3	CAL3	SL	1	338584 (2.5)	331473 (7.5)	338113 (3)	50	
7471_Q	CAL4	CAL4	SL	1	338584 (2.5)	331473 (7.5)	338113 (3)	50	
7471_Q	CAL5	CAL5	SL	1	338584 (2.5)	331473 (7.5)	338113 (3)	50	
7471_Q	CAL6	CAL6	SL	1	338584 (2.5)	331473 (7.5)	338113 (3)	50	
7471_Q	ICV	ICV	SL	1	338584 (2.5)	331473 (7.5)	338113 (3)	50	

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-1 (0-2')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
Lab Sample ID: 50336749001 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	9.5		%	1	02/07/2023 21:22

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-2 (0-2')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
Lab Sample ID: 50336749002 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	18.6		%	1	02/07/2023 21:22

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-3 (0-1')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
Lab Sample ID: 50336749003 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	3.3		%	1	02/07/2023 21:22

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-4 (0-2')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
Lab Sample ID: 50336749004 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	5.9		%	1	02/07/2023 21:22

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-4 Dup (0-2')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
Lab Sample ID: 50336749005 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	5.0		%	1	02/07/2023 21:22

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-4 (8-10')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
Lab Sample ID: 50336749006 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	19.2		%	1	02/07/2023 21:23

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-5 (5-6')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
Lab Sample ID: 50336749007 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	17.3		%	1	02/07/2023 21:23

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-5 (8-10')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
Lab Sample ID: 50336749008 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	19.3		%	1	02/07/2023 21:23

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-6 (0-2')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
Lab Sample ID: 50336749009 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	4.6		%	1	02/07/2023 21:23

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-7 (0-2')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
Lab Sample ID: 50336749010 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	3.2		%	1	02/07/2023 21:23

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-8 (0-2')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
Lab Sample ID: 50336749011 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	14.7		%	1	02/07/2023 21:23

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-8 (4-5')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
Lab Sample ID: 50336749012 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	21.0		%	1	02/07/2023 21:23

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-1 (6')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
Lab Sample ID: 50336749013 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	27.4		%	1	02/08/2023 10:22

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-2 (7')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
Lab Sample ID: 50336749014 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	19.4		%	1	02/08/2023 10:22

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-4 (7')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
Lab Sample ID: 50336749015 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	19.1		%	1	02/08/2023 10:22

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-4 (16')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
Lab Sample ID: 50336749016 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	31.1		%	1	02/08/2023 10:22

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-4 Dup (16')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
Lab Sample ID: 50336749017 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	32.2		%	1	02/08/2023 10:22

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-5 (11')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
Lab Sample ID: 50336749018 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	21.3		%	1	02/08/2023 10:22

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-6 (22')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
Lab Sample ID: 50336749019 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	37.1		%	1	02/08/2023 10:22

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-7 (25')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
Lab Sample ID: 50336749020 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	32.8		%	1	02/08/2023 10:22

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-8 (16')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
Lab Sample ID: 50336749021 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	8.0		%	1	02/08/2023 10:23

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-9 (0-2')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
Lab Sample ID: 50336749022 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	7.3		%	1	02/08/2023 10:23

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-9 (25')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
Lab Sample ID: 50336749023 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	35.6		%	1	02/08/2023 10:25

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-10 (0-2')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
Lab Sample ID: 50336749024 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	11.9		%	1	02/08/2023 10:25

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-11 (0-2')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
Lab Sample ID: 50336749025 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	4.1		%	1	02/08/2023 10:26

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-12 (0-1')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
Lab Sample ID: 50336749026 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	5.2		%	1	02/08/2023 10:26

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-13 (0-2')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
Lab Sample ID: 50336749027 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	10.2		%	1	02/08/2023 10:27

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-13 (2-3')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
Lab Sample ID: 50336749028 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	17.5		%	1	02/08/2023 10:27

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP-3 (25')

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286
Lab Sample ID: 50336749030 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	22.9		%	1	02/08/2023 10:27

FORM VI INORGANIC-1
DUPLICATES

SAMPLE NO.

3294942DUP

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286

Matrix: Solid Concentration Units: %

Percent Moisture: _____ Basis: Wet

Analyte	RPD Control Limit	Sample	Duplicate	RPD
Percent Moisture	5	8.3	8.1	2

FORM VI INORGANIC-2
DUPLICATES

SAMPLE NO.

3294943DUP

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286

Matrix: Solid Concentration Units: %

Percent Moisture: _____ Basis: Wet

Analyte	RPD Control Limit	Sample	Duplicate	RPD
Percent Moisture	5	14.7	14.3	3

FORM VI INORGANIC-1
DUPLICATES

SAMPLE NO.

3295075DUP

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286

Matrix: Solid Concentration Units: %

Percent Moisture: _____ Basis: Wet

Analyte	RPD Control Limit	Sample	Duplicate	RPD
Percent Moisture	5	12.4	14.4	15*

* RPD outside QC Limits

FORM VI INORGANIC-2
DUPLICATES

SAMPLE NO.

3295076DUP

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286

Matrix: Solid Concentration Units: %

Percent Moisture: _____ Basis: Wet

Analyte	RPD Control Limit	Sample	Duplicate	RPD
Percent Moisture	5	8.0	7.0	14*

* RPD outside QC Limits

FORM VI INORGANIC-1
DUPLICATES

SAMPLE NO.

3295078DUP

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286

Matrix: Solid Concentration Units: %

Percent Moisture: _____ Basis: Wet

Analyte	RPD Control Limit	Sample	Duplicate	RPD
Percent Moisture	5	11.9	17.4	37*

* RPD outside QC Limits

FORM VI INORGANIC-2
DUPLICATES

SAMPLE NO.

3295209DUP

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286

Matrix: Solid Concentration Units: %

Percent Moisture: _____ Basis: Wet

Analyte	RPD Control Limit	Sample	Duplicate	RPD
Percent Moisture	5	4.0	4.0	2

FORM XII INORGANIC-1
PREPARATION LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286

Preparation Method: SM 2540G Batch: PMST 20929

Lab Sample ID	Sample Name	Preparation Date	Initial Volume (mL)	Final Volume (mL)
3294942	3294942DUP	02/07/2023	1	1
3294943	3294943DUP	02/07/2023	1	1
50336749001	SP-1 (0-2')	02/07/2023	1	1
50336749002	SP-2 (0-2')	02/07/2023	1	1
50336749003	SP-3 (0-1')	02/07/2023	1	1
50336749004	SP-4 (0-2')	02/07/2023	1	1
50336749005	SP-4 Dup (0-2')	02/07/2023	1	1
50336749006	SP-4 (8-10')	02/07/2023	1	1
50336749007	SP-5 (5-6')	02/07/2023	1	1
50336749008	SP-5 (8-10')	02/07/2023	1	1
50336749009	SP-6 (0-2')	02/07/2023	1	1
50336749010	SP-7 (0-2')	02/07/2023	1	1
50336749011	SP-8 (0-2')	02/07/2023	1	1
50336749012	SP-8 (4-5')	02/07/2023	1	1

FORM XII INORGANIC-1
PREPARATION LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286

Preparation Method: SM 2540G Batch: PMST 20932

Lab Sample ID	Sample Name	Preparation Date	Initial Volume (mL)	Final Volume (mL)
3295075	3295075DUP	02/08/2023	1	1
3295076	3295076DUP	02/08/2023	1	1
50336749013	SP-1 (6')	02/08/2023	1	1
50336749014	SP-2 (7')	02/08/2023	1	1
50336749015	SP-4 (7')	02/08/2023	1	1
50336749016	SP-4 (16')	02/08/2023	1	1
50336749017	SP-4 Dup (16')	02/08/2023	1	1
50336749018	SP-5 (11')	02/08/2023	1	1
50336749019	SP-6 (22')	02/08/2023	1	1
50336749020	SP-7 (25')	02/08/2023	1	1
50336749021	SP-8 (16')	02/08/2023	1	1
50336749022	SP-9 (0-2')	02/08/2023	1	1

FORM XII INORGANIC-1
PREPARATION LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286

Preparation Method: SM 2540G Batch: PMST 20933

Lab Sample ID	Sample Name	Preparation Date	Initial Volume (mL)	Final Volume (mL)
3295078	3295078DUP	02/08/2023	1	1
3295209	3295209DUP	02/08/2023	1	1
50336749023	SP-9 (25')	02/08/2023	1	1
50336749024	SP-10 (0-2')	02/08/2023	1	1
50336749025	SP-11 (0-2')	02/08/2023	1	1
50336749026	SP-12 (0-1')	02/08/2023	1	1
50336749027	SP-13 (0-2')	02/08/2023	1	1
50336749028	SP-13 (2-3')	02/08/2023	1	1
50336749030	SP-3 (25')	02/08/2023	1	1

FORM XIII INORGANIC-1
ANALYSIS RUN LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50336749 Contract: Hospital #22-286

Instrument ID: 50BALO Analysis Method: SM 2540G

Start Date: 02/07/2023 21:21 End Date: 02/08/2023 11:48

Sample Name	Lab Sample ID	D/F	Date	Time	MO IST
50336697001	50336697001	1	02/07/2023	21:21	X
3294942DUP	3294942	1	02/07/2023	21:21	X
SP-1 (0-2')	50336749001	1	02/07/2023	21:22	X
SP-2 (0-2')	50336749002	1	02/07/2023	21:22	X
SP-3 (0-1')	50336749003	1	02/07/2023	21:22	X
SP-4 (0-2')	50336749004	1	02/07/2023	21:22	X
SP-4 Dup (0-2')	50336749005	1	02/07/2023	21:22	X
SP-4 (8-10')	50336749006	1	02/07/2023	21:23	X
SP-5 (5-6')	50336749007	1	02/07/2023	21:23	X
SP-5 (8-10')	50336749008	1	02/07/2023	21:23	X
SP-6 (0-2')	50336749009	1	02/07/2023	21:23	X
SP-7 (0-2')	50336749010	1	02/07/2023	21:23	X
SP-8 (0-2')	50336749011	1	02/07/2023	21:23	X
3294943DUP	3294943	1	02/07/2023	21:23	X
SP-8 (4-5')	50336749012	1	02/07/2023	21:23	X
50336857021	50336857021	1	02/08/2023	10:20	X
3295075DUP	3295075	1	02/08/2023	10:20	X
SP-1 (6')	50336749013	1	02/08/2023	10:22	X
SP-2 (7')	50336749014	1	02/08/2023	10:22	X
SP-4 (7')	50336749015	1	02/08/2023	10:22	X
SP-4 (16')	50336749016	1	02/08/2023	10:22	X
SP-4 Dup (16')	50336749017	1	02/08/2023	10:22	X
SP-5 (11')	50336749018	1	02/08/2023	10:22	X
SP-6 (22')	50336749019	1	02/08/2023	10:22	X
SP-7 (25')	50336749020	1	02/08/2023	10:22	X
SP-8 (16')	50336749021	1	02/08/2023	10:23	X
3295076DUP	3295076	1	02/08/2023	10:23	X
SP-9 (0-2')	50336749022	1	02/08/2023	10:23	X
SP-9 (25')	50336749023	1	02/08/2023	10:25	X
SP-10 (0-2')	50336749024	1	02/08/2023	10:25	X
3295078DUP	3295078	1	02/08/2023	10:26	X
SP-11 (0-2')	50336749025	1	02/08/2023	10:26	X
SP-12 (0-1')	50336749026	1	02/08/2023	10:26	X
SP-13 (0-2')	50336749027	1	02/08/2023	10:27	X
SP-13 (2-3')	50336749028	1	02/08/2023	10:27	X
SP-3 (25')	50336749030	1	02/08/2023	10:27	X
50336901003	50336901003	1	02/08/2023	10:29	X
3295209DUP	3295209	1	02/08/2023	11:48	X



Prep Log Report

Batch Information: PMST 20929

Template Version: EF-IN-Q-337-Rev.04 (27Feb2022)

Analysis Method	SM 2540G	Analyzed By	DAW	Instrument	50BALO	Oven ID	50WT09
Acceptance Range	103-105 C	Thermometer ID	PT-304	Oven Correction Factor (C)	0.3	Oven Temp In1 (C) Corr Date/Time Init	102.9 103.2 02/07/2023 21:38 DAW
Oven Temp Out1 (C) Corr Date/Time Init	103.3 103.6 02/08/2023 09:27 MTW	Reviewed By	IRH	Reviewed By Date	02/08/2023 16:54	Batch Notes	

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Select	TS Posted (%)	Percent Moisture	Run Date/Time	Posted Dry Weight /w Dish (g)	Dish Weight (g)	Wet Weight /w Dish (g)	Dry Weight 1 (g)	Dry Wt Use 1	ID	Sample Notes
DRY WEIGHT	PS	50336697001	Y	91.75	8.255	02/07/2023 21:21:24	40.065	1.253	43.557	40.065	M	830	
DRY WEIGHT	DUP	3294942	Y	91.93	8.071	02/07/2023 21:21:31	48.354	1.281	52.487	48.354	M	831	
DRY WEIGHT	PS	50336697002	Y	91.20	8.797	02/07/2023 21:21:37	38.045	1.22	41.597	38.045	M	832	
DRY WEIGHT	PS	50336697003	Y	91.16	8.845	02/07/2023 21:21:44	26.591	1.24	29.051	26.591	M	833	
DRY WEIGHT	PS	50336697004	Y	94.34	5.655	02/07/2023 21:21:52	41.941	1.252	44.38	41.941	M	834	
DRY WEIGHT	PS	50336697005	Y	91.68	8.321	02/07/2023 21:21:58	37.315	1.231	40.59	37.315	M	835	
DRY WEIGHT	PS	50336697006	Y	89.08	10.92	02/07/2023 21:22:05	24.545	1.235	27.402	24.545	M	836	
DRY WEIGHT	PS	50336697007	Y	88.12	11.88	02/07/2023 21:22:11	29.277	1.218	33.06	29.277	M	837	
DRY WEIGHT	PS	50336697008	Y	90.78	9.220	02/07/2023 21:22:18	32.75	1.232	35.951	32.75	M	838	
DRY WEIGHT	PS	50336749001	Y	90.50	9.498	02/07/2023 21:22:24	16.039	1.231	17.593	16.039	M	839	
DRY WEIGHT	PS	50336749002	Y	81.39	18.61	02/07/2023 21:22:32	14.526	1.232	17.566	14.526	M	840	
DRY WEIGHT	PS	50336749003	Y	96.67	3.335	02/07/2023 21:22:39	17.329	1.242	17.884	17.329	M	841	
DRY WEIGHT	PS	50336749004	Y	94.09	5.914	02/07/2023 21:22:47	14.774	1.236	15.625	14.774	M	842	
DRY WEIGHT	PS	50336749005	Y	95.03	4.969	02/07/2023 21:22:54	18.717	1.236	19.631	18.717	M	843	
DRY WEIGHT	PS	50336749006	Y	80.77	19.23	02/07/2023 21:23:01	12.647	1.224	15.367	12.647	M	844	
DRY WEIGHT	PS	50336749007	Y	82.74	17.26	02/07/2023 21:23:08	14.231	1.223	16.945	14.231	M	845	
DRY WEIGHT	PS	50336749008	Y	80.66	19.34	02/07/2023 21:23:16	14.29	1.249	17.417	14.29	M	846	

319 of 324



Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Select	TS Posted (%)	Percent Moisture	Run Date/Time	Posted Dry Weight /w Dish (g)	Dish Weight (g)	Wet Weight /w Dish (g)	Dry Weight 1 (g)	Dry Wt Use 1	ID	Sample Notes
DRY WEIGHT	PS	50336749009	Y	95.35	4.649	02/07/2023 21:23:23	17.827	1.234	18.636	17.827	M	847	
DRY WEIGHT	PS	50336749010	Y	96.77	3.232	02/07/2023 21:23:30	21.975	1.225	22.668	21.975	M	848	
DRY WEIGHT	RQS	50336749011	Y	85.26	14.74	02/07/2023 21:23:39	24.471	1.238	28.488	24.471	M	849	
DRY WEIGHT	DUP	3294943	Y	85.72	14.28	02/07/2023 21:23:46	24.239	1.228	28.071	24.239	M	850	
DRY WEIGHT	PS	50336749012	Y	78.98	21.02	02/07/2023 21:23:54	13.223	1.235	16.414	13.223	M	851	



Prep Log Report

Batch Information: PMST 20932

Template Version: EF-IN-Q-337-Rev.04 (27Feb2022)

Analysis Method	SM 2540G
Acceptance Range	103-105 C
Oven Temp Out1 (C) Corr Date/Time Init	103.4 103.7 02/09/2023 08:54 MTW
Batch Notes	

Analyzed By	MTW
Thermometer ID	PT-304
Oven Temp In2 (C) Corr Date/Time Init	

Instrument	50BALO
Oven Correction Factor (C)	+0.3
Reviewed By	IRH

Oven ID	50WT09
Oven Temp In1 (C) Corr Date/Time Init	103.5 103.8 02/08/2023 12:59 MTW
Reviewed By Date	02/10/2023 13:32

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Select	TS Posted (%)	Percent Moisture	Run Date/Time	Posted Dry Weight /w Dish (g)	Dish Weight (g)	Wet Weight /w Dish (g)	Dry Weight 1 (g)	Dry Wt Use 1	ID	Sample Notes
DRY WEIGHT	PS	50336857021	Y	87.62	12.38	02/08/2023 10:20:44	11.295	1.27	12.711	11.295	M	230	
DRY WEIGHT	DUP	3295075	Y	85.64	14.36	02/08/2023 10:20:51	10.688	1.27	12.267	10.688	M	231	
DRY WEIGHT	PS	50336857022	Y	81.07	18.93	02/08/2023 10:20:57	11.683	1.265	14.116	11.683	M	232	
DRY WEIGHT	PS	50336857023	Y	71.68	28.32	02/08/2023 10:21:03	14.999	1.27	20.423	14.999	M	233	
DRY WEIGHT	PS	50336857024	Y	79.44	20.56	02/08/2023 10:21:09	8.212	1.265	10.01	8.212	M	234	
DRY WEIGHT	PS	50336857025	Y	77.97	22.03	02/08/2023 10:21:17	10.029	1.269	12.504	10.029	M	235	
DRY WEIGHT	PS	50336857026	Y	88.91	11.09	02/08/2023 10:21:23	13.027	1.27	14.494	13.027	M	236	
DRY WEIGHT	PS	50336857027	Y	78.34	21.66	02/08/2023 10:21:30	11.247	1.262	14.007	11.247	M	237	
DRY WEIGHT	PS	50336857028	Y	85.04	14.96	02/08/2023 10:21:38	13.749	1.262	15.945	13.749	M	238	
DRY WEIGHT	PS	50336857029	Y	81.38	18.62	02/08/2023 10:21:45	10.389	1.256	12.478	10.389	M	239	
DRY WEIGHT	PS	50336857030	Y	77.58	22.42	02/08/2023 10:21:54	10.76	1.266	13.503	10.76	M	240	
DRY WEIGHT	PS	50336749013	Y	72.59	27.41	02/08/2023 10:22:01	5.446	1.266	7.024	5.446	M	241	TC
DRY WEIGHT	PS	50336749014	Y	80.59	19.41	02/08/2023 10:22:09	5.939	1.268	7.064	5.939	M	242	TC
DRY WEIGHT	PS	50336749015	Y	80.90	19.10	02/08/2023 10:22:17	6.392	1.264	7.603	6.392	M	243	TC
DRY WEIGHT	PS	50336749016	Y	68.92	31.08	02/08/2023 10:22:25	4.966	1.271	6.632	4.966	M	244	TC
DRY WEIGHT	PS	50336749017	Y	67.80	32.20	02/08/2023 10:22:31	5.238	1.267	7.124	5.238	M	245	TC

321 of 324



Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Select	TS Posted (%)	Percent Moisture	Run Date/Time	Posted Dry Weight /w Dish (g)	Dish Weight (g)	Wet Weight /w Dish (g)	Dry Weight 1 (g)	Dry Wt Use 1	ID	Sample Notes
DRY WEIGHT	PS	50336749018	Y	78.70	21.30	02/08/2023 10:22:37	5.633	1.27	6.814	5.633	M	246	TC
DRY WEIGHT	PS	50336749019	Y	62.88	37.12	02/08/2023 10:22:45	4.354	1.271	6.174	4.354	M	247	TC
DRY WEIGHT	PS	50336749020	Y	67.22	32.78	02/08/2023 10:22:52	5.051	1.269	6.895	5.051	M	248	TC
DRY WEIGHT	RQS	50336749021	Y	91.99	8.009	02/08/2023 10:23:00	5.334	1.268	5.688	5.334	M	249	TC
DRY WEIGHT	DUP	3295076	Y	93.04	6.964	02/08/2023 10:23:08	5.619	1.264	5.945	5.619	M	250	TC
DRY WEIGHT	PS	50336749022	Y	92.74	7.263	02/08/2023 10:23:16	15.822	1.265	16.962	15.822	M	251	



Prep Log Report

Batch Information: PMST 20933

Template Version: EF-IN-Q-337-Rev.04 (27Feb2022)

Analysis Method	SM 2540G	Analyzed By	MTW	Instrument	50BALO	Oven ID	50WT09
Acceptance Range	103-105 C	Thermometer ID	PT-304	Oven Correction Factor (C)	+0.3	Oven Temp In1 (C) Corr Date/Time Init	103.2 103.5 02/08/2023 12:04 MTW
Oven Temp Out1 (C) Corr Date/Time Init	103.4 103.7 02/09/2023 08:54 MTW	Reviewed By	IRH	Reviewed By Date	02/10/2023 13:37	Batch Notes	

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Select	TS Posted (%)	Percent Moisture	Run Date/Time	Posted Dry Weight /w Dish (g)	Dish Weight (g)	Wet Weight /w Dish (g)	Dry Weight 1 (g)	Dry Wt Use 1	ID	Sample Notes
DRY WEIGHT	PS	50336749023	Y	64.37	35.63	02/08/2023 10:25:46	4.644	1.275	6.509	4.644	M	50	TC
DRY WEIGHT	PS	50336749024	Y	88.06	11.94	02/08/2023 10:25:58	10.914	1.274	12.221	10.914	M	52	
DRY WEIGHT	DUP	3295078	Y	82.62	17.38	02/08/2023 10:26:44	10.693	1.266	12.676	10.693	M	53	
DRY WEIGHT	PS	50336749025	Y	95.86	4.140	02/08/2023 10:26:50	14.669	1.263	15.248	14.669	M	54	
DRY WEIGHT	PS	50336749026	Y	94.82	5.177	02/08/2023 10:26:58	14.599	1.264	15.327	14.599	M	55	
DRY WEIGHT	PS	50336749027	Y	89.82	10.18	02/08/2023 10:27:07	12.482	1.262	13.754	12.482	M	56	
DRY WEIGHT	PS	50336749028	Y	82.49	17.51	02/08/2023 10:27:44	11.45	1.258	13.613	11.45	M	57	
DRY WEIGHT	PS	50336749030	Y	77.11	22.89	02/08/2023 10:27:50	5.929	1.256	7.316	5.929	M	58	TC
DRY WEIGHT	PS	50336880001	Y	81.24	18.76	02/08/2023 10:27:56	14.283	1.269	17.289	14.283	M	59	
DRY WEIGHT	PS	50336880002	Y	91.53	8.466	02/08/2023 10:28:02	15.27	1.268	16.565	15.27	M	60	
DRY WEIGHT	PS	50336806001	Y	80.26	19.74	02/08/2023 10:28:08	15.821	1.221	19.412	15.821	M	61	
DRY WEIGHT	PS	50336806002	Y	82.97	17.03	02/08/2023 10:28:46	19.98	1.223	23.83	19.98	M	62	
DRY WEIGHT	PS	50336806003	Y	78.99	21.01	02/08/2023 10:28:54	10.105	1.241	12.463	10.105	M	63	
DRY WEIGHT	PS	50336806004	Y	89.23	10.77	02/08/2023 10:29:01	15.894	1.234	17.663	15.894	M	64	
DRY WEIGHT	PS	50336806005	Y	87.76	12.24	02/08/2023 10:29:10	16.918	1.22	19.107	16.918	M	65	
DRY WEIGHT	PS	50336886001	Y	79.98	20.02	02/08/2023 10:29:17	8.265	1.233	10.025	8.265	M	66	
DRY WEIGHT	PS	50336901003	Y	95.98	4.021	02/08/2023 10:29:25	10.053	1.245	10.422	10.053	M	67	



Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Select	TS Posted (%)	Percent Moisture	Run Date/Time	Posted Dry Weight /w Dish (g)	Dish Weight (g)	Wet Weight /w Dish (g)	Dry Weight 1 (g)	Dry Wt Use 1	ID	Sample Notes
DRY WEIGHT	DUP	3295209	Y	96.05	3.954	02/08/2023 11:48:00	10.011	1.291	10.37	10.011	M	51	
DRY WEIGHT	PS	50336887001	Y	88.88	11.12	02/08/2023 10:29:33	7.272	1.227	8.028	7.272	M	68	TC
DRY WEIGHT	PS	50336887002	Y	81.42	18.58	02/08/2023 10:29:40	6.209	1.236	7.344	6.209	M	69	TC
DRY WEIGHT	PS	50336887003	Y	84.07	15.93	02/08/2023 10:29:47	7.137	1.23	8.256	7.137	M	70	TC