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ANALYTICAL REPORT

Eurofins TestAmerica, Seattle
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Tel: (253)922-2310

Laboratory Job ID: 580-87377-1
Client Project/Site: 2019 Blakely Harbor Sediment Inv.
Revision: 2

For:
Leidos, Inc.
18939 120th Ave NE, Suite 112
Bothell, Washington 98011

Attn: Tom Dube

Authorized for release by:
8/21/2019 12:40:12 PM

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

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

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Laboratory: Eurofins TestAmerica, Seattle

Narrative

Job Narrative
580-87377-1

Comments
Per client request, the batch size maximum of 20 samples was disregarded.

Receipt
The samples were received on 7/3/2019 8:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 11 coolers at receipt time were 0.9º C, 0.9º C, 1.2º C, 1.6º C, 1.8º C, 2.6º C, 4.3º C, 4.7º C, 5.0º C, 5.5º C and 5.5º C.

GC/MS Semi VOA
Method(s) 8270D: The following samples were diluted due to the nature of the sample matrix: BH2-06-S (580-87377-1), BH2-09-S (580-87377-2), BH2-08-S (580-87377-3), BH2-28-S (580-87377-4), BH2-27-S (580-87377-5), BH2-23-S (580-87377-6), BH2-19-S (580-87377-7), BH2-20-S (580-87377-8), BH2-21-S (580-87377-9), BH2-22-S (580-87377-10), BH2-18-S (580-87377-11), BH2-17-S (580-87377-13), BH2-14-S (580-87377-14), BH2-07-S (580-87377-15), BH2-03-S (580-87377-16), BH2-02-S (580-87377-17), BH2-02-S (580-87377-17[MS]), BH2-02-S (580-87377-17[MSD]), BH2-01-S (580-87377-18), BH2-05-S (580-87377-19), BH2-04-S (580-87377-20), BH2-04-D (580-87377-21), BH2-10-S (580-87377-23), BH2-11-S (580-87377-24), BH2-13-S (580-87377-25), BH2-15-S (580-87377-26), BH2-12-S (580-87377-27), BH2-40-S (580-87377-28), BH2-39-S (580-87377-29), BH2-38-S (580-87377-30), BH2-37-S (580-87377-31), BH2-36-S (580-87377-32), BH2-35-S (580-87377-33), BH2-34-S (580-87377-34), BH2-34-S (580-87377-34[MS]), BH2-34-S (580-87377-34[MSD]), BH2-33-S (580-87377-35), BH2-32-S (580-87377-36), BH2-31-S (580-87377-37), BH2-30-S (580-87377-38), BH2-29-S (580-87377-39), BH2-26-S (580-87377-40), BH2-25-S (580-87377-41), BH2-25-D (580-87377-42), BH2-24-5 (580-87377-44) and BH2-16-S (580-87377-45). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: Surrogate recovery for the following samples were outside control limits: BH2-06-S (580-87377-1), BH2-09-S (580-87377-2), BH2-08-S (580-87377-3), BH2-28-S (580-87377-4), BH2-27-S (580-87377-5), BH2-23-S (580-87377-6), BH2-19-S (580-87377-7), BH2-20-S (580-87377-8), BH2-21-S (580-87377-9), BH2-22-S (580-87377-10), BH2-18-S (580-87377-11), BH2-17-S (580-87377-13), BH2-14-S (580-87377-14), BH2-07-S (580-87377-15), BH2-03-S (580-87377-16), BH2-02-S (580-87377-17), BH2-02-S (580-87377-17[MS]), BH2-02-S (580-87377-17[MSD]), BH2-01-S (580-87377-18), BH2-05-S (580-87377-19), BH2-04-S (580-87377-20), BH2-04-D (580-87377-21), BH2-10-S (580-87377-23), BH2-11-S (580-87377-24), BH2-13-S (580-87377-25), BH2-15-S (580-87377-26), BH2-12-S (580-87377-27), BH2-40-S (580-87377-28), BH2-39-S (580-87377-29), BH2-38-S (580-87377-30), BH2-37-S (580-87377-31), BH2-36-S (580-87377-32), BH2-35-S (580-87377-33), BH2-34-S (580-87377-34), BH2-34-S (580-87377-34[MS]), BH2-34-S (580-87377-34[MSD]), BH2-33-S (580-87377-35), BH2-32-S (580-87377-36), BH2-31-S (580-87377-37), BH2-30-S (580-87377-38), BH2-29-S (580-87377-39), BH2-26-S (580-87377-40), BH2-25-S (580-87377-41), BH2-25-D (580-87377-42), BH2-24-5 (580-87377-44) and BH2-16-S (580-87377-45). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows two of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained less than the allowable number of surrogate compounds outside limits: (LCS 580-305515/2-A). These results have been reported and qualified.

Method(s) 8270D: The following samples were frozen by the laboratory in-hold, thawed, and re-extracted before the holding time expired: BH2-11-S (580-87377-24), BH2-13-S (580-87377-25), BH2-15-S (580-87377-26), BH2-12-S (580-87377-27), BH2-40-S (580-87377-28), BH2-39-S (580-87377-29), BH2-38-S (580-87377-30), BH2-37-S (580-87377-31), BH2-36-S (580-87377-32), BH2-35-S (580-87377-33), BH2-34-S (580-87377-34), BH2-34-S (580-87377-34[MS]), BH2-34-S (580-87377-34[MSD]), BH2-33-S (580-87377-35), BH2-32-S (580-87377-36), BH2-31-S (580-87377-37), BH2-30-S (580-87377-38), BH2-29-S (580-87377-39), BH2-26-S (580-87377-40), BH2-25-S (580-87377-41), BH2-25-D (580-87377-42), BH2-24-5 (580-87377-44) and BH2-16-S (580-87377-45).

Method(s) 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows two of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained less than the allowable number of surrogate compounds outside limits: (MB 580-306721/1-A). These results have been reported and qualified.

Method(s) 8270D: The method blank for preparation batch 580-304871 and analytical batch 580-305144 contained Benzyl alcohol above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8270D: The method blank for preparation batch 580-305515 and analytical batch 580-305606 contained Bis(2-ethylhexyl)

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phthalate and Butyl benzyl phthalate above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-extraction or re-analysis of samples was not performed.

Method(s) 8270D: The method blank for preparation batch 580-306721 contained Butyl benzyl phthalate above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

Method(s) 8270D: The method blank for preparation batch 580-306721 and analytical batch 580-306888 contained Bis(2-ethylhexyl) phthalate, Di-n-butyl phthalate, Di-n-octyl phthalate and Fluoranthene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8270D: Perylene-d12 internal standard recoveries were below limits for the following method blank: MB 580-306721/1-A. Low internal standard recovery creates a high bias in associated analytes. All analytes were non-detect, therefore the data is qualified and reported.

Method(s) 8270D: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 580-304871 and analytical batch 580-305144 recovered outside control limits for the following analytes: Bis(2-ethylhexyl) phthalate, Benzyl alcohol and Carbazole. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8270D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch preparation batch 580-304871 and analytical batch 580-305144 recovered outside control limits for the following analytes: Benzoic acid and Benzyl alcohol. Data have been qualified and reported.

Method(s) 8270D: The laboratory control sample (LCS) for preparation batch 580-305515 and analytical batch 580-305606 recovered outside control limits for the following analytes: Carbazole. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8270D: The following analyte(s) recovered outside control limits for the LCS associated with preparation batch 580-306721 and analytical batch 580-306888: 2,4-Dimethylphenol and Carbazole. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method(s) 8270D: The CCV for preparation batch 580-304871 and analytical batch 580-305144 recovered outside control limits for the following analyte: Benzoic acid, Pentachlorophenol, and 2,4-Dinitrophenol. These analytes have been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 580-305144 recovered above the upper control limit for Carbazole, 3,3'-Dichlorobenzidine and 3-Nitroaniline . The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: BH2-15-ER (580-87377-46), BH2-16-ER (580-87377-47), BH2-16-RB (580-87377-48) and (CCVIS 580-305144/3).

Method(s) 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 580-305515 and analytical batch 580-305606 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 580-306721 and analytical batch 580-306888 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

Method(s) 8082A: The following samples required a TBA clean-up to reduce matrix interferences caused by sulfur: BH2-06-S (580-87377-1), BH2-09-S (580-87377-2), BH2-08-S (580-87377-3), BH2-28-S (580-87377-4), BH2-27-S (580-87377-5), BH2-23-S

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(580-87377-6), BH2-19-S (580-87377-7), BH2-20-S (580-87377-8), BH2-21-S (580-87377-9), BH2-22-S (580-87377-10), BH2-18-S (580-87377-11), BH2-17-S (580-87377-13), BH2-14-S (580-87377-14), BH2-07-S (580-87377-15), BH2-03-S (580-87377-16), BH2-02-S (580-87377-17), BH2-02-S (580-87377-17[MS]), BH2-02-S (580-87377-17[MSD]), BH2-01-S (580-87377-18), BH2-05-S (580-87377-19), BH2-04-S (580-87377-20), BH2-04-D (580-87377-21), BH2-10-S (580-87377-23), BH2-11-S (580-87377-24), BH2-13-S (580-87377-25), BH2-15-S (580-87377-26), BH2-34-S (580-87377-34), BH2-34-S (580-87377-34[MS]), BH2-34-S (580-87377-34[MSD]), BH2-33-S (580-87377-35), BH2-32-S (580-87377-36), BH2-31-S (580-87377-37), BH2-30-S (580-87377-38), BH2-29-S (580-87377-39), BH2-26-S (580-87377-40), BH2-25-S (580-87377-41), BH2-25-D (580-87377-42), BH2-24-5 (580-87377-44),BH2-16-S (580-87377-45), BH2-15-ER (580-87377-46), BH2-16-ER (580-87377-47) and BH2-16-RB (580-87377-48).

Method(s) 8082A: Surrogate recovery for the following sample was outside control limits: BH2-24-5 (580-87377-44). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8082A: The continuing calibration verification (CCV) associated with batch 580-305512 recovered above the upper control limit for PCB-1232. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: BH2-15-ER (580-87377-46), BH2-16-ER (580-87377-47), BH2-16-RB (580-87377-48) and (CCV 580-305512/3).

Method(s) 8082A: The continuing calibration verification (CCV) standard associated with batch 580-305512 recovered outside %Drift acceptance criteria for DCB Decachlorobiphenyl surrogate. The %Recovery is within acceptance criteria for the surrogate in the CCV and associated samples; therefore, the data are qualified and reported.

Method(s) 8082A: The continuing calibration verification (CCV) standard associated with batch 580-306401 recovered outside %Drift acceptance criteria for DCB Decachlorobiphenyl surrogate. The %Recovery is within acceptance criteria for the surrogate in the CCV and associated samples; therefore, the data are qualified and reported.

Method(s) 8082A: The continuing calibration verification (CCV) standard associated with batch 580-305945 recovered outside acceptance criteria for %D for surrogate DCB Decachlorobiphenyl on the confirmation column only. Since the %Rec is within the acceptance criteria for the surrogate in the CCV and associated samples, the data have been reported.

Method(s) 8082A: The continuing calibration verification (CCV) associated with 580-305820 recovered high and outside the control limits for PCB-1232 on one column. Results are confirmed on both columns and reported from the passing column. The following samples are impacted: BH2-06-S (580-87377-1), BH2-09-S (580-87377-2), BH2-08-S (580-87377-3), BH2-28-S (580-87377-4), BH2-27-S (580-87377-5), BH2-23-S (580-87377-6), BH2-19-S (580-87377-7), BH2-20-S (580-87377-8), BH2-21-S (580-87377-9), BH2-22-S (580-87377-10), BH2-18-S (580-87377-11) and (CCV 580-305820/4).

Method(s) 8082A: The continuing calibration verification (CCV) associated with 580-305945 recovered high and outside the control limits for PCB-1232, PCB-1254 and PCB-1260 on one column. Results are confirmed on both columns and reported from the passing column. The following samples are impacted: BH2-17-S (580-87377-13), BH2-14-S (580-87377-14), BH2-07-S (580-87377-15), BH2-03-S (580-87377-16), BH2-02-S (580-87377-17), BH2-02-S (580-87377-17[MS]), BH2-02-S (580-87377-17[MSD]), BH2-01-S (580-87377-18), BH2-05-S (580-87377-19), BH2-04-S (580-87377-20), BH2-04-D (580-87377-21), BH2-10-S (580-87377-23), (CCV 580-305945/4), (CCV 580-305945/7) and (CCVIS 580-305945/8).

Method(s) 8082A: The continuing calibration verification (CCV) associated with 580-306190 recovered low and outside the control limits for PCB-1248 on one column. Results are confirmed on both columns and reported from the passing column. The following samples are impacted: BH2-11-S (580-87377-24), BH2-13-S (580-87377-25), BH2-15-S (580-87377-26) and (CCV 580-306190/5).

Method(s) 8082A: Internal standard (ISTD) response for the following samples exceeded the control limit on Column ZB-CLPesticides-1 and ZB-CLPesticides-2: BH2-06-S (580-87377-1), BH2-09-S (580-87377-2), BH2-08-S (580-87377-3), BH2-03-S (580-87377-16), BH2-02-S (580-87377-17), BH2-02-S (580-87377-17[MS]), BH2-02-S (580-87377-17[MSD]), BH2-01-S (580-87377-18), BH2-05-S (580-87377-19), BH2-04-S (580-87377-20) and BH2-04-D (580-87377-21). As such, the sample results associated with this ISTD were reported from the other column, which met ISTD acceptance criteria.

Method(s) 8082A: In analytical batch 580-305820, the %RPD between the primary and confirmation column exceeded 40% for some analytes for the following sample(s): BH2-20-S (580-87377-8[1.0]), BH2-21-S (580-87377-9[1.0]) and BH2-22-S (580-87377-10[1.0]). The lower value(s) has been reported in accordance with the laboratory's SOP.

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Method(s) 8082A: In analytical batch 580-306190, the %RPD between the primary and confirmation column exceeded 40% for PCB-1254 for the following sample(s): BH2-15-S (580-87377-26[1.0]). The lower value(s) has been reported in accordance with the laboratory's SOP.

Method(s) 8082A: In analytical batch 580-306401, the %RPD between the primary and confirmation column exceeded 40% for some analytes for the following samples: BH2-01-S (580-87377-18[1.0]), BH2-05-S (580-87377-19[1.0]) and BH2-04-S (580-87377-20[1.0]). The lower value(s) has been reported in accordance with the laboratory's SOP.

Method(s) 8082A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 580-305281 and analytical batch 580-306190 were outside control limits for PCB-1016. Sample matrix interference is suspected. Data have been qualified and reported.

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

Metals
Method 6020A: Arsenic, Chromium, and Lead were detected in the method blank associated with preparation batch 305123 at concentrations above the method detection limit (MDL) but below the reporting limit (RL). Data have been qualified and reported.

Method 6020A: Arsenic and Chromium were detected in the method blank associated with preparation batch 305608 at concentrations above the method detection limit (MDL) but below the reporting limit (RL). Data have been qualified and reported.

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

General Chemistry
Method(s) 160.4: The sample duplicate (DUP) precision for analytical batch 280-464009 was outside control limits. Sample non-homogeneity is suspected.

Method(s) Moisture: There is no regulatory holding time for percent moisture analysis. The H flag for the samples BH2-18-D (580-87377-12) and PSRM0121 (580-87377-49) have been removed in analytical batch 320-308831. This non-conformance indicates that the samples were analyzed out of 14 days of collection.

Method(s) 9060_PSEP: The following samples were prepared and analyzed from the frozen sample jars to meet hold times: BH2-17-S (580-87377-13), BH2-33-S (580-87377-35), BH2-32-S (580-87377-36), BH2-31-S (580-87377-37), BH2-30-S (580-87377-38), BH2-29-S (580-87377-39), BH2-26-S (580-87377-40), BH2-25-S (580-87377-41), BH2-25-D (580-87377-42), BH2-25-T (580-87377-43), BH2-24-5 (580-87377-44) and BH2-16-S (580-87377-45).

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

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

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

Definitions/Glossary

Client: Leidos, Inc. Job ID: 580-87377-1
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Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits
*	ISTD response or retention time outside acceptable limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
F4	MS/MSD RPD exceeds control limits due to sample size difference.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F4	MS/MSD RPD exceeds control limits due to sample size difference.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample ID: BH2-06-S **Lab Sample ID: 580-87377-1**
Date Collected: 07/01/19 09:50 **Matrix: Solid**
Date Received: 07/03/19 08:15 **Percent Solids: 41.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		120	14	ug/Kg	☼	07/12/19 12:55	07/15/19 11:03	10
1,2-Dichlorobenzene	ND		120	28	ug/Kg	☼	07/12/19 12:55	07/15/19 11:03	10
1,4-Dichlorobenzene	ND		120	20	ug/Kg	☼	07/12/19 12:55	07/15/19 11:03	10
2,4-Dimethylphenol	ND		240	35	ug/Kg	☼	07/12/19 12:55	07/15/19 11:03	10
2-Methylnaphthalene	ND		120	21	ug/Kg	☼	07/12/19 12:55	07/15/19 11:03	10
2-Methylphenol	ND		350	23	ug/Kg	☼	07/12/19 12:55	07/15/19 11:03	10
3 & 4 Methylphenol	**670**		470	35	ug/Kg	☼	07/12/19 12:55	07/15/19 11:03	10
Acenaphthene	ND		59	12	ug/Kg	☼	07/12/19 12:55	07/15/19 11:03	10
Acenaphthylene	**16**	**J**	59	12	ug/Kg	☼	07/12/19 12:55	07/15/19 11:03	10
Anthracene	**32**	**J**	59	12	ug/Kg	☼	07/12/19 12:55	07/15/19 11:03	10
Benzo[a]anthracene	**110**		59	12	ug/Kg	☼	07/12/19 12:55	07/15/19 11:03	10
Benzo[a]pyrene	**89**	**J**	140	31	ug/Kg	☼	07/12/19 12:55	07/15/19 11:03	10
Benzo[g,h,i]perylene	**64**	**J**	140	21	ug/Kg	☼	07/12/19 12:55	07/15/19 11:03	10
Benzofluoranthene	**57**	**J**	350	33	ug/Kg	☼	07/12/19 12:55	07/15/19 11:03	10
Benzoic acid	ND		4700	1400	ug/Kg	☼	07/12/19 12:55	07/15/19 11:03	10
Benzyl alcohol	ND		1200	180	ug/Kg	☼	07/12/19 12:55	07/15/19 11:03	10
Bis(2-ethylhexyl) phthalate	ND		1400	170	ug/Kg	☼	07/12/19 12:55	07/15/19 11:03	10
Butyl benzyl phthalate	**130**	**J B**	470	120	ug/Kg	☼	07/12/19 12:55	07/15/19 11:03	10
Carbazole	ND	*	350	19	ug/Kg	☼	07/12/19 12:55	07/15/19 11:03	10
Chrysene	**100**	**J**	140	31	ug/Kg	☼	07/12/19 12:55	07/15/19 11:03	10
Dibenz(a,h)anthracene	ND		120	28	ug/Kg	☼	07/12/19 12:55	07/15/19 11:03	10
Dibenzofuran	ND		350	14	ug/Kg	☼	07/12/19 12:55	07/15/19 11:03	10
Diethyl phthalate	ND		3500	180	ug/Kg	☼	07/12/19 12:55	07/15/19 11:03	10
Dimethyl phthalate	ND		350	31	ug/Kg	☼	07/12/19 12:55	07/15/19 11:03	10
Di-n-butyl phthalate	ND		1200	130	ug/Kg	☼	07/12/19 12:55	07/15/19 11:03	10
Di-n-octyl phthalate	**150**	**J**	350	130	ug/Kg	☼	07/12/19 12:55	07/15/19 11:03	10
Fluoranthene	**230**		59	12	ug/Kg	☼	07/12/19 12:55	07/15/19 11:03	10
Fluorene	**15**	**J**	59	12	ug/Kg	☼	07/12/19 12:55	07/15/19 11:03	10
Hexachlorobenzene	ND		120	35	ug/Kg	☼	07/12/19 12:55	07/15/19 11:03	10
Hexachlorobutadiene	ND		120	35	ug/Kg	☼	07/12/19 12:55	07/15/19 11:03	10
Indeno[1,2,3-cd]pyrene	**86**	**J**	95	12	ug/Kg	☼	07/12/19 12:55	07/15/19 11:03	10
Naphthalene	**48**	**J**	59	12	ug/Kg	☼	07/12/19 12:55	07/15/19 11:03	10
N-Nitrosodiphenylamine	ND		140	19	ug/Kg	☼	07/12/19 12:55	07/15/19 11:03	10
Pentachlorophenol	ND		1100	310	ug/Kg	☼	07/12/19 12:55	07/15/19 11:03	10
Phenanthrene	**130**	**J**	140	28	ug/Kg	☼	07/12/19 12:55	07/15/19 11:03	10
Phenol	**64**	**J**	350	54	ug/Kg	☼	07/12/19 12:55	07/15/19 11:03	10
Pyrene	**240**		140	15	ug/Kg	☼	07/12/19 12:55	07/15/19 11:03	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*133*	*X*	*52 - 125*	*07/12/19 12:55*	*07/15/19 11:03*	*10*
2-Fluorobiphenyl	*69*		*57 - 120*	*07/12/19 12:55*	*07/15/19 11:03*	*10*
2-Fluorophenol	*80*		*60 - 125*	*07/12/19 12:55*	*07/15/19 11:03*	*10*
Nitrobenzene-d5	*68*		*62 - 120*	*07/12/19 12:55*	*07/15/19 11:03*	*10*
Phenol-d5	*69*		*59 - 120*	*07/12/19 12:55*	*07/15/19 11:03*	*10*
Terphenyl-d14	*106*		*58 - 120*	*07/12/19 12:55*	*07/15/19 11:03*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0043	0.0016	mg/Kg	☼	07/12/19 14:19	07/17/19 18:16	1
PCB-1221	ND		0.0043	0.0021	mg/Kg	☼	07/12/19 14:19	07/17/19 18:16	1

Client Sample ID: BH2-06-S
Lab Sample ID: 580-87377-1
Date Collected: 07/01/19 09:50
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 41.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		0.0043	0.0021	mg/Kg	☼	07/12/19 14:19	07/17/19 18:16	1
PCB-1242	ND		0.0043	0.0011	mg/Kg	☼	07/12/19 14:19	07/17/19 18:16	1
PCB-1248	ND		0.0043	0.00078	mg/Kg	☼	07/12/19 14:19	07/17/19 18:16	1
PCB-1254	ND		0.0043	0.0017	mg/Kg	☼	07/12/19 14:19	07/17/19 18:16	1
PCB-1260	ND		0.0043	0.0017	mg/Kg	☼	07/12/19 14:19	07/17/19 18:16	1
Polychlorinated biphenyls, Total	ND		0.0043	0.0016	mg/Kg	☼	07/12/19 14:19	07/17/19 18:16	1
PCB-1262	ND		0.0043	0.0010	mg/Kg	☼	07/12/19 14:19	07/17/19 18:16	1
PCB-1268	ND		0.0043	0.0011	mg/Kg	☼	07/12/19 14:19	07/17/19 18:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*67*		*39 - 142*	*07/12/19 14:19*	*07/17/19 18:16*	*1*
Tetrachloro-m-xylene	*75*		*35 - 129*	*07/12/19 14:19*	*07/17/19 18:16*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**13**	**B**	0.45	0.090	mg/Kg	☼	07/09/19 12:48	07/16/19 00:32	5
Cadmium	**0.60**		0.36	0.070	mg/Kg	☼	07/09/19 12:48	07/16/19 00:32	5
Chromium	**28**	**B**	0.45	0.057	mg/Kg	☼	07/09/19 12:48	07/16/19 00:32	5
Copper	**66**		0.90	0.20	mg/Kg	☼	07/09/19 12:48	07/16/19 00:32	5
Lead	**110**	**B**	0.45	0.043	mg/Kg	☼	07/09/19 12:48	07/16/19 00:32	5
Nickel	**19**		0.45	0.17	mg/Kg	☼	07/09/19 12:48	07/16/19 00:32	5
Selenium	**1.3**		0.90	0.26	mg/Kg	☼	07/09/19 12:48	07/16/19 00:32	5
Silver	**0.26**		0.18	0.018	mg/Kg	☼	07/09/19 12:48	07/16/19 00:32	5
Zinc	**82**		4.5	1.5	mg/Kg	☼	07/09/19 12:48	07/16/19 00:32	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.17**		0.052	0.016	mg/Kg	☼	07/12/19 10:09	07/12/19 15:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	**130000**		2000	44	mg/Kg			07/15/19 17:18	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**41.1**		0.1	0.1	%			07/09/19 09:26	1
Percent Moisture	**58.9**		0.1	0.1	%			07/09/19 09:26	1
Total Solids	**41.1**		0.1	0.1	%			07/09/19 09:26	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**51**	**J B**	250	20	mg/Kg	☼		07/08/19 11:00	1

Method: PSEP Plumb 1981 - Grain Size (PSEP Plumb 1981)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Clay	**10**				%			07/09/19 16:07	1
Sand	**31**				%			07/09/19 16:07	1
Silt	**57**				%			07/09/19 16:07	1
Gravel	**2.1**				%			07/09/19 16:07	1
Cobbles	**0.00**				%			07/09/19 16:07	1

Client Sample ID: BH2-09-S **Lab Sample ID: 580-87377-2**
Date Collected: 07/01/19 10:40 **Matrix: Solid**
Date Received: 07/03/19 08:15 **Percent Solids: 61.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		400	48	ug/Kg	☼	07/12/19 12:55	07/15/19 11:26	50
1,2-Dichlorobenzene	ND		400	95	ug/Kg	☼	07/12/19 12:55	07/15/19 11:26	50
1,4-Dichlorobenzene	ND		400	66	ug/Kg	☼	07/12/19 12:55	07/15/19 11:26	50
2,4-Dimethylphenol	ND		790	120	ug/Kg	☼	07/12/19 12:55	07/15/19 11:26	50
2-Methylnaphthalene	ND		400	70	ug/Kg	☼	07/12/19 12:55	07/15/19 11:26	50
2-Methylphenol	ND		1200	78	ug/Kg	☼	07/12/19 12:55	07/15/19 11:26	50
3 & 4 Methylphenol	ND		1600	120	ug/Kg	☼	07/12/19 12:55	07/15/19 11:26	50
Acenaphthene	**130**	**J**	200	40	ug/Kg	☼	07/12/19 12:55	07/15/19 11:26	50
Acenaphthylene	**66**	**J**	200	40	ug/Kg	☼	07/12/19 12:55	07/15/19 11:26	50
Anthracene	**430**		200	40	ug/Kg	☼	07/12/19 12:55	07/15/19 11:26	50
Benzo[a]anthracene	**970**		200	40	ug/Kg	☼	07/12/19 12:55	07/15/19 11:26	50
Benzo[a]pyrene	**820**		480	100	ug/Kg	☼	07/12/19 12:55	07/15/19 11:26	50
Benzo[g,h,i]perylene	**450**	**J**	480	71	ug/Kg	☼	07/12/19 12:55	07/15/19 11:26	50
Benzofluoranthene	**350**	**J**	1200	110	ug/Kg	☼	07/12/19 12:55	07/15/19 11:26	50
Benzoic acid	ND		16000	4600	ug/Kg	☼	07/12/19 12:55	07/15/19 11:26	50
Benzyl alcohol	ND		4000	610	ug/Kg	☼	07/12/19 12:55	07/15/19 11:26	50
Bis(2-ethylhexyl) phthalate	ND		4800	560	ug/Kg	☼	07/12/19 12:55	07/15/19 11:26	50
Butyl benzyl phthalate	ND		1600	400	ug/Kg	☼	07/12/19 12:55	07/15/19 11:26	50
Carbazole	ND	*	1200	65	ug/Kg	☼	07/12/19 12:55	07/15/19 11:26	50
Chrysene	**960**		480	100	ug/Kg	☼	07/12/19 12:55	07/15/19 11:26	50
Dibenz(a,h)anthracene	**130**	**J**	400	95	ug/Kg	☼	07/12/19 12:55	07/15/19 11:26	50
Dibenzofuran	ND		1200	47	ug/Kg	☼	07/12/19 12:55	07/15/19 11:26	50
Diethyl phthalate	ND		12000	600	ug/Kg	☼	07/12/19 12:55	07/15/19 11:26	50
Dimethyl phthalate	ND		1200	100	ug/Kg	☼	07/12/19 12:55	07/15/19 11:26	50
Di-n-butyl phthalate	ND		4000	450	ug/Kg	☼	07/12/19 12:55	07/15/19 11:26	50
Di-n-octyl phthalate	ND		1200	450	ug/Kg	☼	07/12/19 12:55	07/15/19 11:26	50
Fluoranthene	**2300**		200	40	ug/Kg	☼	07/12/19 12:55	07/15/19 11:26	50
Fluorene	**140**	**J**	200	40	ug/Kg	☼	07/12/19 12:55	07/15/19 11:26	50
Hexachlorobenzene	ND		400	120	ug/Kg	☼	07/12/19 12:55	07/15/19 11:26	50
Hexachlorobutadiene	ND		400	120	ug/Kg	☼	07/12/19 12:55	07/15/19 11:26	50
Indeno[1,2,3-cd]pyrene	**550**		320	40	ug/Kg	☼	07/12/19 12:55	07/15/19 11:26	50
Naphthalene	ND		200	40	ug/Kg	☼	07/12/19 12:55	07/15/19 11:26	50
N-Nitrosodiphenylamine	ND		480	63	ug/Kg	☼	07/12/19 12:55	07/15/19 11:26	50
Pentachlorophenol	ND		3600	1000	ug/Kg	☼	07/12/19 12:55	07/15/19 11:26	50
Phenanthrene	**1700**		480	95	ug/Kg	☼	07/12/19 12:55	07/15/19 11:26	50
Phenol	**1400**		1200	180	ug/Kg	☼	07/12/19 12:55	07/15/19 11:26	50
Pyrene	**2500**		480	51	ug/Kg	☼	07/12/19 12:55	07/15/19 11:26	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*421*	*X*	*52 - 125*	*07/12/19 12:55*	*07/15/19 11:26*	*50*
2-Fluorobiphenyl	*70*		*57 - 120*	*07/12/19 12:55*	*07/15/19 11:26*	*50*
2-Fluorophenol	*76*		*60 - 125*	*07/12/19 12:55*	*07/15/19 11:26*	*50*
Nitrobenzene-d5	*75*		*62 - 120*	*07/12/19 12:55*	*07/15/19 11:26*	*50*
Phenol-d5	*74*		*59 - 120*	*07/12/19 12:55*	*07/15/19 11:26*	*50*
Terphenyl-d14	*89*		*58 - 120*	*07/12/19 12:55*	*07/15/19 11:26*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0027	0.0010	mg/Kg	☼	07/12/19 14:19	07/17/19 19:31	1
PCB-1221	ND		0.0027	0.0013	mg/Kg	☼	07/12/19 14:19	07/17/19 19:31	1

Client Sample ID: BH2-09-S

Date Collected: 07/01/19 10:40
Date Received: 07/03/19 08:15

Lab Sample ID: 580-87377-2

Matrix: Solid
Percent Solids: 61.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		0.0027	0.0013	mg/Kg	☼	07/12/19 14:19	07/17/19 19:31	1
PCB-1242	ND		0.0027	0.00067	mg/Kg	☼	07/12/19 14:19	07/17/19 19:31	1
PCB-1248	ND		0.0027	0.00049	mg/Kg	☼	07/12/19 14:19	07/17/19 19:31	1
PCB-1254	**0.0078**		0.0027	0.0011	mg/Kg	☼	07/12/19 14:19	07/23/19 19:09	1
PCB-1260	ND		0.0027	0.0011	mg/Kg	☼	07/12/19 14:19	07/17/19 19:31	1
Polychlorinated biphenyls, Total	**0.0078**		0.0027	0.0010	mg/Kg	☼	07/12/19 14:19	07/23/19 19:09	1
PCB-1262	ND		0.0027	0.00065	mg/Kg	☼	07/12/19 14:19	07/17/19 19:31	1
PCB-1268	ND		0.0027	0.00067	mg/Kg	☼	07/12/19 14:19	07/17/19 19:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*60*		*39 - 142*	*07/12/19 14:19*	*07/17/19 19:31*	*1*
Tetrachloro-m-xylene	*78*		*35 - 129*	*07/12/19 14:19*	*07/17/19 19:31*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**11**	**B**	0.31	0.062	mg/Kg	☼	07/09/19 12:48	07/15/19 22:57	5
Cadmium	**0.40**		0.25	0.047	mg/Kg	☼	07/09/19 12:48	07/15/19 22:57	5
Chromium	**12**	**B**	0.31	0.039	mg/Kg	☼	07/09/19 12:48	07/15/19 22:57	5
Copper	**84**		0.62	0.14	mg/Kg	☼	07/09/19 12:48	07/15/19 22:57	5
Lead	**170**	**B**	0.31	0.030	mg/Kg	☼	07/09/19 12:48	07/15/19 22:57	5
Nickel	**11**		0.31	0.12	mg/Kg	☼	07/09/19 12:48	07/15/19 22:57	5
Selenium	**0.87**		0.62	0.18	mg/Kg	☼	07/09/19 12:48	07/15/19 22:57	5
Silver	**0.12**		0.12	0.012	mg/Kg	☼	07/09/19 12:48	07/15/19 22:57	5
Zinc	**72**		3.1	0.99	mg/Kg	☼	07/09/19 12:48	07/15/19 22:57	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.092**		0.043	0.013	mg/Kg	☼	07/12/19 10:09	07/12/19 15:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	**98000**		2000	44	mg/Kg			07/15/19 17:11	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**61.0**		0.1	0.1	%			07/09/19 09:26	1
Percent Moisture	**39.0**		0.1	0.1	%			07/09/19 09:26	1
Total Solids	**61.0**		0.1	0.1	%			07/09/19 09:26	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**75**	**J B**	200	16	mg/Kg	☼		07/08/19 11:00	1

Method: PSEP Plumb 1981 - Grain Size (PSEP Plumb 1981)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Clay	**3.5**				%			07/09/19 16:07	1
Sand	**38**				%			07/09/19 16:07	1
Silt	**21**				%			07/09/19 16:07	1
Gravel	**38**				%			07/09/19 16:07	1
Cobbles	**0.00**				%			07/09/19 16:07	1

Client Sample ID: BH2-08-S
Date Collected: 07/01/19 11:03
Date Received: 07/03/19 08:15

Lab Sample ID: 580-87377-3
Matrix: Solid
Percent Solids: 60.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		370	45	ug/Kg	☼	07/12/19 12:55	07/15/19 11:50	50
1,2-Dichlorobenzene	ND		370	90	ug/Kg	☼	07/12/19 12:55	07/15/19 11:50	50
1,4-Dichlorobenzene	ND		370	62	ug/Kg	☼	07/12/19 12:55	07/15/19 11:50	50
2,4-Dimethylphenol	ND		750	110	ug/Kg	☼	07/12/19 12:55	07/15/19 11:50	50
2-Methylnaphthalene	ND		370	66	ug/Kg	☼	07/12/19 12:55	07/15/19 11:50	50
2-Methylphenol	ND		1100	73	ug/Kg	☼	07/12/19 12:55	07/15/19 11:50	50
3 & 4 Methylphenol	ND		1500	110	ug/Kg	☼	07/12/19 12:55	07/15/19 11:50	50
Acenaphthene	**59**	**J**	190	37	ug/Kg	☼	07/12/19 12:55	07/15/19 11:50	50
Acenaphthylene	**130**	**J**	190	37	ug/Kg	☼	07/12/19 12:55	07/15/19 11:50	50
Anthracene	**490**		190	37	ug/Kg	☼	07/12/19 12:55	07/15/19 11:50	50
Benzo[a]anthracene	**1200**		190	37	ug/Kg	☼	07/12/19 12:55	07/15/19 11:50	50
Benzo[a]pyrene	**1000**		450	97	ug/Kg	☼	07/12/19 12:55	07/15/19 11:50	50
Benzo[g,h,i]perylene	**650**		450	67	ug/Kg	☼	07/12/19 12:55	07/15/19 11:50	50
Benzofluoranthene	**490**	**J**	1100	100	ug/Kg	☼	07/12/19 12:55	07/15/19 11:50	50
Benzoic acid	ND		15000	4300	ug/Kg	☼	07/12/19 12:55	07/15/19 11:50	50
Benzyl alcohol	ND		3700	580	ug/Kg	☼	07/12/19 12:55	07/15/19 11:50	50
Bis(2-ethylhexyl) phthalate	ND		4500	530	ug/Kg	☼	07/12/19 12:55	07/15/19 11:50	50
Butyl benzyl phthalate	ND		1500	380	ug/Kg	☼	07/12/19 12:55	07/15/19 11:50	50
Carbazole	ND	*	1100	61	ug/Kg	☼	07/12/19 12:55	07/15/19 11:50	50
Chrysene	**1100**		450	97	ug/Kg	☼	07/12/19 12:55	07/15/19 11:50	50
Dibenz(a,h)anthracene	**160**	**J**	370	90	ug/Kg	☼	07/12/19 12:55	07/15/19 11:50	50
Dibenzofuran	ND		1100	44	ug/Kg	☼	07/12/19 12:55	07/15/19 11:50	50
Diethyl phthalate	ND		11000	570	ug/Kg	☼	07/12/19 12:55	07/15/19 11:50	50
Dimethyl phthalate	ND		1100	97	ug/Kg	☼	07/12/19 12:55	07/15/19 11:50	50
Di-n-butyl phthalate	ND		3700	430	ug/Kg	☼	07/12/19 12:55	07/15/19 11:50	50
Di-n-octyl phthalate	ND		1100	430	ug/Kg	☼	07/12/19 12:55	07/15/19 11:50	50
Fluoranthene	**2900**		190	37	ug/Kg	☼	07/12/19 12:55	07/15/19 11:50	50
Fluorene	**130**	**J**	190	37	ug/Kg	☼	07/12/19 12:55	07/15/19 11:50	50
Hexachlorobenzene	ND		370	110	ug/Kg	☼	07/12/19 12:55	07/15/19 11:50	50
Hexachlorobutadiene	ND		370	110	ug/Kg	☼	07/12/19 12:55	07/15/19 11:50	50
Indeno[1,2,3-cd]pyrene	**720**		300	37	ug/Kg	☼	07/12/19 12:55	07/15/19 11:50	50
Naphthalene	ND		190	37	ug/Kg	☼	07/12/19 12:55	07/15/19 11:50	50
N-Nitrosodiphenylamine	ND		450	60	ug/Kg	☼	07/12/19 12:55	07/15/19 11:50	50
Pentachlorophenol	ND		3400	990	ug/Kg	☼	07/12/19 12:55	07/15/19 11:50	50
Phenanthrene	**1700**		450	90	ug/Kg	☼	07/12/19 12:55	07/15/19 11:50	50
Phenol	**630**	**J**	1100	170	ug/Kg	☼	07/12/19 12:55	07/15/19 11:50	50
Pyrene	**3000**		450	48	ug/Kg	☼	07/12/19 12:55	07/15/19 11:50	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*392*	*X*	*52 - 125*	*07/12/19 12:55*	*07/15/19 11:50*	*50*
2-Fluorobiphenyl	*46*	*X*	*57 - 120*	*07/12/19 12:55*	*07/15/19 11:50*	*50*
2-Fluorophenol	*50*	*X*	*60 - 125*	*07/12/19 12:55*	*07/15/19 11:50*	*50*
Nitrobenzene-d5	*48*	*X*	*62 - 120*	*07/12/19 12:55*	*07/15/19 11:50*	*50*
Phenol-d5	*71*		*59 - 120*	*07/12/19 12:55*	*07/15/19 11:50*	*50*
Terphenyl-d14	*122*	*X*	*58 - 120*	*07/12/19 12:55*	*07/15/19 11:50*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0029	0.0011	mg/Kg	☼	07/12/19 14:19	07/17/19 19:49	1
PCB-1221	ND		0.0029	0.0014	mg/Kg	☼	07/12/19 14:19	07/17/19 19:49	1

Client Sample ID: BH2-08-S **Lab Sample ID: 580-87377-3**
Date Collected: 07/01/19 11:03 **Matrix: Solid**
Date Received: 07/03/19 08:15 **Percent Solids: 60.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		0.0029	0.0014	mg/Kg	☼	07/12/19 14:19	07/17/19 19:49	1
PCB-1242	ND		0.0029	0.00072	mg/Kg	☼	07/12/19 14:19	07/17/19 19:49	1
PCB-1248	ND		0.0029	0.00053	mg/Kg	☼	07/12/19 14:19	07/17/19 19:49	1
PCB-1254	ND		0.0029	0.0012	mg/Kg	☼	07/12/19 14:19	07/17/19 19:49	1
PCB-1260	ND		0.0029	0.0011	mg/Kg	☼	07/12/19 14:19	07/17/19 19:49	1
Polychlorinated biphenyls, Total	ND		0.0029	0.0011	mg/Kg	☼	07/12/19 14:19	07/17/19 19:49	1
PCB-1262	ND		0.0029	0.00069	mg/Kg	☼	07/12/19 14:19	07/17/19 19:49	1
PCB-1268	ND		0.0029	0.00072	mg/Kg	☼	07/12/19 14:19	07/17/19 19:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*68*		*39 - 142*	*07/12/19 14:19*	*07/17/19 19:49*	*1*
Tetrachloro-m-xylene	*74*		*35 - 129*	*07/12/19 14:19*	*07/17/19 19:49*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**8.3**	**B**	0.31	0.063	mg/Kg	☼	07/09/19 12:48	07/15/19 23:01	5
Cadmium	**0.33**		0.25	0.048	mg/Kg	☼	07/09/19 12:48	07/15/19 23:01	5
Chromium	**12**	**B**	0.31	0.040	mg/Kg	☼	07/09/19 12:48	07/15/19 23:01	5
Copper	**46**		0.63	0.14	mg/Kg	☼	07/09/19 12:48	07/15/19 23:01	5
Lead	**120**	**B**	0.31	0.030	mg/Kg	☼	07/09/19 12:48	07/15/19 23:01	5
Nickel	**13**		0.31	0.12	mg/Kg	☼	07/09/19 12:48	07/15/19 23:01	5
Selenium	**0.69**		0.63	0.18	mg/Kg	☼	07/09/19 12:48	07/15/19 23:01	5
Silver	**0.096**	**J**	0.13	0.013	mg/Kg	☼	07/09/19 12:48	07/15/19 23:01	5
Zinc	**60**		3.1	1.0	mg/Kg	☼	07/09/19 12:48	07/15/19 23:01	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.045**		0.045	0.014	mg/Kg	☼	07/12/19 10:09	07/12/19 15:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	**53000**		2000	44	mg/Kg			07/15/19 17:33	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**60.5**		0.1	0.1	%			07/09/19 09:24	1
Percent Moisture	**39.5**		0.1	0.1	%			07/09/19 09:24	1
Total Solids	**60.5**		0.1	0.1	%			07/09/19 09:24	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**25**	**J B**	190	15	mg/Kg	☼		07/08/19 11:00	1

Method: PSEP Plumb 1981 - Grain Size (PSEP Plumb 1981)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Clay	**2.3**				%			07/09/19 16:07	1
Sand	**28**				%			07/09/19 16:07	1
Silt	**8.8**				%			07/09/19 16:07	1
Gravel	**61**				%			07/09/19 16:07	1
Cobbles	**0.00**				%			07/09/19 16:07	1

Client Sample ID: BH2-28-S
Lab Sample ID: 580-87377-4
Date Collected: 07/01/19 13:35
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 70.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		120	15	ug/Kg	☼	07/12/19 12:55	07/15/19 12:13	20
1,2-Dichlorobenzene	ND		120	30	ug/Kg	☼	07/12/19 12:55	07/15/19 12:13	20
1,4-Dichlorobenzene	ND		120	21	ug/Kg	☼	07/12/19 12:55	07/15/19 12:13	20
2,4-Dimethylphenol	ND		250	37	ug/Kg	☼	07/12/19 12:55	07/15/19 12:13	20
2-Methylnaphthalene	ND		120	22	ug/Kg	☼	07/12/19 12:55	07/15/19 12:13	20
2-Methylphenol	ND		370	24	ug/Kg	☼	07/12/19 12:55	07/15/19 12:13	20
3 & 4 Methylphenol	**85**	**J**	490	37	ug/Kg	☼	07/12/19 12:55	07/15/19 12:13	20
Acenaphthene	ND		62	12	ug/Kg	☼	07/12/19 12:55	07/15/19 12:13	20
Acenaphthylene	**12**	**J**	62	12	ug/Kg	☼	07/12/19 12:55	07/15/19 12:13	20
Anthracene	**41**	**J**	62	12	ug/Kg	☼	07/12/19 12:55	07/15/19 12:13	20
Benzo[a]anthracene	**87**		62	12	ug/Kg	☼	07/12/19 12:55	07/15/19 12:13	20
Benzo[a]pyrene	**89**	**J**	150	32	ug/Kg	☼	07/12/19 12:55	07/15/19 12:13	20
Benzo[g,h,i]perylene	**59**	**J**	150	22	ug/Kg	☼	07/12/19 12:55	07/15/19 12:13	20
Benzofluoranthene	**42**	**J**	370	35	ug/Kg	☼	07/12/19 12:55	07/15/19 12:13	20
Benzoic acid	ND		4900	1400	ug/Kg	☼	07/12/19 12:55	07/15/19 12:13	20
Benzyl alcohol	ND		1200	190	ug/Kg	☼	07/12/19 12:55	07/15/19 12:13	20
Bis(2-ethylhexyl) phthalate	ND		1500	180	ug/Kg	☼	07/12/19 12:55	07/15/19 12:13	20
Butyl benzyl phthalate	ND		490	130	ug/Kg	☼	07/12/19 12:55	07/15/19 12:13	20
Carbazole	ND	*	370	20	ug/Kg	☼	07/12/19 12:55	07/15/19 12:13	20
Chrysene	**100**	**J**	150	32	ug/Kg	☼	07/12/19 12:55	07/15/19 12:13	20
Dibenz(a,h)anthracene	ND		120	30	ug/Kg	☼	07/12/19 12:55	07/15/19 12:13	20
Dibenzofuran	ND		370	15	ug/Kg	☼	07/12/19 12:55	07/15/19 12:13	20
Diethyl phthalate	ND		3700	190	ug/Kg	☼	07/12/19 12:55	07/15/19 12:13	20
Dimethyl phthalate	ND		370	32	ug/Kg	☼	07/12/19 12:55	07/15/19 12:13	20
Di-n-butyl phthalate	ND		1200	140	ug/Kg	☼	07/12/19 12:55	07/15/19 12:13	20
Di-n-octyl phthalate	ND		370	140	ug/Kg	☼	07/12/19 12:55	07/15/19 12:13	20
Fluoranthene	**210**		62	12	ug/Kg	☼	07/12/19 12:55	07/15/19 12:13	20
Fluorene	**15**	**J**	62	12	ug/Kg	☼	07/12/19 12:55	07/15/19 12:13	20
Hexachlorobenzene	ND		120	37	ug/Kg	☼	07/12/19 12:55	07/15/19 12:13	20
Hexachlorobutadiene	ND		120	37	ug/Kg	☼	07/12/19 12:55	07/15/19 12:13	20
Indeno[1,2,3-cd]pyrene	**77**	**J**	99	12	ug/Kg	☼	07/12/19 12:55	07/15/19 12:13	20
Naphthalene	**15**	**J**	62	12	ug/Kg	☼	07/12/19 12:55	07/15/19 12:13	20
N-Nitrosodiphenylamine	ND		150	20	ug/Kg	☼	07/12/19 12:55	07/15/19 12:13	20
Pentachlorophenol	ND		1100	330	ug/Kg	☼	07/12/19 12:55	07/15/19 12:13	20
Phenanthrene	**120**	**J**	150	30	ug/Kg	☼	07/12/19 12:55	07/15/19 12:13	20
Phenol	ND		370	57	ug/Kg	☼	07/12/19 12:55	07/15/19 12:13	20
Pyrene	**240**		150	16	ug/Kg	☼	07/12/19 12:55	07/15/19 12:13	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*184*	*X*	*52 - 125*	*07/12/19 12:55*	*07/15/19 12:13*	*20*
2-Fluorobiphenyl	*54*	*X*	*57 - 120*	*07/12/19 12:55*	*07/15/19 12:13*	*20*
2-Fluorophenol	*64*		*60 - 125*	*07/12/19 12:55*	*07/15/19 12:13*	*20*
Nitrobenzene-d5	*43*	*X*	*62 - 120*	*07/12/19 12:55*	*07/15/19 12:13*	*20*
Phenol-d5	*69*		*59 - 120*	*07/12/19 12:55*	*07/15/19 12:13*	*20*
Terphenyl-d14	*96*		*58 - 120*	*07/12/19 12:55*	*07/15/19 12:13*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0023	0.00086	mg/Kg	☼	07/12/19 14:19	07/17/19 20:07	1
PCB-1221	ND		0.0023	0.0011	mg/Kg	☼	07/12/19 14:19	07/17/19 20:07	1

Client Sample ID: BH2-28-S
Date Collected: 07/01/19 13:35
Date Received: 07/03/19 08:15

Lab Sample ID: 580-87377-4
Matrix: Solid
Percent Solids: 70.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		0.0023	0.0011	mg/Kg	☼	07/12/19 14:19	07/17/19 20:07	1
PCB-1242	ND		0.0023	0.00057	mg/Kg	☼	07/12/19 14:19	07/17/19 20:07	1
PCB-1248	ND		0.0023	0.00042	mg/Kg	☼	07/12/19 14:19	07/17/19 20:07	1
PCB-1254	ND		0.0023	0.00091	mg/Kg	☼	07/12/19 14:19	07/17/19 20:07	1
PCB-1260	ND		0.0023	0.00089	mg/Kg	☼	07/12/19 14:19	07/17/19 20:07	1
Polychlorinated biphenyls, Total	ND		0.0023	0.00084	mg/Kg	☼	07/12/19 14:19	07/17/19 20:07	1
PCB-1262	ND		0.0023	0.00054	mg/Kg	☼	07/12/19 14:19	07/17/19 20:07	1
PCB-1268	ND		0.0023	0.00057	mg/Kg	☼	07/12/19 14:19	07/17/19 20:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*64*		*39 - 142*	*07/12/19 14:19*	*07/17/19 20:07*	*1*
Tetrachloro-m-xylene	*63*		*35 - 129*	*07/12/19 14:19*	*07/17/19 20:07*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.0**	**B**	0.23	0.045	mg/Kg	☼	07/09/19 12:48	07/15/19 23:05	5
Cadmium	**0.44**		0.18	0.035	mg/Kg	☼	07/09/19 12:48	07/15/19 23:05	5
Chromium	**13**	**B**	0.23	0.029	mg/Kg	☼	07/09/19 12:48	07/15/19 23:05	5
Copper	**15**		0.45	0.10	mg/Kg	☼	07/09/19 12:48	07/15/19 23:05	5
Lead	**37**	**B**	0.23	0.022	mg/Kg	☼	07/09/19 12:48	07/15/19 23:05	5
Nickel	**9.9**		0.23	0.087	mg/Kg	☼	07/09/19 12:48	07/15/19 23:05	5
Selenium	**0.39**	**J**	0.45	0.13	mg/Kg	☼	07/09/19 12:48	07/15/19 23:05	5
Silver	**0.071**	**J**	0.091	0.0091	mg/Kg	☼	07/09/19 12:48	07/15/19 23:05	5
Zinc	**38**		2.3	0.73	mg/Kg	☼	07/09/19 12:48	07/15/19 23:05	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.19**		0.037	0.011	mg/Kg	☼	07/12/19 10:09	07/12/19 15:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	**10000**		2000	44	mg/Kg			07/15/19 17:37	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**70.8**		0.1	0.1	%			07/09/19 09:24	1
Percent Moisture	**29.2**		0.1	0.1	%			07/09/19 09:24	1
Total Solids	**70.8**		0.1	0.1	%			07/09/19 09:24	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		160	13	mg/Kg	☼		07/08/19 11:00	1

Method: PSEP Plumb 1981 - Grain Size (PSEP Plumb 1981)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Clay	**3.3**				%			07/09/19 16:07	1
Sand	**78**				%			07/09/19 16:07	1
Silt	**18**				%			07/09/19 16:07	1
Gravel	**0.00**				%			07/09/19 16:07	1
Cobbles	**0.00**				%			07/09/19 16:07	1

Client Sample ID: BH2-27-S **Lab Sample ID: 580-87377-5**
Date Collected: 07/01/19 13:53 **Matrix: Solid**
Date Received: 07/03/19 08:15 **Percent Solids: 66.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		130	16	ug/Kg	☼	07/12/19 12:55	07/15/19 12:36	20
1,2-Dichlorobenzene	ND		130	31	ug/Kg	☼	07/12/19 12:55	07/15/19 12:36	20
1,4-Dichlorobenzene	ND		130	22	ug/Kg	☼	07/12/19 12:55	07/15/19 12:36	20
2,4-Dimethylphenol	ND		260	39	ug/Kg	☼	07/12/19 12:55	07/15/19 12:36	20
2-Methylnaphthalene	ND		130	23	ug/Kg	☼	07/12/19 12:55	07/15/19 12:36	20
2-Methylphenol	ND		390	26	ug/Kg	☼	07/12/19 12:55	07/15/19 12:36	20
3 & 4 Methylphenol	**450**	**J**	520	39	ug/Kg	☼	07/12/19 12:55	07/15/19 12:36	20
Acenaphthene	ND		65	13	ug/Kg	☼	07/12/19 12:55	07/15/19 12:36	20
Acenaphthylene	ND		65	13	ug/Kg	☼	07/12/19 12:55	07/15/19 12:36	20
Anthracene	**26**	**J**	65	13	ug/Kg	☼	07/12/19 12:55	07/15/19 12:36	20
Benzo[a]anthracene	**63**	**J**	65	13	ug/Kg	☼	07/12/19 12:55	07/15/19 12:36	20
Benzo[a]pyrene	**64**	**J**	160	34	ug/Kg	☼	07/12/19 12:55	07/15/19 12:36	20
Benzo[g,h,i]perylene	**33**	**J**	160	23	ug/Kg	☼	07/12/19 12:55	07/15/19 12:36	20
Benzofluoranthene	ND		390	37	ug/Kg	☼	07/12/19 12:55	07/15/19 12:36	20
Benzoic acid	ND		5200	1500	ug/Kg	☼	07/12/19 12:55	07/15/19 12:36	20
Benzyl alcohol	ND		1300	200	ug/Kg	☼	07/12/19 12:55	07/15/19 12:36	20
Bis(2-ethylhexyl) phthalate	ND		1600	190	ug/Kg	☼	07/12/19 12:55	07/15/19 12:36	20
Butyl benzyl phthalate	ND		520	130	ug/Kg	☼	07/12/19 12:55	07/15/19 12:36	20
Carbazole	ND	*	390	21	ug/Kg	☼	07/12/19 12:55	07/15/19 12:36	20
Chrysene	**65**	**J**	160	34	ug/Kg	☼	07/12/19 12:55	07/15/19 12:36	20
Dibenz(a,h)anthracene	ND		130	31	ug/Kg	☼	07/12/19 12:55	07/15/19 12:36	20
Dibenzofuran	ND		390	15	ug/Kg	☼	07/12/19 12:55	07/15/19 12:36	20
Diethyl phthalate	ND		3900	200	ug/Kg	☼	07/12/19 12:55	07/15/19 12:36	20
Dimethyl phthalate	ND		390	34	ug/Kg	☼	07/12/19 12:55	07/15/19 12:36	20
Di-n-butyl phthalate	ND		1300	150	ug/Kg	☼	07/12/19 12:55	07/15/19 12:36	20
Di-n-octyl phthalate	ND		390	150	ug/Kg	☼	07/12/19 12:55	07/15/19 12:36	20
Fluoranthene	**140**		65	13	ug/Kg	☼	07/12/19 12:55	07/15/19 12:36	20
Fluorene	**13**	**J**	65	13	ug/Kg	☼	07/12/19 12:55	07/15/19 12:36	20
Hexachlorobenzene	ND		130	39	ug/Kg	☼	07/12/19 12:55	07/15/19 12:36	20
Hexachlorobutadiene	ND		130	39	ug/Kg	☼	07/12/19 12:55	07/15/19 12:36	20
Indeno[1,2,3-cd]pyrene	**61**	**J**	100	13	ug/Kg	☼	07/12/19 12:55	07/15/19 12:36	20
Naphthalene	ND		65	13	ug/Kg	☼	07/12/19 12:55	07/15/19 12:36	20
N-Nitrosodiphenylamine	ND		160	21	ug/Kg	☼	07/12/19 12:55	07/15/19 12:36	20
Pentachlorophenol	ND		1200	340	ug/Kg	☼	07/12/19 12:55	07/15/19 12:36	20
Phenanthrene	**92**	**J**	160	31	ug/Kg	☼	07/12/19 12:55	07/15/19 12:36	20
Phenol	**560**		390	60	ug/Kg	☼	07/12/19 12:55	07/15/19 12:36	20
Pyrene	**160**		160	17	ug/Kg	☼	07/12/19 12:55	07/15/19 12:36	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*185*	*X*	*52 - 125*	*07/12/19 12:55*	*07/15/19 12:36*	*20*
2-Fluorobiphenyl	*69*		*57 - 120*	*07/12/19 12:55*	*07/15/19 12:36*	*20*
2-Fluorophenol	*71*		*60 - 125*	*07/12/19 12:55*	*07/15/19 12:36*	*20*
Nitrobenzene-d5	*65*		*62 - 120*	*07/12/19 12:55*	*07/15/19 12:36*	*20*
Phenol-d5	*70*		*59 - 120*	*07/12/19 12:55*	*07/15/19 12:36*	*20*
Terphenyl-d14	*87*		*58 - 120*	*07/12/19 12:55*	*07/15/19 12:36*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0026	0.00098	mg/Kg	☼	07/12/19 14:19	07/17/19 20:25	1
PCB-1221	ND		0.0026	0.0013	mg/Kg	☼	07/12/19 14:19	07/17/19 20:25	1

Client Sample ID: BH2-27-S **Lab Sample ID: 580-87377-5**
Date Collected: 07/01/19 13:53 **Matrix: Solid**
Date Received: 07/03/19 08:15 **Percent Solids: 66.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		0.0026	0.0013	mg/Kg	☼	07/12/19 14:19	07/17/19 20:25	1
PCB-1242	ND		0.0026	0.00065	mg/Kg	☼	07/12/19 14:19	07/17/19 20:25	1
PCB-1248	ND		0.0026	0.00048	mg/Kg	☼	07/12/19 14:19	07/17/19 20:25	1
PCB-1254	ND		0.0026	0.0010	mg/Kg	☼	07/12/19 14:19	07/17/19 20:25	1
PCB-1260	ND		0.0026	0.0010	mg/Kg	☼	07/12/19 14:19	07/17/19 20:25	1
Polychlorinated biphenyls, Total	**0.00098**	**J**	0.0026	0.00096	mg/Kg	☼	07/12/19 14:19	07/17/19 20:25	1
PCB-1262	ND		0.0026	0.00062	mg/Kg	☼	07/12/19 14:19	07/17/19 20:25	1
PCB-1268	ND		0.0026	0.00065	mg/Kg	☼	07/12/19 14:19	07/17/19 20:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*66*		*39 - 142*	*07/12/19 14:19*	*07/17/19 20:25*	*1*
Tetrachloro-m-xylene	*60*		*35 - 129*	*07/12/19 14:19*	*07/17/19 20:25*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**8.0**	**B**	0.26	0.052	mg/Kg	☼	07/09/19 12:48	07/15/19 23:18	5
Cadmium	**0.93**		0.21	0.040	mg/Kg	☼	07/09/19 12:48	07/15/19 23:18	5
Chromium	**11**	**B**	0.26	0.033	mg/Kg	☼	07/09/19 12:48	07/15/19 23:18	5
Copper	**13**		0.52	0.11	mg/Kg	☼	07/09/19 12:48	07/15/19 23:18	5
Lead	**21**	**B**	0.26	0.025	mg/Kg	☼	07/09/19 12:48	07/15/19 23:18	5
Nickel	**9.1**		0.26	0.10	mg/Kg	☼	07/09/19 12:48	07/15/19 23:18	5
Selenium	**0.57**		0.52	0.15	mg/Kg	☼	07/09/19 12:48	07/15/19 23:18	5
Silver	**0.078**	**J**	0.10	0.010	mg/Kg	☼	07/09/19 12:48	07/15/19 23:18	5
Zinc	**36**		2.6	0.83	mg/Kg	☼	07/09/19 12:48	07/15/19 23:18	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.10**		0.041	0.012	mg/Kg	☼	07/12/19 10:09	07/12/19 15:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	**14000**		2000	44	mg/Kg			07/15/19 17:42	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**66.1**		0.1	0.1	%			07/09/19 09:24	1
Percent Moisture	**33.9**		0.1	0.1	%			07/09/19 09:24	1
Total Solids	**66.1**		0.1	0.1	%			07/09/19 09:24	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		180	15	mg/Kg	☼		07/08/19 11:00	1

Method: PSEP Plumb 1981 - Grain Size (PSEP Plumb 1981)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Clay	**2.9**				%			07/09/19 16:07	1
Sand	**76**				%			07/09/19 16:07	1
Silt	**22**				%			07/09/19 16:07	1
Gravel	**0.00**				%			07/09/19 16:07	1
Cobbles	**0.00**				%			07/09/19 16:07	1

Client Sample ID: BH2-23-S
Date Collected: 07/01/19 14:08
Date Received: 07/03/19 08:15

Lab Sample ID: 580-87377-6
Matrix: Solid
Percent Solids: 75.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		120	14	ug/Kg	☼	07/12/19 12:55	07/15/19 13:00	20
1,2-Dichlorobenzene	ND		120	29	ug/Kg	☼	07/12/19 12:55	07/15/19 13:00	20
1,4-Dichlorobenzene	ND		120	20	ug/Kg	☼	07/12/19 12:55	07/15/19 13:00	20
2,4-Dimethylphenol	ND		240	36	ug/Kg	☼	07/12/19 12:55	07/15/19 13:00	20
2-Methylnaphthalene	ND		120	21	ug/Kg	☼	07/12/19 12:55	07/15/19 13:00	20
2-Methylphenol	ND		360	24	ug/Kg	☼	07/12/19 12:55	07/15/19 13:00	20
3 & 4 Methylphenol	**46**	**J**	480	36	ug/Kg	☼	07/12/19 12:55	07/15/19 13:00	20
Acenaphthene	ND		60	12	ug/Kg	☼	07/12/19 12:55	07/15/19 13:00	20
Acenaphthylene	ND		60	12	ug/Kg	☼	07/12/19 12:55	07/15/19 13:00	20
Anthracene	ND		60	12	ug/Kg	☼	07/12/19 12:55	07/15/19 13:00	20
Benzo[a]anthracene	**14**	**J**	60	12	ug/Kg	☼	07/12/19 12:55	07/15/19 13:00	20
Benzo[a]pyrene	ND		140	31	ug/Kg	☼	07/12/19 12:55	07/15/19 13:00	20
Benzo[g,h,i]perylene	ND		140	22	ug/Kg	☼	07/12/19 12:55	07/15/19 13:00	20
Benzofluoranthene	ND		360	34	ug/Kg	☼	07/12/19 12:55	07/15/19 13:00	20
Benzoic acid	ND		4800	1400	ug/Kg	☼	07/12/19 12:55	07/15/19 13:00	20
Benzyl alcohol	ND		1200	190	ug/Kg	☼	07/12/19 12:55	07/15/19 13:00	20
Bis(2-ethylhexyl) phthalate	ND		1400	170	ug/Kg	☼	07/12/19 12:55	07/15/19 13:00	20
Butyl benzyl phthalate	ND		480	120	ug/Kg	☼	07/12/19 12:55	07/15/19 13:00	20
Carbazole	ND	*	360	20	ug/Kg	☼	07/12/19 12:55	07/15/19 13:00	20
Chrysene	ND		140	31	ug/Kg	☼	07/12/19 12:55	07/15/19 13:00	20
Dibenz(a,h)anthracene	ND		120	29	ug/Kg	☼	07/12/19 12:55	07/15/19 13:00	20
Dibenzofuran	ND		360	14	ug/Kg	☼	07/12/19 12:55	07/15/19 13:00	20
Diethyl phthalate	ND		3600	180	ug/Kg	☼	07/12/19 12:55	07/15/19 13:00	20
Dimethyl phthalate	ND		360	31	ug/Kg	☼	07/12/19 12:55	07/15/19 13:00	20
Di-n-butyl phthalate	ND		1200	140	ug/Kg	☼	07/12/19 12:55	07/15/19 13:00	20
Di-n-octyl phthalate	ND		360	140	ug/Kg	☼	07/12/19 12:55	07/15/19 13:00	20
Fluoranthene	**42**	**J**	60	12	ug/Kg	☼	07/12/19 12:55	07/15/19 13:00	20
Fluorene	ND		60	12	ug/Kg	☼	07/12/19 12:55	07/15/19 13:00	20
Hexachlorobenzene	ND		120	36	ug/Kg	☼	07/12/19 12:55	07/15/19 13:00	20
Hexachlorobutadiene	ND		120	36	ug/Kg	☼	07/12/19 12:55	07/15/19 13:00	20
Indeno[1,2,3-cd]pyrene	ND		96	12	ug/Kg	☼	07/12/19 12:55	07/15/19 13:00	20
Naphthalene	ND		60	12	ug/Kg	☼	07/12/19 12:55	07/15/19 13:00	20
N-Nitrosodiphenylamine	ND		140	19	ug/Kg	☼	07/12/19 12:55	07/15/19 13:00	20
Pentachlorophenol	ND		1100	320	ug/Kg	☼	07/12/19 12:55	07/15/19 13:00	20
Phenanthrene	ND		140	29	ug/Kg	☼	07/12/19 12:55	07/15/19 13:00	20
Phenol	**210**	**J**	360	55	ug/Kg	☼	07/12/19 12:55	07/15/19 13:00	20
Pyrene	**42**	**J**	140	15	ug/Kg	☼	07/12/19 12:55	07/15/19 13:00	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*181*	*X*	*52 - 125*	*07/12/19 12:55*	*07/15/19 13:00*	*20*
2-Fluorobiphenyl	*68*		*57 - 120*	*07/12/19 12:55*	*07/15/19 13:00*	*20*
2-Fluorophenol	*69*		*60 - 125*	*07/12/19 12:55*	*07/15/19 13:00*	*20*
Nitrobenzene-d5	*51*	*X*	*62 - 120*	*07/12/19 12:55*	*07/15/19 13:00*	*20*
Phenol-d5	*67*		*59 - 120*	*07/12/19 12:55*	*07/15/19 13:00*	*20*
Terphenyl-d14	*99*		*58 - 120*	*07/12/19 12:55*	*07/15/19 13:00*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0022	0.00081	mg/Kg	☼	07/12/19 14:19	07/17/19 20:44	1
PCB-1221	ND		0.0022	0.0010	mg/Kg	☼	07/12/19 14:19	07/17/19 20:44	1

Client Sample ID: BH2-23-S
Date Collected: 07/01/19 14:08
Date Received: 07/03/19 08:15

Lab Sample ID: 580-87377-6
Matrix: Solid
Percent Solids: 75.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		0.0022	0.0010	mg/Kg	☼	07/12/19 14:19	07/17/19 20:44	1
PCB-1242	ND		0.0022	0.00054	mg/Kg	☼	07/12/19 14:19	07/17/19 20:44	1
PCB-1248	ND		0.0022	0.00039	mg/Kg	☼	07/12/19 14:19	07/17/19 20:44	1
PCB-1254	ND		0.0022	0.00086	mg/Kg	☼	07/12/19 14:19	07/17/19 20:44	1
PCB-1260	ND		0.0022	0.00084	mg/Kg	☼	07/12/19 14:19	07/17/19 20:44	1
Polychlorinated biphenyls, Total	ND		0.0022	0.00080	mg/Kg	☼	07/12/19 14:19	07/17/19 20:44	1
PCB-1262	ND		0.0022	0.00051	mg/Kg	☼	07/12/19 14:19	07/17/19 20:44	1
PCB-1268	ND		0.0022	0.00054	mg/Kg	☼	07/12/19 14:19	07/17/19 20:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*59*		*39 - 142*	*07/12/19 14:19*	*07/17/19 20:44*	*1*
Tetrachloro-m-xylene	*51*		*35 - 129*	*07/12/19 14:19*	*07/17/19 20:44*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.0**	**B**	0.23	0.045	mg/Kg	☼	07/09/19 12:48	07/15/19 23:22	5
Cadmium	**0.18**		0.18	0.035	mg/Kg	☼	07/09/19 12:48	07/15/19 23:22	5
Chromium	**12**	**B**	0.23	0.028	mg/Kg	☼	07/09/19 12:48	07/15/19 23:22	5
Copper	**14**		0.45	0.099	mg/Kg	☼	07/09/19 12:48	07/15/19 23:22	5
Lead	**11**	**B**	0.23	0.022	mg/Kg	☼	07/09/19 12:48	07/15/19 23:22	5
Nickel	**14**		0.23	0.087	mg/Kg	☼	07/09/19 12:48	07/15/19 23:22	5
Selenium	**0.32**	**J**	0.45	0.13	mg/Kg	☼	07/09/19 12:48	07/15/19 23:22	5
Silver	**0.033**	**J**	0.090	0.0090	mg/Kg	☼	07/09/19 12:48	07/15/19 23:22	5
Zinc	**29**		2.3	0.73	mg/Kg	☼	07/09/19 12:48	07/15/19 23:22	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.014**	**J**	0.032	0.0097	mg/Kg	☼	07/12/19 10:09	07/12/19 16:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	**4500**		2000	44	mg/Kg			07/15/19 17:46	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**75.9**		0.1	0.1	%			07/09/19 09:24	1
Percent Moisture	**24.1**		0.1	0.1	%			07/09/19 09:24	1
Total Solids	**75.9**		0.1	0.1	%			07/09/19 09:24	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		150	12	mg/Kg	☼		07/08/19 11:00	1

Method: PSEP Plumb 1981 - Grain Size (PSEP Plumb 1981)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Clay	**2.5**				%			07/09/19 16:07	1
Sand	**85**				%			07/09/19 16:07	1
Silt	**12**				%			07/09/19 16:07	1
Gravel	**0.20**				%			07/09/19 16:07	1
Cobbles	**0.00**				%			07/09/19 16:07	1

Client Sample ID: BH2-19-S **Lab Sample ID: 580-87377-7**
Date Collected: 07/01/19 14:34 **Matrix: Solid**
Date Received: 07/03/19 08:15 **Percent Solids: 75.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		120	14	ug/Kg	☼	07/12/19 12:55	07/15/19 13:23	20
1,2-Dichlorobenzene	ND		120	29	ug/Kg	☼	07/12/19 12:55	07/15/19 13:23	20
1,4-Dichlorobenzene	ND		120	20	ug/Kg	☼	07/12/19 12:55	07/15/19 13:23	20
2,4-Dimethylphenol	ND		240	36	ug/Kg	☼	07/12/19 12:55	07/15/19 13:23	20
2-Methylnaphthalene	ND		120	21	ug/Kg	☼	07/12/19 12:55	07/15/19 13:23	20
2-Methylphenol	ND		360	23	ug/Kg	☼	07/12/19 12:55	07/15/19 13:23	20
3 & 4 Methylphenol	**95**	**J**	480	36	ug/Kg	☼	07/12/19 12:55	07/15/19 13:23	20
Acenaphthene	ND		60	12	ug/Kg	☼	07/12/19 12:55	07/15/19 13:23	20
Acenaphthylene	ND		60	12	ug/Kg	☼	07/12/19 12:55	07/15/19 13:23	20
Anthracene	ND		60	12	ug/Kg	☼	07/12/19 12:55	07/15/19 13:23	20
Benzo[a]anthracene	**26**	**J**	60	12	ug/Kg	☼	07/12/19 12:55	07/15/19 13:23	20
Benzo[a]pyrene	ND		140	31	ug/Kg	☼	07/12/19 12:55	07/15/19 13:23	20
Benzo[g,h,i]perylene	ND		140	22	ug/Kg	☼	07/12/19 12:55	07/15/19 13:23	20
Benzofluoranthene	ND		360	34	ug/Kg	☼	07/12/19 12:55	07/15/19 13:23	20
Benzoic acid	ND		4800	1400	ug/Kg	☼	07/12/19 12:55	07/15/19 13:23	20
Benzyl alcohol	ND		1200	180	ug/Kg	☼	07/12/19 12:55	07/15/19 13:23	20
Bis(2-ethylhexyl) phthalate	ND		1400	170	ug/Kg	☼	07/12/19 12:55	07/15/19 13:23	20
Butyl benzyl phthalate	ND		480	120	ug/Kg	☼	07/12/19 12:55	07/15/19 13:23	20
Carbazole	ND	*	360	20	ug/Kg	☼	07/12/19 12:55	07/15/19 13:23	20
Chrysene	ND		140	31	ug/Kg	☼	07/12/19 12:55	07/15/19 13:23	20
Dibenz(a,h)anthracene	ND		120	29	ug/Kg	☼	07/12/19 12:55	07/15/19 13:23	20
Dibenzofuran	ND		360	14	ug/Kg	☼	07/12/19 12:55	07/15/19 13:23	20
Diethyl phthalate	ND		3600	180	ug/Kg	☼	07/12/19 12:55	07/15/19 13:23	20
Dimethyl phthalate	ND		360	31	ug/Kg	☼	07/12/19 12:55	07/15/19 13:23	20
Di-n-butyl phthalate	ND		1200	140	ug/Kg	☼	07/12/19 12:55	07/15/19 13:23	20
Di-n-octyl phthalate	ND		360	140	ug/Kg	☼	07/12/19 12:55	07/15/19 13:23	20
Fluoranthene	**56**	**J**	60	12	ug/Kg	☼	07/12/19 12:55	07/15/19 13:23	20
Fluorene	ND		60	12	ug/Kg	☼	07/12/19 12:55	07/15/19 13:23	20
Hexachlorobenzene	ND		120	36	ug/Kg	☼	07/12/19 12:55	07/15/19 13:23	20
Hexachlorobutadiene	ND		120	36	ug/Kg	☼	07/12/19 12:55	07/15/19 13:23	20
Indeno[1,2,3-cd]pyrene	ND		96	12	ug/Kg	☼	07/12/19 12:55	07/15/19 13:23	20
Naphthalene	ND		60	12	ug/Kg	☼	07/12/19 12:55	07/15/19 13:23	20
N-Nitrosodiphenylamine	ND		140	19	ug/Kg	☼	07/12/19 12:55	07/15/19 13:23	20
Pentachlorophenol	ND		1100	320	ug/Kg	☼	07/12/19 12:55	07/15/19 13:23	20
Phenanthrene	ND		140	29	ug/Kg	☼	07/12/19 12:55	07/15/19 13:23	20
Phenol	**270**	**J**	360	55	ug/Kg	☼	07/12/19 12:55	07/15/19 13:23	20
Pyrene	**52**	**J**	140	15	ug/Kg	☼	07/12/19 12:55	07/15/19 13:23	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*191*	*X*	*52 - 125*	*07/12/19 12:55*	*07/15/19 13:23*	*20*
2-Fluorobiphenyl	*50*	*X*	*57 - 120*	*07/12/19 12:55*	*07/15/19 13:23*	*20*
2-Fluorophenol	*73*		*60 - 125*	*07/12/19 12:55*	*07/15/19 13:23*	*20*
Nitrobenzene-d5	*58*	*X*	*62 - 120*	*07/12/19 12:55*	*07/15/19 13:23*	*20*
Phenol-d5	*78*		*59 - 120*	*07/12/19 12:55*	*07/15/19 13:23*	*20*
Terphenyl-d14	*92*		*58 - 120*	*07/12/19 12:55*	*07/15/19 13:23*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0022	0.00082	mg/Kg	☼	07/12/19 14:19	07/17/19 21:02	1
PCB-1221	ND		0.0022	0.0010	mg/Kg	☼	07/12/19 14:19	07/17/19 21:02	1

Client Sample ID: BH2-19-S

Date Collected: 07/01/19 14:34
Date Received: 07/03/19 08:15

Lab Sample ID: 580-87377-7

Matrix: Solid
Percent Solids: 75.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		0.0022	0.0010	mg/Kg	☼	07/12/19 14:19	07/17/19 21:02	1
PCB-1242	ND		0.0022	0.00054	mg/Kg	☼	07/12/19 14:19	07/17/19 21:02	1
PCB-1248	ND		0.0022	0.00040	mg/Kg	☼	07/12/19 14:19	07/17/19 21:02	1
PCB-1254	ND		0.0022	0.00087	mg/Kg	☼	07/12/19 14:19	07/17/19 21:02	1
PCB-1260	ND		0.0022	0.00085	mg/Kg	☼	07/12/19 14:19	07/17/19 21:02	1
Polychlorinated biphenyls, Total	ND		0.0022	0.00081	mg/Kg	☼	07/12/19 14:19	07/17/19 21:02	1
PCB-1262	ND		0.0022	0.00052	mg/Kg	☼	07/12/19 14:19	07/17/19 21:02	1
PCB-1268	ND		0.0022	0.00054	mg/Kg	☼	07/12/19 14:19	07/17/19 21:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*73*		*39 - 142*	*07/12/19 14:19*	*07/17/19 21:02*	*1*
Tetrachloro-m-xylene	*65*		*35 - 129*	*07/12/19 14:19*	*07/17/19 21:02*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.0**	**B**	0.23	0.047	mg/Kg	☼	07/09/19 12:48	07/15/19 23:27	5
Cadmium	**0.15**	**J**	0.19	0.036	mg/Kg	☼	07/09/19 12:48	07/15/19 23:27	5
Chromium	**9.1**	**B**	0.23	0.029	mg/Kg	☼	07/09/19 12:48	07/15/19 23:27	5
Copper	**6.1**		0.47	0.10	mg/Kg	☼	07/09/19 12:48	07/15/19 23:27	5
Lead	**11**	**B**	0.23	0.022	mg/Kg	☼	07/09/19 12:48	07/15/19 23:27	5
Nickel	**10**		0.23	0.090	mg/Kg	☼	07/09/19 12:48	07/15/19 23:27	5
Selenium	**0.27**	**J**	0.47	0.13	mg/Kg	☼	07/09/19 12:48	07/15/19 23:27	5
Silver	**0.027**	**J**	0.093	0.0093	mg/Kg	☼	07/09/19 12:48	07/15/19 23:27	5
Zinc	**29**		2.3	0.75	mg/Kg	☼	07/09/19 12:48	07/15/19 23:27	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.016**	**J**	0.037	0.011	mg/Kg	☼	07/12/19 10:09	07/12/19 16:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	**5900**		2000	44	mg/Kg			07/15/19 17:50	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**75.2**		0.1	0.1	%			07/09/19 09:24	1
Percent Moisture	**24.8**		0.1	0.1	%			07/09/19 09:24	1
Total Solids	**75.2**		0.1	0.1	%			07/09/19 09:24	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		160	13	mg/Kg	☼		07/08/19 11:00	1

Method: PSEP Plumb 1981 - Grain Size (PSEP Plumb 1981)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Clay	**2.3**				%			07/09/19 16:07	1
Sand	**93**				%			07/09/19 16:07	1
Silt	**4.7**				%			07/09/19 16:07	1
Gravel	**0.00**				%			07/09/19 16:07	1
Cobbles	**0.00**				%			07/09/19 16:07	1

Client Sample ID: BH2-20-S
Date Collected: 07/01/19 14:45
Date Received: 07/03/19 08:15

Lab Sample ID: 580-87377-8
Matrix: Solid
Percent Solids: 29.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		790	95	ug/Kg	☼	07/12/19 12:55	07/15/19 13:47	50
1,2-Dichlorobenzene	ND		790	190	ug/Kg	☼	07/12/19 12:55	07/15/19 13:47	50
1,4-Dichlorobenzene	ND		790	130	ug/Kg	☼	07/12/19 12:55	07/15/19 13:47	50
2,4-Dimethylphenol	ND		1600	240	ug/Kg	☼	07/12/19 12:55	07/15/19 13:47	50
2-Methylnaphthalene	ND		790	140	ug/Kg	☼	07/12/19 12:55	07/15/19 13:47	50
2-Methylphenol	ND		2400	150	ug/Kg	☼	07/12/19 12:55	07/15/19 13:47	50
3 & 4 Methylphenol	**1900**	**J**	3200	240	ug/Kg	☼	07/12/19 12:55	07/15/19 13:47	50
Acenaphthene	**110**	**J**	390	79	ug/Kg	☼	07/12/19 12:55	07/15/19 13:47	50
Acenaphthylene	**110**	**J**	390	79	ug/Kg	☼	07/12/19 12:55	07/15/19 13:47	50
Anthracene	**320**	**J**	390	79	ug/Kg	☼	07/12/19 12:55	07/15/19 13:47	50
Benzo[a]anthracene	**740**		390	79	ug/Kg	☼	07/12/19 12:55	07/15/19 13:47	50
Benzo[a]pyrene	**710**	**J**	950	200	ug/Kg	☼	07/12/19 12:55	07/15/19 13:47	50
Benzo[g,h,i]perylene	**420**	**J**	950	140	ug/Kg	☼	07/12/19 12:55	07/15/19 13:47	50
Benzofluoranthene	**330**	**J**	2400	220	ug/Kg	☼	07/12/19 12:55	07/15/19 13:47	50
Benzoic acid	ND		32000	9100	ug/Kg	☼	07/12/19 12:55	07/15/19 13:47	50
Benzyl alcohol	ND		7900	1200	ug/Kg	☼	07/12/19 12:55	07/15/19 13:47	50
Bis(2-ethylhexyl) phthalate	ND		9500	1100	ug/Kg	☼	07/12/19 12:55	07/15/19 13:47	50
Butyl benzyl phthalate	ND		3200	800	ug/Kg	☼	07/12/19 12:55	07/15/19 13:47	50
Carbazole	ND	*	2400	130	ug/Kg	☼	07/12/19 12:55	07/15/19 13:47	50
Chrysene	**760**	**J**	950	200	ug/Kg	☼	07/12/19 12:55	07/15/19 13:47	50
Dibenz(a,h)anthracene	ND		790	190	ug/Kg	☼	07/12/19 12:55	07/15/19 13:47	50
Dibenzofuran	ND		2400	93	ug/Kg	☼	07/12/19 12:55	07/15/19 13:47	50
Diethyl phthalate	ND		24000	1200	ug/Kg	☼	07/12/19 12:55	07/15/19 13:47	50
Dimethyl phthalate	ND		2400	200	ug/Kg	☼	07/12/19 12:55	07/15/19 13:47	50
Di-n-butyl phthalate	ND		7900	900	ug/Kg	☼	07/12/19 12:55	07/15/19 13:47	50
Di-n-octyl phthalate	ND		2400	900	ug/Kg	☼	07/12/19 12:55	07/15/19 13:47	50
Fluoranthene	**1800**		390	79	ug/Kg	☼	07/12/19 12:55	07/15/19 13:47	50
Fluorene	**160**	**J**	390	79	ug/Kg	☼	07/12/19 12:55	07/15/19 13:47	50
Hexachlorobenzene	ND		790	240	ug/Kg	☼	07/12/19 12:55	07/15/19 13:47	50
Hexachlorobutadiene	ND		790	240	ug/Kg	☼	07/12/19 12:55	07/15/19 13:47	50
Indeno[1,2,3-cd]pyrene	**540**	**J**	630	79	ug/Kg	☼	07/12/19 12:55	07/15/19 13:47	50
Naphthalene	**200**	**J**	390	79	ug/Kg	☼	07/12/19 12:55	07/15/19 13:47	50
N-Nitrosodiphenylamine	ND		950	130	ug/Kg	☼	07/12/19 12:55	07/15/19 13:47	50
Pentachlorophenol	ND		7100	2100	ug/Kg	☼	07/12/19 12:55	07/15/19 13:47	50
Phenanthrene	**1100**		950	190	ug/Kg	☼	07/12/19 12:55	07/15/19 13:47	50
Phenol	**670**	**J**	2400	360	ug/Kg	☼	07/12/19 12:55	07/15/19 13:47	50
Pyrene	**1800**		950	100	ug/Kg	☼	07/12/19 12:55	07/15/19 13:47	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*338*	*X*	*52 - 125*	*07/12/19 12:55*	*07/15/19 13:47*	*50*
2-Fluorobiphenyl	*72*		*57 - 120*	*07/12/19 12:55*	*07/15/19 13:47*	*50*
2-Fluorophenol	*77*		*60 - 125*	*07/12/19 12:55*	*07/15/19 13:47*	*50*
Nitrobenzene-d5	*64*		*62 - 120*	*07/12/19 12:55*	*07/15/19 13:47*	*50*
Phenol-d5	*73*		*59 - 120*	*07/12/19 12:55*	*07/15/19 13:47*	*50*
Terphenyl-d14	*106*		*58 - 120*	*07/12/19 12:55*	*07/15/19 13:47*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0067	0.0025	mg/Kg	☼	07/12/19 14:19	07/17/19 21:20	1
PCB-1221	ND		0.0067	0.0032	mg/Kg	☼	07/12/19 14:19	07/17/19 21:20	1

Client Sample ID: BH2-20-S
Lab Sample ID: 580-87377-8
Date Collected: 07/01/19 14:45
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 29.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		0.0067	0.0032	mg/Kg	☼	07/12/19 14:19	07/17/19 21:20	1
PCB-1242	ND		0.0067	0.0017	mg/Kg	☼	07/12/19 14:19	07/17/19 21:20	1
PCB-1248	ND		0.0067	0.0012	mg/Kg	☼	07/12/19 14:19	07/17/19 21:20	1
PCB-1254	**0.0085**	**p**	0.0067	0.0027	mg/Kg	☼	07/12/19 14:19	07/17/19 21:20	1
PCB-1260	ND		0.0067	0.0026	mg/Kg	☼	07/12/19 14:19	07/17/19 21:20	1
Polychlorinated biphenyls, Total	**0.0085**		0.0067	0.0025	mg/Kg	☼	07/12/19 14:19	07/17/19 21:20	1
PCB-1262	ND		0.0067	0.0016	mg/Kg	☼	07/12/19 14:19	07/17/19 21:20	1
PCB-1268	ND		0.0067	0.0017	mg/Kg	☼	07/12/19 14:19	07/17/19 21:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*57*		*39 - 142*	*07/12/19 14:19*	*07/17/19 21:20*	*1*
Tetrachloro-m-xylene	*60*		*35 - 129*	*07/12/19 14:19*	*07/17/19 21:20*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**24**	**B**	0.59	0.12	mg/Kg	☼	07/09/19 12:48	07/15/19 23:31	5
Cadmium	**2.8**		0.47	0.091	mg/Kg	☼	07/09/19 12:48	07/15/19 23:31	5
Chromium	**19**	**B**	0.59	0.074	mg/Kg	☼	07/09/19 12:48	07/15/19 23:31	5
Copper	**55**		1.2	0.26	mg/Kg	☼	07/09/19 12:48	07/15/19 23:31	5
Lead	**110**	**B**	0.59	0.056	mg/Kg	☼	07/09/19 12:48	07/15/19 23:31	5
Nickel	**13**		0.59	0.23	mg/Kg	☼	07/09/19 12:48	07/15/19 23:31	5
Selenium	**1.7**		1.2	0.34	mg/Kg	☼	07/09/19 12:48	07/15/19 23:31	5
Silver	**0.25**		0.24	0.024	mg/Kg	☼	07/09/19 12:48	07/15/19 23:31	5
Zinc	**110**		5.9	1.9	mg/Kg	☼	07/09/19 12:48	07/15/19 23:31	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**2.2**		0.091	0.027	mg/Kg	☼	07/12/19 10:09	07/12/19 16:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	**170000**		2000	44	mg/Kg			07/15/19 18:04	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**29.1**		0.1	0.1	%			07/09/19 09:24	1
Percent Moisture	**70.9**		0.1	0.1	%			07/09/19 09:24	1
Total Solids	**29.1**		0.1	0.1	%			07/09/19 09:24	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		420	33	mg/Kg	☼		07/08/19 11:00	1

Method: PSEP Plumb 1981 - Grain Size (PSEP Plumb 1981)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Clay	**6.5**				%			07/09/19 16:07	1
Sand	**61**				%			07/09/19 16:07	1
Silt	**33**				%			07/09/19 16:07	1
Gravel	**0.40**				%			07/09/19 16:07	1
Cobbles	**0.00**				%			07/09/19 16:07	1

Client Sample ID: BH2-21-S
Date Collected: 07/01/19 15:02
Date Received: 07/03/19 08:15

Lab Sample ID: 580-87377-9
Matrix: Solid
Percent Solids: 49.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		490	59	ug/Kg	☼	07/12/19 12:55	07/15/19 14:10	50
1,2-Dichlorobenzene	ND		490	120	ug/Kg	☼	07/12/19 12:55	07/15/19 14:10	50
1,4-Dichlorobenzene	ND		490	81	ug/Kg	☼	07/12/19 12:55	07/15/19 14:10	50
2,4-Dimethylphenol	ND		980	150	ug/Kg	☼	07/12/19 12:55	07/15/19 14:10	50
2-Methylnaphthalene	ND		490	86	ug/Kg	☼	07/12/19 12:55	07/15/19 14:10	50
2-Methylphenol	ND		1500	96	ug/Kg	☼	07/12/19 12:55	07/15/19 14:10	50
3 & 4 Methylphenol	**650**	**J**	2000	150	ug/Kg	☼	07/12/19 12:55	07/15/19 14:10	50
Acenaphthene	ND		240	49	ug/Kg	☼	07/12/19 12:55	07/15/19 14:10	50
Acenaphthylene	ND		240	49	ug/Kg	☼	07/12/19 12:55	07/15/19 14:10	50
Anthracene	ND		240	49	ug/Kg	☼	07/12/19 12:55	07/15/19 14:10	50
Benzo[a]anthracene	**480**		240	49	ug/Kg	☼	07/12/19 12:55	07/15/19 14:10	50
Benzo[a]pyrene	**400**	**J**	590	130	ug/Kg	☼	07/12/19 12:55	07/15/19 14:10	50
Benzo[g,h,i]perylene	**210**	**J**	590	88	ug/Kg	☼	07/12/19 12:55	07/15/19 14:10	50
Benzofluoranthene	**590**	**J**	1500	140	ug/Kg	☼	07/12/19 12:55	07/15/19 14:10	50
Benzoic acid	ND		20000	5700	ug/Kg	☼	07/12/19 12:55	07/15/19 14:10	50
Benzyl alcohol	ND		4900	750	ug/Kg	☼	07/12/19 12:55	07/15/19 14:10	50
Bis(2-ethylhexyl) phthalate	ND		5900	690	ug/Kg	☼	07/12/19 12:55	07/15/19 14:10	50
Butyl benzyl phthalate	ND		2000	500	ug/Kg	☼	07/12/19 12:55	07/15/19 14:10	50
Carbazole	ND	*	1500	80	ug/Kg	☼	07/12/19 12:55	07/15/19 14:10	50
Chrysene	**520**	**J**	590	130	ug/Kg	☼	07/12/19 12:55	07/15/19 14:10	50
Dibenz(a,h)anthracene	ND		490	120	ug/Kg	☼	07/12/19 12:55	07/15/19 14:10	50
Dibenzofuran	ND		1500	58	ug/Kg	☼	07/12/19 12:55	07/15/19 14:10	50
Diethyl phthalate	ND		15000	740	ug/Kg	☼	07/12/19 12:55	07/15/19 14:10	50
Dimethyl phthalate	ND		1500	130	ug/Kg	☼	07/12/19 12:55	07/15/19 14:10	50
Di-n-butyl phthalate	ND		4900	560	ug/Kg	☼	07/12/19 12:55	07/15/19 14:10	50
Di-n-octyl phthalate	ND		1500	560	ug/Kg	☼	07/12/19 12:55	07/15/19 14:10	50
Fluoranthene	**1100**		240	49	ug/Kg	☼	07/12/19 12:55	07/15/19 14:10	50
Fluorene	**84**	**J**	240	49	ug/Kg	☼	07/12/19 12:55	07/15/19 14:10	50
Hexachlorobenzene	ND		490	150	ug/Kg	☼	07/12/19 12:55	07/15/19 14:10	50
Hexachlorobutadiene	ND		490	150	ug/Kg	☼	07/12/19 12:55	07/15/19 14:10	50
Indeno[1,2,3-cd]pyrene	**330**	**J**	390	49	ug/Kg	☼	07/12/19 12:55	07/15/19 14:10	50
Naphthalene	**87**	**J**	240	49	ug/Kg	☼	07/12/19 12:55	07/15/19 14:10	50
N-Nitrosodiphenylamine	ND		590	78	ug/Kg	☼	07/12/19 12:55	07/15/19 14:10	50
Pentachlorophenol	ND		4400	1300	ug/Kg	☼	07/12/19 12:55	07/15/19 14:10	50
Phenanthrene	**550**	**J**	590	120	ug/Kg	☼	07/12/19 12:55	07/15/19 14:10	50
Phenol	**530**	**J**	1500	220	ug/Kg	☼	07/12/19 12:55	07/15/19 14:10	50
Pyrene	**1200**		590	62	ug/Kg	☼	07/12/19 12:55	07/15/19 14:10	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*0*	*X*	*52 - 125*	*07/12/19 12:55*	*07/15/19 14:10*	*50*
2-Fluorobiphenyl	*72*		*57 - 120*	*07/12/19 12:55*	*07/15/19 14:10*	*50*
2-Fluorophenol	*0*	*X*	*60 - 125*	*07/12/19 12:55*	*07/15/19 14:10*	*50*
Nitrobenzene-d5	*56*	*X*	*62 - 120*	*07/12/19 12:55*	*07/15/19 14:10*	*50*
Phenol-d5	*76*		*59 - 120*	*07/12/19 12:55*	*07/15/19 14:10*	*50*
Terphenyl-d14	*105*		*58 - 120*	*07/12/19 12:55*	*07/15/19 14:10*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0036	0.0013	mg/Kg	☼	07/12/19 14:19	07/17/19 21:38	1
PCB-1221	ND		0.0036	0.0017	mg/Kg	☼	07/12/19 14:19	07/17/19 21:38	1

Client Sample ID: BH2-21-S
Lab Sample ID: 580-87377-9
Date Collected: 07/01/19 15:02
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 49.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		0.0036	0.0017	mg/Kg	☼	07/12/19 14:19	07/17/19 21:38	1
PCB-1242	ND		0.0036	0.00089	mg/Kg	☼	07/12/19 14:19	07/17/19 21:38	1
PCB-1248	ND		0.0036	0.00065	mg/Kg	☼	07/12/19 14:19	07/17/19 21:38	1
PCB-1254	**0.0027**	**J p**	0.0036	0.0014	mg/Kg	☼	07/12/19 14:19	07/17/19 21:38	1
PCB-1260	ND		0.0036	0.0014	mg/Kg	☼	07/12/19 14:19	07/17/19 21:38	1
Polychlorinated biphenyls, Total	**0.0027**	**J**	0.0036	0.0013	mg/Kg	☼	07/12/19 14:19	07/17/19 21:38	1
PCB-1262	ND		0.0036	0.00086	mg/Kg	☼	07/12/19 14:19	07/17/19 21:38	1
PCB-1268	ND		0.0036	0.00089	mg/Kg	☼	07/12/19 14:19	07/17/19 21:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*60*		*39 - 142*	*07/12/19 14:19*	*07/17/19 21:38*	*1*
Tetrachloro-m-xylene	*53*		*35 - 129*	*07/12/19 14:19*	*07/17/19 21:38*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**13**	**B**	0.34	0.067	mg/Kg	☼	07/09/19 12:48	07/15/19 23:35	5
Cadmium	**1.2**		0.27	0.052	mg/Kg	☼	07/09/19 12:48	07/15/19 23:35	5
Chromium	**17**	**B**	0.34	0.042	mg/Kg	☼	07/09/19 12:48	07/15/19 23:35	5
Copper	**50**		0.67	0.15	mg/Kg	☼	07/09/19 12:48	07/15/19 23:35	5
Lead	**640**	**B**	0.34	0.032	mg/Kg	☼	07/09/19 12:48	07/15/19 23:35	5
Nickel	**14**		0.34	0.13	mg/Kg	☼	07/09/19 12:48	07/15/19 23:35	5
Selenium	**0.88**		0.67	0.19	mg/Kg	☼	07/09/19 12:48	07/15/19 23:35	5
Silver	**0.14**		0.13	0.013	mg/Kg	☼	07/09/19 12:48	07/15/19 23:35	5
Zinc	**130**		3.4	1.1	mg/Kg	☼	07/09/19 12:48	07/15/19 23:35	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.20**		0.058	0.017	mg/Kg	☼	07/12/19 10:09	07/12/19 16:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	**42000**		2000	44	mg/Kg			07/15/19 18:09	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**49.6**		0.1	0.1	%			07/09/19 09:24	1
Percent Moisture	**50.4**		0.1	0.1	%			07/09/19 09:24	1
Total Solids	**49.6**		0.1	0.1	%			07/09/19 09:24	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		240	19	mg/Kg	☼		07/08/19 11:00	1

Method: PSEP Plumb 1981 - Grain Size (PSEP Plumb 1981)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Clay	**3.3**				%			07/09/19 16:07	1
Sand	**79**				%			07/09/19 16:07	1
Silt	**18**				%			07/09/19 16:07	1
Gravel	**0.10**				%			07/09/19 16:07	1
Cobbles	**0.00**				%			07/09/19 16:07	1

Client Sample ID: BH2-22-S **Lab Sample ID: 580-87377-10**
Date Collected: 07/01/19 15:14 **Matrix: Solid**
Date Received: 07/03/19 08:15 **Percent Solids: 47.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		470	56	ug/Kg	☼	07/12/19 12:55	07/15/19 15:10	50
1,2-Dichlorobenzene	ND		470	110	ug/Kg	☼	07/12/19 12:55	07/15/19 15:10	50
1,4-Dichlorobenzene	ND		470	78	ug/Kg	☼	07/12/19 12:55	07/15/19 15:10	50
2,4-Dimethylphenol	ND		940	140	ug/Kg	☼	07/12/19 12:55	07/15/19 15:10	50
2-Methylnaphthalene	**130**	**J**	470	83	ug/Kg	☼	07/12/19 12:55	07/15/19 15:10	50
2-Methylphenol	ND		1400	92	ug/Kg	☼	07/12/19 12:55	07/15/19 15:10	50
3 & 4 Methylphenol	**1200**	**J**	1900	140	ug/Kg	☼	07/12/19 12:55	07/15/19 15:10	50
Acenaphthene	**540**		230	47	ug/Kg	☼	07/12/19 12:55	07/15/19 15:10	50
Acenaphthylene	**270**		230	47	ug/Kg	☼	07/12/19 12:55	07/15/19 15:10	50
Anthracene	**1100**		230	47	ug/Kg	☼	07/12/19 12:55	07/15/19 15:10	50
Benzo[a]anthracene	**2500**		230	47	ug/Kg	☼	07/12/19 12:55	07/15/19 15:10	50
Benzo[a]pyrene	**2000**		560	120	ug/Kg	☼	07/12/19 12:55	07/15/19 15:10	50
Benzo[g,h,i]perylene	**1100**		560	84	ug/Kg	☼	07/12/19 12:55	07/15/19 15:10	50
Benzofluoranthene	**1100**	**J**	1400	130	ug/Kg	☼	07/12/19 12:55	07/15/19 15:10	50
Benzoic acid	ND		19000	5400	ug/Kg	☼	07/12/19 12:55	07/15/19 15:10	50
Benzyl alcohol	ND		4700	720	ug/Kg	☼	07/12/19 12:55	07/15/19 15:10	50
Bis(2-ethylhexyl) phthalate	ND		5600	670	ug/Kg	☼	07/12/19 12:55	07/15/19 15:10	50
Butyl benzyl phthalate	ND		1900	480	ug/Kg	☼	07/12/19 12:55	07/15/19 15:10	50
Carbazole	ND	*	1400	77	ug/Kg	☼	07/12/19 12:55	07/15/19 15:10	50
Chrysene	**2200**		560	120	ug/Kg	☼	07/12/19 12:55	07/15/19 15:10	50
Dibenz(a,h)anthracene	**310**	**J**	470	110	ug/Kg	☼	07/12/19 12:55	07/15/19 15:10	50
Dibenzofuran	**150**	**J**	1400	55	ug/Kg	☼	07/12/19 12:55	07/15/19 15:10	50
Diethyl phthalate	ND		14000	710	ug/Kg	☼	07/12/19 12:55	07/15/19 15:10	50
Dimethyl phthalate	ND		1400	120	ug/Kg	☼	07/12/19 12:55	07/15/19 15:10	50
Di-n-butyl phthalate	ND		4700	540	ug/Kg	☼	07/12/19 12:55	07/15/19 15:10	50
Di-n-octyl phthalate	ND		1400	540	ug/Kg	☼	07/12/19 12:55	07/15/19 15:10	50
Fluoranthene	**4900**		230	47	ug/Kg	☼	07/12/19 12:55	07/15/19 15:10	50
Fluorene	**530**		230	47	ug/Kg	☼	07/12/19 12:55	07/15/19 15:10	50
Hexachlorobenzene	ND		470	140	ug/Kg	☼	07/12/19 12:55	07/15/19 15:10	50
Hexachlorobutadiene	ND		470	140	ug/Kg	☼	07/12/19 12:55	07/15/19 15:10	50
Indeno[1,2,3-cd]pyrene	**1400**		380	47	ug/Kg	☼	07/12/19 12:55	07/15/19 15:10	50
Naphthalene	**250**		230	47	ug/Kg	☼	07/12/19 12:55	07/15/19 15:10	50
N-Nitrosodiphenylamine	ND		560	75	ug/Kg	☼	07/12/19 12:55	07/15/19 15:10	50
Pentachlorophenol	ND		4200	1200	ug/Kg	☼	07/12/19 12:55	07/15/19 15:10	50
Phenanthrene	**4600**		560	110	ug/Kg	☼	07/12/19 12:55	07/15/19 15:10	50
Phenol	**790**	**J**	1400	220	ug/Kg	☼	07/12/19 12:55	07/15/19 15:10	50
Pyrene	**5700**		560	60	ug/Kg	☼	07/12/19 12:55	07/15/19 15:10	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*334*	*X*	*52 - 125*	*07/12/19 12:55*	*07/15/19 15:10*	*50*
2-Fluorobiphenyl	*69*		*57 - 120*	*07/12/19 12:55*	*07/15/19 15:10*	*50*
2-Fluorophenol	*55*	*X*	*60 - 125*	*07/12/19 12:55*	*07/15/19 15:10*	*50*
Nitrobenzene-d5	*60*	*X*	*62 - 120*	*07/12/19 12:55*	*07/15/19 15:10*	*50*
Phenol-d5	*72*		*59 - 120*	*07/12/19 12:55*	*07/15/19 15:10*	*50*
Terphenyl-d14	*99*		*58 - 120*	*07/12/19 12:55*	*07/15/19 15:10*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0039	0.0015	mg/Kg	☼	07/12/19 14:19	07/17/19 21:57	1
PCB-1221	ND		0.0039	0.0019	mg/Kg	☼	07/12/19 14:19	07/17/19 21:57	1

Client Sample ID: BH2-22-S
Lab Sample ID: 580-87377-10
Date Collected: 07/01/19 15:14
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 47.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		0.0039	0.0019	mg/Kg	☼	07/12/19 14:19	07/17/19 21:57	1
PCB-1242	ND		0.0039	0.00096	mg/Kg	☼	07/12/19 14:19	07/17/19 21:57	1
PCB-1248	ND		0.0039	0.00071	mg/Kg	☼	07/12/19 14:19	07/17/19 21:57	1
PCB-1254	**0.0024**	**J p**	0.0039	0.0016	mg/Kg	☼	07/12/19 14:19	07/17/19 21:57	1
PCB-1260	ND		0.0039	0.0015	mg/Kg	☼	07/12/19 14:19	07/17/19 21:57	1
Polychlorinated biphenyls, Total	**0.0024**	**J**	0.0039	0.0014	mg/Kg	☼	07/12/19 14:19	07/17/19 21:57	1
PCB-1262	ND		0.0039	0.00093	mg/Kg	☼	07/12/19 14:19	07/17/19 21:57	1
PCB-1268	ND		0.0039	0.00096	mg/Kg	☼	07/12/19 14:19	07/17/19 21:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*63*		*39 - 142*	*07/12/19 14:19*	*07/17/19 21:57*	*1*
Tetrachloro-m-xylene	*68*		*35 - 129*	*07/12/19 14:19*	*07/17/19 21:57*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**18**	**B**	0.37	0.075	mg/Kg	☼	07/09/19 12:48	07/15/19 23:40	5
Cadmium	**1.8**		0.30	0.058	mg/Kg	☼	07/09/19 12:48	07/15/19 23:40	5
Chromium	**20**	**B**	0.37	0.047	mg/Kg	☼	07/09/19 12:48	07/15/19 23:40	5
Copper	**170**		0.75	0.16	mg/Kg	☼	07/09/19 12:48	07/15/19 23:40	5
Lead	**500**	**B**	0.37	0.036	mg/Kg	☼	07/09/19 12:48	07/15/19 23:40	5
Nickel	**16**		0.37	0.14	mg/Kg	☼	07/09/19 12:48	07/15/19 23:40	5
Selenium	**1.2**		0.75	0.21	mg/Kg	☼	07/09/19 12:48	07/15/19 23:40	5
Silver	**0.20**		0.15	0.015	mg/Kg	☼	07/09/19 12:48	07/15/19 23:40	5
Zinc	**210**		3.7	1.2	mg/Kg	☼	07/09/19 12:48	07/15/19 23:40	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.62**		0.051	0.015	mg/Kg	☼	07/12/19 10:09	07/12/19 16:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	**71000**		2000	44	mg/Kg			07/15/19 18:13	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**47.6**		0.1	0.1	%			07/09/19 09:24	1
Percent Moisture	**52.4**		0.1	0.1	%			07/09/19 09:24	1
Total Solids	**47.6**		0.1	0.1	%			07/09/19 09:24	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		230	18	mg/Kg	☼		07/08/19 11:00	1

Method: PSEP Plumb 1981 - Grain Size (PSEP Plumb 1981)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Clay	**4.0**				%			07/09/19 16:07	1
Sand	**64**				%			07/09/19 16:07	1
Silt	**32**				%			07/09/19 16:07	1
Gravel	**0.20**				%			07/09/19 16:07	1
Cobbles	**0.00**				%			07/09/19 16:07	1

Client Sample ID: BH2-18-S
Date Collected: 07/01/19 15:27
Date Received: 07/03/19 08:15

Lab Sample ID: 580-87377-11
Matrix: Solid
Percent Solids: 48.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		490	59	ug/Kg	☼	07/12/19 12:55	07/15/19 20:16	50
1,2-Dichlorobenzene	ND		490	120	ug/Kg	☼	07/12/19 12:55	07/15/19 20:16	50
1,4-Dichlorobenzene	ND		490	81	ug/Kg	☼	07/12/19 12:55	07/15/19 20:16	50
2,4-Dimethylphenol	ND		980	150	ug/Kg	☼	07/12/19 12:55	07/15/19 20:16	50
2-Methylnaphthalene	**95**	**J**	490	86	ug/Kg	☼	07/12/19 12:55	07/15/19 20:16	50
2-Methylphenol	ND		1500	96	ug/Kg	☼	07/12/19 12:55	07/15/19 20:16	50
3 & 4 Methylphenol	ND		2000	150	ug/Kg	☼	07/12/19 12:55	07/15/19 20:16	50
Acenaphthene	**310**		250	49	ug/Kg	☼	07/12/19 12:55	07/15/19 20:16	50
Acenaphthylene	**110**	**J**	250	49	ug/Kg	☼	07/12/19 12:55	07/15/19 20:16	50
Anthracene	**600**		250	49	ug/Kg	☼	07/12/19 12:55	07/15/19 20:16	50
Benzo[a]anthracene	**1300**		250	49	ug/Kg	☼	07/12/19 12:55	07/15/19 20:16	50
Benzo[a]pyrene	**1100**		590	130	ug/Kg	☼	07/12/19 12:55	07/15/19 20:16	50
Benzo[g,h,i]perylene	**550**	**J**	590	88	ug/Kg	☼	07/12/19 12:55	07/15/19 20:16	50
Benzofluoranthene	**600**	**J**	1500	140	ug/Kg	☼	07/12/19 12:55	07/15/19 20:16	50
Benzoic acid	ND		20000	5700	ug/Kg	☼	07/12/19 12:55	07/15/19 20:16	50
Benzyl alcohol	ND		4900	760	ug/Kg	☼	07/12/19 12:55	07/15/19 20:16	50
Bis(2-ethylhexyl) phthalate	ND		5900	700	ug/Kg	☼	07/12/19 12:55	07/15/19 20:16	50
Butyl benzyl phthalate	**510**	**J B**	2000	500	ug/Kg	☼	07/12/19 12:55	07/15/19 20:16	50
Carbazole	ND	*	1500	80	ug/Kg	☼	07/12/19 12:55	07/15/19 20:16	50
Chrysene	**1400**		590	130	ug/Kg	☼	07/12/19 12:55	07/15/19 20:16	50
Dibenz(a,h)anthracene	**170**	**J**	490	120	ug/Kg	☼	07/12/19 12:55	07/15/19 20:16	50
Dibenzofuran	**120**	**J**	1500	58	ug/Kg	☼	07/12/19 12:55	07/15/19 20:16	50
Diethyl phthalate	ND		15000	750	ug/Kg	☼	07/12/19 12:55	07/15/19 20:16	50
Dimethyl phthalate	ND		1500	130	ug/Kg	☼	07/12/19 12:55	07/15/19 20:16	50
Di-n-butyl phthalate	ND		4900	560	ug/Kg	☼	07/12/19 12:55	07/15/19 20:16	50
Di-n-octyl phthalate	ND		1500	560	ug/Kg	☼	07/12/19 12:55	07/15/19 20:16	50
Fluoranthene	**3100**		250	49	ug/Kg	☼	07/12/19 12:55	07/15/19 20:16	50
Fluorene	**300**		250	49	ug/Kg	☼	07/12/19 12:55	07/15/19 20:16	50
Hexachlorobenzene	ND		490	150	ug/Kg	☼	07/12/19 12:55	07/15/19 20:16	50
Hexachlorobutadiene	ND		490	150	ug/Kg	☼	07/12/19 12:55	07/15/19 20:16	50
Indeno[1,2,3-cd]pyrene	**740**		390	49	ug/Kg	☼	07/12/19 12:55	07/15/19 20:16	50
Naphthalene	**210**	**J**	250	49	ug/Kg	☼	07/12/19 12:55	07/15/19 20:16	50
N-Nitrosodiphenylamine	ND		590	79	ug/Kg	☼	07/12/19 12:55	07/15/19 20:16	50
Pentachlorophenol	ND		4400	1300	ug/Kg	☼	07/12/19 12:55	07/15/19 20:16	50
Phenanthrene	**2700**		590	120	ug/Kg	☼	07/12/19 12:55	07/15/19 20:16	50
Phenol	ND		1500	230	ug/Kg	☼	07/12/19 12:55	07/15/19 20:16	50
Pyrene	**3600**		590	63	ug/Kg	☼	07/12/19 12:55	07/15/19 20:16	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*381*	*X*	*52 - 125*	*07/12/19 12:55*	*07/15/19 20:16*	*50*
2-Fluorobiphenyl	*85*		*57 - 120*	*07/12/19 12:55*	*07/15/19 20:16*	*50*
2-Fluorophenol	*86*		*60 - 125*	*07/12/19 12:55*	*07/15/19 20:16*	*50*
Nitrobenzene-d5	*114*		*62 - 120*	*07/12/19 12:55*	*07/15/19 20:16*	*50*
Phenol-d5	*89*		*59 - 120*	*07/12/19 12:55*	*07/15/19 20:16*	*50*
Terphenyl-d14	*99*		*58 - 120*	*07/12/19 12:55*	*07/15/19 20:16*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0037	0.0014	mg/Kg	☼	07/12/19 14:19	07/17/19 22:15	1
PCB-1221	ND		0.0037	0.0017	mg/Kg	☼	07/12/19 14:19	07/17/19 22:15	1

Client Sample ID: BH2-18-S **Lab Sample ID: 580-87377-11**
Date Collected: 07/01/19 15:27 **Matrix: Solid**
Date Received: 07/03/19 08:15 **Percent Solids: 48.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		0.0037	0.0017	mg/Kg	☼	07/12/19 14:19	07/17/19 22:15	1
PCB-1242	ND		0.0037	0.00090	mg/Kg	☼	07/12/19 14:19	07/17/19 22:15	1
PCB-1248	ND		0.0037	0.00066	mg/Kg	☼	07/12/19 14:19	07/17/19 22:15	1
PCB-1254	ND		0.0037	0.0014	mg/Kg	☼	07/12/19 14:19	07/17/19 22:15	1
PCB-1260	ND		0.0037	0.0014	mg/Kg	☼	07/12/19 14:19	07/17/19 22:15	1
Polychlorinated biphenyls, Total	ND		0.0037	0.0013	mg/Kg	☼	07/12/19 14:19	07/17/19 22:15	1
PCB-1262	ND		0.0037	0.00086	mg/Kg	☼	07/12/19 14:19	07/17/19 22:15	1
PCB-1268	ND		0.0037	0.00090	mg/Kg	☼	07/12/19 14:19	07/17/19 22:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*57*		*39 - 142*	*07/12/19 14:19*	*07/17/19 22:15*	*1*
Tetrachloro-m-xylene	*60*		*35 - 129*	*07/12/19 14:19*	*07/17/19 22:15*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**14**	**B**	0.37	0.074	mg/Kg	☼	07/09/19 12:48	07/15/19 23:44	5
Cadmium	**1.4**		0.30	0.057	mg/Kg	☼	07/09/19 12:48	07/15/19 23:44	5
Chromium	**21**	**B**	0.37	0.046	mg/Kg	☼	07/09/19 12:48	07/15/19 23:44	5
Copper	**140**		0.74	0.16	mg/Kg	☼	07/09/19 12:48	07/15/19 23:44	5
Lead	**140**	**B**	0.37	0.035	mg/Kg	☼	07/09/19 12:48	07/15/19 23:44	5
Nickel	**18**		0.37	0.14	mg/Kg	☼	07/09/19 12:48	07/15/19 23:44	5
Selenium	**1.0**		0.74	0.21	mg/Kg	☼	07/09/19 12:48	07/15/19 23:44	5
Silver	**0.24**		0.15	0.015	mg/Kg	☼	07/09/19 12:48	07/15/19 23:44	5
Zinc	**110**		3.7	1.2	mg/Kg	☼	07/09/19 12:48	07/15/19 23:44	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.38**		0.048	0.014	mg/Kg	☼	07/12/19 10:09	07/12/19 16:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	**47000**		2000	44	mg/Kg			07/15/19 18:18	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**48.1**		0.1	0.1	%			07/09/19 09:24	1
Percent Moisture	**51.9**		0.1	0.1	%			07/09/19 09:24	1
Total Solids	**48.1**		0.1	0.1	%			07/09/19 09:24	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		220	18	mg/Kg	☼		07/08/19 11:00	1

Method: PSEP Plumb 1981 - Grain Size (PSEP Plumb 1981)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Clay	**5.1**				%			07/09/19 16:07	1
Sand	**66**				%			07/09/19 16:07	1
Silt	**28**				%			07/09/19 16:07	1
Gravel	**1.1**				%			07/09/19 16:07	1
Cobbles	**0.00**				%			07/09/19 16:07	1

Client: Leidos, Inc.
Job ID: 580-87377-1
Project/Site: 2019 Blakely Harbor Sediment Inv.

Client Sample ID: BH2-18-D
Lab Sample ID: 580-87377-12
Date Collected: 07/01/19 15:27
Matrix: Solid
Date Received: 07/03/19 08:15

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	45.5		0.1	0.1	%			07/19/19 11:38	1
Percent Solids	54.5		0.1	0.1	%			07/19/19 11:38	1

Client Sample ID: BH2-17-S
Date Collected: 07/01/19 15:44
Date Received: 07/03/19 08:15

Lab Sample ID: 580-87377-13
Matrix: Solid
Percent Solids: 33.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		240	29	ug/Kg	☼	07/12/19 12:55	07/15/19 15:34	20
1,2-Dichlorobenzene	ND		240	59	ug/Kg	☼	07/12/19 12:55	07/15/19 15:34	20
1,4-Dichlorobenzene	ND		240	41	ug/Kg	☼	07/12/19 12:55	07/15/19 15:34	20
2,4-Dimethylphenol	ND		490	73	ug/Kg	☼	07/12/19 12:55	07/15/19 15:34	20
2-Methylnaphthalene	**64**	**J**	240	43	ug/Kg	☼	07/12/19 12:55	07/15/19 15:34	20
2-Methylphenol	ND		730	48	ug/Kg	☼	07/12/19 12:55	07/15/19 15:34	20
3 & 4 Methylphenol	**700**	**J**	980	73	ug/Kg	☼	07/12/19 12:55	07/15/19 15:34	20
Acenaphthene	**260**		120	24	ug/Kg	☼	07/12/19 12:55	07/15/19 15:34	20
Acenaphthylene	**130**		120	24	ug/Kg	☼	07/12/19 12:55	07/15/19 15:34	20
Anthracene	**620**		120	24	ug/Kg	☼	07/12/19 12:55	07/15/19 15:34	20
Benzo[a]anthracene	**1400**		120	24	ug/Kg	☼	07/12/19 12:55	07/15/19 15:34	20
Benzo[a]pyrene	**1200**		290	64	ug/Kg	☼	07/12/19 12:55	07/15/19 15:34	20
Benzo[g,h,i]perylene	**630**		290	44	ug/Kg	☼	07/12/19 12:55	07/15/19 15:34	20
Benzofluoranthene	**540**	**J**	730	69	ug/Kg	☼	07/12/19 12:55	07/15/19 15:34	20
Benzoic acid	ND		9800	2800	ug/Kg	☼	07/12/19 12:55	07/15/19 15:34	20
Benzyl alcohol	ND		2400	380	ug/Kg	☼	07/12/19 12:55	07/15/19 15:34	20
Bis(2-ethylhexyl) phthalate	ND		2900	350	ug/Kg	☼	07/12/19 12:55	07/15/19 15:34	20
Butyl benzyl phthalate	**290**	**J B**	980	250	ug/Kg	☼	07/12/19 12:55	07/15/19 15:34	20
Carbazole	ND	*	730	40	ug/Kg	☼	07/12/19 12:55	07/15/19 15:34	20
Chrysene	**1500**		290	64	ug/Kg	☼	07/12/19 12:55	07/15/19 15:34	20
Dibenz(a,h)anthracene	**130**	**J**	240	59	ug/Kg	☼	07/12/19 12:55	07/15/19 15:34	20
Dibenzofuran	**94**	**J**	730	29	ug/Kg	☼	07/12/19 12:55	07/15/19 15:34	20
Diethyl phthalate	ND		7300	370	ug/Kg	☼	07/12/19 12:55	07/15/19 15:34	20
Dimethyl phthalate	ND		730	64	ug/Kg	☼	07/12/19 12:55	07/15/19 15:34	20
Di-n-butyl phthalate	ND		2400	280	ug/Kg	☼	07/12/19 12:55	07/15/19 15:34	20
Di-n-octyl phthalate	**320**	**J**	730	280	ug/Kg	☼	07/12/19 12:55	07/15/19 15:34	20
Fluoranthene	**2500**		120	24	ug/Kg	☼	07/12/19 12:55	07/15/19 15:34	20
Fluorene	**270**		120	24	ug/Kg	☼	07/12/19 12:55	07/15/19 15:34	20
Hexachlorobenzene	ND		240	73	ug/Kg	☼	07/12/19 12:55	07/15/19 15:34	20
Hexachlorobutadiene	ND		240	73	ug/Kg	☼	07/12/19 12:55	07/15/19 15:34	20
Indeno[1,2,3-cd]pyrene	**750**		200	24	ug/Kg	☼	07/12/19 12:55	07/15/19 15:34	20
Naphthalene	**170**		120	24	ug/Kg	☼	07/12/19 12:55	07/15/19 15:34	20
N-Nitrosodiphenylamine	ND		290	39	ug/Kg	☼	07/12/19 12:55	07/15/19 15:34	20
Pentachlorophenol	ND		2200	650	ug/Kg	☼	07/12/19 12:55	07/15/19 15:34	20
Phenanthrene	**2100**		290	59	ug/Kg	☼	07/12/19 12:55	07/15/19 15:34	20
Phenol	**1000**		730	110	ug/Kg	☼	07/12/19 12:55	07/15/19 15:34	20
Pyrene	**3100**		290	31	ug/Kg	☼	07/12/19 12:55	07/15/19 15:34	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*217*	*X*	*52 - 125*	*07/12/19 12:55*	*07/15/19 15:34*	*20*
2-Fluorobiphenyl	*64*		*57 - 120*	*07/12/19 12:55*	*07/15/19 15:34*	*20*
2-Fluorophenol	*71*		*60 - 125*	*07/12/19 12:55*	*07/15/19 15:34*	*20*
Nitrobenzene-d5	*66*		*62 - 120*	*07/12/19 12:55*	*07/15/19 15:34*	*20*
Phenol-d5	*71*		*59 - 120*	*07/12/19 12:55*	*07/15/19 15:34*	*20*
Terphenyl-d14	*102*		*58 - 120*	*07/12/19 12:55*	*07/15/19 15:34*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0053	0.0020	mg/Kg	☼	07/12/19 14:19	07/18/19 00:41	1
PCB-1221	ND		0.0053	0.0025	mg/Kg	☼	07/12/19 14:19	07/18/19 00:41	1

Client Sample ID: BH2-17-S
Lab Sample ID: 580-87377-13
Date Collected: 07/01/19 15:44
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 33.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		0.0053	0.0025	mg/Kg	☼	07/12/19 14:19	07/18/19 00:41	1
PCB-1242	ND		0.0053	0.0013	mg/Kg	☼	07/12/19 14:19	07/18/19 00:41	1
PCB-1248	ND		0.0053	0.00095	mg/Kg	☼	07/12/19 14:19	07/18/19 00:41	1
PCB-1254	**0.0062**		0.0053	0.0021	mg/Kg	☼	07/12/19 14:19	07/18/19 00:41	1
PCB-1260	ND		0.0053	0.0020	mg/Kg	☼	07/12/19 14:19	07/18/19 00:41	1
Polychlorinated biphenyls, Total	**0.0062**		0.0053	0.0019	mg/Kg	☼	07/12/19 14:19	07/18/19 00:41	1
PCB-1262	ND		0.0053	0.0012	mg/Kg	☼	07/12/19 14:19	07/18/19 00:41	1
PCB-1268	ND		0.0053	0.0013	mg/Kg	☼	07/12/19 14:19	07/18/19 00:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*125*		*39 - 142*	*07/12/19 14:19*	*07/18/19 00:41*	*1*
Tetrachloro-m-xylene	*117*		*35 - 129*	*07/12/19 14:19*	*07/18/19 00:41*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**17**	**B**	0.54	0.11	mg/Kg	☼	07/09/19 12:48	07/15/19 23:48	5
Cadmium	**2.5**		0.43	0.083	mg/Kg	☼	07/09/19 12:48	07/15/19 23:48	5
Chromium	**21**	**B**	0.54	0.068	mg/Kg	☼	07/09/19 12:48	07/15/19 23:48	5
Copper	**64**		1.1	0.24	mg/Kg	☼	07/09/19 12:48	07/15/19 23:48	5
Lead	**140**	**B**	0.54	0.052	mg/Kg	☼	07/09/19 12:48	07/15/19 23:48	5
Nickel	**16**		0.54	0.21	mg/Kg	☼	07/09/19 12:48	07/15/19 23:48	5
Selenium	**1.5**		1.1	0.31	mg/Kg	☼	07/09/19 12:48	07/15/19 23:48	5
Silver	**0.23**		0.22	0.022	mg/Kg	☼	07/09/19 12:48	07/15/19 23:48	5
Zinc	**460**		5.4	1.7	mg/Kg	☼	07/09/19 12:48	07/15/19 23:48	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.23**		0.086	0.026	mg/Kg	☼	07/12/19 10:09	07/12/19 16:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	**130000**		2000	44	mg/Kg			07/18/19 12:22	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**33.1**		0.1	0.1	%			07/09/19 09:24	1
Percent Moisture	**66.9**		0.1	0.1	%			07/09/19 09:24	1
Total Solids	**33.1**		0.1	0.1	%			07/09/19 09:24	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		330	27	mg/Kg	☼		07/08/19 11:00	1

Method: PSEP Plumb 1981 - Grain Size (PSEP Plumb 1981)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Clay	**7.3**				%			07/09/19 16:07	1
Sand	**42**				%			07/09/19 16:07	1
Silt	**37**				%			07/09/19 16:07	1
Gravel	**14**				%			07/09/19 16:07	1
Cobbles	**0.00**				%			07/09/19 16:07	1

Client Sample ID: BH2-14-S
Date Collected: 07/01/19 15:57
Date Received: 07/03/19 08:15

Lab Sample ID: 580-87377-14
Matrix: Solid
Percent Solids: 40.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		230	28	ug/Kg	☼	07/12/19 12:55	07/15/19 15:57	20
1,2-Dichlorobenzene	ND		230	55	ug/Kg	☼	07/12/19 12:55	07/15/19 15:57	20
1,4-Dichlorobenzene	ND		230	38	ug/Kg	☼	07/12/19 12:55	07/15/19 15:57	20
2,4-Dimethylphenol	ND		460	69	ug/Kg	☼	07/12/19 12:55	07/15/19 15:57	20
2-Methylnaphthalene	**100**	**J**	230	41	ug/Kg	☼	07/12/19 12:55	07/15/19 15:57	20
2-Methylphenol	ND		690	45	ug/Kg	☼	07/12/19 12:55	07/15/19 15:57	20
3 & 4 Methylphenol	**620**	**J**	920	69	ug/Kg	☼	07/12/19 12:55	07/15/19 15:57	20
Acenaphthene	**370**		120	23	ug/Kg	☼	07/12/19 12:55	07/15/19 15:57	20
Acenaphthylene	**120**		120	23	ug/Kg	☼	07/12/19 12:55	07/15/19 15:57	20
Anthracene	**880**		120	23	ug/Kg	☼	07/12/19 12:55	07/15/19 15:57	20
Benzo[a]anthracene	**1700**		120	23	ug/Kg	☼	07/12/19 12:55	07/15/19 15:57	20
Benzo[a]pyrene	**1500**		280	60	ug/Kg	☼	07/12/19 12:55	07/15/19 15:57	20
Benzo[g,h,i]perylene	**810**		280	41	ug/Kg	☼	07/12/19 12:55	07/15/19 15:57	20
Benzofluoranthene	**590**	**J**	690	64	ug/Kg	☼	07/12/19 12:55	07/15/19 15:57	20
Benzoic acid	ND		9200	2700	ug/Kg	☼	07/12/19 12:55	07/15/19 15:57	20
Benzyl alcohol	ND		2300	350	ug/Kg	☼	07/12/19 12:55	07/15/19 15:57	20
Bis(2-ethylhexyl) phthalate	**600**	**J B**	2800	330	ug/Kg	☼	07/12/19 12:55	07/15/19 15:57	20
Butyl benzyl phthalate	**230**	**J B**	920	230	ug/Kg	☼	07/12/19 12:55	07/15/19 15:57	20
Carbazole	**46**	**J ***	690	38	ug/Kg	☼	07/12/19 12:55	07/15/19 15:57	20
Chrysene	**1700**		280	60	ug/Kg	☼	07/12/19 12:55	07/15/19 15:57	20
Dibenz(a,h)anthracene	**180**	**J**	230	55	ug/Kg	☼	07/12/19 12:55	07/15/19 15:57	20
Dibenzofuran	**150**	**J**	690	27	ug/Kg	☼	07/12/19 12:55	07/15/19 15:57	20
Diethyl phthalate	ND		6900	350	ug/Kg	☼	07/12/19 12:55	07/15/19 15:57	20
Dimethyl phthalate	ND		690	60	ug/Kg	☼	07/12/19 12:55	07/15/19 15:57	20
Di-n-butyl phthalate	ND		2300	260	ug/Kg	☼	07/12/19 12:55	07/15/19 15:57	20
Di-n-octyl phthalate	ND		690	260	ug/Kg	☼	07/12/19 12:55	07/15/19 15:57	20
Fluoranthene	**3900**		120	23	ug/Kg	☼	07/12/19 12:55	07/15/19 15:57	20
Fluorene	**430**		120	23	ug/Kg	☼	07/12/19 12:55	07/15/19 15:57	20
Hexachlorobenzene	ND		230	69	ug/Kg	☼	07/12/19 12:55	07/15/19 15:57	20
Hexachlorobutadiene	ND		230	69	ug/Kg	☼	07/12/19 12:55	07/15/19 15:57	20
Indeno[1,2,3-cd]pyrene	**870**		180	23	ug/Kg	☼	07/12/19 12:55	07/15/19 15:57	20
Naphthalene	**220**		120	23	ug/Kg	☼	07/12/19 12:55	07/15/19 15:57	20
N-Nitrosodiphenylamine	ND		280	37	ug/Kg	☼	07/12/19 12:55	07/15/19 15:57	20
Pentachlorophenol	ND		2100	610	ug/Kg	☼	07/12/19 12:55	07/15/19 15:57	20
Phenanthrene	**3500**		280	55	ug/Kg	☼	07/12/19 12:55	07/15/19 15:57	20
Phenol	**660**	**J**	690	110	ug/Kg	☼	07/12/19 12:55	07/15/19 15:57	20
Pyrene	**4400**		280	29	ug/Kg	☼	07/12/19 12:55	07/15/19 15:57	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*191*	*X*	*52 - 125*	*07/12/19 12:55*	*07/15/19 15:57*	*20*
2-Fluorobiphenyl	*54*	*X*	*57 - 120*	*07/12/19 12:55*	*07/15/19 15:57*	*20*
2-Fluorophenol	*71*		*60 - 125*	*07/12/19 12:55*	*07/15/19 15:57*	*20*
Nitrobenzene-d5	*61*	*X*	*62 - 120*	*07/12/19 12:55*	*07/15/19 15:57*	*20*
Phenol-d5	*73*		*59 - 120*	*07/12/19 12:55*	*07/15/19 15:57*	*20*
Terphenyl-d14	*103*		*58 - 120*	*07/12/19 12:55*	*07/15/19 15:57*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0048	0.0018	mg/Kg	☼	07/12/19 14:19	07/18/19 00:59	1
PCB-1221	ND		0.0048	0.0023	mg/Kg	☼	07/12/19 14:19	07/18/19 00:59	1

Client Sample ID: BH2-14-S
Lab Sample ID: 580-87377-14
Date Collected: 07/01/19 15:57
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 40.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		0.0048	0.0023	mg/Kg	☼	07/12/19 14:19	07/18/19 00:59	1
PCB-1242	ND		0.0048	0.0012	mg/Kg	☼	07/12/19 14:19	07/18/19 00:59	1
PCB-1248	ND		0.0048	0.00086	mg/Kg	☼	07/12/19 14:19	07/18/19 00:59	1
PCB-1254	**0.0034**	**J**	0.0048	0.0019	mg/Kg	☼	07/12/19 14:19	07/18/19 00:59	1
PCB-1260	ND		0.0048	0.0018	mg/Kg	☼	07/12/19 14:19	07/18/19 00:59	1
Polychlorinated biphenyls, Total	**0.0034**	**J**	0.0048	0.0017	mg/Kg	☼	07/12/19 14:19	07/18/19 00:59	1
PCB-1262	ND		0.0048	0.0011	mg/Kg	☼	07/12/19 14:19	07/18/19 00:59	1
PCB-1268	ND		0.0048	0.0012	mg/Kg	☼	07/12/19 14:19	07/18/19 00:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*58*		*39 - 142*	*07/12/19 14:19*	*07/18/19 00:59*	*1*
Tetrachloro-m-xylene	*54*		*35 - 129*	*07/12/19 14:19*	*07/18/19 00:59*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**15**	**B**	0.42	0.085	mg/Kg	☼	07/09/19 12:48	07/15/19 23:53	5
Cadmium	**1.7**		0.34	0.065	mg/Kg	☼	07/09/19 12:48	07/15/19 23:53	5
Chromium	**18**	**B**	0.42	0.054	mg/Kg	☼	07/09/19 12:48	07/15/19 23:53	5
Copper	**47**		0.85	0.19	mg/Kg	☼	07/09/19 12:48	07/15/19 23:53	5
Lead	**87**	**B**	0.42	0.041	mg/Kg	☼	07/09/19 12:48	07/15/19 23:53	5
Nickel	**15**		0.42	0.16	mg/Kg	☼	07/09/19 12:48	07/15/19 23:53	5
Selenium	**1.2**		0.85	0.24	mg/Kg	☼	07/09/19 12:48	07/15/19 23:53	5
Silver	**0.17**		0.17	0.017	mg/Kg	☼	07/09/19 12:48	07/15/19 23:53	5
Zinc	**100**		4.2	1.4	mg/Kg	☼	07/09/19 12:48	07/15/19 23:53	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.12**		0.066	0.020	mg/Kg	☼	07/12/19 10:09	07/12/19 16:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	**84000**		2000	44	mg/Kg			07/15/19 18:33	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**40.5**		0.1	0.1	%			07/09/19 09:26	1
Percent Moisture	**59.5**		0.1	0.1	%			07/09/19 09:26	1
Total Solids	**40.5**		0.1	0.1	%			07/09/19 09:26	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		290	24	mg/Kg	☼		07/08/19 11:00	1

Method: PSEP Plumb 1981 - Grain Size (PSEP Plumb 1981)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Clay	**5.6**				%			07/09/19 16:07	1
Sand	**50**				%			07/09/19 16:07	1
Silt	**38**				%			07/09/19 16:07	1
Gravel	**7.1**				%			07/09/19 16:07	1
Cobbles	**0.00**				%			07/09/19 16:07	1

Client Sample ID: BH2-07-S **Lab Sample ID: 580-87377-15**
Date Collected: 07/01/19 16:40 **Matrix: Solid**
Date Received: 07/03/19 08:15 **Percent Solids: 35.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		670	80	ug/Kg	☼	07/12/19 12:55	07/15/19 16:20	50
1,2-Dichlorobenzene	ND		670	160	ug/Kg	☼	07/12/19 12:55	07/15/19 16:20	50
1,4-Dichlorobenzene	ND		670	110	ug/Kg	☼	07/12/19 12:55	07/15/19 16:20	50
2,4-Dimethylphenol	ND		1300	200	ug/Kg	☼	07/12/19 12:55	07/15/19 16:20	50
2-Methylnaphthalene	**130**	**J**	670	120	ug/Kg	☼	07/12/19 12:55	07/15/19 16:20	50
2-Methylphenol	ND		2000	130	ug/Kg	☼	07/12/19 12:55	07/15/19 16:20	50
3 & 4 Methylphenol	**840**	**J**	2700	200	ug/Kg	☼	07/12/19 12:55	07/15/19 16:20	50
Acenaphthene	**570**		330	67	ug/Kg	☼	07/12/19 12:55	07/15/19 16:20	50
Acenaphthylene	ND		330	67	ug/Kg	☼	07/12/19 12:55	07/15/19 16:20	50
Anthracene	**910**		330	67	ug/Kg	☼	07/12/19 12:55	07/15/19 16:20	50
Benzo[a]anthracene	**1100**		330	67	ug/Kg	☼	07/12/19 12:55	07/15/19 16:20	50
Benzo[a]pyrene	**860**		800	170	ug/Kg	☼	07/12/19 12:55	07/15/19 16:20	50
Benzo[g,h,i]perylene	**540**	**J**	800	120	ug/Kg	☼	07/12/19 12:55	07/15/19 16:20	50
Benzofluoranthene	**420**	**J**	2000	190	ug/Kg	☼	07/12/19 12:55	07/15/19 16:20	50
Benzoic acid	ND		27000	7700	ug/Kg	☼	07/12/19 12:55	07/15/19 16:20	50
Benzyl alcohol	ND		6700	1000	ug/Kg	☼	07/12/19 12:55	07/15/19 16:20	50
Bis(2-ethylhexyl) phthalate	ND		8000	950	ug/Kg	☼	07/12/19 12:55	07/15/19 16:20	50
Butyl benzyl phthalate	**690**	**J B**	2700	680	ug/Kg	☼	07/12/19 12:55	07/15/19 16:20	50
Carbazole	ND	*	2000	110	ug/Kg	☼	07/12/19 12:55	07/15/19 16:20	50
Chrysene	**1100**		800	170	ug/Kg	☼	07/12/19 12:55	07/15/19 16:20	50
Dibenz(a,h)anthracene	ND		670	160	ug/Kg	☼	07/12/19 12:55	07/15/19 16:20	50
Dibenzofuran	**220**	**J**	2000	79	ug/Kg	☼	07/12/19 12:55	07/15/19 16:20	50
Diethyl phthalate	ND		20000	1000	ug/Kg	☼	07/12/19 12:55	07/15/19 16:20	50
Dimethyl phthalate	ND		2000	170	ug/Kg	☼	07/12/19 12:55	07/15/19 16:20	50
Di-n-butyl phthalate	ND		6700	760	ug/Kg	☼	07/12/19 12:55	07/15/19 16:20	50
Di-n-octyl phthalate	ND		2000	760	ug/Kg	☼	07/12/19 12:55	07/15/19 16:20	50
Fluoranthene	**3000**		330	67	ug/Kg	☼	07/12/19 12:55	07/15/19 16:20	50
Fluorene	**470**		330	67	ug/Kg	☼	07/12/19 12:55	07/15/19 16:20	50
Hexachlorobenzene	ND		670	200	ug/Kg	☼	07/12/19 12:55	07/15/19 16:20	50
Hexachlorobutadiene	ND		670	200	ug/Kg	☼	07/12/19 12:55	07/15/19 16:20	50
Indeno[1,2,3-cd]pyrene	**570**		530	67	ug/Kg	☼	07/12/19 12:55	07/15/19 16:20	50
Naphthalene	**200**	**J**	330	67	ug/Kg	☼	07/12/19 12:55	07/15/19 16:20	50
N-Nitrosodiphenylamine	ND		800	110	ug/Kg	☼	07/12/19 12:55	07/15/19 16:20	50
Pentachlorophenol	ND		6000	1800	ug/Kg	☼	07/12/19 12:55	07/15/19 16:20	50
Phenanthrene	**3500**		800	160	ug/Kg	☼	07/12/19 12:55	07/15/19 16:20	50
Phenol	**1400**	**J**	2000	310	ug/Kg	☼	07/12/19 12:55	07/15/19 16:20	50
Pyrene	**3200**		800	85	ug/Kg	☼	07/12/19 12:55	07/15/19 16:20	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*337*	*X*	*52 - 125*	*07/12/19 12:55*	*07/15/19 16:20*	*50*
2-Fluorobiphenyl	*62*		*57 - 120*	*07/12/19 12:55*	*07/15/19 16:20*	*50*
2-Fluorophenol	*68*		*60 - 125*	*07/12/19 12:55*	*07/15/19 16:20*	*50*
Nitrobenzene-d5	*56*	*X*	*62 - 120*	*07/12/19 12:55*	*07/15/19 16:20*	*50*
Phenol-d5	*67*		*59 - 120*	*07/12/19 12:55*	*07/15/19 16:20*	*50*
Terphenyl-d14	*95*		*58 - 120*	*07/12/19 12:55*	*07/15/19 16:20*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0047	0.0017	mg/Kg	☼	07/12/19 14:19	07/18/19 01:17	1
PCB-1221	ND		0.0047	0.0022	mg/Kg	☼	07/12/19 14:19	07/18/19 01:17	1

Client Sample ID: BH2-07-S
Lab Sample ID: 580-87377-15
Date Collected: 07/01/19 16:40
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 35.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		0.0047	0.0022	mg/Kg	☼	07/12/19 14:19	07/18/19 01:17	1
PCB-1242	ND		0.0047	0.0011	mg/Kg	☼	07/12/19 14:19	07/18/19 01:17	1
PCB-1248	ND		0.0047	0.00084	mg/Kg	☼	07/12/19 14:19	07/18/19 01:17	1
PCB-1254	ND		0.0047	0.0019	mg/Kg	☼	07/12/19 14:19	07/18/19 01:17	1
PCB-1260	ND		0.0047	0.0018	mg/Kg	☼	07/12/19 14:19	07/18/19 01:17	1
Polychlorinated biphenyls, Total	ND		0.0047	0.0017	mg/Kg	☼	07/12/19 14:19	07/18/19 01:17	1
PCB-1262	ND		0.0047	0.0011	mg/Kg	☼	07/12/19 14:19	07/18/19 01:17	1
PCB-1268	ND		0.0047	0.0011	mg/Kg	☼	07/12/19 14:19	07/18/19 01:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*54*		*39 - 142*	*07/12/19 14:19*	*07/18/19 01:17*	*1*
Tetrachloro-m-xylene	*47*		*35 - 129*	*07/12/19 14:19*	*07/18/19 01:17*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**14**	**B**	0.48	0.096	mg/Kg	☼	07/09/19 12:48	07/15/19 23:57	5
Cadmium	**1.2**		0.39	0.074	mg/Kg	☼	07/09/19 12:48	07/15/19 23:57	5
Chromium	**19**	**B**	0.48	0.061	mg/Kg	☼	07/09/19 12:48	07/15/19 23:57	5
Copper	**58**		0.96	0.21	mg/Kg	☼	07/09/19 12:48	07/15/19 23:57	5
Lead	**130**	**B**	0.48	0.046	mg/Kg	☼	07/09/19 12:48	07/15/19 23:57	5
Nickel	**15**		0.48	0.19	mg/Kg	☼	07/09/19 12:48	07/15/19 23:57	5
Selenium	**1.3**		0.96	0.28	mg/Kg	☼	07/09/19 12:48	07/15/19 23:57	5
Silver	**0.21**		0.19	0.019	mg/Kg	☼	07/09/19 12:48	07/15/19 23:57	5
Zinc	**80**		4.8	1.6	mg/Kg	☼	07/09/19 12:48	07/15/19 23:57	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.12**		0.068	0.020	mg/Kg	☼	07/12/19 10:09	07/12/19 16:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	**120000**		2000	44	mg/Kg			07/15/19 18:37	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**35.8**		0.1	0.1	%			07/09/19 09:26	1
Percent Moisture	**64.2**		0.1	0.1	%			07/09/19 09:26	1
Total Solids	**35.8**		0.1	0.1	%			07/09/19 09:26	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**52**	**J B**	320	26	mg/Kg	☼		07/08/19 11:00	1

Method: PSEP Plumb 1981 - Grain Size (PSEP Plumb 1981)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Clay	**7.7**				%			07/09/19 16:07	1
Sand	**58**				%			07/09/19 16:07	1
Silt	**34**				%			07/09/19 16:07	1
Gravel	**0.90**				%			07/09/19 16:07	1
Cobbles	**0.00**				%			07/09/19 16:07	1

Client Sample ID: BH2-03-S **Lab Sample ID: 580-87377-16**
Date Collected: 07/01/19 16:46 **Matrix: Solid**
Date Received: 07/03/19 08:15 **Percent Solids: 34.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		140	17	ug/Kg	☼	07/12/19 12:55	07/15/19 16:44	10
1,2-Dichlorobenzene	ND		140	33	ug/Kg	☼	07/12/19 12:55	07/15/19 16:44	10
1,4-Dichlorobenzene	ND		140	23	ug/Kg	☼	07/12/19 12:55	07/15/19 16:44	10
2,4-Dimethylphenol	ND		280	42	ug/Kg	☼	07/12/19 12:55	07/15/19 16:44	10
2-Methylnaphthalene	**26**	**J**	140	25	ug/Kg	☼	07/12/19 12:55	07/15/19 16:44	10
2-Methylphenol	ND		420	27	ug/Kg	☼	07/12/19 12:55	07/15/19 16:44	10
3 & 4 Methylphenol	**170**	**J**	560	42	ug/Kg	☼	07/12/19 12:55	07/15/19 16:44	10
Acenaphthene	**23**	**J**	70	14	ug/Kg	☼	07/12/19 12:55	07/15/19 16:44	10
Acenaphthylene	**41**	**J**	70	14	ug/Kg	☼	07/12/19 12:55	07/15/19 16:44	10
Anthracene	**45**	**J**	70	14	ug/Kg	☼	07/12/19 12:55	07/15/19 16:44	10
Benzo[a]anthracene	**110**		70	14	ug/Kg	☼	07/12/19 12:55	07/15/19 16:44	10
Benzo[a]pyrene	**110**	**J**	170	36	ug/Kg	☼	07/12/19 12:55	07/15/19 16:44	10
Benzo[g,h,i]perylene	**80**	**J**	170	25	ug/Kg	☼	07/12/19 12:55	07/15/19 16:44	10
Benzofluoranthene	**55**	**J**	420	39	ug/Kg	☼	07/12/19 12:55	07/15/19 16:44	10
Benzoic acid	ND		5600	1600	ug/Kg	☼	07/12/19 12:55	07/15/19 16:44	10
Benzyl alcohol	ND		1400	210	ug/Kg	☼	07/12/19 12:55	07/15/19 16:44	10
Bis(2-ethylhexyl) phthalate	ND		1700	200	ug/Kg	☼	07/12/19 12:55	07/15/19 16:44	10
Butyl benzyl phthalate	**180**	**J B**	560	140	ug/Kg	☼	07/12/19 12:55	07/15/19 16:44	10
Carbazole	ND	*	420	23	ug/Kg	☼	07/12/19 12:55	07/15/19 16:44	10
Chrysene	**120**	**J**	170	36	ug/Kg	☼	07/12/19 12:55	07/15/19 16:44	10
Dibenz(a,h)anthracene	ND		140	33	ug/Kg	☼	07/12/19 12:55	07/15/19 16:44	10
Dibenzofuran	**22**	**J**	420	16	ug/Kg	☼	07/12/19 12:55	07/15/19 16:44	10
Diethyl phthalate	ND		4200	210	ug/Kg	☼	07/12/19 12:55	07/15/19 16:44	10
Dimethyl phthalate	ND		420	36	ug/Kg	☼	07/12/19 12:55	07/15/19 16:44	10
Di-n-butyl phthalate	ND		1400	160	ug/Kg	☼	07/12/19 12:55	07/15/19 16:44	10
Di-n-octyl phthalate	ND		420	160	ug/Kg	☼	07/12/19 12:55	07/15/19 16:44	10
Fluoranthene	**290**		70	14	ug/Kg	☼	07/12/19 12:55	07/15/19 16:44	10
Fluorene	**26**	**J**	70	14	ug/Kg	☼	07/12/19 12:55	07/15/19 16:44	10
Hexachlorobenzene	ND		140	42	ug/Kg	☼	07/12/19 12:55	07/15/19 16:44	10
Hexachlorobutadiene	ND		140	42	ug/Kg	☼	07/12/19 12:55	07/15/19 16:44	10
Indeno[1,2,3-cd]pyrene	**110**		110	14	ug/Kg	☼	07/12/19 12:55	07/15/19 16:44	10
Naphthalene	**380**		70	14	ug/Kg	☼	07/12/19 12:55	07/15/19 16:44	10
N-Nitrosodiphenylamine	ND		170	22	ug/Kg	☼	07/12/19 12:55	07/15/19 16:44	10
Pentachlorophenol	ND		1300	370	ug/Kg	☼	07/12/19 12:55	07/15/19 16:44	10
Phenanthrene	**200**		170	33	ug/Kg	☼	07/12/19 12:55	07/15/19 16:44	10
Phenol	**630**		420	64	ug/Kg	☼	07/12/19 12:55	07/15/19 16:44	10
Pyrene	**310**		170	18	ug/Kg	☼	07/12/19 12:55	07/15/19 16:44	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*202*	*X*	*52 - 125*	*07/12/19 12:55*	*07/15/19 16:44*	*10*
2-Fluorobiphenyl	*42*	*X*	*57 - 120*	*07/12/19 12:55*	*07/15/19 16:44*	*10*
2-Fluorophenol	*85*		*60 - 125*	*07/12/19 12:55*	*07/15/19 16:44*	*10*
Nitrobenzene-d5	*50*	*X*	*62 - 120*	*07/12/19 12:55*	*07/15/19 16:44*	*10*
Phenol-d5	*78*		*59 - 120*	*07/12/19 12:55*	*07/15/19 16:44*	*10*
Terphenyl-d14	*104*		*58 - 120*	*07/12/19 12:55*	*07/15/19 16:44*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0052	0.0019	mg/Kg	☼	07/12/19 14:19	07/18/19 01:35	1
PCB-1221	ND		0.0052	0.0025	mg/Kg	☼	07/12/19 14:19	07/18/19 01:35	1

Client Sample ID: BH2-03-S **Lab Sample ID: 580-87377-16**
Date Collected: 07/01/19 16:46 **Matrix: Solid**
Date Received: 07/03/19 08:15 **Percent Solids: 34.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		0.0052	0.0025	mg/Kg	☼	07/12/19 14:19	07/18/19 01:35	1
PCB-1242	ND		0.0052	0.0013	mg/Kg	☼	07/12/19 14:19	07/18/19 01:35	1
PCB-1248	ND		0.0052	0.00094	mg/Kg	☼	07/12/19 14:19	07/18/19 01:35	1
PCB-1254	ND		0.0052	0.0021	mg/Kg	☼	07/12/19 14:19	07/18/19 01:35	1
PCB-1260	ND		0.0052	0.0020	mg/Kg	☼	07/12/19 14:19	07/18/19 01:35	1
Polychlorinated biphenyls, Total	ND		0.0052	0.0019	mg/Kg	☼	07/12/19 14:19	07/18/19 01:35	1
PCB-1262	ND		0.0052	0.0012	mg/Kg	☼	07/12/19 14:19	07/18/19 01:35	1
PCB-1268	ND		0.0052	0.0013	mg/Kg	☼	07/12/19 14:19	07/18/19 01:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*49*		*39 - 142*	*07/12/19 14:19*	*07/18/19 01:35*	*1*
Tetrachloro-m-xylene	*98*		*35 - 129*	*07/12/19 14:19*	*07/18/19 01:35*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**14**	**B**	0.49	0.097	mg/Kg	☼	07/09/19 12:48	07/16/19 00:10	5
Cadmium	**0.45**		0.39	0.075	mg/Kg	☼	07/09/19 12:48	07/16/19 00:10	5
Chromium	**27**	**B**	0.49	0.061	mg/Kg	☼	07/09/19 12:48	07/16/19 00:10	5
Copper	**63**		0.97	0.21	mg/Kg	☼	07/09/19 12:48	07/16/19 00:10	5
Lead	**110**	**B**	0.49	0.047	mg/Kg	☼	07/09/19 12:48	07/16/19 00:10	5
Nickel	**18**		0.49	0.19	mg/Kg	☼	07/09/19 12:48	07/16/19 00:10	5
Selenium	**1.3**		0.97	0.28	mg/Kg	☼	07/09/19 12:48	07/16/19 00:10	5
Silver	**0.25**		0.19	0.019	mg/Kg	☼	07/09/19 12:48	07/16/19 00:10	5
Zinc	**77**		4.9	1.6	mg/Kg	☼	07/09/19 12:48	07/16/19 00:10	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.22**		0.074	0.022	mg/Kg	☼	07/12/19 10:09	07/12/19 16:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	**170000**		2000	44	mg/Kg			07/15/19 18:47	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**34.1**		0.1	0.1	%			07/09/19 09:26	1
Percent Moisture	**65.9**		0.1	0.1	%			07/09/19 09:26	1
Total Solids	**34.1**		0.1	0.1	%			07/09/19 09:26	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		350	28	mg/Kg	☼		07/08/19 11:00	1

Method: PSEP Plumb 1981 - Grain Size (PSEP Plumb 1981)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Clay	**8.4**				%			07/09/19 16:28	1
Sand	**32**				%			07/09/19 16:28	1
Silt	**59**				%			07/09/19 16:28	1
Gravel	**0.80**				%			07/09/19 16:28	1
Cobbles	**0.00**				%			07/09/19 16:28	1

Client Sample ID: BH2-02-S
Lab Sample ID: 580-87377-17
Date Collected: 07/01/19 17:10
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 45.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	F1	110	13	ug/Kg	☼	07/12/19 12:55	07/15/19 17:07	10
1,2-Dichlorobenzene	ND	F1	110	26	ug/Kg	☼	07/12/19 12:55	07/15/19 17:07	10
1,4-Dichlorobenzene	ND	F1	110	18	ug/Kg	☼	07/12/19 12:55	07/15/19 17:07	10
2,4-Dimethylphenol	ND		220	33	ug/Kg	☼	07/12/19 12:55	07/15/19 17:07	10
2-Methylnaphthalene	**20**	**J F1**	110	19	ug/Kg	☼	07/12/19 12:55	07/15/19 17:07	10
2-Methylphenol	ND		330	21	ug/Kg	☼	07/12/19 12:55	07/15/19 17:07	10
3 & 4 Methylphenol	**400**	**J F1**	430	33	ug/Kg	☼	07/12/19 12:55	07/15/19 17:07	10
Acenaphthene	**20**	**J**	54	11	ug/Kg	☼	07/12/19 12:55	07/15/19 17:07	10
Acenaphthylene	**37**	**J**	54	11	ug/Kg	☼	07/12/19 12:55	07/15/19 17:07	10
Anthracene	**51**	**J F1**	54	11	ug/Kg	☼	07/12/19 12:55	07/15/19 17:07	10
Benzo[a]anthracene	**130**	**F1 F2**	54	11	ug/Kg	☼	07/12/19 12:55	07/15/19 17:07	10
Benzo[a]pyrene	**100**	**J F1 F2**	130	28	ug/Kg	☼	07/12/19 12:55	07/15/19 17:07	10
Benzo[g,h,i]perylene	**73**	**J F1 F2**	130	20	ug/Kg	☼	07/12/19 12:55	07/15/19 17:07	10
Benzofluoranthene	**150**	**J F1 F2**	330	30	ug/Kg	☼	07/12/19 12:55	07/15/19 17:07	10
Benzoic acid	ND		4300	1300	ug/Kg	☼	07/12/19 12:55	07/15/19 17:07	10
Benzyl alcohol	ND	F1	1100	170	ug/Kg	☼	07/12/19 12:55	07/15/19 17:07	10
Bis(2-ethylhexyl) phthalate	ND	F1	1300	150	ug/Kg	☼	07/12/19 12:55	07/15/19 17:07	10
Butyl benzyl phthalate	**160**	**J B**	430	110	ug/Kg	☼	07/12/19 12:55	07/15/19 17:07	10
Carbazole	ND	*	330	18	ug/Kg	☼	07/12/19 12:55	07/15/19 17:07	10
Chrysene	**120**	**J F1 F2**	130	28	ug/Kg	☼	07/12/19 12:55	07/15/19 17:07	10
Dibenz(a,h)anthracene	**26**	**J F2**	110	26	ug/Kg	☼	07/12/19 12:55	07/15/19 17:07	10
Dibenzofuran	**23**	**J**	330	13	ug/Kg	☼	07/12/19 12:55	07/15/19 17:07	10
Diethyl phthalate	ND		3300	170	ug/Kg	☼	07/12/19 12:55	07/15/19 17:07	10
Dimethyl phthalate	ND		330	28	ug/Kg	☼	07/12/19 12:55	07/15/19 17:07	10
Di-n-butyl phthalate	ND	F1	1100	120	ug/Kg	☼	07/12/19 12:55	07/15/19 17:07	10
Di-n-octyl phthalate	ND	F1	330	120	ug/Kg	☼	07/12/19 12:55	07/15/19 17:07	10
Fluoranthene	**310**	**F1 F2**	54	11	ug/Kg	☼	07/12/19 12:55	07/15/19 17:07	10
Fluorene	**30**	**J**	54	11	ug/Kg	☼	07/12/19 12:55	07/15/19 17:07	10
Hexachlorobenzene	ND		110	33	ug/Kg	☼	07/12/19 12:55	07/15/19 17:07	10
Hexachlorobutadiene	ND	F1	110	33	ug/Kg	☼	07/12/19 12:55	07/15/19 17:07	10
Indeno[1,2,3-cd]pyrene	**84**	**J F1**	87	11	ug/Kg	☼	07/12/19 12:55	07/15/19 17:07	10
Naphthalene	**180**	**F1**	54	11	ug/Kg	☼	07/12/19 12:55	07/15/19 17:07	10
N-Nitrosodiphenylamine	ND		130	17	ug/Kg	☼	07/12/19 12:55	07/15/19 17:07	10
Pentachlorophenol	ND	F1	980	290	ug/Kg	☼	07/12/19 12:55	07/15/19 17:07	10
Phenanthrene	**190**	**F1 F2**	130	26	ug/Kg	☼	07/12/19 12:55	07/15/19 17:07	10
Phenol	**1000**		330	50	ug/Kg	☼	07/12/19 12:55	07/15/19 17:07	10
Pyrene	**330**	**F1 F2**	130	14	ug/Kg	☼	07/12/19 12:55	07/15/19 17:07	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*160*	*X*	*52 - 125*	*07/12/19 12:55*	*07/15/19 17:07*	*10*
2-Fluorobiphenyl	*58*		*57 - 120*	*07/12/19 12:55*	*07/15/19 17:07*	*10*
2-Fluorophenol	*74*		*60 - 125*	*07/12/19 12:55*	*07/15/19 17:07*	*10*
Nitrobenzene-d5	*52*	*X*	*62 - 120*	*07/12/19 12:55*	*07/15/19 17:07*	*10*
Phenol-d5	*82*		*59 - 120*	*07/12/19 12:55*	*07/15/19 17:07*	*10*
Terphenyl-d14	*97*		*58 - 120*	*07/12/19 12:55*	*07/15/19 17:07*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0039	0.0014	mg/Kg	☼	07/12/19 14:19	07/18/19 01:53	1
PCB-1221	ND		0.0039	0.0018	mg/Kg	☼	07/12/19 14:19	07/18/19 01:53	1

Client Sample ID: BH2-02-S
Lab Sample ID: 580-87377-17
Date Collected: 07/01/19 17:10
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 45.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		0.0039	0.0018	mg/Kg	☼	07/12/19 14:19	07/18/19 01:53	1
PCB-1242	ND		0.0039	0.00095	mg/Kg	☼	07/12/19 14:19	07/18/19 01:53	1
PCB-1248	ND		0.0039	0.00070	mg/Kg	☼	07/12/19 14:19	07/18/19 01:53	1
PCB-1254	**0.0041**		0.0039	0.0015	mg/Kg	☼	07/12/19 14:19	07/23/19 19:27	1
PCB-1260	ND		0.0039	0.0015	mg/Kg	☼	07/12/19 14:19	07/18/19 01:53	1
Polychlorinated biphenyls, Total	ND		0.0039	0.0014	mg/Kg	☼	07/12/19 14:19	07/18/19 01:53	1
PCB-1262	ND		0.0039	0.00091	mg/Kg	☼	07/12/19 14:19	07/23/19 19:27	1
PCB-1268	ND		0.0039	0.00095	mg/Kg	☼	07/12/19 14:19	07/23/19 19:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*99*		*39 - 142*	*07/12/19 14:19*	*07/18/19 01:53*	*1*
Tetrachloro-m-xylene	*106*		*35 - 129*	*07/12/19 14:19*	*07/18/19 01:53*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**11**	**B**	0.41	0.081	mg/Kg	☼	07/09/19 12:48	07/15/19 22:31	5
Cadmium	**0.50**		0.32	0.062	mg/Kg	☼	07/09/19 12:48	07/15/19 22:31	5
Chromium	**23**	**B**	0.41	0.051	mg/Kg	☼	07/09/19 12:48	07/15/19 22:31	5
Copper	**41**		0.81	0.18	mg/Kg	☼	07/09/19 12:48	07/15/19 22:31	5
Lead	**71**	**B**	0.41	0.039	mg/Kg	☼	07/09/19 12:48	07/15/19 22:31	5
Nickel	**16**		0.41	0.16	mg/Kg	☼	07/09/19 12:48	07/15/19 22:31	5
Selenium	**0.97**		0.81	0.23	mg/Kg	☼	07/09/19 12:48	07/15/19 22:31	5
Silver	**0.17**		0.16	0.016	mg/Kg	☼	07/09/19 12:48	07/15/19 22:31	5
Zinc	**67**		4.1	1.3	mg/Kg	☼	07/09/19 12:48	07/15/19 22:31	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.17**		0.058	0.017	mg/Kg	☼	07/12/19 10:09	07/12/19 15:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	**81000**		2000	44	mg/Kg			07/15/19 16:41	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**45.3**		0.1	0.1	%			07/09/19 09:26	1
Percent Moisture	**54.7**		0.1	0.1	%			07/09/19 09:26	1
Total Solids	**45.3**		0.1	0.1	%			07/09/19 09:26	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND	F2	230	18	mg/Kg	☼		07/08/19 11:00	1

Method: PSEP Plumb 1981 - Grain Size (PSEP Plumb 1981)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Clay	**5.5**				%			07/09/19 16:28	1
Sand	**57**				%			07/09/19 16:28	1
Silt	**37**				%			07/09/19 16:28	1
Gravel	**0.10**				%			07/09/19 16:28	1
Cobbles	**0.00**				%			07/09/19 16:28	1

Client Sample ID: BH2-01-S **Lab Sample ID: 580-87377-18**
Date Collected: 07/01/19 17:27 **Matrix: Solid**
Date Received: 07/03/19 08:15 **Percent Solids: 54.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		89	11	ug/Kg	☼	07/12/19 12:55	07/15/19 18:18	10
1,2-Dichlorobenzene	ND		89	21	ug/Kg	☼	07/12/19 12:55	07/15/19 18:18	10
1,4-Dichlorobenzene	ND		89	15	ug/Kg	☼	07/12/19 12:55	07/15/19 18:18	10
2,4-Dimethylphenol	ND		180	27	ug/Kg	☼	07/12/19 12:55	07/15/19 18:18	10
2-Methylnaphthalene	ND		89	16	ug/Kg	☼	07/12/19 12:55	07/15/19 18:18	10
2-Methylphenol	ND		270	17	ug/Kg	☼	07/12/19 12:55	07/15/19 18:18	10
3 & 4 Methylphenol	**460**		360	27	ug/Kg	☼	07/12/19 12:55	07/15/19 18:18	10
Acenaphthene	**14**	**J**	44	8.9	ug/Kg	☼	07/12/19 12:55	07/15/19 18:18	10
Acenaphthylene	**21**	**J**	44	8.9	ug/Kg	☼	07/12/19 12:55	07/15/19 18:18	10
Anthracene	**31**	**J**	44	8.9	ug/Kg	☼	07/12/19 12:55	07/15/19 18:18	10
Benzo[a]anthracene	**82**		44	8.9	ug/Kg	☼	07/12/19 12:55	07/15/19 18:18	10
Benzo[a]pyrene	**80**	**J**	110	23	ug/Kg	☼	07/12/19 12:55	07/15/19 18:18	10
Benzo[g,h,i]perylene	**43**	**J**	110	16	ug/Kg	☼	07/12/19 12:55	07/15/19 18:18	10
Benzofluoranthene	**100**	**J**	270	25	ug/Kg	☼	07/12/19 12:55	07/15/19 18:18	10
Benzoic acid	ND		3600	1000	ug/Kg	☼	07/12/19 12:55	07/15/19 18:18	10
Benzyl alcohol	ND		890	140	ug/Kg	☼	07/12/19 12:55	07/15/19 18:18	10
Bis(2-ethylhexyl) phthalate	ND		1100	130	ug/Kg	☼	07/12/19 12:55	07/15/19 18:18	10
Butyl benzyl phthalate	**100**	**J B**	360	91	ug/Kg	☼	07/12/19 12:55	07/15/19 18:18	10
Carbazole	ND	*	270	15	ug/Kg	☼	07/12/19 12:55	07/15/19 18:18	10
Chrysene	**95**	**J**	110	23	ug/Kg	☼	07/12/19 12:55	07/15/19 18:18	10
Dibenz(a,h)anthracene	ND		89	21	ug/Kg	☼	07/12/19 12:55	07/15/19 18:18	10
Dibenzofuran	ND		270	10	ug/Kg	☼	07/12/19 12:55	07/15/19 18:18	10
Diethyl phthalate	ND		2700	130	ug/Kg	☼	07/12/19 12:55	07/15/19 18:18	10
Dimethyl phthalate	ND		270	23	ug/Kg	☼	07/12/19 12:55	07/15/19 18:18	10
Di-n-butyl phthalate	ND		890	100	ug/Kg	☼	07/12/19 12:55	07/15/19 18:18	10
Di-n-octyl phthalate	ND		270	100	ug/Kg	☼	07/12/19 12:55	07/15/19 18:18	10
Fluoranthene	**190**		44	8.9	ug/Kg	☼	07/12/19 12:55	07/15/19 18:18	10
Fluorene	**16**	**J**	44	8.9	ug/Kg	☼	07/12/19 12:55	07/15/19 18:18	10
Hexachlorobenzene	ND		89	27	ug/Kg	☼	07/12/19 12:55	07/15/19 18:18	10
Hexachlorobutadiene	ND		89	27	ug/Kg	☼	07/12/19 12:55	07/15/19 18:18	10
Indeno[1,2,3-cd]pyrene	**61**	**J**	71	8.9	ug/Kg	☼	07/12/19 12:55	07/15/19 18:18	10
Naphthalene	**79**		44	8.9	ug/Kg	☼	07/12/19 12:55	07/15/19 18:18	10
N-Nitrosodiphenylamine	ND		110	14	ug/Kg	☼	07/12/19 12:55	07/15/19 18:18	10
Pentachlorophenol	ND		800	230	ug/Kg	☼	07/12/19 12:55	07/15/19 18:18	10
Phenanthrene	**120**		110	21	ug/Kg	☼	07/12/19 12:55	07/15/19 18:18	10
Phenol	**170**	**J**	270	41	ug/Kg	☼	07/12/19 12:55	07/15/19 18:18	10
Pyrene	**200**		110	11	ug/Kg	☼	07/12/19 12:55	07/15/19 18:18	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*165*	*X*	*52 - 125*	*07/12/19 12:55*	*07/15/19 18:18*	*10*
2-Fluorobiphenyl	*47*	*X*	*57 - 120*	*07/12/19 12:55*	*07/15/19 18:18*	*10*
2-Fluorophenol	*68*		*60 - 125*	*07/12/19 12:55*	*07/15/19 18:18*	*10*
Nitrobenzene-d5	*57*	*X*	*62 - 120*	*07/12/19 12:55*	*07/15/19 18:18*	*10*
Phenol-d5	*69*		*59 - 120*	*07/12/19 12:55*	*07/15/19 18:18*	*10*
Terphenyl-d14	*103*		*58 - 120*	*07/12/19 12:55*	*07/15/19 18:18*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0031	0.0012	mg/Kg	☼	07/12/19 14:19	07/18/19 02:48	1
PCB-1221	ND		0.0031	0.0015	mg/Kg	☼	07/12/19 14:19	07/18/19 02:48	1

Client Sample ID: BH2-01-S
Lab Sample ID: 580-87377-18
Date Collected: 07/01/19 17:27
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 54.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		0.0031	0.0015	mg/Kg	☼	07/12/19 14:19	07/18/19 02:48	1
PCB-1242	ND		0.0031	0.00077	mg/Kg	☼	07/12/19 14:19	07/18/19 02:48	1
PCB-1248	ND		0.0031	0.00056	mg/Kg	☼	07/12/19 14:19	07/18/19 02:48	1
PCB-1254	ND		0.0031	0.0012	mg/Kg	☼	07/12/19 14:19	07/23/19 19:45	1
PCB-1260	ND		0.0031	0.0012	mg/Kg	☼	07/12/19 14:19	07/18/19 02:48	1
Polychlorinated biphenyls, Total	ND		0.0031	0.0011	mg/Kg	☼	07/12/19 14:19	07/18/19 02:48	1
PCB-1262	ND		0.0031	0.00073	mg/Kg	☼	07/12/19 14:19	07/23/19 19:45	1
PCB-1268	ND		0.0031	0.00077	mg/Kg	☼	07/12/19 14:19	07/23/19 19:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*64*		*39 - 142*	*07/12/19 14:19*	*07/18/19 02:48*	*1*
Tetrachloro-m-xylene	*69*		*35 - 129*	*07/12/19 14:19*	*07/18/19 02:48*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**9.3**	**B**	0.28	0.056	mg/Kg	☼	07/09/19 12:48	07/16/19 00:15	5
Cadmium	**0.47**		0.22	0.043	mg/Kg	☼	07/09/19 12:48	07/16/19 00:15	5
Chromium	**19**	**B**	0.28	0.035	mg/Kg	☼	07/09/19 12:48	07/16/19 00:15	5
Copper	**29**		0.56	0.12	mg/Kg	☼	07/09/19 12:48	07/16/19 00:15	5
Lead	**51**	**B**	0.28	0.027	mg/Kg	☼	07/09/19 12:48	07/16/19 00:15	5
Nickel	**14**		0.28	0.11	mg/Kg	☼	07/09/19 12:48	07/16/19 00:15	5
Selenium	**0.66**		0.56	0.16	mg/Kg	☼	07/09/19 12:48	07/16/19 00:15	5
Silver	**0.12**		0.11	0.011	mg/Kg	☼	07/09/19 12:48	07/16/19 00:15	5
Zinc	**62**		2.8	0.89	mg/Kg	☼	07/09/19 12:48	07/16/19 00:15	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.11**		0.053	0.016	mg/Kg	☼	07/12/19 10:09	07/12/19 16:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	**40000**		2000	44	mg/Kg			07/15/19 18:52	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**54.2**		0.1	0.1	%			07/09/19 09:26	1
Percent Moisture	**45.8**		0.1	0.1	%			07/09/19 09:26	1
Total Solids	**54.2**		0.1	0.1	%			07/09/19 09:26	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		200	16	mg/Kg	☼		07/08/19 11:00	1

Method: PSEP Plumb 1981 - Grain Size (PSEP Plumb 1981)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Clay	**4.5**				%			07/09/19 16:28	1
Sand	**59**				%			07/09/19 16:28	1
Silt	**36**				%			07/09/19 16:28	1
Gravel	**0.40**				%			07/09/19 16:28	1
Cobbles	**0.00**				%			07/09/19 16:28	1

Client Sample ID: BH2-05-S
Date Collected: 07/01/19 17:41
Date Received: 07/03/19 08:15

Lab Sample ID: 580-87377-19
Matrix: Solid
Percent Solids: 41.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		110	13	ug/Kg	☼	07/12/19 12:55	07/15/19 18:41	10
1,2-Dichlorobenzene	ND		110	25	ug/Kg	☼	07/12/19 12:55	07/15/19 18:41	10
1,4-Dichlorobenzene	ND		110	18	ug/Kg	☼	07/12/19 12:55	07/15/19 18:41	10
2,4-Dimethylphenol	ND		210	32	ug/Kg	☼	07/12/19 12:55	07/15/19 18:41	10
2-Methylnaphthalene	**20**	**J**	110	19	ug/Kg	☼	07/12/19 12:55	07/15/19 18:41	10
2-Methylphenol	ND		320	21	ug/Kg	☼	07/12/19 12:55	07/15/19 18:41	10
3 & 4 Methylphenol	**480**		420	32	ug/Kg	☼	07/12/19 12:55	07/15/19 18:41	10
Acenaphthene	**20**	**J**	53	11	ug/Kg	☼	07/12/19 12:55	07/15/19 18:41	10
Acenaphthylene	**37**	**J**	53	11	ug/Kg	☼	07/12/19 12:55	07/15/19 18:41	10
Anthracene	**57**		53	11	ug/Kg	☼	07/12/19 12:55	07/15/19 18:41	10
Benzo[a]anthracene	**150**		53	11	ug/Kg	☼	07/12/19 12:55	07/15/19 18:41	10
Benzo[a]pyrene	**140**		130	27	ug/Kg	☼	07/12/19 12:55	07/15/19 18:41	10
Benzo[g,h,i]perylene	**88**	**J**	130	19	ug/Kg	☼	07/12/19 12:55	07/15/19 18:41	10
Benzofluoranthene	**200**	**J**	320	30	ug/Kg	☼	07/12/19 12:55	07/15/19 18:41	10
Benzoic acid	ND		4200	1200	ug/Kg	☼	07/12/19 12:55	07/15/19 18:41	10
Benzyl alcohol	ND		1100	160	ug/Kg	☼	07/12/19 12:55	07/15/19 18:41	10
Bis(2-ethylhexyl) phthalate	ND		1300	150	ug/Kg	☼	07/12/19 12:55	07/15/19 18:41	10
Butyl benzyl phthalate	**120**	**J B**	420	110	ug/Kg	☼	07/12/19 12:55	07/15/19 18:41	10
Carbazole	ND	*	320	17	ug/Kg	☼	07/12/19 12:55	07/15/19 18:41	10
Chrysene	**150**		130	27	ug/Kg	☼	07/12/19 12:55	07/15/19 18:41	10
Dibenz(a,h)anthracene	ND		110	25	ug/Kg	☼	07/12/19 12:55	07/15/19 18:41	10
Dibenzofuran	**22**	**J**	320	12	ug/Kg	☼	07/12/19 12:55	07/15/19 18:41	10
Diethyl phthalate	ND		3200	160	ug/Kg	☼	07/12/19 12:55	07/15/19 18:41	10
Dimethyl phthalate	ND		320	27	ug/Kg	☼	07/12/19 12:55	07/15/19 18:41	10
Di-n-butyl phthalate	ND		1100	120	ug/Kg	☼	07/12/19 12:55	07/15/19 18:41	10
Di-n-octyl phthalate	ND		320	120	ug/Kg	☼	07/12/19 12:55	07/15/19 18:41	10
Fluoranthene	**320**		53	11	ug/Kg	☼	07/12/19 12:55	07/15/19 18:41	10
Fluorene	**29**	**J**	53	11	ug/Kg	☼	07/12/19 12:55	07/15/19 18:41	10
Hexachlorobenzene	ND		110	32	ug/Kg	☼	07/12/19 12:55	07/15/19 18:41	10
Hexachlorobutadiene	ND		110	32	ug/Kg	☼	07/12/19 12:55	07/15/19 18:41	10
Indeno[1,2,3-cd]pyrene	**110**		85	11	ug/Kg	☼	07/12/19 12:55	07/15/19 18:41	10
Naphthalene	**200**		53	11	ug/Kg	☼	07/12/19 12:55	07/15/19 18:41	10
N-Nitrosodiphenylamine	ND		130	17	ug/Kg	☼	07/12/19 12:55	07/15/19 18:41	10
Pentachlorophenol	ND		950	280	ug/Kg	☼	07/12/19 12:55	07/15/19 18:41	10
Phenanthrene	**220**		130	25	ug/Kg	☼	07/12/19 12:55	07/15/19 18:41	10
Phenol	**490**		320	49	ug/Kg	☼	07/12/19 12:55	07/15/19 18:41	10
Pyrene	**340**		130	14	ug/Kg	☼	07/12/19 12:55	07/15/19 18:41	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*156*	*X*	*52 - 125*	*07/12/19 12:55*	*07/15/19 18:41*	*10*
2-Fluorobiphenyl	*52*	*X*	*57 - 120*	*07/12/19 12:55*	*07/15/19 18:41*	*10*
2-Fluorophenol	*62*		*60 - 125*	*07/12/19 12:55*	*07/15/19 18:41*	*10*
Nitrobenzene-d5	*60*	*X*	*62 - 120*	*07/12/19 12:55*	*07/15/19 18:41*	*10*
Phenol-d5	*75*		*59 - 120*	*07/12/19 12:55*	*07/15/19 18:41*	*10*
Terphenyl-d14	*83*		*58 - 120*	*07/12/19 12:55*	*07/15/19 18:41*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0040	0.0015	mg/Kg	☼	07/12/19 14:19	07/18/19 03:06	1
PCB-1221	ND		0.0040	0.0019	mg/Kg	☼	07/12/19 14:19	07/18/19 03:06	1

Client Sample ID: BH2-05-S
Lab Sample ID: 580-87377-19
Date Collected: 07/01/19 17:41
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 41.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		0.0040	0.0019	mg/Kg	☼	07/12/19 14:19	07/18/19 03:06	1
PCB-1242	ND		0.0040	0.00099	mg/Kg	☼	07/12/19 14:19	07/18/19 03:06	1
PCB-1248	ND		0.0040	0.00073	mg/Kg	☼	07/12/19 14:19	07/18/19 03:06	1
PCB-1254	**0.0032**	**J**	0.0040	0.0016	mg/Kg	☼	07/12/19 14:19	07/23/19 20:03	1
PCB-1260	ND		0.0040	0.0016	mg/Kg	☼	07/12/19 14:19	07/18/19 03:06	1
Polychlorinated biphenyls, Total	**0.0045**		0.0040	0.0015	mg/Kg	☼	07/12/19 14:19	07/18/19 03:06	1
PCB-1262	ND		0.0040	0.00095	mg/Kg	☼	07/12/19 14:19	07/23/19 20:03	1
PCB-1268	ND		0.0040	0.00099	mg/Kg	☼	07/12/19 14:19	07/23/19 20:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*57*		*39 - 142*	*07/12/19 14:19*	*07/18/19 03:06*	*1*
Tetrachloro-m-xylene	*90*		*35 - 129*	*07/12/19 14:19*	*07/18/19 03:06*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**10**	**B**	0.38	0.075	mg/Kg	☼	07/09/19 12:48	07/16/19 00:19	5
Cadmium	**0.46**		0.30	0.058	mg/Kg	☼	07/09/19 12:48	07/16/19 00:19	5
Chromium	**20**	**B**	0.38	0.047	mg/Kg	☼	07/09/19 12:48	07/16/19 00:19	5
Copper	**39**		0.75	0.17	mg/Kg	☼	07/09/19 12:48	07/16/19 00:19	5
Lead	**78**	**B**	0.38	0.036	mg/Kg	☼	07/09/19 12:48	07/16/19 00:19	5
Nickel	**14**		0.38	0.14	mg/Kg	☼	07/09/19 12:48	07/16/19 00:19	5
Selenium	**0.86**		0.75	0.21	mg/Kg	☼	07/09/19 12:48	07/16/19 00:19	5
Silver	**0.16**		0.15	0.015	mg/Kg	☼	07/09/19 12:48	07/16/19 00:19	5
Zinc	**76**		3.8	1.2	mg/Kg	☼	07/09/19 12:48	07/16/19 00:19	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.15**		0.060	0.018	mg/Kg	☼	07/12/19 10:09	07/12/19 16:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	**120000**		2000	44	mg/Kg			07/15/19 19:03	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**41.1**		0.1	0.1	%			07/09/19 09:26	1
Percent Moisture	**58.9**		0.1	0.1	%			07/09/19 09:26	1
Total Solids	**41.1**		0.1	0.1	%			07/09/19 09:26	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		300	24	mg/Kg	☼		07/08/19 11:00	1

Method: PSEP Plumb 1981 - Grain Size (PSEP Plumb 1981)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Clay	**5.9**				%			07/09/19 16:28	1
Sand	**53**				%			07/09/19 16:28	1
Silt	**40**				%			07/09/19 16:28	1
Gravel	**0.30**				%			07/09/19 16:28	1
Cobbles	**0.00**				%			07/09/19 16:28	1

Client Sample ID: BH2-04-S **Lab Sample ID: 580-87377-20**
Date Collected: 07/01/19 17:54 **Matrix: Solid**
Date Received: 07/03/19 08:15 **Percent Solids: 46.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		97	12	ug/Kg	☼	07/12/19 12:55	07/15/19 19:05	10
1,2-Dichlorobenzene	ND		97	23	ug/Kg	☼	07/12/19 12:55	07/15/19 19:05	10
1,4-Dichlorobenzene	ND		97	16	ug/Kg	☼	07/12/19 12:55	07/15/19 19:05	10
2,4-Dimethylphenol	ND		190	29	ug/Kg	☼	07/12/19 12:55	07/15/19 19:05	10
2-Methylnaphthalene	ND		97	17	ug/Kg	☼	07/12/19 12:55	07/15/19 19:05	10
2-Methylphenol	ND		290	19	ug/Kg	☼	07/12/19 12:55	07/15/19 19:05	10
3 & 4 Methylphenol	**410**		390	29	ug/Kg	☼	07/12/19 12:55	07/15/19 19:05	10
Acenaphthene	**16**	**J**	48	9.7	ug/Kg	☼	07/12/19 12:55	07/15/19 19:05	10
Acenaphthylene	**26**	**J**	48	9.7	ug/Kg	☼	07/12/19 12:55	07/15/19 19:05	10
Anthracene	**31**	**J**	48	9.7	ug/Kg	☼	07/12/19 12:55	07/15/19 19:05	10
Benzo[a]anthracene	**86**		48	9.7	ug/Kg	☼	07/12/19 12:55	07/15/19 19:05	10
Benzo[a]pyrene	**78**	**J**	120	25	ug/Kg	☼	07/12/19 12:55	07/15/19 19:05	10
Benzo[g,h,i]perylene	**52**	**J**	120	17	ug/Kg	☼	07/12/19 12:55	07/15/19 19:05	10
Benzofluoranthene	**120**	**J**	290	27	ug/Kg	☼	07/12/19 12:55	07/15/19 19:05	10
Benzoic acid	ND		3900	1100	ug/Kg	☼	07/12/19 12:55	07/15/19 19:05	10
Benzyl alcohol	ND		970	150	ug/Kg	☼	07/12/19 12:55	07/15/19 19:05	10
Bis(2-ethylhexyl) phthalate	ND		1200	140	ug/Kg	☼	07/12/19 12:55	07/15/19 19:05	10
Butyl benzyl phthalate	**120**	**J B**	390	99	ug/Kg	☼	07/12/19 12:55	07/15/19 19:05	10
Carbazole	ND	*	290	16	ug/Kg	☼	07/12/19 12:55	07/15/19 19:05	10
Chrysene	**99**	**J**	120	25	ug/Kg	☼	07/12/19 12:55	07/15/19 19:05	10
Dibenz(a,h)anthracene	ND		97	23	ug/Kg	☼	07/12/19 12:55	07/15/19 19:05	10
Dibenzofuran	**17**	**J**	290	11	ug/Kg	☼	07/12/19 12:55	07/15/19 19:05	10
Diethyl phthalate	ND		2900	150	ug/Kg	☼	07/12/19 12:55	07/15/19 19:05	10
Dimethyl phthalate	ND		290	25	ug/Kg	☼	07/12/19 12:55	07/15/19 19:05	10
Di-n-butyl phthalate	ND		970	110	ug/Kg	☼	07/12/19 12:55	07/15/19 19:05	10
Di-n-octyl phthalate	ND		290	110	ug/Kg	☼	07/12/19 12:55	07/15/19 19:05	10
Fluoranthene	**220**		48	9.7	ug/Kg	☼	07/12/19 12:55	07/15/19 19:05	10
Fluorene	**18**	**J**	48	9.7	ug/Kg	☼	07/12/19 12:55	07/15/19 19:05	10
Hexachlorobenzene	ND		97	29	ug/Kg	☼	07/12/19 12:55	07/15/19 19:05	10
Hexachlorobutadiene	ND		97	29	ug/Kg	☼	07/12/19 12:55	07/15/19 19:05	10
Indeno[1,2,3-cd]pyrene	**66**	**J**	77	9.7	ug/Kg	☼	07/12/19 12:55	07/15/19 19:05	10
Naphthalene	**140**		48	9.7	ug/Kg	☼	07/12/19 12:55	07/15/19 19:05	10
N-Nitrosodiphenylamine	ND		120	15	ug/Kg	☼	07/12/19 12:55	07/15/19 19:05	10
Pentachlorophenol	ND		870	260	ug/Kg	☼	07/12/19 12:55	07/15/19 19:05	10
Phenanthrene	**140**		120	23	ug/Kg	☼	07/12/19 12:55	07/15/19 19:05	10
Phenol	**680**		290	45	ug/Kg	☼	07/12/19 12:55	07/15/19 19:05	10
Pyrene	**230**		120	12	ug/Kg	☼	07/12/19 12:55	07/15/19 19:05	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*160*	*X*	*52 - 125*	*07/12/19 12:55*	*07/15/19 19:05*	*10*
2-Fluorobiphenyl	*44*	*X*	*57 - 120*	*07/12/19 12:55*	*07/15/19 19:05*	*10*
2-Fluorophenol	*76*		*60 - 125*	*07/12/19 12:55*	*07/15/19 19:05*	*10*
Nitrobenzene-d5	*48*	*X*	*62 - 120*	*07/12/19 12:55*	*07/15/19 19:05*	*10*
Phenol-d5	*76*		*59 - 120*	*07/12/19 12:55*	*07/15/19 19:05*	*10*
Terphenyl-d14	*100*		*58 - 120*	*07/12/19 12:55*	*07/15/19 19:05*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0035	0.0013	mg/Kg	☼	07/12/19 14:19	07/18/19 03:24	1
PCB-1221	ND		0.0035	0.0017	mg/Kg	☼	07/12/19 14:19	07/18/19 03:24	1

Client Sample ID: BH2-04-S
Lab Sample ID: 580-87377-20
Date Collected: 07/01/19 17:54
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 46.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		0.0035	0.0017	mg/Kg	☼	07/12/19 14:19	07/18/19 03:24	1
PCB-1242	ND		0.0035	0.00087	mg/Kg	☼	07/12/19 14:19	07/18/19 03:24	1
PCB-1248	ND		0.0035	0.00064	mg/Kg	☼	07/12/19 14:19	07/18/19 03:24	1
PCB-1254	**0.0016**	**J**	0.0035	0.0014	mg/Kg	☼	07/12/19 14:19	07/23/19 20:21	1
PCB-1260	ND		0.0035	0.0014	mg/Kg	☼	07/12/19 14:19	07/18/19 03:24	1
Polychlorinated biphenyls, Total	ND		0.0035	0.0013	mg/Kg	☼	07/12/19 14:19	07/18/19 03:24	1
PCB-1262	ND		0.0035	0.00083	mg/Kg	☼	07/12/19 14:19	07/23/19 20:21	1
PCB-1268	ND		0.0035	0.00087	mg/Kg	☼	07/12/19 14:19	07/23/19 20:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*52*		*39 - 142*	*07/12/19 14:19*	*07/18/19 03:24*	*1*
Tetrachloro-m-xylene	*76*		*35 - 129*	*07/12/19 14:19*	*07/18/19 03:24*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**9.1**	**B**	0.34	0.067	mg/Kg	☼	07/09/19 12:48	07/16/19 00:23	5
Cadmium	**0.32**		0.27	0.052	mg/Kg	☼	07/09/19 12:48	07/16/19 00:23	5
Chromium	**20**	**B**	0.34	0.042	mg/Kg	☼	07/09/19 12:48	07/16/19 00:23	5
Copper	**36**		0.67	0.15	mg/Kg	☼	07/09/19 12:48	07/16/19 00:23	5
Lead	**62**	**B**	0.34	0.032	mg/Kg	☼	07/09/19 12:48	07/16/19 00:23	5
Nickel	**13**		0.34	0.13	mg/Kg	☼	07/09/19 12:48	07/16/19 00:23	5
Selenium	**0.85**		0.67	0.19	mg/Kg	☼	07/09/19 12:48	07/16/19 00:23	5
Silver	**0.15**		0.13	0.013	mg/Kg	☼	07/09/19 12:48	07/16/19 00:23	5
Zinc	**52**		3.4	1.1	mg/Kg	☼	07/09/19 12:48	07/16/19 00:23	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.15**		0.063	0.019	mg/Kg	☼	07/12/19 10:09	07/12/19 16:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	**89000**		2000	44	mg/Kg			07/15/19 19:07	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**46.1**		0.1	0.1	%			07/09/19 09:26	1
Percent Moisture	**53.9**		0.1	0.1	%			07/09/19 09:26	1
Total Solids	**46.1**		0.1	0.1	%			07/09/19 09:26	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		270	22	mg/Kg	☼		07/08/19 11:00	1

Method: PSEP Plumb 1981 - Grain Size (PSEP Plumb 1981)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Clay	**5.6**				%			07/09/19 16:28	1
Sand	**46**				%			07/09/19 16:28	1
Silt	**49**				%			07/09/19 16:28	1
Gravel	**0.10**				%			07/09/19 16:28	1
Cobbles	**0.00**				%			07/09/19 16:28	1

Client Sample ID: BH2-04-D **Lab Sample ID: 580-87377-21**
Date Collected: 07/01/19 17:54 **Matrix: Solid**
Date Received: 07/03/19 08:15 **Percent Solids: 46.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		98	12	ug/Kg	☼	07/12/19 12:55	07/15/19 19:28	10
1,2-Dichlorobenzene	ND		98	24	ug/Kg	☼	07/12/19 12:55	07/15/19 19:28	10
1,4-Dichlorobenzene	ND		98	16	ug/Kg	☼	07/12/19 12:55	07/15/19 19:28	10
2,4-Dimethylphenol	ND		200	29	ug/Kg	☼	07/12/19 12:55	07/15/19 19:28	10
2-Methylnaphthalene	ND		98	17	ug/Kg	☼	07/12/19 12:55	07/15/19 19:28	10
2-Methylphenol	ND		290	19	ug/Kg	☼	07/12/19 12:55	07/15/19 19:28	10
3 & 4 Methylphenol	**390**		390	29	ug/Kg	☼	07/12/19 12:55	07/15/19 19:28	10
Acenaphthene	**22**	**J**	49	9.8	ug/Kg	☼	07/12/19 12:55	07/15/19 19:28	10
Acenaphthylene	**23**	**J**	49	9.8	ug/Kg	☼	07/12/19 12:55	07/15/19 19:28	10
Anthracene	**58**		49	9.8	ug/Kg	☼	07/12/19 12:55	07/15/19 19:28	10
Benzo[a]anthracene	**110**		49	9.8	ug/Kg	☼	07/12/19 12:55	07/15/19 19:28	10
Benzo[a]pyrene	**110**	**J**	120	25	ug/Kg	☼	07/12/19 12:55	07/15/19 19:28	10
Benzo[g,h,i]perylene	**55**	**J**	120	18	ug/Kg	☼	07/12/19 12:55	07/15/19 19:28	10
Benzofluoranthene	**50**	**J**	290	27	ug/Kg	☼	07/12/19 12:55	07/15/19 19:28	10
Benzoic acid	ND		3900	1100	ug/Kg	☼	07/12/19 12:55	07/15/19 19:28	10
Benzyl alcohol	ND		980	150	ug/Kg	☼	07/12/19 12:55	07/15/19 19:28	10
Bis(2-ethylhexyl) phthalate	ND		1200	140	ug/Kg	☼	07/12/19 12:55	07/15/19 19:28	10
Butyl benzyl phthalate	**100**	**J B**	390	100	ug/Kg	☼	07/12/19 12:55	07/15/19 19:28	10
Carbazole	ND	*	290	16	ug/Kg	☼	07/12/19 12:55	07/15/19 19:28	10
Chrysene	**110**	**J**	120	25	ug/Kg	☼	07/12/19 12:55	07/15/19 19:28	10
Dibenz(a,h)anthracene	**27**	**J**	98	24	ug/Kg	☼	07/12/19 12:55	07/15/19 19:28	10
Dibenzofuran	**17**	**J**	290	12	ug/Kg	☼	07/12/19 12:55	07/15/19 19:28	10
Diethyl phthalate	ND		2900	150	ug/Kg	☼	07/12/19 12:55	07/15/19 19:28	10
Dimethyl phthalate	ND		290	25	ug/Kg	☼	07/12/19 12:55	07/15/19 19:28	10
Di-n-butyl phthalate	ND		980	110	ug/Kg	☼	07/12/19 12:55	07/15/19 19:28	10
Di-n-octyl phthalate	ND		290	110	ug/Kg	☼	07/12/19 12:55	07/15/19 19:28	10
Fluoranthene	**250**		49	9.8	ug/Kg	☼	07/12/19 12:55	07/15/19 19:28	10
Fluorene	**26**	**J**	49	9.8	ug/Kg	☼	07/12/19 12:55	07/15/19 19:28	10
Hexachlorobenzene	ND		98	29	ug/Kg	☼	07/12/19 12:55	07/15/19 19:28	10
Hexachlorobutadiene	ND		98	29	ug/Kg	☼	07/12/19 12:55	07/15/19 19:28	10
Indeno[1,2,3-cd]pyrene	**87**		78	9.8	ug/Kg	☼	07/12/19 12:55	07/15/19 19:28	10
Naphthalene	**120**		49	9.8	ug/Kg	☼	07/12/19 12:55	07/15/19 19:28	10
N-Nitrosodiphenylamine	ND		120	16	ug/Kg	☼	07/12/19 12:55	07/15/19 19:28	10
Pentachlorophenol	ND		880	260	ug/Kg	☼	07/12/19 12:55	07/15/19 19:28	10
Phenanthrene	**200**		120	24	ug/Kg	☼	07/12/19 12:55	07/15/19 19:28	10
Phenol	**550**		290	45	ug/Kg	☼	07/12/19 12:55	07/15/19 19:28	10
Pyrene	**260**		120	13	ug/Kg	☼	07/12/19 12:55	07/15/19 19:28	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*162*	*X*	*52 - 125*	*07/12/19 12:55*	*07/15/19 19:28*	*10*
2-Fluorobiphenyl	*47*	*X*	*57 - 120*	*07/12/19 12:55*	*07/15/19 19:28*	*10*
2-Fluorophenol	*74*		*60 - 125*	*07/12/19 12:55*	*07/15/19 19:28*	*10*
Nitrobenzene-d5	*50*	*X*	*62 - 120*	*07/12/19 12:55*	*07/15/19 19:28*	*10*
Phenol-d5	*71*		*59 - 120*	*07/12/19 12:55*	*07/15/19 19:28*	*10*
Terphenyl-d14	*92*		*58 - 120*	*07/12/19 12:55*	*07/15/19 19:28*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0043	0.0016	mg/Kg	☼	07/12/19 14:19	07/18/19 03:42	1
PCB-1221	ND		0.0043	0.0020	mg/Kg	☼	07/12/19 14:19	07/18/19 03:42	1

Client Sample ID: BH2-04-D
Date Collected: 07/01/19 17:54
Date Received: 07/03/19 08:15

Lab Sample ID: 580-87377-21
Matrix: Solid
Percent Solids: 46.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		0.0043	0.0020	mg/Kg	☼	07/12/19 14:19	07/18/19 03:42	1
PCB-1242	ND		0.0043	0.0010	mg/Kg	☼	07/12/19 14:19	07/18/19 03:42	1
PCB-1248	ND		0.0043	0.00077	mg/Kg	☼	07/12/19 14:19	07/18/19 03:42	1
PCB-1254	ND		0.0043	0.0017	mg/Kg	☼	07/12/19 14:19	07/18/19 03:42	1
PCB-1260	ND		0.0043	0.0016	mg/Kg	☼	07/12/19 14:19	07/18/19 03:42	1
Polychlorinated biphenyls, Total	ND		0.0043	0.0016	mg/Kg	☼	07/12/19 14:19	07/18/19 03:42	1
PCB-1262	ND		0.0043	0.0010	mg/Kg	☼	07/12/19 14:19	07/18/19 03:42	1
PCB-1268	ND		0.0043	0.0010	mg/Kg	☼	07/12/19 14:19	07/18/19 03:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*57*		*39 - 142*	*07/12/19 14:19*	*07/18/19 03:42*	*1*
Tetrachloro-m-xylene	*71*		*35 - 129*	*07/12/19 14:19*	*07/18/19 03:42*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**10**	**B**	0.36	0.073	mg/Kg	☼	07/09/19 12:48	07/16/19 00:36	5
Cadmium	**0.31**		0.29	0.056	mg/Kg	☼	07/09/19 12:48	07/16/19 00:36	5
Chromium	**22**	**B**	0.36	0.046	mg/Kg	☼	07/09/19 12:48	07/16/19 00:36	5
Copper	**40**		0.73	0.16	mg/Kg	☼	07/09/19 12:48	07/16/19 00:36	5
Lead	**68**	**B**	0.36	0.035	mg/Kg	☼	07/09/19 12:48	07/16/19 00:36	5
Nickel	**14**		0.36	0.14	mg/Kg	☼	07/09/19 12:48	07/16/19 00:36	5
Selenium	**0.92**		0.73	0.21	mg/Kg	☼	07/09/19 12:48	07/16/19 00:36	5
Silver	**0.17**		0.15	0.015	mg/Kg	☼	07/09/19 12:48	07/16/19 00:36	5
Zinc	**57**		3.6	1.2	mg/Kg	☼	07/09/19 12:48	07/16/19 00:36	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.14**		0.053	0.016	mg/Kg	☼	07/12/19 10:09	07/12/19 16:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	**86000**		2000	44	mg/Kg			07/15/19 19:12	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**46.1**		0.1	0.1	%			07/09/19 09:26	1
Percent Moisture	**53.9**		0.1	0.1	%			07/09/19 09:26	1
Total Solids	**46.1**		0.1	0.1	%			07/09/19 09:26	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		250	20	mg/Kg	☼		07/08/19 11:00	1

Method: PSEP Plumb 1981 - Grain Size (PSEP Plumb 1981)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Clay	**5.4**				%			07/09/19 16:28	1
Sand	**48**				%			07/09/19 16:28	1
Silt	**46**				%			07/09/19 16:28	1
Gravel	**0.30**				%			07/09/19 16:28	1
Cobbles	**0.00**				%			07/09/19 16:28	1

Client: Leidos, Inc.
Project/Site: 2019 Blakely Harbor Sediment Inv.

Job ID: 580-87377-1

Client Sample ID: BH2-04-T

Date Collected: 07/01/19 17:54
Date Received: 07/03/19 08:15

Lab Sample ID: 580-87377-22

Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	92000		2000	44	mg/Kg			07/15/19 19:47	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	47.2		0.1	0.1	%			07/09/19 09:26	1
Percent Moisture	52.8		0.1	0.1	%			07/09/19 09:26	1
Total Solids	47.2		0.1	0.1	%			07/09/19 09:26	1

Method: PSEP Plumb 1981 - Grain Size (PSEP Plumb 1981)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Clay	8.0				%			07/09/19 16:28	1
Sand	73				%			07/09/19 16:28	1
Silt	19				%			07/09/19 16:28	1
Gravel	0.10				%			07/09/19 16:28	1
Cobbles	0.00				%			07/09/19 16:28	1

Client: Leidos, Inc.
Job ID: 580-87377-1
Project/Site: 2019 Blakely Harbor Sediment Inv.

Client Sample ID: BH2-04-T
Lab Sample ID: 580-87377-22
Date Collected: 07/01/19 17:54
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 47.2

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		260	21	mg/Kg	☼		07/08/19 11:00	1

Client Sample ID: BH2-10-S **Lab Sample ID: 580-87377-23**
Date Collected: 07/01/19 18:12 **Matrix: Solid**
Date Received: 07/03/19 08:15 **Percent Solids: 74.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		58	6.9	ug/Kg	☼	07/12/19 12:55	07/15/19 19:52	10
1,2-Dichlorobenzene	ND		58	14	ug/Kg	☼	07/12/19 12:55	07/15/19 19:52	10
1,4-Dichlorobenzene	ND		58	9.6	ug/Kg	☼	07/12/19 12:55	07/15/19 19:52	10
2,4-Dimethylphenol	ND		120	17	ug/Kg	☼	07/12/19 12:55	07/15/19 19:52	10
2-Methylnaphthalene	ND		58	10	ug/Kg	☼	07/12/19 12:55	07/15/19 19:52	10
2-Methylphenol	ND		170	11	ug/Kg	☼	07/12/19 12:55	07/15/19 19:52	10
3 & 4 Methylphenol	**130**	**J**	230	17	ug/Kg	☼	07/12/19 12:55	07/15/19 19:52	10
Acenaphthene	**20**	**J**	29	5.8	ug/Kg	☼	07/12/19 12:55	07/15/19 19:52	10
Acenaphthylene	**15**	**J**	29	5.8	ug/Kg	☼	07/12/19 12:55	07/15/19 19:52	10
Anthracene	**48**		29	5.8	ug/Kg	☼	07/12/19 12:55	07/15/19 19:52	10
Benzo[a]anthracene	**81**		29	5.8	ug/Kg	☼	07/12/19 12:55	07/15/19 19:52	10
Benzo[a]pyrene	**73**		69	15	ug/Kg	☼	07/12/19 12:55	07/15/19 19:52	10
Benzo[g,h,i]perylene	**41**	**J**	69	10	ug/Kg	☼	07/12/19 12:55	07/15/19 19:52	10
Benzofluoranthene	**25**	**J**	170	16	ug/Kg	☼	07/12/19 12:55	07/15/19 19:52	10
Benzoic acid	ND		2300	670	ug/Kg	☼	07/12/19 12:55	07/15/19 19:52	10
Benzyl alcohol	ND		580	89	ug/Kg	☼	07/12/19 12:55	07/15/19 19:52	10
Bis(2-ethylhexyl) phthalate	ND		690	82	ug/Kg	☼	07/12/19 12:55	07/15/19 19:52	10
Butyl benzyl phthalate	**69**	**J B**	230	59	ug/Kg	☼	07/12/19 12:55	07/15/19 19:52	10
Carbazole	ND	*	170	9.4	ug/Kg	☼	07/12/19 12:55	07/15/19 19:52	10
Chrysene	**80**		69	15	ug/Kg	☼	07/12/19 12:55	07/15/19 19:52	10
Dibenz(a,h)anthracene	ND		58	14	ug/Kg	☼	07/12/19 12:55	07/15/19 19:52	10
Dibenzofuran	**11**	**J**	170	6.8	ug/Kg	☼	07/12/19 12:55	07/15/19 19:52	10
Diethyl phthalate	ND		1700	88	ug/Kg	☼	07/12/19 12:55	07/15/19 19:52	10
Dimethyl phthalate	ND		170	15	ug/Kg	☼	07/12/19 12:55	07/15/19 19:52	10
Di-n-butyl phthalate	ND		580	66	ug/Kg	☼	07/12/19 12:55	07/15/19 19:52	10
Di-n-octyl phthalate	ND		170	66	ug/Kg	☼	07/12/19 12:55	07/15/19 19:52	10
Fluoranthene	**180**		29	5.8	ug/Kg	☼	07/12/19 12:55	07/15/19 19:52	10
Fluorene	**22**	**J**	29	5.8	ug/Kg	☼	07/12/19 12:55	07/15/19 19:52	10
Hexachlorobenzene	ND		58	17	ug/Kg	☼	07/12/19 12:55	07/15/19 19:52	10
Hexachlorobutadiene	ND		58	17	ug/Kg	☼	07/12/19 12:55	07/15/19 19:52	10
Indeno[1,2,3-cd]pyrene	**56**		46	5.8	ug/Kg	☼	07/12/19 12:55	07/15/19 19:52	10
Naphthalene	**25**	**J**	29	5.8	ug/Kg	☼	07/12/19 12:55	07/15/19 19:52	10
N-Nitrosodiphenylamine	ND		69	9.2	ug/Kg	☼	07/12/19 12:55	07/15/19 19:52	10
Pentachlorophenol	ND		520	150	ug/Kg	☼	07/12/19 12:55	07/15/19 19:52	10
Phenanthrene	**170**		69	14	ug/Kg	☼	07/12/19 12:55	07/15/19 19:52	10
Phenol	**510**		170	26	ug/Kg	☼	07/12/19 12:55	07/15/19 19:52	10
Pyrene	**210**		69	7.4	ug/Kg	☼	07/12/19 12:55	07/15/19 19:52	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*152*	*X*	*52 - 125*	*07/12/19 12:55*	*07/15/19 19:52*	*10*
2-Fluorobiphenyl	*71*		*57 - 120*	*07/12/19 12:55*	*07/15/19 19:52*	*10*
2-Fluorophenol	*87*		*60 - 125*	*07/12/19 12:55*	*07/15/19 19:52*	*10*
Nitrobenzene-d5	*76*		*62 - 120*	*07/12/19 12:55*	*07/15/19 19:52*	*10*
Phenol-d5	*82*		*59 - 120*	*07/12/19 12:55*	*07/15/19 19:52*	*10*
Terphenyl-d14	*102*		*58 - 120*	*07/12/19 12:55*	*07/15/19 19:52*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0025	0.00093	mg/Kg	☼	07/12/19 14:19	07/18/19 04:00	1
PCB-1221	ND		0.0025	0.0012	mg/Kg	☼	07/12/19 14:19	07/18/19 04:00	1

Client Sample ID: BH2-10-S
Lab Sample ID: 580-87377-23
Date Collected: 07/01/19 18:12
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 74.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		0.0025	0.0012	mg/Kg	☼	07/12/19 14:19	07/18/19 04:00	1
PCB-1242	ND		0.0025	0.00062	mg/Kg	☼	07/12/19 14:19	07/18/19 04:00	1
PCB-1248	ND		0.0025	0.00045	mg/Kg	☼	07/12/19 14:19	07/18/19 04:00	1
PCB-1254	ND		0.0025	0.0010	mg/Kg	☼	07/12/19 14:19	07/23/19 20:40	1
PCB-1260	ND		0.0025	0.00097	mg/Kg	☼	07/12/19 14:19	07/18/19 04:00	1
Polychlorinated biphenyls, Total	ND		0.0025	0.00092	mg/Kg	☼	07/12/19 14:19	07/18/19 04:00	1
PCB-1262	ND		0.0025	0.00059	mg/Kg	☼	07/12/19 14:19	07/23/19 20:40	1
PCB-1268	ND		0.0025	0.00062	mg/Kg	☼	07/12/19 14:19	07/23/19 20:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*70*		*39 - 142*	*07/12/19 14:19*	*07/18/19 04:00*	*1*
Tetrachloro-m-xylene	*54*		*35 - 129*	*07/12/19 14:19*	*07/18/19 04:00*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**3.8**	**B**	0.20	0.040	mg/Kg	☼	07/09/19 12:48	07/16/19 00:28	5
Cadmium	**0.16**		0.16	0.031	mg/Kg	☼	07/09/19 12:48	07/16/19 00:28	5
Chromium	**8.9**	**B**	0.20	0.025	mg/Kg	☼	07/09/19 12:48	07/16/19 00:28	5
Copper	**7.9**		0.40	0.088	mg/Kg	☼	07/09/19 12:48	07/16/19 00:28	5
Lead	**14**	**B**	0.20	0.019	mg/Kg	☼	07/09/19 12:48	07/16/19 00:28	5
Nickel	**7.3**		0.20	0.077	mg/Kg	☼	07/09/19 12:48	07/16/19 00:28	5
Selenium	**0.26**	**J**	0.40	0.11	mg/Kg	☼	07/09/19 12:48	07/16/19 00:28	5
Silver	**0.037**	**J**	0.080	0.0080	mg/Kg	☼	07/09/19 12:48	07/16/19 00:28	5
Zinc	**21**		2.0	0.65	mg/Kg	☼	07/09/19 12:48	07/16/19 00:28	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.019**	**J**	0.037	0.011	mg/Kg	☼	07/12/19 10:09	07/12/19 16:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	**11000**		2000	44	mg/Kg			07/15/19 19:51	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**74.1**		0.1	0.1	%			07/09/19 09:28	1
Percent Moisture	**25.9**		0.1	0.1	%			07/09/19 09:28	1
Total Solids	**74.1**		0.1	0.1	%			07/09/19 09:28	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		170	13	mg/Kg	☼		07/08/19 11:00	1

Method: PSEP Plumb 1981 - Grain Size (PSEP Plumb 1981)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Clay	**2.3**				%			07/09/19 16:28	1
Sand	**89**				%			07/09/19 16:28	1
Silt	**8.7**				%			07/09/19 16:28	1
Gravel	**0.00**				%			07/09/19 16:28	1
Cobbles	**0.00**				%			07/09/19 16:28	1

Client Sample ID: BH2-11-S
Date Collected: 07/01/19 18:24
Date Received: 07/03/19 08:15

Lab Sample ID: 580-87377-24
Matrix: Solid
Percent Solids: 32.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		290	35	ug/Kg	☼	07/26/19 10:00	07/29/19 17:01	20
1,2-Dichlorobenzene	ND		290	69	ug/Kg	☼	07/26/19 10:00	07/29/19 17:01	20
1,4-Dichlorobenzene	ND		290	48	ug/Kg	☼	07/26/19 10:00	07/29/19 17:01	20
2,4-Dimethylphenol	ND	*	580	86	ug/Kg	☼	07/26/19 10:00	07/29/19 17:01	20
2-Methylnaphthalene	ND		290	51	ug/Kg	☼	07/26/19 10:00	07/29/19 17:01	20
2-Methylphenol	ND		860	56	ug/Kg	☼	07/26/19 10:00	07/29/19 17:01	20
3 & 4 Methylphenol	ND		1200	86	ug/Kg	☼	07/26/19 10:00	07/29/19 17:01	20
Acenaphthene	**56**	**J**	140	29	ug/Kg	☼	07/26/19 10:00	07/29/19 17:01	20
Acenaphthylene	**47**	**J**	140	29	ug/Kg	☼	07/26/19 10:00	07/29/19 17:01	20
Anthracene	**180**		140	29	ug/Kg	☼	07/26/19 10:00	07/29/19 17:01	20
Benzo[a]anthracene	**440**		140	29	ug/Kg	☼	07/26/19 10:00	07/29/19 17:01	20
Benzo[a]pyrene	**420**		350	75	ug/Kg	☼	07/26/19 10:00	07/29/19 17:01	20
Benzo[g,h,i]perylene	**110**	**J**	350	52	ug/Kg	☼	07/26/19 10:00	07/29/19 17:01	20
Benzofluoranthene	**250**	**J**	860	81	ug/Kg	☼	07/26/19 10:00	07/29/19 17:01	20
Benzoic acid	ND		12000	3300	ug/Kg	☼	07/26/19 10:00	07/29/19 17:01	20
Benzyl alcohol	ND		2900	440	ug/Kg	☼	07/26/19 10:00	07/29/19 17:01	20
Bis(2-ethylhexyl) phthalate	ND		3500	410	ug/Kg	☼	07/26/19 10:00	07/29/19 17:01	20
Butyl benzyl phthalate	ND		1200	290	ug/Kg	☼	07/26/19 10:00	07/29/19 17:01	20
Carbazole	ND	*	860	47	ug/Kg	☼	07/26/19 10:00	07/29/19 17:01	20
Chrysene	**420**		350	75	ug/Kg	☼	07/26/19 10:00	07/29/19 17:01	20
Dibenz(a,h)anthracene	**83**	**J**	290	69	ug/Kg	☼	07/26/19 10:00	07/29/19 17:01	20
Dibenzofuran	ND		860	34	ug/Kg	☼	07/26/19 10:00	07/29/19 17:01	20
Diethyl phthalate	ND		8600	440	ug/Kg	☼	07/26/19 10:00	07/29/19 17:01	20
Dimethyl phthalate	ND		860	75	ug/Kg	☼	07/26/19 10:00	07/29/19 17:01	20
Di-n-butyl phthalate	ND		2900	330	ug/Kg	☼	07/26/19 10:00	07/29/19 17:01	20
Di-n-octyl phthalate	**380**	**J B**	860	330	ug/Kg	☼	07/26/19 10:00	07/29/19 17:01	20
Fluoranthene	**1000**	**B**	140	29	ug/Kg	☼	07/26/19 10:00	07/29/19 17:01	20
Fluorene	**73**	**J**	140	29	ug/Kg	☼	07/26/19 10:00	07/29/19 17:01	20
Hexachlorobenzene	ND		290	86	ug/Kg	☼	07/26/19 10:00	07/29/19 17:01	20
Hexachlorobutadiene	ND		290	86	ug/Kg	☼	07/26/19 10:00	07/29/19 17:01	20
Indeno[1,2,3-cd]pyrene	**320**		230	29	ug/Kg	☼	07/26/19 10:00	07/29/19 17:01	20
Naphthalene	**66**	**J**	140	29	ug/Kg	☼	07/26/19 10:00	07/29/19 17:01	20
N-Nitrosodiphenylamine	ND		350	46	ug/Kg	☼	07/26/19 10:00	07/29/19 17:01	20
Pentachlorophenol	ND		2600	760	ug/Kg	☼	07/26/19 10:00	07/29/19 17:01	20
Phenanthrene	**680**		350	69	ug/Kg	☼	07/26/19 10:00	07/29/19 17:01	20
Phenol	ND		860	130	ug/Kg	☼	07/26/19 10:00	07/29/19 17:01	20
Pyrene	**1100**		350	37	ug/Kg	☼	07/26/19 10:00	07/29/19 17:01	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*212*	*X*	*52 - 125*	*07/26/19 10:00*	*07/29/19 17:01*	*20*
2-Fluorobiphenyl	*74*		*57 - 120*	*07/26/19 10:00*	*07/29/19 17:01*	*20*
2-Fluorophenol	*82*		*60 - 125*	*07/26/19 10:00*	*07/29/19 17:01*	*20*
Nitrobenzene-d5	*71*		*62 - 120*	*07/26/19 10:00*	*07/29/19 17:01*	*20*
Phenol-d5	*77*		*59 - 120*	*07/26/19 10:00*	*07/29/19 17:01*	*20*
Terphenyl-d14	*110*		*58 - 120*	*07/26/19 10:00*	*07/29/19 17:01*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0056	0.0021	mg/Kg	☼	07/12/19 12:21	07/21/19 04:28	1
PCB-1221	ND		0.0056	0.0027	mg/Kg	☼	07/12/19 12:21	07/21/19 04:28	1

Client Sample ID: BH2-11-S

Date Collected: 07/01/19 18:24
Date Received: 07/03/19 08:15

Lab Sample ID: 580-87377-24

Matrix: Solid
Percent Solids: 32.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		0.0056	0.0027	mg/Kg	☼	07/12/19 12:21	07/21/19 04:28	1
PCB-1242	ND		0.0056	0.0014	mg/Kg	☼	07/12/19 12:21	07/21/19 04:28	1
PCB-1248	ND		0.0056	0.0010	mg/Kg	☼	07/12/19 12:21	07/21/19 04:28	1
PCB-1254	ND		0.0056	0.0022	mg/Kg	☼	07/12/19 12:21	07/21/19 04:28	1
PCB-1260	ND		0.0056	0.0022	mg/Kg	☼	07/12/19 12:21	07/21/19 04:28	1
Polychlorinated biphenyls, Total	ND		0.0056	0.0021	mg/Kg	☼	07/12/19 12:21	07/21/19 04:28	1
PCB-1262	ND		0.0056	0.0013	mg/Kg	☼	07/12/19 12:21	07/21/19 04:28	1
PCB-1268	ND		0.0056	0.0014	mg/Kg	☼	07/12/19 12:21	07/21/19 04:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*54*		*39 - 142*	*07/12/19 12:21*	*07/21/19 04:28*	*1*
Tetrachloro-m-xylene	*55*		*35 - 129*	*07/12/19 12:21*	*07/21/19 04:28*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**15**		0.49	0.099	mg/Kg	☼	07/11/19 13:20	07/16/19 20:47	5
Cadmium	**1.4**		0.39	0.076	mg/Kg	☼	07/11/19 13:20	07/16/19 20:47	5
Chromium	**19**		0.49	0.062	mg/Kg	☼	07/11/19 13:20	07/16/19 20:47	5
Copper	**56**		0.99	0.22	mg/Kg	☼	07/11/19 13:20	07/16/19 20:47	5
Lead	**120**		0.49	0.047	mg/Kg	☼	07/11/19 13:20	07/16/19 20:47	5
Nickel	**15**		0.49	0.19	mg/Kg	☼	07/11/19 13:20	07/16/19 20:47	5
Selenium	**1.8**		0.99	0.28	mg/Kg	☼	07/11/19 13:20	07/16/19 20:47	5
Silver	**0.28**		0.20	0.020	mg/Kg	☼	07/11/19 13:20	07/16/19 20:47	5
Zinc	**140**		4.9	1.6	mg/Kg	☼	07/11/19 13:20	07/16/19 20:47	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.10**		0.070	0.021	mg/Kg	☼	07/12/19 11:43	07/12/19 17:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	**130000**		2000	44	mg/Kg			07/15/19 20:07	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**32.2**		0.1	0.1	%			07/09/19 09:24	1
Percent Moisture	**67.8**		0.1	0.1	%			07/09/19 09:24	1
Total Solids	**32.2**		0.1	0.1	%			07/09/19 09:24	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**52**	**J**	340	27	mg/Kg	☼		07/08/19 13:17	1

Method: PSEP Plumb 1981 - Grain Size (PSEP Plumb 1981)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Clay	**7.1**				%			07/09/19 16:28	1
Sand	**57**				%			07/09/19 16:28	1
Silt	**36**				%			07/09/19 16:28	1
Gravel	**0.70**				%			07/09/19 16:28	1
Cobbles	**0.00**				%			07/09/19 16:28	1

Client Sample ID: BH2-13-S
Date Collected: 07/01/19 18:41
Date Received: 07/03/19 08:15

Lab Sample ID: 580-87377-25
Matrix: Solid
Percent Solids: 34.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		290	35	ug/Kg	☼	07/26/19 10:00	07/29/19 17:25	20
1,2-Dichlorobenzene	ND		290	70	ug/Kg	☼	07/26/19 10:00	07/29/19 17:25	20
1,4-Dichlorobenzene	ND		290	48	ug/Kg	☼	07/26/19 10:00	07/29/19 17:25	20
2,4-Dimethylphenol	ND	*	580	87	ug/Kg	☼	07/26/19 10:00	07/29/19 17:25	20
2-Methylnaphthalene	**130**	**J**	290	51	ug/Kg	☼	07/26/19 10:00	07/29/19 17:25	20
2-Methylphenol	ND		870	57	ug/Kg	☼	07/26/19 10:00	07/29/19 17:25	20
3 & 4 Methylphenol	ND		1200	87	ug/Kg	☼	07/26/19 10:00	07/29/19 17:25	20
Acenaphthene	**430**		150	29	ug/Kg	☼	07/26/19 10:00	07/29/19 17:25	20
Acenaphthylene	**110**	**J**	150	29	ug/Kg	☼	07/26/19 10:00	07/29/19 17:25	20
Anthracene	**870**		150	29	ug/Kg	☼	07/26/19 10:00	07/29/19 17:25	20
Benzo[a]anthracene	**1600**		150	29	ug/Kg	☼	07/26/19 10:00	07/29/19 17:25	20
Benzo[a]pyrene	**1400**		350	76	ug/Kg	☼	07/26/19 10:00	07/29/19 17:25	20
Benzo[g,h,i]perylene	**780**		350	52	ug/Kg	☼	07/26/19 10:00	07/29/19 17:25	20
Benzofluoranthene	**530**	**J**	870	81	ug/Kg	☼	07/26/19 10:00	07/29/19 17:25	20
Benzoic acid	ND		12000	3400	ug/Kg	☼	07/26/19 10:00	07/29/19 17:25	20
Benzyl alcohol	ND		2900	450	ug/Kg	☼	07/26/19 10:00	07/29/19 17:25	20
Bis(2-ethylhexyl) phthalate	ND		3500	410	ug/Kg	☼	07/26/19 10:00	07/29/19 17:25	20
Butyl benzyl phthalate	ND		1200	300	ug/Kg	☼	07/26/19 10:00	07/29/19 17:25	20
Carbazole	ND	*	870	48	ug/Kg	☼	07/26/19 10:00	07/29/19 17:25	20
Chrysene	**1600**		350	76	ug/Kg	☼	07/26/19 10:00	07/29/19 17:25	20
Dibenz(a,h)anthracene	**200**	**J**	290	70	ug/Kg	☼	07/26/19 10:00	07/29/19 17:25	20
Dibenzofuran	**240**	**J**	870	34	ug/Kg	☼	07/26/19 10:00	07/29/19 17:25	20
Diethyl phthalate	ND		8700	440	ug/Kg	☼	07/26/19 10:00	07/29/19 17:25	20
Dimethyl phthalate	ND		870	76	ug/Kg	☼	07/26/19 10:00	07/29/19 17:25	20
Di-n-butyl phthalate	ND		2900	330	ug/Kg	☼	07/26/19 10:00	07/29/19 17:25	20
Di-n-octyl phthalate	ND		870	330	ug/Kg	☼	07/26/19 10:00	07/29/19 17:25	20
Fluoranthene	**3800**	**B**	150	29	ug/Kg	☼	07/26/19 10:00	07/29/19 17:25	20
Fluorene	**490**		150	29	ug/Kg	☼	07/26/19 10:00	07/29/19 17:25	20
Hexachlorobenzene	ND		290	87	ug/Kg	☼	07/26/19 10:00	07/29/19 17:25	20
Hexachlorobutadiene	ND		290	87	ug/Kg	☼	07/26/19 10:00	07/29/19 17:25	20
Indeno[1,2,3-cd]pyrene	**860**		230	29	ug/Kg	☼	07/26/19 10:00	07/29/19 17:25	20
Naphthalene	**330**		150	29	ug/Kg	☼	07/26/19 10:00	07/29/19 17:25	20
N-Nitrosodiphenylamine	ND		350	46	ug/Kg	☼	07/26/19 10:00	07/29/19 17:25	20
Pentachlorophenol	ND		2600	770	ug/Kg	☼	07/26/19 10:00	07/29/19 17:25	20
Phenanthrene	**4100**		350	70	ug/Kg	☼	07/26/19 10:00	07/29/19 17:25	20
Phenol	ND		870	130	ug/Kg	☼	07/26/19 10:00	07/29/19 17:25	20
Pyrene	**4200**		350	37	ug/Kg	☼	07/26/19 10:00	07/29/19 17:25	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*195*	*X*	*52 - 125*	*07/26/19 10:00*	*07/29/19 17:25*	*20*
2-Fluorobiphenyl	*73*		*57 - 120*	*07/26/19 10:00*	*07/29/19 17:25*	*20*
2-Fluorophenol	*85*		*60 - 125*	*07/26/19 10:00*	*07/29/19 17:25*	*20*
Nitrobenzene-d5	*70*		*62 - 120*	*07/26/19 10:00*	*07/29/19 17:25*	*20*
Phenol-d5	*76*		*59 - 120*	*07/26/19 10:00*	*07/29/19 17:25*	*20*
Terphenyl-d14	*97*		*58 - 120*	*07/26/19 10:00*	*07/29/19 17:25*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0053	0.0020	mg/Kg	☼	07/12/19 12:21	07/21/19 04:46	1
PCB-1221	ND		0.0053	0.0025	mg/Kg	☼	07/12/19 12:21	07/21/19 04:46	1

Client Sample ID: BH2-13-S **Lab Sample ID: 580-87377-25**
Date Collected: 07/01/19 18:41 **Matrix: Solid**
Date Received: 07/03/19 08:15 **Percent Solids: 34.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		0.0053	0.0025	mg/Kg	☼	07/12/19 12:21	07/21/19 04:46	1
PCB-1242	ND		0.0053	0.0013	mg/Kg	☼	07/12/19 12:21	07/21/19 04:46	1
PCB-1248	ND		0.0053	0.00096	mg/Kg	☼	07/12/19 12:21	07/21/19 04:46	1
PCB-1254	**0.0030**	**J**	0.0053	0.0021	mg/Kg	☼	07/12/19 12:21	07/21/19 04:46	1
PCB-1260	ND		0.0053	0.0020	mg/Kg	☼	07/12/19 12:21	07/21/19 04:46	1
Polychlorinated biphenyls, Total	**0.0030**	**J**	0.0053	0.0019	mg/Kg	☼	07/12/19 12:21	07/21/19 04:46	1
PCB-1262	ND		0.0053	0.0012	mg/Kg	☼	07/12/19 12:21	07/21/19 04:46	1
PCB-1268	ND		0.0053	0.0013	mg/Kg	☼	07/12/19 12:21	07/21/19 04:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*56*		*39 - 142*	*07/12/19 12:21*	*07/21/19 04:46*	*1*
Tetrachloro-m-xylene	*55*		*35 - 129*	*07/12/19 12:21*	*07/21/19 04:46*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**16**		0.45	0.091	mg/Kg	☼	07/11/19 13:20	07/16/19 20:51	5
Cadmium	**1.7**		0.36	0.070	mg/Kg	☼	07/11/19 13:20	07/16/19 20:51	5
Chromium	**21**		0.45	0.057	mg/Kg	☼	07/11/19 13:20	07/16/19 20:51	5
Copper	**58**		0.91	0.20	mg/Kg	☼	07/11/19 13:20	07/16/19 20:51	5
Lead	**110**		0.45	0.044	mg/Kg	☼	07/11/19 13:20	07/16/19 20:51	5
Nickel	**14**		0.45	0.18	mg/Kg	☼	07/11/19 13:20	07/16/19 20:51	5
Selenium	**1.9**		0.91	0.26	mg/Kg	☼	07/11/19 13:20	07/16/19 20:51	5
Silver	**0.22**		0.18	0.018	mg/Kg	☼	07/11/19 13:20	07/16/19 20:51	5
Zinc	**82**		4.5	1.5	mg/Kg	☼	07/11/19 13:20	07/16/19 20:51	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.18**		0.072	0.022	mg/Kg	☼	07/12/19 11:43	07/12/19 17:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	**150000**		2000	44	mg/Kg			07/15/19 20:11	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**34.2**		0.1	0.1	%			07/09/19 09:24	1
Percent Moisture	**65.8**		0.1	0.1	%			07/09/19 09:24	1
Total Solids	**34.2**		0.1	0.1	%			07/09/19 09:24	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		340	27	mg/Kg	☼		07/08/19 13:17	1

Method: PSEP Plumb 1981 - Grain Size (PSEP Plumb 1981)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Clay	**6.3**				%			07/09/19 16:28	1
Sand	**56**				%			07/09/19 16:28	1
Silt	**37**				%			07/09/19 16:28	1
Gravel	**0.70**				%			07/09/19 16:28	1
Cobbles	**0.00**				%			07/09/19 16:28	1

Client Sample ID: BH2-15-S
Date Collected: 07/01/19 18:54
Date Received: 07/03/19 08:15

Lab Sample ID: 580-87377-26
Matrix: Solid
Percent Solids: 64.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		140	17	ug/Kg	☼	07/26/19 10:00	07/29/19 17:49	20
1,2-Dichlorobenzene	ND		140	34	ug/Kg	☼	07/26/19 10:00	07/29/19 17:49	20
1,4-Dichlorobenzene	ND		140	24	ug/Kg	☼	07/26/19 10:00	07/29/19 17:49	20
2,4-Dimethylphenol	ND	*	280	43	ug/Kg	☼	07/26/19 10:00	07/29/19 17:49	20
2-Methylnaphthalene	ND		140	25	ug/Kg	☼	07/26/19 10:00	07/29/19 17:49	20
2-Methylphenol	ND		430	28	ug/Kg	☼	07/26/19 10:00	07/29/19 17:49	20
3 & 4 Methylphenol	ND		570	43	ug/Kg	☼	07/26/19 10:00	07/29/19 17:49	20
Acenaphthene	**25**	**J**	71	14	ug/Kg	☼	07/26/19 10:00	07/29/19 17:49	20
Acenaphthylene	**21**	**J**	71	14	ug/Kg	☼	07/26/19 10:00	07/29/19 17:49	20
Anthracene	**89**		71	14	ug/Kg	☼	07/26/19 10:00	07/29/19 17:49	20
Benzo[a]anthracene	**160**		71	14	ug/Kg	☼	07/26/19 10:00	07/29/19 17:49	20
Benzo[a]pyrene	**130**	**J**	170	37	ug/Kg	☼	07/26/19 10:00	07/29/19 17:49	20
Benzo[g,h,i]perylene	**81**	**J**	170	26	ug/Kg	☼	07/26/19 10:00	07/29/19 17:49	20
Benzofluoranthene	**66**	**J**	430	40	ug/Kg	☼	07/26/19 10:00	07/29/19 17:49	20
Benzoic acid	ND		5700	1600	ug/Kg	☼	07/26/19 10:00	07/29/19 17:49	20
Benzyl alcohol	ND		1400	220	ug/Kg	☼	07/26/19 10:00	07/29/19 17:49	20
Bis(2-ethylhexyl) phthalate	ND		1700	200	ug/Kg	☼	07/26/19 10:00	07/29/19 17:49	20
Butyl benzyl phthalate	ND		570	140	ug/Kg	☼	07/26/19 10:00	07/29/19 17:49	20
Carbazole	ND	*	430	23	ug/Kg	☼	07/26/19 10:00	07/29/19 17:49	20
Chrysene	**180**		170	37	ug/Kg	☼	07/26/19 10:00	07/29/19 17:49	20
Dibenz(a,h)anthracene	ND		140	34	ug/Kg	☼	07/26/19 10:00	07/29/19 17:49	20
Dibenzofuran	ND		430	17	ug/Kg	☼	07/26/19 10:00	07/29/19 17:49	20
Diethyl phthalate	ND		4300	220	ug/Kg	☼	07/26/19 10:00	07/29/19 17:49	20
Dimethyl phthalate	ND		430	37	ug/Kg	☼	07/26/19 10:00	07/29/19 17:49	20
Di-n-butyl phthalate	ND		1400	160	ug/Kg	☼	07/26/19 10:00	07/29/19 17:49	20
Di-n-octyl phthalate	ND		430	160	ug/Kg	☼	07/26/19 10:00	07/29/19 17:49	20
Fluoranthene	**360**	**B**	71	14	ug/Kg	☼	07/26/19 10:00	07/29/19 17:49	20
Fluorene	**42**	**J**	71	14	ug/Kg	☼	07/26/19 10:00	07/29/19 17:49	20
Hexachlorobenzene	ND		140	43	ug/Kg	☼	07/26/19 10:00	07/29/19 17:49	20
Hexachlorobutadiene	ND		140	43	ug/Kg	☼	07/26/19 10:00	07/29/19 17:49	20
Indeno[1,2,3-cd]pyrene	**120**		110	14	ug/Kg	☼	07/26/19 10:00	07/29/19 17:49	20
Naphthalene	**48**	**J**	71	14	ug/Kg	☼	07/26/19 10:00	07/29/19 17:49	20
N-Nitrosodiphenylamine	ND		170	23	ug/Kg	☼	07/26/19 10:00	07/29/19 17:49	20
Pentachlorophenol	ND		1300	370	ug/Kg	☼	07/26/19 10:00	07/29/19 17:49	20
Phenanthrene	**260**		170	34	ug/Kg	☼	07/26/19 10:00	07/29/19 17:49	20
Phenol	ND		430	65	ug/Kg	☼	07/26/19 10:00	07/29/19 17:49	20
Pyrene	**420**		170	18	ug/Kg	☼	07/26/19 10:00	07/29/19 17:49	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*219*	*X*	*52 - 125*	*07/26/19 10:00*	*07/29/19 17:49*	*20*
2-Fluorobiphenyl	*70*		*57 - 120*	*07/26/19 10:00*	*07/29/19 17:49*	*20*
2-Fluorophenol	*85*		*60 - 125*	*07/26/19 10:00*	*07/29/19 17:49*	*20*
Nitrobenzene-d5	*72*		*62 - 120*	*07/26/19 10:00*	*07/29/19 17:49*	*20*
Phenol-d5	*88*		*59 - 120*	*07/26/19 10:00*	*07/29/19 17:49*	*20*
Terphenyl-d14	*121*	*X*	*58 - 120*	*07/26/19 10:00*	*07/29/19 17:49*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0026	0.00098	mg/Kg	☼	07/12/19 12:21	07/21/19 05:04	1
PCB-1221	ND		0.0026	0.0013	mg/Kg	☼	07/12/19 12:21	07/21/19 05:04	1

Client Sample ID: BH2-15-S **Lab Sample ID: 580-87377-26**
Date Collected: 07/01/19 18:54 **Matrix: Solid**
Date Received: 07/03/19 08:15 **Percent Solids: 64.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		0.0026	0.0013	mg/Kg	☼	07/12/19 12:21	07/21/19 05:04	1
PCB-1242	ND		0.0026	0.00065	mg/Kg	☼	07/12/19 12:21	07/21/19 05:04	1
PCB-1248	ND		0.0026	0.00047	mg/Kg	☼	07/12/19 12:21	07/21/19 05:04	1
PCB-1254	**0.0010**	**J p**	0.0026	0.0010	mg/Kg	☼	07/12/19 12:21	07/21/19 05:04	1
PCB-1260	ND		0.0026	0.0010	mg/Kg	☼	07/12/19 12:21	07/21/19 05:04	1
Polychlorinated biphenyls, Total	**0.0010**	**J**	0.0026	0.00096	mg/Kg	☼	07/12/19 12:21	07/21/19 05:04	1
PCB-1262	ND		0.0026	0.00062	mg/Kg	☼	07/12/19 12:21	07/21/19 05:04	1
PCB-1268	ND		0.0026	0.00065	mg/Kg	☼	07/12/19 12:21	07/21/19 05:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*61*		*39 - 142*	*07/12/19 12:21*	*07/21/19 05:04*	*1*
Tetrachloro-m-xylene	*64*		*35 - 129*	*07/12/19 12:21*	*07/21/19 05:04*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**13**		0.24	0.047	mg/Kg	☼	07/11/19 13:20	07/16/19 20:55	5
Cadmium	**0.79**		0.19	0.036	mg/Kg	☼	07/11/19 13:20	07/16/19 20:55	5
Chromium	**10**		0.24	0.030	mg/Kg	☼	07/11/19 13:20	07/16/19 20:55	5
Copper	**11**		0.47	0.10	mg/Kg	☼	07/11/19 13:20	07/16/19 20:55	5
Lead	**20**		0.24	0.023	mg/Kg	☼	07/11/19 13:20	07/16/19 20:55	5
Nickel	**10**		0.24	0.091	mg/Kg	☼	07/11/19 13:20	07/16/19 20:55	5
Selenium	**1.1**		0.47	0.13	mg/Kg	☼	07/11/19 13:20	07/16/19 20:55	5
Silver	**0.060**	**J**	0.094	0.0094	mg/Kg	☼	07/11/19 13:20	07/16/19 20:55	5
Zinc	**37**		2.4	0.76	mg/Kg	☼	07/11/19 13:20	07/16/19 20:55	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.072**		0.032	0.0095	mg/Kg	☼	07/12/19 11:43	07/12/19 17:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	**32000**		2000	44	mg/Kg			07/15/19 20:16	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**64.8**		0.1	0.1	%			07/09/19 09:24	1
Percent Moisture	**35.2**		0.1	0.1	%			07/09/19 09:24	1
Total Solids	**64.8**		0.1	0.1	%			07/09/19 09:24	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		170	14	mg/Kg	☼		07/08/19 13:17	1

Method: PSEP Plumb 1981 - Grain Size (PSEP Plumb 1981)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Clay	**2.7**				%			07/09/19 16:28	1
Sand	**88**				%			07/09/19 16:28	1
Silt	**9.4**				%			07/09/19 16:28	1
Gravel	**0.10**				%			07/09/19 16:28	1
Cobbles	**0.00**				%			07/09/19 16:28	1

Client Sample ID: BH2-12-S **Lab Sample ID: 580-87377-27**
Date Collected: 07/02/19 10:23 **Matrix: Solid**
Date Received: 07/03/19 08:15 **Percent Solids: 34.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		260	32	ug/Kg	☼	07/26/19 10:00	07/29/19 18:12	20
1,2-Dichlorobenzene	ND		260	63	ug/Kg	☼	07/26/19 10:00	07/29/19 18:12	20
1,4-Dichlorobenzene	ND		260	44	ug/Kg	☼	07/26/19 10:00	07/29/19 18:12	20
2,4-Dimethylphenol	ND	*	530	79	ug/Kg	☼	07/26/19 10:00	07/29/19 18:12	20
2-Methylnaphthalene	ND		260	46	ug/Kg	☼	07/26/19 10:00	07/29/19 18:12	20
2-Methylphenol	ND		790	51	ug/Kg	☼	07/26/19 10:00	07/29/19 18:12	20
3 & 4 Methylphenol	ND		1100	79	ug/Kg	☼	07/26/19 10:00	07/29/19 18:12	20
Acenaphthene	**62**	**J**	130	26	ug/Kg	☼	07/26/19 10:00	07/29/19 18:12	20
Acenaphthylene	**64**	**J**	130	26	ug/Kg	☼	07/26/19 10:00	07/29/19 18:12	20
Anthracene	**230**		130	26	ug/Kg	☼	07/26/19 10:00	07/29/19 18:12	20
Benzo[a]anthracene	**540**		130	26	ug/Kg	☼	07/26/19 10:00	07/29/19 18:12	20
Benzo[a]pyrene	**430**		320	68	ug/Kg	☼	07/26/19 10:00	07/29/19 18:12	20
Benzo[g,h,i]perylene	**220**	**J**	320	47	ug/Kg	☼	07/26/19 10:00	07/29/19 18:12	20
Benzofluoranthene	**190**	**J**	790	74	ug/Kg	☼	07/26/19 10:00	07/29/19 18:12	20
Benzoic acid	ND		11000	3000	ug/Kg	☼	07/26/19 10:00	07/29/19 18:12	20
Benzyl alcohol	ND		2600	400	ug/Kg	☼	07/26/19 10:00	07/29/19 18:12	20
Bis(2-ethylhexyl) phthalate	ND		3200	370	ug/Kg	☼	07/26/19 10:00	07/29/19 18:12	20
Butyl benzyl phthalate	ND		1100	270	ug/Kg	☼	07/26/19 10:00	07/29/19 18:12	20
Carbazole	ND	*	790	43	ug/Kg	☼	07/26/19 10:00	07/29/19 18:12	20
Chrysene	**530**		320	68	ug/Kg	☼	07/26/19 10:00	07/29/19 18:12	20
Dibenz(a,h)anthracene	**64**	**J**	260	63	ug/Kg	☼	07/26/19 10:00	07/29/19 18:12	20
Dibenzofuran	ND		790	31	ug/Kg	☼	07/26/19 10:00	07/29/19 18:12	20
Diethyl phthalate	ND		7900	400	ug/Kg	☼	07/26/19 10:00	07/29/19 18:12	20
Dimethyl phthalate	ND		790	68	ug/Kg	☼	07/26/19 10:00	07/29/19 18:12	20
Di-n-butyl phthalate	ND		2600	300	ug/Kg	☼	07/26/19 10:00	07/29/19 18:12	20
Di-n-octyl phthalate	**350**	**J B**	790	300	ug/Kg	☼	07/26/19 10:00	07/29/19 18:12	20
Fluoranthene	**1100**	**B**	130	26	ug/Kg	☼	07/26/19 10:00	07/29/19 18:12	20
Fluorene	**87**	**J**	130	26	ug/Kg	☼	07/26/19 10:00	07/29/19 18:12	20
Hexachlorobenzene	ND		260	79	ug/Kg	☼	07/26/19 10:00	07/29/19 18:12	20
Hexachlorobutadiene	ND		260	79	ug/Kg	☼	07/26/19 10:00	07/29/19 18:12	20
Indeno[1,2,3-cd]pyrene	**300**		210	26	ug/Kg	☼	07/26/19 10:00	07/29/19 18:12	20
Naphthalene	**42**	**J**	130	26	ug/Kg	☼	07/26/19 10:00	07/29/19 18:12	20
N-Nitrosodiphenylamine	ND		320	42	ug/Kg	☼	07/26/19 10:00	07/29/19 18:12	20
Pentachlorophenol	ND		2400	690	ug/Kg	☼	07/26/19 10:00	07/29/19 18:12	20
Phenanthrene	**830**		320	63	ug/Kg	☼	07/26/19 10:00	07/29/19 18:12	20
Phenol	ND		790	120	ug/Kg	☼	07/26/19 10:00	07/29/19 18:12	20
Pyrene	**1200**		320	34	ug/Kg	☼	07/26/19 10:00	07/29/19 18:12	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*215*	*X*	*52 - 125*	*07/26/19 10:00*	*07/29/19 18:12*	*20*
2-Fluorobiphenyl	*66*		*57 - 120*	*07/26/19 10:00*	*07/29/19 18:12*	*20*
2-Fluorophenol	*95*		*60 - 125*	*07/26/19 10:00*	*07/29/19 18:12*	*20*
Nitrobenzene-d5	*78*		*62 - 120*	*07/26/19 10:00*	*07/29/19 18:12*	*20*
Phenol-d5	*86*		*59 - 120*	*07/26/19 10:00*	*07/29/19 18:12*	*20*
Terphenyl-d14	*105*		*58 - 120*	*07/26/19 10:00*	*07/29/19 18:12*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0049	0.0018	mg/Kg	☼	07/10/19 15:09	07/20/19 20:17	1
PCB-1221	ND		0.0049	0.0023	mg/Kg	☼	07/10/19 15:09	07/20/19 20:17	1

Client Sample ID: BH2-12-S
Lab Sample ID: 580-87377-27
Date Collected: 07/02/19 10:23
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 34.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		0.0049	0.0023	mg/Kg	☼	07/10/19 15:09	07/20/19 20:17	1
PCB-1242	ND		0.0049	0.0012	mg/Kg	☼	07/10/19 15:09	07/20/19 20:17	1
PCB-1248	ND		0.0049	0.00088	mg/Kg	☼	07/10/19 15:09	07/20/19 20:17	1
PCB-1254	**0.0022**	**J**	0.0049	0.0019	mg/Kg	☼	07/10/19 15:09	07/20/19 20:17	1
PCB-1260	ND		0.0049	0.0019	mg/Kg	☼	07/10/19 15:09	07/20/19 20:17	1
Polychlorinated biphenyls, Total	**0.0022**	**J**	0.0049	0.0018	mg/Kg	☼	07/10/19 15:09	07/20/19 20:17	1
PCB-1262	ND		0.0049	0.0011	mg/Kg	☼	07/10/19 15:09	07/20/19 20:17	1
PCB-1268	ND		0.0049	0.0012	mg/Kg	☼	07/10/19 15:09	07/20/19 20:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*67*		*39 - 142*	*07/10/19 15:09*	*07/20/19 20:17*	*1*
Tetrachloro-m-xylene	*58*		*35 - 129*	*07/10/19 15:09*	*07/20/19 20:17*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**16**		0.46	0.092	mg/Kg	☼	07/11/19 13:20	07/16/19 20:59	5
Cadmium	**1.2**		0.37	0.071	mg/Kg	☼	07/11/19 13:20	07/16/19 20:59	5
Chromium	**15**		0.46	0.058	mg/Kg	☼	07/11/19 13:20	07/16/19 20:59	5
Copper	**56**		0.92	0.20	mg/Kg	☼	07/11/19 13:20	07/16/19 20:59	5
Lead	**95**		0.46	0.044	mg/Kg	☼	07/11/19 13:20	07/16/19 20:59	5
Nickel	**13**		0.46	0.18	mg/Kg	☼	07/11/19 13:20	07/16/19 20:59	5
Selenium	**1.8**		0.92	0.26	mg/Kg	☼	07/11/19 13:20	07/16/19 20:59	5
Silver	**0.14**	**J**	0.18	0.018	mg/Kg	☼	07/11/19 13:20	07/16/19 20:59	5
Zinc	**62**		4.6	1.5	mg/Kg	☼	07/11/19 13:20	07/16/19 20:59	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.080**		0.058	0.017	mg/Kg	☼	07/12/19 11:43	07/12/19 17:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	**1100**		28	16	mg/Kg	☼	07/09/19 12:34	07/09/19 16:08	1
Total Organic Carbon - Duplicates	**150000**		2000	44	mg/Kg			07/15/19 20:26	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Volatile Solids	**6.7**		0.098	0.098	%			07/09/19 15:04	1
Percent Solids	**34.5**		0.1	0.1	%			07/18/19 14:00	1
Percent Moisture	**65.5**		0.1	0.1	%			07/18/19 14:00	1
Total Solids	**34.5**		0.1	0.1	%			07/18/19 14:00	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		350	28	mg/Kg	☼		07/08/19 13:17	1

Method: PSEP Plumb 1981 - Grain Size (PSEP Plumb 1981)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Clay	**5.2**				%			07/09/19 16:28	1
Sand	**51**				%			07/09/19 16:28	1
Silt	**23**				%			07/09/19 16:28	1
Gravel	**21**				%			07/09/19 16:28	1
Cobbles	**0.00**				%			07/09/19 16:28	1

Client Sample ID: BH2-40-S **Lab Sample ID: 580-87377-28**
Date Collected: 07/02/19 12:05 **Matrix: Solid**
Date Received: 07/03/19 08:15 **Percent Solids: 70.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		67	8.0	ug/Kg	☼	07/26/19 10:00	07/29/19 18:36	10
1,2-Dichlorobenzene	ND		67	16	ug/Kg	☼	07/26/19 10:00	07/29/19 18:36	10
1,4-Dichlorobenzene	ND		67	11	ug/Kg	☼	07/26/19 10:00	07/29/19 18:36	10
2,4-Dimethylphenol	ND	*	130	20	ug/Kg	☼	07/26/19 10:00	07/29/19 18:36	10
2-Methylnaphthalene	ND		67	12	ug/Kg	☼	07/26/19 10:00	07/29/19 18:36	10
2-Methylphenol	ND		200	13	ug/Kg	☼	07/26/19 10:00	07/29/19 18:36	10
3 & 4 Methylphenol	ND		270	20	ug/Kg	☼	07/26/19 10:00	07/29/19 18:36	10
Acenaphthene	ND		33	6.7	ug/Kg	☼	07/26/19 10:00	07/29/19 18:36	10
Acenaphthylene	**7.0**	**J**	33	6.7	ug/Kg	☼	07/26/19 10:00	07/29/19 18:36	10
Anthracene	**16**	**J**	33	6.7	ug/Kg	☼	07/26/19 10:00	07/29/19 18:36	10
Benzo[a]anthracene	**38**		33	6.7	ug/Kg	☼	07/26/19 10:00	07/29/19 18:36	10
Benzo[a]pyrene	**40**	**J**	80	17	ug/Kg	☼	07/26/19 10:00	07/29/19 18:36	10
Benzo[g,h,i]perylene	**19**	**J**	80	12	ug/Kg	☼	07/26/19 10:00	07/29/19 18:36	10
Benzofluoranthene	**21**	**J**	200	19	ug/Kg	☼	07/26/19 10:00	07/29/19 18:36	10
Benzoic acid	ND		2700	770	ug/Kg	☼	07/26/19 10:00	07/29/19 18:36	10
Benzyl alcohol	ND		670	100	ug/Kg	☼	07/26/19 10:00	07/29/19 18:36	10
Bis(2-ethylhexyl) phthalate	ND		800	94	ug/Kg	☼	07/26/19 10:00	07/29/19 18:36	10
Butyl benzyl phthalate	ND		270	68	ug/Kg	☼	07/26/19 10:00	07/29/19 18:36	10
Carbazole	ND	*	200	11	ug/Kg	☼	07/26/19 10:00	07/29/19 18:36	10
Chrysene	**42**	**J**	80	17	ug/Kg	☼	07/26/19 10:00	07/29/19 18:36	10
Dibenz(a,h)anthracene	ND		67	16	ug/Kg	☼	07/26/19 10:00	07/29/19 18:36	10
Dibenzofuran	ND		200	7.8	ug/Kg	☼	07/26/19 10:00	07/29/19 18:36	10
Diethyl phthalate	ND		2000	100	ug/Kg	☼	07/26/19 10:00	07/29/19 18:36	10
Dimethyl phthalate	ND		200	17	ug/Kg	☼	07/26/19 10:00	07/29/19 18:36	10
Di-n-butyl phthalate	ND		670	76	ug/Kg	☼	07/26/19 10:00	07/29/19 18:36	10
Di-n-octyl phthalate	**87**	**J B**	200	76	ug/Kg	☼	07/26/19 10:00	07/29/19 18:36	10
Fluoranthene	**89**	**B**	33	6.7	ug/Kg	☼	07/26/19 10:00	07/29/19 18:36	10
Fluorene	**9.1**	**J**	33	6.7	ug/Kg	☼	07/26/19 10:00	07/29/19 18:36	10
Hexachlorobenzene	ND		67	20	ug/Kg	☼	07/26/19 10:00	07/29/19 18:36	10
Hexachlorobutadiene	ND		67	20	ug/Kg	☼	07/26/19 10:00	07/29/19 18:36	10
Indeno[1,2,3-cd]pyrene	**38**	**J**	53	6.7	ug/Kg	☼	07/26/19 10:00	07/29/19 18:36	10
Naphthalene	ND		33	6.7	ug/Kg	☼	07/26/19 10:00	07/29/19 18:36	10
N-Nitrosodiphenylamine	ND		80	11	ug/Kg	☼	07/26/19 10:00	07/29/19 18:36	10
Pentachlorophenol	ND		600	180	ug/Kg	☼	07/26/19 10:00	07/29/19 18:36	10
Phenanthrene	**56**	**J**	80	16	ug/Kg	☼	07/26/19 10:00	07/29/19 18:36	10
Phenol	ND		200	31	ug/Kg	☼	07/26/19 10:00	07/29/19 18:36	10
Pyrene	**98**		80	8.5	ug/Kg	☼	07/26/19 10:00	07/29/19 18:36	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*156*	*X*	*52 - 125*	*07/26/19 10:00*	*07/29/19 18:36*	*10*
2-Fluorobiphenyl	*81*		*57 - 120*	*07/26/19 10:00*	*07/29/19 18:36*	*10*
2-Fluorophenol	*96*		*60 - 125*	*07/26/19 10:00*	*07/29/19 18:36*	*10*
Nitrobenzene-d5	*82*		*62 - 120*	*07/26/19 10:00*	*07/29/19 18:36*	*10*
Phenol-d5	*89*		*59 - 120*	*07/26/19 10:00*	*07/29/19 18:36*	*10*
Terphenyl-d14	*125*	*X*	*58 - 120*	*07/26/19 10:00*	*07/29/19 18:36*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0024	0.00090	mg/Kg	☼	07/10/19 15:09	07/20/19 20:35	1
PCB-1221	ND		0.0024	0.0012	mg/Kg	☼	07/10/19 15:09	07/20/19 20:35	1

Client Sample ID: BH2-40-S

Date Collected: 07/02/19 12:05
Date Received: 07/03/19 08:15

Lab Sample ID: 580-87377-28

Matrix: Solid
Percent Solids: 70.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		0.0024	0.0012	mg/Kg	☼	07/10/19 15:09	07/20/19 20:35	1
PCB-1242	ND		0.0024	0.00060	mg/Kg	☼	07/10/19 15:09	07/20/19 20:35	1
PCB-1248	ND		0.0024	0.00044	mg/Kg	☼	07/10/19 15:09	07/20/19 20:35	1
PCB-1254	**0.0015**	**J**	0.0024	0.00096	mg/Kg	☼	07/10/19 15:09	07/20/19 20:35	1
PCB-1260	ND		0.0024	0.00094	mg/Kg	☼	07/10/19 15:09	07/20/19 20:35	1
Polychlorinated biphenyls, Total	**0.0015**	**J**	0.0024	0.00089	mg/Kg	☼	07/10/19 15:09	07/20/19 20:35	1
PCB-1262	ND		0.0024	0.00057	mg/Kg	☼	07/10/19 15:09	07/20/19 20:35	1
PCB-1268	ND		0.0024	0.00060	mg/Kg	☼	07/10/19 15:09	07/20/19 20:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*70*		*39 - 142*	*07/10/19 15:09*	*07/20/19 20:35*	*1*
Tetrachloro-m-xylene	*59*		*35 - 129*	*07/10/19 15:09*	*07/20/19 20:35*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.1**		0.22	0.045	mg/Kg	☼	07/11/19 13:20	07/16/19 21:03	5
Cadmium	**0.34**		0.18	0.035	mg/Kg	☼	07/11/19 13:20	07/16/19 21:03	5
Chromium	**16**		0.22	0.028	mg/Kg	☼	07/11/19 13:20	07/16/19 21:03	5
Copper	**12**		0.45	0.099	mg/Kg	☼	07/11/19 13:20	07/16/19 21:03	5
Lead	**14**		0.22	0.022	mg/Kg	☼	07/11/19 13:20	07/16/19 21:03	5
Nickel	**12**		0.22	0.087	mg/Kg	☼	07/11/19 13:20	07/16/19 21:03	5
Selenium	**0.83**		0.45	0.13	mg/Kg	☼	07/11/19 13:20	07/16/19 21:03	5
Silver	**0.071**	**J**	0.090	0.0090	mg/Kg	☼	07/11/19 13:20	07/16/19 21:03	5
Zinc	**31**		2.2	0.72	mg/Kg	☼	07/11/19 13:20	07/16/19 21:03	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.057**		0.030	0.0089	mg/Kg	☼	07/12/19 11:43	07/12/19 17:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		13	7.6	mg/Kg	☼	07/09/19 12:34	07/09/19 16:08	1
Total Organic Carbon - Duplicates	**7900**		2000	44	mg/Kg			07/15/19 20:46	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Volatile Solids	**1.4**		0.097	0.097	%			07/09/19 15:04	1
Percent Solids	**70.8**		0.1	0.1	%			07/18/19 14:00	1
Percent Moisture	**29.2**		0.1	0.1	%			07/18/19 14:00	1
Total Solids	**70.8**		0.1	0.1	%			07/18/19 14:00	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		150	12	mg/Kg	☼		07/08/19 13:17	1

Method: PSEP Plumb 1981 - Grain Size (PSEP Plumb 1981)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Clay	**3.4**				%			07/09/19 16:28	1
Sand	**73**				%			07/09/19 16:28	1
Silt	**24**				%			07/09/19 16:28	1
Gravel	**0.00**				%			07/09/19 16:28	1
Cobbles	**0.00**				%			07/09/19 16:28	1

Client Sample ID: BH2-39-S
Date Collected: 07/02/19 12:18
Date Received: 07/03/19 08:15

Lab Sample ID: 580-87377-29
Matrix: Solid
Percent Solids: 69.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		130	16	ug/Kg	☼	07/26/19 10:00	07/29/19 19:00	20
1,2-Dichlorobenzene	ND		130	32	ug/Kg	☼	07/26/19 10:00	07/29/19 19:00	20
1,4-Dichlorobenzene	ND		130	22	ug/Kg	☼	07/26/19 10:00	07/29/19 19:00	20
2,4-Dimethylphenol	ND	*	270	40	ug/Kg	☼	07/26/19 10:00	07/29/19 19:00	20
2-Methylnaphthalene	ND		130	24	ug/Kg	☼	07/26/19 10:00	07/29/19 19:00	20
2-Methylphenol	ND		400	26	ug/Kg	☼	07/26/19 10:00	07/29/19 19:00	20
3 & 4 Methylphenol	**160**	**J**	540	40	ug/Kg	☼	07/26/19 10:00	07/29/19 19:00	20
Acenaphthene	ND		67	13	ug/Kg	☼	07/26/19 10:00	07/29/19 19:00	20
Acenaphthylene	ND		67	13	ug/Kg	☼	07/26/19 10:00	07/29/19 19:00	20
Anthracene	**21**	**J**	67	13	ug/Kg	☼	07/26/19 10:00	07/29/19 19:00	20
Benzo[a]anthracene	**40**	**J**	67	13	ug/Kg	☼	07/26/19 10:00	07/29/19 19:00	20
Benzo[a]pyrene	**45**	**J**	160	35	ug/Kg	☼	07/26/19 10:00	07/29/19 19:00	20
Benzo[g,h,i]perylene	**24**	**J**	160	24	ug/Kg	☼	07/26/19 10:00	07/29/19 19:00	20
Benzofluoranthene	ND		400	38	ug/Kg	☼	07/26/19 10:00	07/29/19 19:00	20
Benzoic acid	ND		5400	1600	ug/Kg	☼	07/26/19 10:00	07/29/19 19:00	20
Benzyl alcohol	ND		1300	210	ug/Kg	☼	07/26/19 10:00	07/29/19 19:00	20
Bis(2-ethylhexyl) phthalate	ND		1600	190	ug/Kg	☼	07/26/19 10:00	07/29/19 19:00	20
Butyl benzyl phthalate	ND		540	140	ug/Kg	☼	07/26/19 10:00	07/29/19 19:00	20
Carbazole	ND	*	400	22	ug/Kg	☼	07/26/19 10:00	07/29/19 19:00	20
Chrysene	**38**	**J**	160	35	ug/Kg	☼	07/26/19 10:00	07/29/19 19:00	20
Dibenz(a,h)anthracene	ND		130	32	ug/Kg	☼	07/26/19 10:00	07/29/19 19:00	20
Dibenzofuran	ND		400	16	ug/Kg	☼	07/26/19 10:00	07/29/19 19:00	20
Diethyl phthalate	ND		4000	200	ug/Kg	☼	07/26/19 10:00	07/29/19 19:00	20
Dimethyl phthalate	ND		400	35	ug/Kg	☼	07/26/19 10:00	07/29/19 19:00	20
Di-n-butyl phthalate	ND		1300	150	ug/Kg	☼	07/26/19 10:00	07/29/19 19:00	20
Di-n-octyl phthalate	ND		400	150	ug/Kg	☼	07/26/19 10:00	07/29/19 19:00	20
Fluoranthene	**92**	**B**	67	13	ug/Kg	☼	07/26/19 10:00	07/29/19 19:00	20
Fluorene	ND		67	13	ug/Kg	☼	07/26/19 10:00	07/29/19 19:00	20
Hexachlorobenzene	ND		130	40	ug/Kg	☼	07/26/19 10:00	07/29/19 19:00	20
Hexachlorobutadiene	ND		130	40	ug/Kg	☼	07/26/19 10:00	07/29/19 19:00	20
Indeno[1,2,3-cd]pyrene	**47**	**J**	110	13	ug/Kg	☼	07/26/19 10:00	07/29/19 19:00	20
Naphthalene	ND		67	13	ug/Kg	☼	07/26/19 10:00	07/29/19 19:00	20
N-Nitrosodiphenylamine	ND		160	22	ug/Kg	☼	07/26/19 10:00	07/29/19 19:00	20
Pentachlorophenol	ND		1200	350	ug/Kg	☼	07/26/19 10:00	07/29/19 19:00	20
Phenanthrene	**55**	**J**	160	32	ug/Kg	☼	07/26/19 10:00	07/29/19 19:00	20
Phenol	**250**	**J**	400	62	ug/Kg	☼	07/26/19 10:00	07/29/19 19:00	20
Pyrene	**97**	**J**	160	17	ug/Kg	☼	07/26/19 10:00	07/29/19 19:00	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*220*	*X*	*52 - 125*	*07/26/19 10:00*	*07/29/19 19:00*	*20*
2-Fluorobiphenyl	*78*		*57 - 120*	*07/26/19 10:00*	*07/29/19 19:00*	*20*
2-Fluorophenol	*88*		*60 - 125*	*07/26/19 10:00*	*07/29/19 19:00*	*20*
Nitrobenzene-d5	*83*		*62 - 120*	*07/26/19 10:00*	*07/29/19 19:00*	*20*
Phenol-d5	*92*		*59 - 120*	*07/26/19 10:00*	*07/29/19 19:00*	*20*
Terphenyl-d14	*119*		*58 - 120*	*07/26/19 10:00*	*07/29/19 19:00*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0026	0.00097	mg/Kg	☼	07/10/19 15:09	07/20/19 20:53	1
PCB-1221	ND		0.0026	0.0012	mg/Kg	☼	07/10/19 15:09	07/20/19 20:53	1

Client Sample ID: BH2-39-S

Date Collected: 07/02/19 12:18
Date Received: 07/03/19 08:15

Lab Sample ID: 580-87377-29

Matrix: Solid
Percent Solids: 69.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		0.0026	0.0012	mg/Kg	☼	07/10/19 15:09	07/20/19 20:53	1
PCB-1242	ND		0.0026	0.00064	mg/Kg	☼	07/10/19 15:09	07/20/19 20:53	1
PCB-1248	ND		0.0026	0.00047	mg/Kg	☼	07/10/19 15:09	07/20/19 20:53	1
PCB-1254	**0.0016**	**J**	0.0026	0.0010	mg/Kg	☼	07/10/19 15:09	07/20/19 20:53	1
PCB-1260	ND		0.0026	0.0010	mg/Kg	☼	07/10/19 15:09	07/20/19 20:53	1
Polychlorinated biphenyls, Total	**0.0016**	**J**	0.0026	0.00096	mg/Kg	☼	07/10/19 15:09	07/20/19 20:53	1
PCB-1262	ND		0.0026	0.00062	mg/Kg	☼	07/10/19 15:09	07/20/19 20:53	1
PCB-1268	ND		0.0026	0.00064	mg/Kg	☼	07/10/19 15:09	07/20/19 20:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*73*		*39 - 142*	*07/10/19 15:09*	*07/20/19 20:53*	*1*
Tetrachloro-m-xylene	*55*		*35 - 129*	*07/10/19 15:09*	*07/20/19 20:53*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.3**		0.24	0.048	mg/Kg	☼	07/11/19 13:20	07/16/19 21:08	5
Cadmium	**0.33**		0.19	0.037	mg/Kg	☼	07/11/19 13:20	07/16/19 21:08	5
Chromium	**14**		0.24	0.030	mg/Kg	☼	07/11/19 13:20	07/16/19 21:08	5
Copper	**13**		0.48	0.11	mg/Kg	☼	07/11/19 13:20	07/16/19 21:08	5
Lead	**16**		0.24	0.023	mg/Kg	☼	07/11/19 13:20	07/16/19 21:08	5
Nickel	**12**		0.24	0.093	mg/Kg	☼	07/11/19 13:20	07/16/19 21:08	5
Selenium	**0.87**		0.48	0.14	mg/Kg	☼	07/11/19 13:20	07/16/19 21:08	5
Silver	**0.077**	**J**	0.096	0.0096	mg/Kg	☼	07/11/19 13:20	07/16/19 21:08	5
Zinc	**32**		2.4	0.77	mg/Kg	☼	07/11/19 13:20	07/16/19 21:08	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.063**		0.027	0.0081	mg/Kg	☼	07/12/19 11:43	07/12/19 17:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		13	7.5	mg/Kg	☼	07/09/19 12:34	07/09/19 16:08	1
Total Organic Carbon - Duplicates	**10000**		2000	44	mg/Kg			07/15/19 20:50	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Volatile Solids	**1.7**		0.097	0.097	%			07/09/19 15:04	1
Percent Solids	**69.7**		0.1	0.1	%			07/18/19 14:00	1
Percent Moisture	**30.3**		0.1	0.1	%			07/18/19 14:00	1
Total Solids	**69.7**		0.1	0.1	%			07/18/19 14:00	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		170	13	mg/Kg	☼		07/08/19 13:17	1

Method: PSEP Plumb 1981 - Grain Size (PSEP Plumb 1981)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Clay	**3.9**				%			07/09/19 16:28	1
Sand	**76**				%			07/09/19 16:28	1
Silt	**20**				%			07/09/19 16:28	1
Gravel	**0.10**				%			07/09/19 16:28	1
Cobbles	**0.00**				%			07/09/19 16:28	1

Client Sample ID: BH2-38-S
Date Collected: 07/02/19 12:30
Date Received: 07/03/19 08:15

Lab Sample ID: 580-87377-30
Matrix: Solid
Percent Solids: 65.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		74	8.9	ug/Kg	☼	07/26/19 10:00	07/29/19 19:24	10
1,2-Dichlorobenzene	ND		74	18	ug/Kg	☼	07/26/19 10:00	07/29/19 19:24	10
1,4-Dichlorobenzene	ND		74	12	ug/Kg	☼	07/26/19 10:00	07/29/19 19:24	10
2,4-Dimethylphenol	ND	*	150	22	ug/Kg	☼	07/26/19 10:00	07/29/19 19:24	10
2-Methylnaphthalene	ND		74	13	ug/Kg	☼	07/26/19 10:00	07/29/19 19:24	10
2-Methylphenol	ND		220	14	ug/Kg	☼	07/26/19 10:00	07/29/19 19:24	10
3 & 4 Methylphenol	**250**	**J**	300	22	ug/Kg	☼	07/26/19 10:00	07/29/19 19:24	10
Acenaphthene	**18**	**J**	37	7.4	ug/Kg	☼	07/26/19 10:00	07/29/19 19:24	10
Acenaphthylene	**14**	**J**	37	7.4	ug/Kg	☼	07/26/19 10:00	07/29/19 19:24	10
Anthracene	**50**		37	7.4	ug/Kg	☼	07/26/19 10:00	07/29/19 19:24	10
Benzo[a]anthracene	**130**		37	7.4	ug/Kg	☼	07/26/19 10:00	07/29/19 19:24	10
Benzo[a]pyrene	**110**		89	19	ug/Kg	☼	07/26/19 10:00	07/29/19 19:24	10
Benzo[g,h,i]perylene	**56**	**J**	89	13	ug/Kg	☼	07/26/19 10:00	07/29/19 19:24	10
Benzofluoranthene	**63**	**J**	220	21	ug/Kg	☼	07/26/19 10:00	07/29/19 19:24	10
Benzoic acid	ND		3000	860	ug/Kg	☼	07/26/19 10:00	07/29/19 19:24	10
Benzyl alcohol	ND		740	110	ug/Kg	☼	07/26/19 10:00	07/29/19 19:24	10
Bis(2-ethylhexyl) phthalate	ND		890	100	ug/Kg	☼	07/26/19 10:00	07/29/19 19:24	10
Butyl benzyl phthalate	ND		300	75	ug/Kg	☼	07/26/19 10:00	07/29/19 19:24	10
Carbazole	ND	*	220	12	ug/Kg	☼	07/26/19 10:00	07/29/19 19:24	10
Chrysene	**130**		89	19	ug/Kg	☼	07/26/19 10:00	07/29/19 19:24	10
Dibenz(a,h)anthracene	**21**	**J**	74	18	ug/Kg	☼	07/26/19 10:00	07/29/19 19:24	10
Dibenzofuran	**14**	**J**	220	8.7	ug/Kg	☼	07/26/19 10:00	07/29/19 19:24	10
Diethyl phthalate	ND		2200	110	ug/Kg	☼	07/26/19 10:00	07/29/19 19:24	10
Dimethyl phthalate	ND		220	19	ug/Kg	☼	07/26/19 10:00	07/29/19 19:24	10
Di-n-butyl phthalate	ND		740	84	ug/Kg	☼	07/26/19 10:00	07/29/19 19:24	10
Di-n-octyl phthalate	**96**	**J B**	220	84	ug/Kg	☼	07/26/19 10:00	07/29/19 19:24	10
Fluoranthene	**300**	**B**	37	7.4	ug/Kg	☼	07/26/19 10:00	07/29/19 19:24	10
Fluorene	**29**	**J**	37	7.4	ug/Kg	☼	07/26/19 10:00	07/29/19 19:24	10
Hexachlorobenzene	ND		74	22	ug/Kg	☼	07/26/19 10:00	07/29/19 19:24	10
Hexachlorobutadiene	ND		74	22	ug/Kg	☼	07/26/19 10:00	07/29/19 19:24	10
Indeno[1,2,3-cd]pyrene	**75**		59	7.4	ug/Kg	☼	07/26/19 10:00	07/29/19 19:24	10
Naphthalene	**11**	**J**	37	7.4	ug/Kg	☼	07/26/19 10:00	07/29/19 19:24	10
N-Nitrosodiphenylamine	ND		89	12	ug/Kg	☼	07/26/19 10:00	07/29/19 19:24	10
Pentachlorophenol	ND		660	190	ug/Kg	☼	07/26/19 10:00	07/29/19 19:24	10
Phenanthrene	**130**		89	18	ug/Kg	☼	07/26/19 10:00	07/29/19 19:24	10
Phenol	**190**	**J**	220	34	ug/Kg	☼	07/26/19 10:00	07/29/19 19:24	10
Pyrene	**260**		89	9.5	ug/Kg	☼	07/26/19 10:00	07/29/19 19:24	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*133*	*X*	*52 - 125*	*07/26/19 10:00*	*07/29/19 19:24*	*10*
2-Fluorobiphenyl	*66*		*57 - 120*	*07/26/19 10:00*	*07/29/19 19:24*	*10*
2-Fluorophenol	*77*		*60 - 125*	*07/26/19 10:00*	*07/29/19 19:24*	*10*
Nitrobenzene-d5	*75*		*62 - 120*	*07/26/19 10:00*	*07/29/19 19:24*	*10*
Phenol-d5	*81*		*59 - 120*	*07/26/19 10:00*	*07/29/19 19:24*	*10*
Terphenyl-d14	*104*		*58 - 120*	*07/26/19 10:00*	*07/29/19 19:24*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0028	0.0010	mg/Kg	☼	07/10/19 15:09	07/20/19 21:11	1
PCB-1221	ND		0.0028	0.0013	mg/Kg	☼	07/10/19 15:09	07/20/19 21:11	1

Client Sample ID: BH2-38-S
Date Collected: 07/02/19 12:30
Date Received: 07/03/19 08:15

Lab Sample ID: 580-87377-30
Matrix: Solid
Percent Solids: 65.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		0.0028	0.0013	mg/Kg	☼	07/10/19 15:09	07/20/19 21:11	1
PCB-1242	ND		0.0028	0.00069	mg/Kg	☼	07/10/19 15:09	07/20/19 21:11	1
PCB-1248	ND		0.0028	0.00050	mg/Kg	☼	07/10/19 15:09	07/20/19 21:11	1
PCB-1254	**0.0053**		0.0028	0.0011	mg/Kg	☼	07/10/19 15:09	07/20/19 21:11	1
PCB-1260	ND		0.0028	0.0011	mg/Kg	☼	07/10/19 15:09	07/20/19 21:11	1
Polychlorinated biphenyls, Total	**0.0053**		0.0028	0.0010	mg/Kg	☼	07/10/19 15:09	07/20/19 21:11	1
PCB-1262	ND		0.0028	0.00066	mg/Kg	☼	07/10/19 15:09	07/20/19 21:11	1
PCB-1268	ND		0.0028	0.00069	mg/Kg	☼	07/10/19 15:09	07/20/19 21:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*72*		*39 - 142*	*07/10/19 15:09*	*07/20/19 21:11*	*1*
Tetrachloro-m-xylene	*60*		*35 - 129*	*07/10/19 15:09*	*07/20/19 21:11*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.7**		0.25	0.050	mg/Kg	☼	07/11/19 13:20	07/16/19 21:12	5
Cadmium	**0.58**		0.20	0.038	mg/Kg	☼	07/11/19 13:20	07/16/19 21:12	5
Chromium	**20**		0.25	0.031	mg/Kg	☼	07/11/19 13:20	07/16/19 21:12	5
Copper	**23**		0.50	0.11	mg/Kg	☼	07/11/19 13:20	07/16/19 21:12	5
Lead	**32**		0.25	0.024	mg/Kg	☼	07/11/19 13:20	07/16/19 21:12	5
Nickel	**15**		0.25	0.096	mg/Kg	☼	07/11/19 13:20	07/16/19 21:12	5
Selenium	**1.2**		0.50	0.14	mg/Kg	☼	07/11/19 13:20	07/16/19 21:12	5
Silver	**0.12**		0.099	0.0099	mg/Kg	☼	07/11/19 13:20	07/16/19 21:12	5
Zinc	**49**		2.5	0.80	mg/Kg	☼	07/11/19 13:20	07/16/19 21:12	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.36**		0.033	0.0098	mg/Kg	☼	07/12/19 11:43	07/12/19 17:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		14	7.9	mg/Kg	☼	07/09/19 12:34	07/09/19 16:08	1
Total Organic Carbon - Duplicates	**14000**		2000	44	mg/Kg			07/15/19 20:55	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Volatile Solids	**1.9**		0.099	0.099	%			07/09/19 15:04	1
Percent Solids	**65.5**		0.1	0.1	%			07/18/19 14:00	1
Percent Moisture	**34.5**		0.1	0.1	%			07/18/19 14:00	1
Total Solids	**65.5**		0.1	0.1	%			07/18/19 14:00	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		180	14	mg/Kg	☼		07/08/19 13:17	1

Method: PSEP Plumb 1981 - Grain Size (PSEP Plumb 1981)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Clay	**3.8**				%			07/09/19 16:28	1
Sand	**60**				%			07/09/19 16:28	1
Silt	**37**				%			07/09/19 16:28	1
Gravel	**0.00**				%			07/09/19 16:28	1
Cobbles	**0.00**				%			07/09/19 16:28	1

Client Sample ID: BH2-37-S
Date Collected: 07/02/19 12:42
Date Received: 07/03/19 08:15

Lab Sample ID: 580-87377-31
Matrix: Solid
Percent Solids: 31.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		300	36	ug/Kg	☼	07/26/19 10:00	07/29/19 19:48	20
1,2-Dichlorobenzene	ND		300	73	ug/Kg	☼	07/26/19 10:00	07/29/19 19:48	20
1,4-Dichlorobenzene	ND		300	50	ug/Kg	☼	07/26/19 10:00	07/29/19 19:48	20
2,4-Dimethylphenol	ND	*	610	91	ug/Kg	☼	07/26/19 10:00	07/29/19 19:48	20
2-Methylnaphthalene	**66**	**J**	300	54	ug/Kg	☼	07/26/19 10:00	07/29/19 19:48	20
2-Methylphenol	ND		910	60	ug/Kg	☼	07/26/19 10:00	07/29/19 19:48	20
3 & 4 Methylphenol	**1500**		1200	91	ug/Kg	☼	07/26/19 10:00	07/29/19 19:48	20
Acenaphthene	**120**	**J**	150	30	ug/Kg	☼	07/26/19 10:00	07/29/19 19:48	20
Acenaphthylene	**120**	**J**	150	30	ug/Kg	☼	07/26/19 10:00	07/29/19 19:48	20
Anthracene	**450**		150	30	ug/Kg	☼	07/26/19 10:00	07/29/19 19:48	20
Benzo[a]anthracene	**1400**		150	30	ug/Kg	☼	07/26/19 10:00	07/29/19 19:48	20
Benzo[a]pyrene	**1400**		360	79	ug/Kg	☼	07/26/19 10:00	07/29/19 19:48	20
Benzo[g,h,i]perylene	**790**		360	55	ug/Kg	☼	07/26/19 10:00	07/29/19 19:48	20
Benzofluoranthene	**560**	**J**	910	85	ug/Kg	☼	07/26/19 10:00	07/29/19 19:48	20
Benzoic acid	ND		12000	3500	ug/Kg	☼	07/26/19 10:00	07/29/19 19:48	20
Benzyl alcohol	ND		3000	470	ug/Kg	☼	07/26/19 10:00	07/29/19 19:48	20
Bis(2-ethylhexyl) phthalate	ND		3600	430	ug/Kg	☼	07/26/19 10:00	07/29/19 19:48	20
Butyl benzyl phthalate	ND		1200	310	ug/Kg	☼	07/26/19 10:00	07/29/19 19:48	20
Carbazole	ND	*	910	50	ug/Kg	☼	07/26/19 10:00	07/29/19 19:48	20
Chrysene	**1600**		360	79	ug/Kg	☼	07/26/19 10:00	07/29/19 19:48	20
Dibenz(a,h)anthracene	**280**	**J**	300	73	ug/Kg	☼	07/26/19 10:00	07/29/19 19:48	20
Dibenzofuran	**74**	**J**	910	36	ug/Kg	☼	07/26/19 10:00	07/29/19 19:48	20
Diethyl phthalate	ND		9100	460	ug/Kg	☼	07/26/19 10:00	07/29/19 19:48	20
Dimethyl phthalate	ND		910	79	ug/Kg	☼	07/26/19 10:00	07/29/19 19:48	20
Di-n-butyl phthalate	ND		3000	350	ug/Kg	☼	07/26/19 10:00	07/29/19 19:48	20
Di-n-octyl phthalate	ND		910	350	ug/Kg	☼	07/26/19 10:00	07/29/19 19:48	20
Fluoranthene	**2600**	**B**	150	30	ug/Kg	☼	07/26/19 10:00	07/29/19 19:48	20
Fluorene	**180**		150	30	ug/Kg	☼	07/26/19 10:00	07/29/19 19:48	20
Hexachlorobenzene	ND		300	91	ug/Kg	☼	07/26/19 10:00	07/29/19 19:48	20
Hexachlorobutadiene	ND		300	91	ug/Kg	☼	07/26/19 10:00	07/29/19 19:48	20
Indeno[1,2,3-cd]pyrene	**770**		240	30	ug/Kg	☼	07/26/19 10:00	07/29/19 19:48	20
Naphthalene	**120**	**J**	150	30	ug/Kg	☼	07/26/19 10:00	07/29/19 19:48	20
N-Nitrosodiphenylamine	ND		360	49	ug/Kg	☼	07/26/19 10:00	07/29/19 19:48	20
Pentachlorophenol	ND		2700	800	ug/Kg	☼	07/26/19 10:00	07/29/19 19:48	20
Phenanthrene	**1400**		360	73	ug/Kg	☼	07/26/19 10:00	07/29/19 19:48	20
Phenol	**2300**		910	140	ug/Kg	☼	07/26/19 10:00	07/29/19 19:48	20
Pyrene	**2700**		360	39	ug/Kg	☼	07/26/19 10:00	07/29/19 19:48	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*191*	*X*	*52 - 125*	*07/26/19 10:00*	*07/29/19 19:48*	*20*
2-Fluorobiphenyl	*55*	*X*	*57 - 120*	*07/26/19 10:00*	*07/29/19 19:48*	*20*
2-Fluorophenol	*65*		*60 - 125*	*07/26/19 10:00*	*07/29/19 19:48*	*20*
Nitrobenzene-d5	*75*		*62 - 120*	*07/26/19 10:00*	*07/29/19 19:48*	*20*
Phenol-d5	*74*		*59 - 120*	*07/26/19 10:00*	*07/29/19 19:48*	*20*
Terphenyl-d14	*108*		*58 - 120*	*07/26/19 10:00*	*07/29/19 19:48*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0056	0.0021	mg/Kg	☼	07/10/19 15:09	07/20/19 21:30	1
PCB-1221	ND		0.0056	0.0027	mg/Kg	☼	07/10/19 15:09	07/20/19 21:30	1

Client Sample ID: BH2-37-S

Date Collected: 07/02/19 12:42
Date Received: 07/03/19 08:15

Lab Sample ID: 580-87377-31

Matrix: Solid
Percent Solids: 31.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		0.0056	0.0027	mg/Kg	☼	07/10/19 15:09	07/20/19 21:30	1
PCB-1242	ND		0.0056	0.0014	mg/Kg	☼	07/10/19 15:09	07/20/19 21:30	1
PCB-1248	ND		0.0056	0.0010	mg/Kg	☼	07/10/19 15:09	07/20/19 21:30	1
PCB-1254	**0.0056**		0.0056	0.0022	mg/Kg	☼	07/10/19 15:09	07/20/19 21:30	1
PCB-1260	ND		0.0056	0.0022	mg/Kg	☼	07/10/19 15:09	07/20/19 21:30	1
Polychlorinated biphenyls, Total	**0.0056**		0.0056	0.0021	mg/Kg	☼	07/10/19 15:09	07/20/19 21:30	1
PCB-1262	ND		0.0056	0.0013	mg/Kg	☼	07/10/19 15:09	07/20/19 21:30	1
PCB-1268	ND		0.0056	0.0014	mg/Kg	☼	07/10/19 15:09	07/20/19 21:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*56*		*39 - 142*	*07/10/19 15:09*	*07/20/19 21:30*	*1*
Tetrachloro-m-xylene	*52*		*35 - 129*	*07/10/19 15:09*	*07/20/19 21:30*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**22**		0.49	0.097	mg/Kg	☼	07/11/19 13:20	07/16/19 21:16	5
Cadmium	**1.7**		0.39	0.075	mg/Kg	☼	07/11/19 13:20	07/16/19 21:16	5
Chromium	**34**		0.49	0.061	mg/Kg	☼	07/11/19 13:20	07/16/19 21:16	5
Copper	**110**		0.97	0.21	mg/Kg	☼	07/11/19 13:20	07/16/19 21:16	5
Lead	**200**		0.49	0.047	mg/Kg	☼	07/11/19 13:20	07/16/19 21:16	5
Nickel	**27**		0.49	0.19	mg/Kg	☼	07/11/19 13:20	07/16/19 21:16	5
Selenium	**2.7**		0.97	0.28	mg/Kg	☼	07/11/19 13:20	07/16/19 21:16	5
Silver	**0.39**		0.19	0.019	mg/Kg	☼	07/11/19 13:20	07/16/19 21:16	5
Zinc	**130**		4.9	1.6	mg/Kg	☼	07/11/19 13:20	07/16/19 21:16	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.57**		0.064	0.019	mg/Kg	☼	07/12/19 11:43	07/12/19 17:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	**500**		29	16	mg/Kg	☼	07/09/19 12:34	07/09/19 16:08	1
Total Organic Carbon - Duplicates	**130000**		2000	44	mg/Kg			07/15/19 20:59	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Volatile Solids	**7.1**		0.099	0.099	%			07/09/19 15:04	1
Percent Solids	**31.5**		0.1	0.1	%			07/18/19 14:00	1
Percent Moisture	**68.5**		0.1	0.1	%			07/18/19 14:00	1
Total Solids	**31.5**		0.1	0.1	%			07/18/19 14:00	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		360	29	mg/Kg	☼		07/08/19 13:17	1

Method: PSEP Plumb 1981 - Grain Size (PSEP Plumb 1981)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Clay	**7.4**				%			07/09/19 16:31	1
Sand	**40**				%			07/09/19 16:31	1
Silt	**45**				%			07/09/19 16:31	1
Gravel	**7.5**				%			07/09/19 16:31	1
Cobbles	**0.00**				%			07/09/19 16:31	1

Client Sample ID: BH2-36-S **Lab Sample ID: 580-87377-32**
Date Collected: 07/02/19 12:54 **Matrix: Solid**
Date Received: 07/03/19 08:15 **Percent Solids: 72.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		66	7.9	ug/Kg	☼	07/26/19 10:00	07/29/19 20:12	10
1,2-Dichlorobenzene	ND		66	16	ug/Kg	☼	07/26/19 10:00	07/29/19 20:12	10
1,4-Dichlorobenzene	ND		66	11	ug/Kg	☼	07/26/19 10:00	07/29/19 20:12	10
2,4-Dimethylphenol	ND	*	130	20	ug/Kg	☼	07/26/19 10:00	07/29/19 20:12	10
2-Methylnaphthalene	ND		66	12	ug/Kg	☼	07/26/19 10:00	07/29/19 20:12	10
2-Methylphenol	ND		200	13	ug/Kg	☼	07/26/19 10:00	07/29/19 20:12	10
3 & 4 Methylphenol	**190**	**J**	260	20	ug/Kg	☼	07/26/19 10:00	07/29/19 20:12	10
Acenaphthene	**7.0**	**J**	33	6.6	ug/Kg	☼	07/26/19 10:00	07/29/19 20:12	10
Acenaphthylene	**10**	**J**	33	6.6	ug/Kg	☼	07/26/19 10:00	07/29/19 20:12	10
Anthracene	**28**	**J**	33	6.6	ug/Kg	☼	07/26/19 10:00	07/29/19 20:12	10
Benzo[a]anthracene	**66**		33	6.6	ug/Kg	☼	07/26/19 10:00	07/29/19 20:12	10
Benzo[a]pyrene	**54**	**J**	79	17	ug/Kg	☼	07/26/19 10:00	07/29/19 20:12	10
Benzo[g,h,i]perylene	**36**	**J**	79	12	ug/Kg	☼	07/26/19 10:00	07/29/19 20:12	10
Benzofluoranthene	**26**	**J**	200	19	ug/Kg	☼	07/26/19 10:00	07/29/19 20:12	10
Benzoic acid	ND		2600	770	ug/Kg	☼	07/26/19 10:00	07/29/19 20:12	10
Benzyl alcohol	ND		660	100	ug/Kg	☼	07/26/19 10:00	07/29/19 20:12	10
Bis(2-ethylhexyl) phthalate	ND		790	94	ug/Kg	☼	07/26/19 10:00	07/29/19 20:12	10
Butyl benzyl phthalate	ND		260	67	ug/Kg	☼	07/26/19 10:00	07/29/19 20:12	10
Carbazole	ND	*	200	11	ug/Kg	☼	07/26/19 10:00	07/29/19 20:12	10
Chrysene	**68**	**J**	79	17	ug/Kg	☼	07/26/19 10:00	07/29/19 20:12	10
Dibenz(a,h)anthracene	ND		66	16	ug/Kg	☼	07/26/19 10:00	07/29/19 20:12	10
Dibenzofuran	ND		200	7.8	ug/Kg	☼	07/26/19 10:00	07/29/19 20:12	10
Diethyl phthalate	ND		2000	100	ug/Kg	☼	07/26/19 10:00	07/29/19 20:12	10
Dimethyl phthalate	ND		200	17	ug/Kg	☼	07/26/19 10:00	07/29/19 20:12	10
Di-n-butyl phthalate	ND		660	75	ug/Kg	☼	07/26/19 10:00	07/29/19 20:12	10
Di-n-octyl phthalate	ND		200	75	ug/Kg	☼	07/26/19 10:00	07/29/19 20:12	10
Fluoranthene	**120**	**B**	33	6.6	ug/Kg	☼	07/26/19 10:00	07/29/19 20:12	10
Fluorene	**12**	**J**	33	6.6	ug/Kg	☼	07/26/19 10:00	07/29/19 20:12	10
Hexachlorobenzene	ND		66	20	ug/Kg	☼	07/26/19 10:00	07/29/19 20:12	10
Hexachlorobutadiene	ND		66	20	ug/Kg	☼	07/26/19 10:00	07/29/19 20:12	10
Indeno[1,2,3-cd]pyrene	**51**	**J**	53	6.6	ug/Kg	☼	07/26/19 10:00	07/29/19 20:12	10
Naphthalene	**9.1**	**J**	33	6.6	ug/Kg	☼	07/26/19 10:00	07/29/19 20:12	10
N-Nitrosodiphenylamine	ND		79	11	ug/Kg	☼	07/26/19 10:00	07/29/19 20:12	10
Pentachlorophenol	ND		600	170	ug/Kg	☼	07/26/19 10:00	07/29/19 20:12	10
Phenanthrene	**83**		79	16	ug/Kg	☼	07/26/19 10:00	07/29/19 20:12	10
Phenol	**270**		200	30	ug/Kg	☼	07/26/19 10:00	07/29/19 20:12	10
Pyrene	**160**		79	8.5	ug/Kg	☼	07/26/19 10:00	07/29/19 20:12	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*133*	*X*	*52 - 125*	*07/26/19 10:00*	*07/29/19 20:12*	*10*
2-Fluorobiphenyl	*68*		*57 - 120*	*07/26/19 10:00*	*07/29/19 20:12*	*10*
2-Fluorophenol	*77*		*60 - 125*	*07/26/19 10:00*	*07/29/19 20:12*	*10*
Nitrobenzene-d5	*72*		*62 - 120*	*07/26/19 10:00*	*07/29/19 20:12*	*10*
Phenol-d5	*85*		*59 - 120*	*07/26/19 10:00*	*07/29/19 20:12*	*10*
Terphenyl-d14	*98*		*58 - 120*	*07/26/19 10:00*	*07/29/19 20:12*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0027	0.00098	mg/Kg	☼	07/10/19 15:09	07/20/19 21:48	1
PCB-1221	ND		0.0027	0.0013	mg/Kg	☼	07/10/19 15:09	07/20/19 21:48	1

Client Sample ID: BH2-36-S
Lab Sample ID: 580-87377-32
Date Collected: 07/02/19 12:54
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 72.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		0.0027	0.0013	mg/Kg	☼	07/10/19 15:09	07/20/19 21:48	1
PCB-1242	ND		0.0027	0.00065	mg/Kg	☼	07/10/19 15:09	07/20/19 21:48	1
PCB-1248	ND		0.0027	0.00048	mg/Kg	☼	07/10/19 15:09	07/20/19 21:48	1
PCB-1254	ND		0.0027	0.0011	mg/Kg	☼	07/10/19 15:09	07/20/19 21:48	1
PCB-1260	ND		0.0027	0.0010	mg/Kg	☼	07/10/19 15:09	07/20/19 21:48	1
Polychlorinated biphenyls, Total	**0.0010**	**J**	0.0027	0.00097	mg/Kg	☼	07/10/19 15:09	07/20/19 21:48	1
PCB-1262	ND		0.0027	0.00063	mg/Kg	☼	07/10/19 15:09	07/20/19 21:48	1
PCB-1268	ND		0.0027	0.00065	mg/Kg	☼	07/10/19 15:09	07/20/19 21:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*66*		*39 - 142*	*07/10/19 15:09*	*07/20/19 21:48*	*1*
Tetrachloro-m-xylene	*58*		*35 - 129*	*07/10/19 15:09*	*07/20/19 21:48*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.2**		0.23	0.045	mg/Kg	☼	07/11/19 13:20	07/16/19 21:20	5
Cadmium	**0.28**		0.18	0.035	mg/Kg	☼	07/11/19 13:20	07/16/19 21:20	5
Chromium	**14**		0.23	0.029	mg/Kg	☼	07/11/19 13:20	07/16/19 21:20	5
Copper	**13**		0.45	0.10	mg/Kg	☼	07/11/19 13:20	07/16/19 21:20	5
Lead	**20**		0.23	0.022	mg/Kg	☼	07/11/19 13:20	07/16/19 21:20	5
Nickel	**12**		0.23	0.088	mg/Kg	☼	07/11/19 13:20	07/16/19 21:20	5
Selenium	**0.86**		0.45	0.13	mg/Kg	☼	07/11/19 13:20	07/16/19 21:20	5
Silver	**0.069**	**J**	0.091	0.0091	mg/Kg	☼	07/11/19 13:20	07/16/19 21:20	5
Zinc	**31**		2.3	0.73	mg/Kg	☼	07/11/19 13:20	07/16/19 21:20	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.069**		0.032	0.0097	mg/Kg	☼	07/12/19 11:43	07/12/19 17:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		13	7.6	mg/Kg	☼	07/09/19 12:34	07/09/19 16:08	1
Total Organic Carbon - Duplicates	**8500**		2000	44	mg/Kg			07/15/19 21:15	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Volatile Solids	**0.24**		0.098	0.098	%			07/09/19 15:04	1
Percent Solids	**72.2**		0.1	0.1	%			07/18/19 14:00	1
Percent Moisture	**27.8**		0.1	0.1	%			07/18/19 14:00	1
Total Solids	**72.2**		0.1	0.1	%			07/18/19 14:00	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		150	12	mg/Kg	☼		07/08/19 13:17	1

Method: PSEP Plumb 1981 - Grain Size (PSEP Plumb 1981)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Clay	**3.3**				%			07/09/19 16:31	1
Sand	**75**				%			07/09/19 16:31	1
Silt	**22**				%			07/09/19 16:31	1
Gravel	**0.00**				%			07/09/19 16:31	1
Cobbles	**0.00**				%			07/09/19 16:31	1

Client Sample ID: BH2-35-S
Date Collected: 07/02/19 13:08
Date Received: 07/03/19 08:15

Lab Sample ID: 580-87377-33
Matrix: Solid
Percent Solids: 71.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		68	8.1	ug/Kg	☼	07/26/19 10:00	07/29/19 20:36	10
1,2-Dichlorobenzene	ND		68	16	ug/Kg	☼	07/26/19 10:00	07/29/19 20:36	10
1,4-Dichlorobenzene	ND		68	11	ug/Kg	☼	07/26/19 10:00	07/29/19 20:36	10
2,4-Dimethylphenol	ND	*	140	20	ug/Kg	☼	07/26/19 10:00	07/29/19 20:36	10
2-Methylnaphthalene	ND		68	12	ug/Kg	☼	07/26/19 10:00	07/29/19 20:36	10
2-Methylphenol	ND		200	13	ug/Kg	☼	07/26/19 10:00	07/29/19 20:36	10
3 & 4 Methylphenol	ND		270	20	ug/Kg	☼	07/26/19 10:00	07/29/19 20:36	10
Acenaphthene	ND		34	6.8	ug/Kg	☼	07/26/19 10:00	07/29/19 20:36	10
Acenaphthylene	**8.3**	**J**	34	6.8	ug/Kg	☼	07/26/19 10:00	07/29/19 20:36	10
Anthracene	**17**	**J**	34	6.8	ug/Kg	☼	07/26/19 10:00	07/29/19 20:36	10
Benzo[a]anthracene	**36**		34	6.8	ug/Kg	☼	07/26/19 10:00	07/29/19 20:36	10
Benzo[a]pyrene	**32**	**J**	81	18	ug/Kg	☼	07/26/19 10:00	07/29/19 20:36	10
Benzo[g,h,i]perylene	**22**	**J**	81	12	ug/Kg	☼	07/26/19 10:00	07/29/19 20:36	10
Benzofluoranthene	ND		200	19	ug/Kg	☼	07/26/19 10:00	07/29/19 20:36	10
Benzoic acid	ND		2700	790	ug/Kg	☼	07/26/19 10:00	07/29/19 20:36	10
Benzyl alcohol	ND		680	100	ug/Kg	☼	07/26/19 10:00	07/29/19 20:36	10
Bis(2-ethylhexyl) phthalate	ND		810	96	ug/Kg	☼	07/26/19 10:00	07/29/19 20:36	10
Butyl benzyl phthalate	ND		270	69	ug/Kg	☼	07/26/19 10:00	07/29/19 20:36	10
Carbazole	ND	*	200	11	ug/Kg	☼	07/26/19 10:00	07/29/19 20:36	10
Chrysene	**37**	**J**	81	18	ug/Kg	☼	07/26/19 10:00	07/29/19 20:36	10
Dibenz(a,h)anthracene	ND		68	16	ug/Kg	☼	07/26/19 10:00	07/29/19 20:36	10
Dibenzofuran	ND		200	8.0	ug/Kg	☼	07/26/19 10:00	07/29/19 20:36	10
Diethyl phthalate	ND		2000	100	ug/Kg	☼	07/26/19 10:00	07/29/19 20:36	10
Dimethyl phthalate	ND		200	18	ug/Kg	☼	07/26/19 10:00	07/29/19 20:36	10
Di-n-butyl phthalate	ND		680	77	ug/Kg	☼	07/26/19 10:00	07/29/19 20:36	10
Di-n-octyl phthalate	ND		200	77	ug/Kg	☼	07/26/19 10:00	07/29/19 20:36	10
Fluoranthene	**87**	**B**	34	6.8	ug/Kg	☼	07/26/19 10:00	07/29/19 20:36	10
Fluorene	**7.7**	**J**	34	6.8	ug/Kg	☼	07/26/19 10:00	07/29/19 20:36	10
Hexachlorobenzene	ND		68	20	ug/Kg	☼	07/26/19 10:00	07/29/19 20:36	10
Hexachlorobutadiene	ND		68	20	ug/Kg	☼	07/26/19 10:00	07/29/19 20:36	10
Indeno[1,2,3-cd]pyrene	**33**	**J**	54	6.8	ug/Kg	☼	07/26/19 10:00	07/29/19 20:36	10
Naphthalene	**9.7**	**J**	34	6.8	ug/Kg	☼	07/26/19 10:00	07/29/19 20:36	10
N-Nitrosodiphenylamine	ND		81	11	ug/Kg	☼	07/26/19 10:00	07/29/19 20:36	10
Pentachlorophenol	ND		610	180	ug/Kg	☼	07/26/19 10:00	07/29/19 20:36	10
Phenanthrene	**47**	**J**	81	16	ug/Kg	☼	07/26/19 10:00	07/29/19 20:36	10
Phenol	ND		200	31	ug/Kg	☼	07/26/19 10:00	07/29/19 20:36	10
Pyrene	**95**		81	8.7	ug/Kg	☼	07/26/19 10:00	07/29/19 20:36	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*139*	*X*	*52 - 125*	*07/26/19 10:00*	*07/29/19 20:36*	*10*
2-Fluorobiphenyl	*63*		*57 - 120*	*07/26/19 10:00*	*07/29/19 20:36*	*10*
2-Fluorophenol	*86*		*60 - 125*	*07/26/19 10:00*	*07/29/19 20:36*	*10*
Nitrobenzene-d5	*76*		*62 - 120*	*07/26/19 10:00*	*07/29/19 20:36*	*10*
Phenol-d5	*83*		*59 - 120*	*07/26/19 10:00*	*07/29/19 20:36*	*10*
Terphenyl-d14	*107*		*58 - 120*	*07/26/19 10:00*	*07/29/19 20:36*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0027	0.00099	mg/Kg	☼	07/10/19 15:09	07/20/19 22:06	1
PCB-1221	ND		0.0027	0.0013	mg/Kg	☼	07/10/19 15:09	07/20/19 22:06	1

Client Sample ID: BH2-35-S
Lab Sample ID: 580-87377-33
Date Collected: 07/02/19 13:08
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 71.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		0.0027	0.0013	mg/Kg	☼	07/10/19 15:09	07/20/19 22:06	1
PCB-1242	ND		0.0027	0.00066	mg/Kg	☼	07/10/19 15:09	07/20/19 22:06	1
PCB-1248	ND		0.0027	0.00048	mg/Kg	☼	07/10/19 15:09	07/20/19 22:06	1
PCB-1254	ND		0.0027	0.0011	mg/Kg	☼	07/10/19 15:09	07/20/19 22:06	1
PCB-1260	ND		0.0027	0.0010	mg/Kg	☼	07/10/19 15:09	07/20/19 22:06	1
Polychlorinated biphenyls, Total	ND		0.0027	0.00098	mg/Kg	☼	07/10/19 15:09	07/20/19 22:06	1
PCB-1262	ND		0.0027	0.00063	mg/Kg	☼	07/10/19 15:09	07/20/19 22:06	1
PCB-1268	ND		0.0027	0.00066	mg/Kg	☼	07/10/19 15:09	07/20/19 22:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*65*		*39 - 142*	*07/10/19 15:09*	*07/20/19 22:06*	*1*
Tetrachloro-m-xylene	*51*		*35 - 129*	*07/10/19 15:09*	*07/20/19 22:06*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.5**		0.24	0.048	mg/Kg	☼	07/11/19 13:20	07/16/19 21:41	5
Cadmium	**0.41**		0.19	0.037	mg/Kg	☼	07/11/19 13:20	07/16/19 21:41	5
Chromium	**13**		0.24	0.031	mg/Kg	☼	07/11/19 13:20	07/16/19 21:41	5
Copper	**12**		0.48	0.11	mg/Kg	☼	07/11/19 13:20	07/16/19 21:41	5
Lead	**16**		0.24	0.023	mg/Kg	☼	07/11/19 13:20	07/16/19 21:41	5
Nickel	**10**		0.24	0.094	mg/Kg	☼	07/11/19 13:20	07/16/19 21:41	5
Selenium	**0.82**		0.48	0.14	mg/Kg	☼	07/11/19 13:20	07/16/19 21:41	5
Silver	**0.073**	**J**	0.097	0.0097	mg/Kg	☼	07/11/19 13:20	07/16/19 21:41	5
Zinc	**28**		2.4	0.78	mg/Kg	☼	07/11/19 13:20	07/16/19 21:41	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.062**		0.028	0.0083	mg/Kg	☼	07/12/19 11:43	07/12/19 17:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		14	7.8	mg/Kg	☼	07/09/19 12:34	07/09/19 16:08	1
Total Organic Carbon - Duplicates	**10000**		2000	44	mg/Kg			07/15/19 21:19	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Volatile Solids	**1.5**		0.099	0.099	%			07/09/19 15:04	1
Percent Solids	**71.6**		0.1	0.1	%			07/22/19 17:12	1
Percent Moisture	**28.4**		0.1	0.1	%			07/22/19 17:12	1
Total Solids	**71.6**		0.1	0.1	%			07/22/19 17:12	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		170	14	mg/Kg	☼		07/08/19 13:17	1

Method: PSEP Plumb 1981 - Grain Size (PSEP Plumb 1981)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Clay	**3.2**				%			07/09/19 16:31	1
Sand	**76**				%			07/09/19 16:31	1
Silt	**21**				%			07/09/19 16:31	1
Gravel	**0.00**				%			07/09/19 16:31	1
Cobbles	**0.00**				%			07/09/19 16:31	1

Client Sample ID: BH2-34-S
Date Collected: 07/02/19 13:22
Date Received: 07/03/19 08:15

Lab Sample ID: 580-87377-34
Matrix: Solid
Percent Solids: 73.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	F1	65	7.8	ug/Kg	☼	07/26/19 10:00	07/29/19 21:00	10
1,2-Dichlorobenzene	ND	F1	65	16	ug/Kg	☼	07/26/19 10:00	07/29/19 21:00	10
1,4-Dichlorobenzene	ND	F2 F1	65	11	ug/Kg	☼	07/26/19 10:00	07/29/19 21:00	10
2,4-Dimethylphenol	ND	*	130	20	ug/Kg	☼	07/26/19 10:00	07/29/19 21:00	10
2-Methylnaphthalene	ND		65	11	ug/Kg	☼	07/26/19 10:00	07/29/19 21:00	10
2-Methylphenol	ND		200	13	ug/Kg	☼	07/26/19 10:00	07/29/19 21:00	10
3 & 4 Methylphenol	ND	F1	260	20	ug/Kg	☼	07/26/19 10:00	07/29/19 21:00	10
Acenaphthene	**7.6**	**J**	33	6.5	ug/Kg	☼	07/26/19 10:00	07/29/19 21:00	10
Acenaphthylene	**9.8**	**J**	33	6.5	ug/Kg	☼	07/26/19 10:00	07/29/19 21:00	10
Anthracene	**36**		33	6.5	ug/Kg	☼	07/26/19 10:00	07/29/19 21:00	10
Benzo[a]anthracene	**93**		33	6.5	ug/Kg	☼	07/26/19 10:00	07/29/19 21:00	10
Benzo[a]pyrene	**76**	**J**	78	17	ug/Kg	☼	07/26/19 10:00	07/29/19 21:00	10
Benzo[g,h,i]perylene	**43**	**J**	78	12	ug/Kg	☼	07/26/19 10:00	07/29/19 21:00	10
Benzofluoranthene	**110**	**J F1**	200	18	ug/Kg	☼	07/26/19 10:00	07/29/19 21:00	10
Benzoic acid	ND		2600	760	ug/Kg	☼	07/26/19 10:00	07/29/19 21:00	10
Benzyl alcohol	ND	F1	650	100	ug/Kg	☼	07/26/19 10:00	07/29/19 21:00	10
Bis(2-ethylhexyl) phthalate	ND	F1	780	93	ug/Kg	☼	07/26/19 10:00	07/29/19 21:00	10
Butyl benzyl phthalate	ND	F1	260	67	ug/Kg	☼	07/26/19 10:00	07/29/19 21:00	10
Carbazole	ND	*	200	11	ug/Kg	☼	07/26/19 10:00	07/29/19 21:00	10
Chrysene	**110**	**F1**	78	17	ug/Kg	☼	07/26/19 10:00	07/29/19 21:00	10
Dibenz(a,h)anthracene	**16**	**J**	65	16	ug/Kg	☼	07/26/19 10:00	07/29/19 21:00	10
Dibenzofuran	ND		200	7.7	ug/Kg	☼	07/26/19 10:00	07/29/19 21:00	10
Diethyl phthalate	ND		2000	99	ug/Kg	☼	07/26/19 10:00	07/29/19 21:00	10
Dimethyl phthalate	ND		200	17	ug/Kg	☼	07/26/19 10:00	07/29/19 21:00	10
Di-n-butyl phthalate	ND	F1	650	74	ug/Kg	☼	07/26/19 10:00	07/29/19 21:00	10
Di-n-octyl phthalate	ND	F1	200	74	ug/Kg	☼	07/26/19 10:00	07/29/19 21:00	10
Fluoranthene	**170**	**F1 B**	33	6.5	ug/Kg	☼	07/26/19 10:00	07/29/19 21:00	10
Fluorene	**11**	**J**	33	6.5	ug/Kg	☼	07/26/19 10:00	07/29/19 21:00	10
Hexachlorobenzene	ND		65	20	ug/Kg	☼	07/26/19 10:00	07/29/19 21:00	10
Hexachlorobutadiene	ND	F1	65	20	ug/Kg	☼	07/26/19 10:00	07/29/19 21:00	10
Indeno[1,2,3-cd]pyrene	**55**		52	6.5	ug/Kg	☼	07/26/19 10:00	07/29/19 21:00	10
Naphthalene	**15**	**J F1**	33	6.5	ug/Kg	☼	07/26/19 10:00	07/29/19 21:00	10
N-Nitrosodiphenylamine	ND		78	10	ug/Kg	☼	07/26/19 10:00	07/29/19 21:00	10
Pentachlorophenol	ND		590	170	ug/Kg	☼	07/26/19 10:00	07/29/19 21:00	10
Phenanthrene	**93**		78	16	ug/Kg	☼	07/26/19 10:00	07/29/19 21:00	10
Phenol	ND	F1	200	30	ug/Kg	☼	07/26/19 10:00	07/29/19 21:00	10
Pyrene	**190**	**F1**	78	8.3	ug/Kg	☼	07/26/19 10:00	07/29/19 21:00	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*136*	*X*	*52 - 125*	*07/26/19 10:00*	*07/29/19 21:00*	*10*
2-Fluorobiphenyl	*70*		*57 - 120*	*07/26/19 10:00*	*07/29/19 21:00*	*10*
2-Fluorophenol	*84*		*60 - 125*	*07/26/19 10:00*	*07/29/19 21:00*	*10*
Nitrobenzene-d5	*86*		*62 - 120*	*07/26/19 10:00*	*07/29/19 21:00*	*10*
Phenol-d5	*71*		*59 - 120*	*07/26/19 10:00*	*07/29/19 21:00*	*10*
Terphenyl-d14	*112*		*58 - 120*	*07/26/19 10:00*	*07/29/19 21:00*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND	F1 F2	0.0027	0.00099	mg/Kg	☼	07/10/19 15:09	07/21/19 00:32	1
PCB-1221	ND		0.0027	0.0013	mg/Kg	☼	07/10/19 15:09	07/21/19 00:32	1

Client Sample ID: BH2-34-S
Date Collected: 07/02/19 13:22
Date Received: 07/03/19 08:15

Lab Sample ID: 580-87377-34
Matrix: Solid
Percent Solids: 73.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		0.0027	0.0013	mg/Kg	☼	07/10/19 15:09	07/21/19 00:32	1
PCB-1242	ND		0.0027	0.00065	mg/Kg	☼	07/10/19 15:09	07/21/19 00:32	1
PCB-1248	ND		0.0027	0.00048	mg/Kg	☼	07/10/19 15:09	07/21/19 00:32	1
PCB-1254	ND		0.0027	0.0011	mg/Kg	☼	07/10/19 15:09	07/21/19 00:32	1
PCB-1260	ND		0.0027	0.0010	mg/Kg	☼	07/10/19 15:09	07/21/19 00:32	1
Polychlorinated biphenyls, Total	ND		0.0027	0.00097	mg/Kg	☼	07/10/19 15:09	07/21/19 00:32	1
PCB-1262	ND		0.0027	0.00063	mg/Kg	☼	07/10/19 15:09	07/21/19 00:32	1
PCB-1268	ND		0.0027	0.00065	mg/Kg	☼	07/10/19 15:09	07/21/19 00:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*76*		*39 - 142*	*07/10/19 15:09*	*07/21/19 00:32*	*1*
Tetrachloro-m-xylene	*59*		*35 - 129*	*07/10/19 15:09*	*07/21/19 00:32*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.1**		0.23	0.046	mg/Kg	☼	07/11/19 13:20	07/16/19 20:09	5
Cadmium	**0.32**		0.18	0.035	mg/Kg	☼	07/11/19 13:20	07/16/19 20:09	5
Chromium	**13**		0.23	0.029	mg/Kg	☼	07/11/19 13:20	07/16/19 20:09	5
Copper	**13**		0.46	0.10	mg/Kg	☼	07/11/19 13:20	07/16/19 20:09	5
Lead	**22**		0.23	0.022	mg/Kg	☼	07/11/19 13:20	07/16/19 20:09	5
Nickel	**11**		0.23	0.089	mg/Kg	☼	07/11/19 13:20	07/16/19 20:09	5
Selenium	**0.84**		0.46	0.13	mg/Kg	☼	07/11/19 13:20	07/16/19 20:09	5
Silver	**0.073**	**J**	0.092	0.0092	mg/Kg	☼	07/11/19 13:20	07/16/19 20:09	5
Zinc	**30**		2.3	0.74	mg/Kg	☼	07/11/19 13:20	07/16/19 20:09	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.075**	**F1**	0.031	0.0092	mg/Kg	☼	07/12/19 11:43	07/12/19 16:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		13	7.2	mg/Kg	☼	07/09/19 12:34	07/09/19 16:08	1
Total Organic Carbon - Duplicates	**9500**		2000	44	mg/Kg			07/15/19 19:28	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Volatile Solids	**1.7**		0.099	0.099	%			07/09/19 15:04	1
Percent Solids	**73.7**		0.1	0.1	%			07/22/19 17:12	1
Percent Moisture	**26.3**		0.1	0.1	%			07/22/19 17:12	1
Total Solids	**73.7**		0.1	0.1	%			07/22/19 17:12	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		150	12	mg/Kg	☼		07/08/19 13:17	1

Method: PSEP Plumb 1981 - Grain Size (PSEP Plumb 1981)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Clay	**3.6**				%			07/09/19 16:31	1
Sand	**82**				%			07/09/19 16:31	1
Silt	**14**				%			07/09/19 16:31	1
Gravel	**0.00**				%			07/09/19 16:31	1
Cobbles	**0.00**				%			07/09/19 16:31	1

Client Sample ID: BH2-33-S
Date Collected: 07/02/19 13:41
Date Received: 07/03/19 08:15

Lab Sample ID: 580-87377-35
Matrix: Solid
Percent Solids: 68.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		69	8.3	ug/Kg	☼	07/26/19 10:00	07/29/19 22:12	10
1,2-Dichlorobenzene	ND		69	17	ug/Kg	☼	07/26/19 10:00	07/29/19 22:12	10
1,4-Dichlorobenzene	ND		69	11	ug/Kg	☼	07/26/19 10:00	07/29/19 22:12	10
2,4-Dimethylphenol	ND	*	140	21	ug/Kg	☼	07/26/19 10:00	07/29/19 22:12	10
2-Methylnaphthalene	ND		69	12	ug/Kg	☼	07/26/19 10:00	07/29/19 22:12	10
2-Methylphenol	ND		210	14	ug/Kg	☼	07/26/19 10:00	07/29/19 22:12	10
3 & 4 Methylphenol	ND		280	21	ug/Kg	☼	07/26/19 10:00	07/29/19 22:12	10
Acenaphthene	ND		35	6.9	ug/Kg	☼	07/26/19 10:00	07/29/19 22:12	10
Acenaphthylene	**7.7**	**J**	35	6.9	ug/Kg	☼	07/26/19 10:00	07/29/19 22:12	10
Anthracene	**27**	**J**	35	6.9	ug/Kg	☼	07/26/19 10:00	07/29/19 22:12	10
Benzo[a]anthracene	**72**		35	6.9	ug/Kg	☼	07/26/19 10:00	07/29/19 22:12	10
Benzo[a]pyrene	**64**	**J**	83	18	ug/Kg	☼	07/26/19 10:00	07/29/19 22:12	10
Benzo[g,h,i]perylene	**43**	**J**	83	12	ug/Kg	☼	07/26/19 10:00	07/29/19 22:12	10
Benzofluoranthene	**26**	**J**	210	19	ug/Kg	☼	07/26/19 10:00	07/29/19 22:12	10
Benzoic acid	ND		2800	800	ug/Kg	☼	07/26/19 10:00	07/29/19 22:12	10
Benzyl alcohol	ND		690	110	ug/Kg	☼	07/26/19 10:00	07/29/19 22:12	10
Bis(2-ethylhexyl) phthalate	ND		830	98	ug/Kg	☼	07/26/19 10:00	07/29/19 22:12	10
Butyl benzyl phthalate	ND		280	70	ug/Kg	☼	07/26/19 10:00	07/29/19 22:12	10
Carbazole	ND	*	210	11	ug/Kg	☼	07/26/19 10:00	07/29/19 22:12	10
Chrysene	**59**	**J**	83	18	ug/Kg	☼	07/26/19 10:00	07/29/19 22:12	10
Dibenz(a,h)anthracene	ND		69	17	ug/Kg	☼	07/26/19 10:00	07/29/19 22:12	10
Dibenzofuran	ND		210	8.1	ug/Kg	☼	07/26/19 10:00	07/29/19 22:12	10
Diethyl phthalate	ND		2100	100	ug/Kg	☼	07/26/19 10:00	07/29/19 22:12	10
Dimethyl phthalate	ND		210	18	ug/Kg	☼	07/26/19 10:00	07/29/19 22:12	10
Di-n-butyl phthalate	ND		690	79	ug/Kg	☼	07/26/19 10:00	07/29/19 22:12	10
Di-n-octyl phthalate	**89**	**J B**	210	79	ug/Kg	☼	07/26/19 10:00	07/29/19 22:12	10
Fluoranthene	**150**	**B**	35	6.9	ug/Kg	☼	07/26/19 10:00	07/29/19 22:12	10
Fluorene	**9.8**	**J**	35	6.9	ug/Kg	☼	07/26/19 10:00	07/29/19 22:12	10
Hexachlorobenzene	ND		69	21	ug/Kg	☼	07/26/19 10:00	07/29/19 22:12	10
Hexachlorobutadiene	ND		69	21	ug/Kg	☼	07/26/19 10:00	07/29/19 22:12	10
Indeno[1,2,3-cd]pyrene	**55**		55	6.9	ug/Kg	☼	07/26/19 10:00	07/29/19 22:12	10
Naphthalene	**11**	**J**	35	6.9	ug/Kg	☼	07/26/19 10:00	07/29/19 22:12	10
N-Nitrosodiphenylamine	ND		83	11	ug/Kg	☼	07/26/19 10:00	07/29/19 22:12	10
Pentachlorophenol	ND		620	180	ug/Kg	☼	07/26/19 10:00	07/29/19 22:12	10
Phenanthrene	**78**	**J**	83	17	ug/Kg	☼	07/26/19 10:00	07/29/19 22:12	10
Phenol	ND		210	32	ug/Kg	☼	07/26/19 10:00	07/29/19 22:12	10
Pyrene	**160**		83	8.8	ug/Kg	☼	07/26/19 10:00	07/29/19 22:12	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*138*	*X*	*52 - 125*	*07/26/19 10:00*	*07/29/19 22:12*	*10*
2-Fluorobiphenyl	*64*		*57 - 120*	*07/26/19 10:00*	*07/29/19 22:12*	*10*
2-Fluorophenol	*75*		*60 - 125*	*07/26/19 10:00*	*07/29/19 22:12*	*10*
Nitrobenzene-d5	*77*		*62 - 120*	*07/26/19 10:00*	*07/29/19 22:12*	*10*
Phenol-d5	*76*		*59 - 120*	*07/26/19 10:00*	*07/29/19 22:12*	*10*
Terphenyl-d14	*100*		*58 - 120*	*07/26/19 10:00*	*07/29/19 22:12*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0028	0.0010	mg/Kg	☼	07/10/19 15:09	07/21/19 01:26	1
PCB-1221	ND		0.0028	0.0013	mg/Kg	☼	07/10/19 15:09	07/21/19 01:26	1

Client Sample ID: BH2-33-S
Lab Sample ID: 580-87377-35
Date Collected: 07/02/19 13:41
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 68.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		0.0028	0.0013	mg/Kg	☼	07/10/19 15:09	07/21/19 01:26	1
PCB-1242	ND		0.0028	0.00069	mg/Kg	☼	07/10/19 15:09	07/21/19 01:26	1
PCB-1248	ND		0.0028	0.00051	mg/Kg	☼	07/10/19 15:09	07/21/19 01:26	1
PCB-1254	**0.0013**	**J**	0.0028	0.0011	mg/Kg	☼	07/10/19 15:09	07/21/19 01:26	1
PCB-1260	ND		0.0028	0.0011	mg/Kg	☼	07/10/19 15:09	07/21/19 01:26	1
Polychlorinated biphenyls, Total	**0.0013**	**J**	0.0028	0.0010	mg/Kg	☼	07/10/19 15:09	07/21/19 01:26	1
PCB-1262	ND		0.0028	0.00066	mg/Kg	☼	07/10/19 15:09	07/21/19 01:26	1
PCB-1268	ND		0.0028	0.00069	mg/Kg	☼	07/10/19 15:09	07/21/19 01:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*68*		*39 - 142*	*07/10/19 15:09*	*07/21/19 01:26*	*1*
Tetrachloro-m-xylene	*53*		*35 - 129*	*07/10/19 15:09*	*07/21/19 01:26*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.4**		0.24	0.048	mg/Kg	☼	07/11/19 13:20	07/16/19 21:46	5
Cadmium	**0.75**		0.19	0.037	mg/Kg	☼	07/11/19 13:20	07/16/19 21:46	5
Chromium	**14**		0.24	0.030	mg/Kg	☼	07/11/19 13:20	07/16/19 21:46	5
Copper	**14**		0.48	0.10	mg/Kg	☼	07/11/19 13:20	07/16/19 21:46	5
Lead	**19**		0.24	0.023	mg/Kg	☼	07/11/19 13:20	07/16/19 21:46	5
Nickel	**12**		0.24	0.092	mg/Kg	☼	07/11/19 13:20	07/16/19 21:46	5
Selenium	**0.90**		0.48	0.14	mg/Kg	☼	07/11/19 13:20	07/16/19 21:46	5
Silver	**0.085**	**J**	0.095	0.0095	mg/Kg	☼	07/11/19 13:20	07/16/19 21:46	5
Zinc	**35**		2.4	0.77	mg/Kg	☼	07/11/19 13:20	07/16/19 21:46	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.086**		0.035	0.010	mg/Kg	☼	07/12/19 11:43	07/12/19 17:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	**220**		14	8.0	mg/Kg	☼	07/09/19 12:34	07/09/19 16:08	1
Total Organic Carbon - Duplicates	**16000**		2000	44	mg/Kg			07/18/19 12:26	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Volatile Solids	**2.2**		0.10	0.10	%			07/09/19 15:04	1
Percent Solids	**68.1**		0.1	0.1	%			07/22/19 17:12	1
Percent Moisture	**31.9**		0.1	0.1	%			07/22/19 17:12	1
Total Solids	**68.1**		0.1	0.1	%			07/22/19 17:12	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		180	14	mg/Kg	☼		07/08/19 13:17	1

Method: PSEP Plumb 1981 - Grain Size (PSEP Plumb 1981)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Clay	**2.9**				%			07/09/19 16:31	1
Sand	**74**				%			07/09/19 16:31	1
Silt	**23**				%			07/09/19 16:31	1
Gravel	**0.10**				%			07/09/19 16:31	1
Cobbles	**0.00**				%			07/09/19 16:31	1

Client Sample ID: BH2-32-S
Date Collected: 07/02/19 13:57
Date Received: 07/03/19 08:15

Lab Sample ID: 580-87377-36
Matrix: Solid
Percent Solids: 28.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		350	42	ug/Kg	☼	07/26/19 10:00	07/29/19 22:36	20
1,2-Dichlorobenzene	ND		350	84	ug/Kg	☼	07/26/19 10:00	07/29/19 22:36	20
1,4-Dichlorobenzene	ND		350	58	ug/Kg	☼	07/26/19 10:00	07/29/19 22:36	20
2,4-Dimethylphenol	ND	*	700	110	ug/Kg	☼	07/26/19 10:00	07/29/19 22:36	20
2-Methylnaphthalene	**1500**		350	62	ug/Kg	☼	07/26/19 10:00	07/29/19 22:36	20
2-Methylphenol	ND		1100	69	ug/Kg	☼	07/26/19 10:00	07/29/19 22:36	20
3 & 4 Methylphenol	ND		1400	110	ug/Kg	☼	07/26/19 10:00	07/29/19 22:36	20
Acenaphthene	**3600**		180	35	ug/Kg	☼	07/26/19 10:00	07/29/19 22:36	20
Acenaphthylene	**1100**		180	35	ug/Kg	☼	07/26/19 10:00	07/29/19 22:36	20
Anthracene	**5500**		180	35	ug/Kg	☼	07/26/19 10:00	07/29/19 22:36	20
Benzo[a]anthracene	**9200**		180	35	ug/Kg	☼	07/26/19 10:00	07/29/19 22:36	20
Benzo[a]pyrene	**7400**		420	91	ug/Kg	☼	07/26/19 10:00	07/29/19 22:36	20
Benzo[g,h,i]perylene	**3500**		420	63	ug/Kg	☼	07/26/19 10:00	07/29/19 22:36	20
Benzofluoranthene	**2900**		1100	98	ug/Kg	☼	07/26/19 10:00	07/29/19 22:36	20
Benzoic acid	ND		14000	4100	ug/Kg	☼	07/26/19 10:00	07/29/19 22:36	20
Benzyl alcohol	ND		3500	540	ug/Kg	☼	07/26/19 10:00	07/29/19 22:36	20
Bis(2-ethylhexyl) phthalate	ND		4200	500	ug/Kg	☼	07/26/19 10:00	07/29/19 22:36	20
Butyl benzyl phthalate	ND		1400	360	ug/Kg	☼	07/26/19 10:00	07/29/19 22:36	20
Carbazole	**1000**	**J ***	1100	57	ug/Kg	☼	07/26/19 10:00	07/29/19 22:36	20
Chrysene	**8900**		420	91	ug/Kg	☼	07/26/19 10:00	07/29/19 22:36	20
Dibenz(a,h)anthracene	**980**		350	84	ug/Kg	☼	07/26/19 10:00	07/29/19 22:36	20
Dibenzofuran	**820**	**J**	1100	41	ug/Kg	☼	07/26/19 10:00	07/29/19 22:36	20
Diethyl phthalate	ND		11000	530	ug/Kg	☼	07/26/19 10:00	07/29/19 22:36	20
Dimethyl phthalate	ND		1100	91	ug/Kg	☼	07/26/19 10:00	07/29/19 22:36	20
Di-n-butyl phthalate	ND		3500	400	ug/Kg	☼	07/26/19 10:00	07/29/19 22:36	20
Di-n-octyl phthalate	ND		1100	400	ug/Kg	☼	07/26/19 10:00	07/29/19 22:36	20
Fluoranthene	**19000**	**B**	180	35	ug/Kg	☼	07/26/19 10:00	07/29/19 22:36	20
Fluorene	**4200**		180	35	ug/Kg	☼	07/26/19 10:00	07/29/19 22:36	20
Hexachlorobenzene	ND		350	110	ug/Kg	☼	07/26/19 10:00	07/29/19 22:36	20
Hexachlorobutadiene	ND		350	110	ug/Kg	☼	07/26/19 10:00	07/29/19 22:36	20
Indeno[1,2,3-cd]pyrene	**4000**		280	35	ug/Kg	☼	07/26/19 10:00	07/29/19 22:36	20
Naphthalene	**3200**		180	35	ug/Kg	☼	07/26/19 10:00	07/29/19 22:36	20
N-Nitrosodiphenylamine	**89**	**J**	420	56	ug/Kg	☼	07/26/19 10:00	07/29/19 22:36	20
Pentachlorophenol	ND		3200	930	ug/Kg	☼	07/26/19 10:00	07/29/19 22:36	20
Phenanthrene	**24000**		420	84	ug/Kg	☼	07/26/19 10:00	07/29/19 22:36	20
Phenol	ND		1100	160	ug/Kg	☼	07/26/19 10:00	07/29/19 22:36	20
Pyrene	**23000**		420	45	ug/Kg	☼	07/26/19 10:00	07/29/19 22:36	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*196*	*X*	*52 - 125*	*07/26/19 10:00*	*07/29/19 22:36*	*20*
2-Fluorobiphenyl	*69*		*57 - 120*	*07/26/19 10:00*	*07/29/19 22:36*	*20*
2-Fluorophenol	*73*		*60 - 125*	*07/26/19 10:00*	*07/29/19 22:36*	*20*
Nitrobenzene-d5	*62*		*62 - 120*	*07/26/19 10:00*	*07/29/19 22:36*	*20*
Phenol-d5	*65*		*59 - 120*	*07/26/19 10:00*	*07/29/19 22:36*	*20*
Terphenyl-d14	*105*		*58 - 120*	*07/26/19 10:00*	*07/29/19 22:36*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0067	0.0025	mg/Kg	☼	07/10/19 15:09	07/21/19 01:45	1
PCB-1221	ND		0.0067	0.0032	mg/Kg	☼	07/10/19 15:09	07/21/19 01:45	1

Client Sample ID: BH2-32-S
Date Collected: 07/02/19 13:57
Date Received: 07/03/19 08:15

Lab Sample ID: 580-87377-36
Matrix: Solid
Percent Solids: 28.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		0.0067	0.0032	mg/Kg	☼	07/10/19 15:09	07/21/19 01:45	1
PCB-1242	ND		0.0067	0.0016	mg/Kg	☼	07/10/19 15:09	07/21/19 01:45	1
PCB-1248	ND		0.0067	0.0012	mg/Kg	☼	07/10/19 15:09	07/21/19 01:45	1
PCB-1254	**0.0054**	**J**	0.0067	0.0026	mg/Kg	☼	07/10/19 15:09	07/21/19 01:45	1
PCB-1260	ND		0.0067	0.0026	mg/Kg	☼	07/10/19 15:09	07/21/19 01:45	1
Polychlorinated biphenyls, Total	**0.0054**	**J**	0.0067	0.0024	mg/Kg	☼	07/10/19 15:09	07/21/19 01:45	1
PCB-1262	ND		0.0067	0.0016	mg/Kg	☼	07/10/19 15:09	07/21/19 01:45	1
PCB-1268	ND		0.0067	0.0016	mg/Kg	☼	07/10/19 15:09	07/21/19 01:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*52*		*39 - 142*	*07/10/19 15:09*	*07/21/19 01:45*	*1*
Tetrachloro-m-xylene	*48*		*35 - 129*	*07/10/19 15:09*	*07/21/19 01:45*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**22**		0.62	0.12	mg/Kg	☼	07/11/19 13:20	07/16/19 21:50	5
Cadmium	**2.2**		0.49	0.095	mg/Kg	☼	07/11/19 13:20	07/16/19 21:50	5
Chromium	**34**		0.62	0.078	mg/Kg	☼	07/11/19 13:20	07/16/19 21:50	5
Copper	**86**		1.2	0.27	mg/Kg	☼	07/11/19 13:20	07/16/19 21:50	5
Lead	**170**		0.62	0.059	mg/Kg	☼	07/11/19 13:20	07/16/19 21:50	5
Nickel	**30**		0.62	0.24	mg/Kg	☼	07/11/19 13:20	07/16/19 21:50	5
Selenium	**2.6**		1.2	0.35	mg/Kg	☼	07/11/19 13:20	07/16/19 21:50	5
Silver	**0.35**		0.25	0.025	mg/Kg	☼	07/11/19 13:20	07/16/19 21:50	5
Zinc	**120**		6.2	2.0	mg/Kg	☼	07/11/19 13:20	07/16/19 21:50	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.60**		0.074	0.022	mg/Kg	☼	07/12/19 11:43	07/12/19 17:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	**130**		35	20	mg/Kg	☼	07/09/19 12:34	07/09/19 16:08	1
Total Organic Carbon - Duplicates	**160000**		2000	44	mg/Kg			07/18/19 12:31	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Volatile Solids	**7.0**		0.096	0.096	%			07/09/19 15:04	1
Percent Solids	**28.2**		0.1	0.1	%			07/22/19 17:12	1
Percent Moisture	**71.8**		0.1	0.1	%			07/22/19 17:12	1
Total Solids	**28.2**		0.1	0.1	%			07/22/19 17:12	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		410	33	mg/Kg	☼		07/08/19 13:17	1

Method: PSEP Plumb 1981 - Grain Size (PSEP Plumb 1981)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Clay	**7.8**				%			07/09/19 16:31	1
Sand	**40**				%			07/09/19 16:31	1
Silt	**50**				%			07/09/19 16:31	1
Gravel	**2.7**				%			07/09/19 16:31	1
Cobbles	**0.00**				%			07/09/19 16:31	1

Client Sample ID: BH2-31-S
Date Collected: 07/02/19 14:15
Date Received: 07/03/19 08:15

Lab Sample ID: 580-87377-37
Matrix: Solid
Percent Solids: 73.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		130	16	ug/Kg	☼	07/26/19 10:00	07/29/19 23:00	20
1,2-Dichlorobenzene	ND		130	31	ug/Kg	☼	07/26/19 10:00	07/29/19 23:00	20
1,4-Dichlorobenzene	ND		130	22	ug/Kg	☼	07/26/19 10:00	07/29/19 23:00	20
2,4-Dimethylphenol	ND	*	260	39	ug/Kg	☼	07/26/19 10:00	07/29/19 23:00	20
2-Methylnaphthalene	ND		130	23	ug/Kg	☼	07/26/19 10:00	07/29/19 23:00	20
2-Methylphenol	ND		390	26	ug/Kg	☼	07/26/19 10:00	07/29/19 23:00	20
3 & 4 Methylphenol	ND		520	39	ug/Kg	☼	07/26/19 10:00	07/29/19 23:00	20
Acenaphthene	**33**	**J**	65	13	ug/Kg	☼	07/26/19 10:00	07/29/19 23:00	20
Acenaphthylene	**36**	**J**	65	13	ug/Kg	☼	07/26/19 10:00	07/29/19 23:00	20
Anthracene	**100**		65	13	ug/Kg	☼	07/26/19 10:00	07/29/19 23:00	20
Benzo[a]anthracene	**200**		65	13	ug/Kg	☼	07/26/19 10:00	07/29/19 23:00	20
Benzo[a]pyrene	**160**		160	34	ug/Kg	☼	07/26/19 10:00	07/29/19 23:00	20
Benzo[g,h,i]perylene	**100**	**J**	160	24	ug/Kg	☼	07/26/19 10:00	07/29/19 23:00	20
Benzofluoranthene	**61**	**J**	390	37	ug/Kg	☼	07/26/19 10:00	07/29/19 23:00	20
Benzoic acid	ND		5200	1500	ug/Kg	☼	07/26/19 10:00	07/29/19 23:00	20
Benzyl alcohol	ND		1300	200	ug/Kg	☼	07/26/19 10:00	07/29/19 23:00	20
Bis(2-ethylhexyl) phthalate	ND		1600	190	ug/Kg	☼	07/26/19 10:00	07/29/19 23:00	20
Butyl benzyl phthalate	ND		520	130	ug/Kg	☼	07/26/19 10:00	07/29/19 23:00	20
Carbazole	ND	*	390	21	ug/Kg	☼	07/26/19 10:00	07/29/19 23:00	20
Chrysene	**170**		160	34	ug/Kg	☼	07/26/19 10:00	07/29/19 23:00	20
Dibenz(a,h)anthracene	ND		130	31	ug/Kg	☼	07/26/19 10:00	07/29/19 23:00	20
Dibenzofuran	**17**	**J**	390	15	ug/Kg	☼	07/26/19 10:00	07/29/19 23:00	20
Diethyl phthalate	ND		3900	200	ug/Kg	☼	07/26/19 10:00	07/29/19 23:00	20
Dimethyl phthalate	ND		390	34	ug/Kg	☼	07/26/19 10:00	07/29/19 23:00	20
Di-n-butyl phthalate	ND		1300	150	ug/Kg	☼	07/26/19 10:00	07/29/19 23:00	20
Di-n-octyl phthalate	ND		390	150	ug/Kg	☼	07/26/19 10:00	07/29/19 23:00	20
Fluoranthene	**450**	**B**	65	13	ug/Kg	☼	07/26/19 10:00	07/29/19 23:00	20
Fluorene	**43**	**J**	65	13	ug/Kg	☼	07/26/19 10:00	07/29/19 23:00	20
Hexachlorobenzene	ND		130	39	ug/Kg	☼	07/26/19 10:00	07/29/19 23:00	20
Hexachlorobutadiene	ND		130	39	ug/Kg	☼	07/26/19 10:00	07/29/19 23:00	20
Indeno[1,2,3-cd]pyrene	**140**		100	13	ug/Kg	☼	07/26/19 10:00	07/29/19 23:00	20
Naphthalene	**28**	**J**	65	13	ug/Kg	☼	07/26/19 10:00	07/29/19 23:00	20
N-Nitrosodiphenylamine	ND		160	21	ug/Kg	☼	07/26/19 10:00	07/29/19 23:00	20
Pentachlorophenol	ND		1200	350	ug/Kg	☼	07/26/19 10:00	07/29/19 23:00	20
Phenanthrene	**380**		160	31	ug/Kg	☼	07/26/19 10:00	07/29/19 23:00	20
Phenol	ND		390	60	ug/Kg	☼	07/26/19 10:00	07/29/19 23:00	20
Pyrene	**470**		160	17	ug/Kg	☼	07/26/19 10:00	07/29/19 23:00	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*198*	*X*	*52 - 125*	*07/26/19 10:00*	*07/29/19 23:00*	*20*
2-Fluorobiphenyl	*75*		*57 - 120*	*07/26/19 10:00*	*07/29/19 23:00*	*20*
2-Fluorophenol	*78*		*60 - 125*	*07/26/19 10:00*	*07/29/19 23:00*	*20*
Nitrobenzene-d5	*68*		*62 - 120*	*07/26/19 10:00*	*07/29/19 23:00*	*20*
Phenol-d5	*88*		*59 - 120*	*07/26/19 10:00*	*07/29/19 23:00*	*20*
Terphenyl-d14	*108*		*58 - 120*	*07/26/19 10:00*	*07/29/19 23:00*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0026	0.00096	mg/Kg	☼	07/10/19 15:09	07/21/19 02:03	1
PCB-1221	ND		0.0026	0.0012	mg/Kg	☼	07/10/19 15:09	07/21/19 02:03	1

Client Sample ID: BH2-31-S
Lab Sample ID: 580-87377-37
Date Collected: 07/02/19 14:15
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 73.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		0.0026	0.0012	mg/Kg	☼	07/10/19 15:09	07/21/19 02:03	1
PCB-1242	ND		0.0026	0.00064	mg/Kg	☼	07/10/19 15:09	07/21/19 02:03	1
PCB-1248	ND		0.0026	0.00047	mg/Kg	☼	07/10/19 15:09	07/21/19 02:03	1
PCB-1254	ND		0.0026	0.0010	mg/Kg	☼	07/10/19 15:09	07/21/19 02:03	1
PCB-1260	ND		0.0026	0.0010	mg/Kg	☼	07/10/19 15:09	07/21/19 02:03	1
Polychlorinated biphenyls, Total	ND		0.0026	0.00095	mg/Kg	☼	07/10/19 15:09	07/21/19 02:03	1
PCB-1262	ND		0.0026	0.00061	mg/Kg	☼	07/10/19 15:09	07/21/19 02:03	1
PCB-1268	ND		0.0026	0.00064	mg/Kg	☼	07/10/19 15:09	07/21/19 02:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*74*		*39 - 142*	*07/10/19 15:09*	*07/21/19 02:03*	*1*
Tetrachloro-m-xylene	*55*		*35 - 129*	*07/10/19 15:09*	*07/21/19 02:03*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.5**		0.21	0.042	mg/Kg	☼	07/11/19 13:20	07/16/19 21:54	5
Cadmium	**0.33**		0.17	0.032	mg/Kg	☼	07/11/19 13:20	07/16/19 21:54	5
Chromium	**21**		0.21	0.026	mg/Kg	☼	07/11/19 13:20	07/16/19 21:54	5
Copper	**17**		0.42	0.091	mg/Kg	☼	07/11/19 13:20	07/16/19 21:54	5
Lead	**35**		0.21	0.020	mg/Kg	☼	07/11/19 13:20	07/16/19 21:54	5
Nickel	**16**		0.21	0.080	mg/Kg	☼	07/11/19 13:20	07/16/19 21:54	5
Selenium	**0.85**		0.42	0.12	mg/Kg	☼	07/11/19 13:20	07/16/19 21:54	5
Silver	**0.074**	**J**	0.083	0.0083	mg/Kg	☼	07/11/19 13:20	07/16/19 21:54	5
Zinc	**42**		2.1	0.67	mg/Kg	☼	07/11/19 13:20	07/16/19 21:54	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.088**		0.028	0.0084	mg/Kg	☼	07/12/19 11:43	07/12/19 17:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		13	7.1	mg/Kg	☼	07/09/19 12:34	07/09/19 16:08	1
Total Organic Carbon - Duplicates	**9900**		2000	44	mg/Kg			07/18/19 12:35	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Volatile Solids	**2.1**		0.099	0.099	%			07/09/19 15:04	1
Percent Solids	**73.4**		0.1	0.1	%			07/22/19 17:12	1
Percent Moisture	**26.6**		0.1	0.1	%			07/22/19 17:12	1
Total Solids	**73.4**		0.1	0.1	%			07/22/19 17:12	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		150	12	mg/Kg	☼		07/08/19 13:17	1

Method: PSEP Plumb 1981 - Grain Size (PSEP Plumb 1981)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Clay	**2.9**				%			07/09/19 16:31	1
Sand	**83**				%			07/09/19 16:31	1
Silt	**13**				%			07/09/19 16:31	1
Gravel	**0.40**				%			07/09/19 16:31	1
Cobbles	**0.00**				%			07/09/19 16:31	1

Client Sample ID: BH2-30-S
Date Collected: 07/02/19 14:29
Date Received: 07/03/19 08:15

Lab Sample ID: 580-87377-38
Matrix: Solid
Percent Solids: 70.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		69	8.2	ug/Kg	☼	07/26/19 10:00	07/29/19 23:24	10
1,2-Dichlorobenzene	ND		69	16	ug/Kg	☼	07/26/19 10:00	07/29/19 23:24	10
1,4-Dichlorobenzene	ND		69	11	ug/Kg	☼	07/26/19 10:00	07/29/19 23:24	10
2,4-Dimethylphenol	ND	*	140	21	ug/Kg	☼	07/26/19 10:00	07/29/19 23:24	10
2-Methylnaphthalene	ND		69	12	ug/Kg	☼	07/26/19 10:00	07/29/19 23:24	10
2-Methylphenol	ND		210	13	ug/Kg	☼	07/26/19 10:00	07/29/19 23:24	10
3 & 4 Methylphenol	ND		270	21	ug/Kg	☼	07/26/19 10:00	07/29/19 23:24	10
Acenaphthene	ND		34	6.9	ug/Kg	☼	07/26/19 10:00	07/29/19 23:24	10
Acenaphthylene	ND		34	6.9	ug/Kg	☼	07/26/19 10:00	07/29/19 23:24	10
Anthracene	**14**	**J**	34	6.9	ug/Kg	☼	07/26/19 10:00	07/29/19 23:24	10
Benzo[a]anthracene	**21**	**J**	34	6.9	ug/Kg	☼	07/26/19 10:00	07/29/19 23:24	10
Benzo[a]pyrene	**23**	**J**	82	18	ug/Kg	☼	07/26/19 10:00	07/29/19 23:24	10
Benzo[g,h,i]perylene	**13**	**J**	82	12	ug/Kg	☼	07/26/19 10:00	07/29/19 23:24	10
Benzofluoranthene	ND		210	19	ug/Kg	☼	07/26/19 10:00	07/29/19 23:24	10
Benzoic acid	ND		2700	790	ug/Kg	☼	07/26/19 10:00	07/29/19 23:24	10
Benzyl alcohol	ND		690	110	ug/Kg	☼	07/26/19 10:00	07/29/19 23:24	10
Bis(2-ethylhexyl) phthalate	ND		820	97	ug/Kg	☼	07/26/19 10:00	07/29/19 23:24	10
Butyl benzyl phthalate	ND		270	70	ug/Kg	☼	07/26/19 10:00	07/29/19 23:24	10
Carbazole	ND	*	210	11	ug/Kg	☼	07/26/19 10:00	07/29/19 23:24	10
Chrysene	**22**	**J**	82	18	ug/Kg	☼	07/26/19 10:00	07/29/19 23:24	10
Dibenz(a,h)anthracene	ND		69	16	ug/Kg	☼	07/26/19 10:00	07/29/19 23:24	10
Dibenzofuran	ND		210	8.1	ug/Kg	☼	07/26/19 10:00	07/29/19 23:24	10
Diethyl phthalate	ND		2100	100	ug/Kg	☼	07/26/19 10:00	07/29/19 23:24	10
Dimethyl phthalate	ND		210	18	ug/Kg	☼	07/26/19 10:00	07/29/19 23:24	10
Di-n-butyl phthalate	ND		690	78	ug/Kg	☼	07/26/19 10:00	07/29/19 23:24	10
Di-n-octyl phthalate	ND		210	78	ug/Kg	☼	07/26/19 10:00	07/29/19 23:24	10
Fluoranthene	**53**	**B**	34	6.9	ug/Kg	☼	07/26/19 10:00	07/29/19 23:24	10
Fluorene	**6.9**	**J**	34	6.9	ug/Kg	☼	07/26/19 10:00	07/29/19 23:24	10
Hexachlorobenzene	ND		69	21	ug/Kg	☼	07/26/19 10:00	07/29/19 23:24	10
Hexachlorobutadiene	ND		69	21	ug/Kg	☼	07/26/19 10:00	07/29/19 23:24	10
Indeno[1,2,3-cd]pyrene	**30**	**J**	55	6.9	ug/Kg	☼	07/26/19 10:00	07/29/19 23:24	10
Naphthalene	**13**	**J**	34	6.9	ug/Kg	☼	07/26/19 10:00	07/29/19 23:24	10
N-Nitrosodiphenylamine	ND		82	11	ug/Kg	☼	07/26/19 10:00	07/29/19 23:24	10
Pentachlorophenol	ND		620	180	ug/Kg	☼	07/26/19 10:00	07/29/19 23:24	10
Phenanthrene	**28**	**J**	82	16	ug/Kg	☼	07/26/19 10:00	07/29/19 23:24	10
Phenol	ND		210	32	ug/Kg	☼	07/26/19 10:00	07/29/19 23:24	10
Pyrene	**59**	**J**	82	8.8	ug/Kg	☼	07/26/19 10:00	07/29/19 23:24	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*153*	*X*	*52 - 125*	*07/26/19 10:00*	*07/29/19 23:24*	*10*
2-Fluorobiphenyl	*72*		*57 - 120*	*07/26/19 10:00*	*07/29/19 23:24*	*10*
2-Fluorophenol	*99*		*60 - 125*	*07/26/19 10:00*	*07/29/19 23:24*	*10*
Nitrobenzene-d5	*69*		*62 - 120*	*07/26/19 10:00*	*07/29/19 23:24*	*10*
Phenol-d5	*91*		*59 - 120*	*07/26/19 10:00*	*07/29/19 23:24*	*10*
Terphenyl-d14	*105*		*58 - 120*	*07/26/19 10:00*	*07/29/19 23:24*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0026	0.00095	mg/Kg	☼	07/10/19 15:09	07/21/19 02:21	1
PCB-1221	ND		0.0026	0.0012	mg/Kg	☼	07/10/19 15:09	07/21/19 02:21	1

Client Sample ID: BH2-30-S
Lab Sample ID: 580-87377-38
Date Collected: 07/02/19 14:29
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 70.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		0.0026	0.0012	mg/Kg	☼	07/10/19 15:09	07/21/19 02:21	1
PCB-1242	ND		0.0026	0.00063	mg/Kg	☼	07/10/19 15:09	07/21/19 02:21	1
PCB-1248	ND		0.0026	0.00046	mg/Kg	☼	07/10/19 15:09	07/21/19 02:21	1
PCB-1254	**0.0010**	**J**	0.0026	0.0010	mg/Kg	☼	07/10/19 15:09	07/21/19 02:21	1
PCB-1260	ND		0.0026	0.00099	mg/Kg	☼	07/10/19 15:09	07/21/19 02:21	1
Polychlorinated biphenyls, Total	**0.0010**	**J**	0.0026	0.00093	mg/Kg	☼	07/10/19 15:09	07/21/19 02:21	1
PCB-1262	ND		0.0026	0.00060	mg/Kg	☼	07/10/19 15:09	07/21/19 02:21	1
PCB-1268	ND		0.0026	0.00063	mg/Kg	☼	07/10/19 15:09	07/21/19 02:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*77*		*39 - 142*	*07/10/19 15:09*	*07/21/19 02:21*	*1*
Tetrachloro-m-xylene	*61*		*35 - 129*	*07/10/19 15:09*	*07/21/19 02:21*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**8.8**		0.23	0.047	mg/Kg	☼	07/11/19 13:20	07/16/19 21:58	5
Cadmium	**0.64**		0.19	0.036	mg/Kg	☼	07/11/19 13:20	07/16/19 21:58	5
Chromium	**11**		0.23	0.029	mg/Kg	☼	07/11/19 13:20	07/16/19 21:58	5
Copper	**12**		0.47	0.10	mg/Kg	☼	07/11/19 13:20	07/16/19 21:58	5
Lead	**17**		0.23	0.022	mg/Kg	☼	07/11/19 13:20	07/16/19 21:58	5
Nickel	**11**		0.23	0.090	mg/Kg	☼	07/11/19 13:20	07/16/19 21:58	5
Selenium	**0.84**		0.47	0.13	mg/Kg	☼	07/11/19 13:20	07/16/19 21:58	5
Silver	**0.067**	**J**	0.093	0.0093	mg/Kg	☼	07/11/19 13:20	07/16/19 21:58	5
Zinc	**30**		2.3	0.75	mg/Kg	☼	07/11/19 13:20	07/16/19 21:58	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.071**		0.027	0.0081	mg/Kg	☼	07/12/19 11:43	07/12/19 17:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		14	7.9	mg/Kg	☼	07/09/19 12:34	07/09/19 16:08	1
Total Organic Carbon - Duplicates	**18000**		2000	44	mg/Kg			07/18/19 12:39	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Volatile Solids	**2.5**		0.098	0.098	%			07/09/19 15:04	1
Percent Solids	**70.3**		0.1	0.1	%			07/22/19 17:12	1
Percent Moisture	**29.7**		0.1	0.1	%			07/22/19 17:12	1
Total Solids	**70.3**		0.1	0.1	%			07/22/19 17:12	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		170	14	mg/Kg	☼		07/08/19 13:17	1

Method: PSEP Plumb 1981 - Grain Size (PSEP Plumb 1981)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Clay	**2.8**				%			07/09/19 16:31	1
Sand	**85**				%			07/09/19 16:31	1
Silt	**13**				%			07/09/19 16:31	1
Gravel	**0.10**				%			07/09/19 16:31	1
Cobbles	**0.00**				%			07/09/19 16:31	1

Client Sample ID: BH2-29-S
Date Collected: 07/02/19 14:41
Date Received: 07/03/19 08:15

Lab Sample ID: 580-87377-39
Matrix: Solid
Percent Solids: 64.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		73	8.8	ug/Kg	☼	07/26/19 10:00	07/29/19 23:48	10
1,2-Dichlorobenzene	ND		73	18	ug/Kg	☼	07/26/19 10:00	07/29/19 23:48	10
1,4-Dichlorobenzene	ND		73	12	ug/Kg	☼	07/26/19 10:00	07/29/19 23:48	10
2,4-Dimethylphenol	ND	*	150	22	ug/Kg	☼	07/26/19 10:00	07/29/19 23:48	10
2-Methylnaphthalene	**16**	**J**	73	13	ug/Kg	☼	07/26/19 10:00	07/29/19 23:48	10
2-Methylphenol	ND		220	14	ug/Kg	☼	07/26/19 10:00	07/29/19 23:48	10
3 & 4 Methylphenol	ND		290	22	ug/Kg	☼	07/26/19 10:00	07/29/19 23:48	10
Acenaphthene	**62**		37	7.3	ug/Kg	☼	07/26/19 10:00	07/29/19 23:48	10
Acenaphthylene	**37**		37	7.3	ug/Kg	☼	07/26/19 10:00	07/29/19 23:48	10
Anthracene	**130**		37	7.3	ug/Kg	☼	07/26/19 10:00	07/29/19 23:48	10
Benzo[a]anthracene	**330**		37	7.3	ug/Kg	☼	07/26/19 10:00	07/29/19 23:48	10
Benzo[a]pyrene	**300**		88	19	ug/Kg	☼	07/26/19 10:00	07/29/19 23:48	10
Benzo[g,h,i]perylene	**160**		88	13	ug/Kg	☼	07/26/19 10:00	07/29/19 23:48	10
Benzofluoranthene	**140**	**J**	220	20	ug/Kg	☼	07/26/19 10:00	07/29/19 23:48	10
Benzoic acid	ND		2900	850	ug/Kg	☼	07/26/19 10:00	07/29/19 23:48	10
Benzyl alcohol	ND		730	110	ug/Kg	☼	07/26/19 10:00	07/29/19 23:48	10
Bis(2-ethylhexyl) phthalate	ND		880	100	ug/Kg	☼	07/26/19 10:00	07/29/19 23:48	10
Butyl benzyl phthalate	ND		290	75	ug/Kg	☼	07/26/19 10:00	07/29/19 23:48	10
Carbazole	ND	*	220	12	ug/Kg	☼	07/26/19 10:00	07/29/19 23:48	10
Chrysene	**330**		88	19	ug/Kg	☼	07/26/19 10:00	07/29/19 23:48	10
Dibenz(a,h)anthracene	**39**	**J**	73	18	ug/Kg	☼	07/26/19 10:00	07/29/19 23:48	10
Dibenzofuran	**19**	**J**	220	8.6	ug/Kg	☼	07/26/19 10:00	07/29/19 23:48	10
Diethyl phthalate	ND		2200	110	ug/Kg	☼	07/26/19 10:00	07/29/19 23:48	10
Dimethyl phthalate	ND		220	19	ug/Kg	☼	07/26/19 10:00	07/29/19 23:48	10
Di-n-butyl phthalate	ND		730	83	ug/Kg	☼	07/26/19 10:00	07/29/19 23:48	10
Di-n-octyl phthalate	ND		220	83	ug/Kg	☼	07/26/19 10:00	07/29/19 23:48	10
Fluoranthene	**720**	**B**	37	7.3	ug/Kg	☼	07/26/19 10:00	07/29/19 23:48	10
Fluorene	**65**		37	7.3	ug/Kg	☼	07/26/19 10:00	07/29/19 23:48	10
Hexachlorobenzene	ND		73	22	ug/Kg	☼	07/26/19 10:00	07/29/19 23:48	10
Hexachlorobutadiene	ND		73	22	ug/Kg	☼	07/26/19 10:00	07/29/19 23:48	10
Indeno[1,2,3-cd]pyrene	**200**		58	7.3	ug/Kg	☼	07/26/19 10:00	07/29/19 23:48	10
Naphthalene	**38**		37	7.3	ug/Kg	☼	07/26/19 10:00	07/29/19 23:48	10
N-Nitrosodiphenylamine	ND		88	12	ug/Kg	☼	07/26/19 10:00	07/29/19 23:48	10
Pentachlorophenol	ND		660	190	ug/Kg	☼	07/26/19 10:00	07/29/19 23:48	10
Phenanthrene	**530**		88	18	ug/Kg	☼	07/26/19 10:00	07/29/19 23:48	10
Phenol	ND		220	34	ug/Kg	☼	07/26/19 10:00	07/29/19 23:48	10
Pyrene	**810**		88	9.4	ug/Kg	☼	07/26/19 10:00	07/29/19 23:48	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*141*	*X*	*52 - 125*	*07/26/19 10:00*	*07/29/19 23:48*	*10*
2-Fluorobiphenyl	*72*		*57 - 120*	*07/26/19 10:00*	*07/29/19 23:48*	*10*
2-Fluorophenol	*85*		*60 - 125*	*07/26/19 10:00*	*07/29/19 23:48*	*10*
Nitrobenzene-d5	*76*		*62 - 120*	*07/26/19 10:00*	*07/29/19 23:48*	*10*
Phenol-d5	*85*		*59 - 120*	*07/26/19 10:00*	*07/29/19 23:48*	*10*
Terphenyl-d14	*113*		*58 - 120*	*07/26/19 10:00*	*07/29/19 23:48*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0030	0.0011	mg/Kg	☼	07/10/19 15:09	07/21/19 02:39	1
PCB-1221	ND		0.0030	0.0014	mg/Kg	☼	07/10/19 15:09	07/21/19 02:39	1

Client Sample ID: BH2-29-S
Lab Sample ID: 580-87377-39
Date Collected: 07/02/19 14:41
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 64.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		0.0030	0.0014	mg/Kg	☼	07/10/19 15:09	07/21/19 02:39	1
PCB-1242	ND		0.0030	0.00073	mg/Kg	☼	07/10/19 15:09	07/21/19 02:39	1
PCB-1248	ND		0.0030	0.00053	mg/Kg	☼	07/10/19 15:09	07/21/19 02:39	1
PCB-1254	**0.0033**		0.0030	0.0012	mg/Kg	☼	07/10/19 15:09	07/21/19 02:39	1
PCB-1260	ND		0.0030	0.0011	mg/Kg	☼	07/10/19 15:09	07/21/19 02:39	1
Polychlorinated biphenyls, Total	**0.0033**		0.0030	0.0011	mg/Kg	☼	07/10/19 15:09	07/21/19 02:39	1
PCB-1262	ND		0.0030	0.00070	mg/Kg	☼	07/10/19 15:09	07/21/19 02:39	1
PCB-1268	ND		0.0030	0.00073	mg/Kg	☼	07/10/19 15:09	07/21/19 02:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*78*		*39 - 142*	*07/10/19 15:09*	*07/21/19 02:39*	*1*
Tetrachloro-m-xylene	*61*		*35 - 129*	*07/10/19 15:09*	*07/21/19 02:39*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**8.2**		0.24	0.047	mg/Kg	☼	07/11/19 13:20	07/16/19 22:03	5
Cadmium	**0.84**		0.19	0.036	mg/Kg	☼	07/11/19 13:20	07/16/19 22:03	5
Chromium	**24**		0.24	0.030	mg/Kg	☼	07/11/19 13:20	07/16/19 22:03	5
Copper	**46**		0.47	0.10	mg/Kg	☼	07/11/19 13:20	07/16/19 22:03	5
Lead	**76**		0.24	0.023	mg/Kg	☼	07/11/19 13:20	07/16/19 22:03	5
Nickel	**19**		0.24	0.091	mg/Kg	☼	07/11/19 13:20	07/16/19 22:03	5
Selenium	**1.3**		0.47	0.13	mg/Kg	☼	07/11/19 13:20	07/16/19 22:03	5
Silver	**0.14**		0.094	0.0094	mg/Kg	☼	07/11/19 13:20	07/16/19 22:03	5
Zinc	**100**		2.4	0.76	mg/Kg	☼	07/11/19 13:20	07/16/19 22:03	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.19**		0.034	0.010	mg/Kg	☼	07/12/19 11:43	07/12/19 17:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	**17**		15	8.2	mg/Kg	☼	07/09/19 12:34	07/09/19 16:08	1
Total Organic Carbon - Duplicates	**35000**		2000	44	mg/Kg			07/18/19 12:44	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Volatile Solids	**4.0**		0.097	0.097	%			07/09/19 15:04	1
Percent Solids	**64.7**		0.1	0.1	%			07/22/19 17:12	1
Percent Moisture	**35.3**		0.1	0.1	%			07/22/19 17:12	1
Total Solids	**64.7**		0.1	0.1	%			07/22/19 17:12	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		180	14	mg/Kg	☼		07/08/19 13:17	1

Method: PSEP Plumb 1981 - Grain Size (PSEP Plumb 1981)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Clay	**3.9**				%			07/09/19 16:31	1
Sand	**67**				%			07/09/19 16:31	1
Silt	**22**				%			07/09/19 16:31	1
Gravel	**7.3**				%			07/09/19 16:31	1
Cobbles	**0.00**				%			07/09/19 16:31	1

Client Sample ID: BH2-26-S
Date Collected: 07/02/19 14:56
Date Received: 07/03/19 08:15

Lab Sample ID: 580-87377-40
Matrix: Solid
Percent Solids: 47.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		200	24	ug/Kg	☼	07/26/19 10:00	07/30/19 00:12	20
1,2-Dichlorobenzene	ND		200	49	ug/Kg	☼	07/26/19 10:00	07/30/19 00:12	20
1,4-Dichlorobenzene	ND		200	34	ug/Kg	☼	07/26/19 10:00	07/30/19 00:12	20
2,4-Dimethylphenol	ND	*	410	61	ug/Kg	☼	07/26/19 10:00	07/30/19 00:12	20
2-Methylnaphthalene	**37**	**J**	200	36	ug/Kg	☼	07/26/19 10:00	07/30/19 00:12	20
2-Methylphenol	ND		610	40	ug/Kg	☼	07/26/19 10:00	07/30/19 00:12	20
3 & 4 Methylphenol	ND		810	61	ug/Kg	☼	07/26/19 10:00	07/30/19 00:12	20
Acenaphthene	**77**	**J**	100	20	ug/Kg	☼	07/26/19 10:00	07/30/19 00:12	20
Acenaphthylene	**63**	**J**	100	20	ug/Kg	☼	07/26/19 10:00	07/30/19 00:12	20
Anthracene	**240**		100	20	ug/Kg	☼	07/26/19 10:00	07/30/19 00:12	20
Benzo[a]anthracene	**720**		100	20	ug/Kg	☼	07/26/19 10:00	07/30/19 00:12	20
Benzo[a]pyrene	**520**		240	53	ug/Kg	☼	07/26/19 10:00	07/30/19 00:12	20
Benzo[g,h,i]perylene	**310**		240	36	ug/Kg	☼	07/26/19 10:00	07/30/19 00:12	20
Benzofluoranthene	**290**	**J**	610	57	ug/Kg	☼	07/26/19 10:00	07/30/19 00:12	20
Benzoic acid	ND		8100	2300	ug/Kg	☼	07/26/19 10:00	07/30/19 00:12	20
Benzyl alcohol	ND		2000	310	ug/Kg	☼	07/26/19 10:00	07/30/19 00:12	20
Bis(2-ethylhexyl) phthalate	ND		2400	290	ug/Kg	☼	07/26/19 10:00	07/30/19 00:12	20
Butyl benzyl phthalate	ND		810	210	ug/Kg	☼	07/26/19 10:00	07/30/19 00:12	20
Carbazole	ND	*	610	33	ug/Kg	☼	07/26/19 10:00	07/30/19 00:12	20
Chrysene	**700**		240	53	ug/Kg	☼	07/26/19 10:00	07/30/19 00:12	20
Dibenz(a,h)anthracene	**74**	**J**	200	49	ug/Kg	☼	07/26/19 10:00	07/30/19 00:12	20
Dibenzofuran	**33**	**J**	610	24	ug/Kg	☼	07/26/19 10:00	07/30/19 00:12	20
Diethyl phthalate	ND		6100	310	ug/Kg	☼	07/26/19 10:00	07/30/19 00:12	20
Dimethyl phthalate	ND		610	53	ug/Kg	☼	07/26/19 10:00	07/30/19 00:12	20
Di-n-butyl phthalate	ND		2000	230	ug/Kg	☼	07/26/19 10:00	07/30/19 00:12	20
Di-n-octyl phthalate	ND		610	230	ug/Kg	☼	07/26/19 10:00	07/30/19 00:12	20
Fluoranthene	**1200**	**B**	100	20	ug/Kg	☼	07/26/19 10:00	07/30/19 00:12	20
Fluorene	**120**		100	20	ug/Kg	☼	07/26/19 10:00	07/30/19 00:12	20
Hexachlorobenzene	ND		200	61	ug/Kg	☼	07/26/19 10:00	07/30/19 00:12	20
Hexachlorobutadiene	ND		200	61	ug/Kg	☼	07/26/19 10:00	07/30/19 00:12	20
Indeno[1,2,3-cd]pyrene	**380**		160	20	ug/Kg	☼	07/26/19 10:00	07/30/19 00:12	20
Naphthalene	**100**		100	20	ug/Kg	☼	07/26/19 10:00	07/30/19 00:12	20
N-Nitrosodiphenylamine	ND		240	32	ug/Kg	☼	07/26/19 10:00	07/30/19 00:12	20
Pentachlorophenol	ND		1800	530	ug/Kg	☼	07/26/19 10:00	07/30/19 00:12	20
Phenanthrene	**900**		240	49	ug/Kg	☼	07/26/19 10:00	07/30/19 00:12	20
Phenol	ND		610	93	ug/Kg	☼	07/26/19 10:00	07/30/19 00:12	20
Pyrene	**1400**		240	26	ug/Kg	☼	07/26/19 10:00	07/30/19 00:12	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*188*	*X*	*52 - 125*	*07/26/19 10:00*	*07/30/19 00:12*	*20*
2-Fluorobiphenyl	*68*		*57 - 120*	*07/26/19 10:00*	*07/30/19 00:12*	*20*
2-Fluorophenol	*68*		*60 - 125*	*07/26/19 10:00*	*07/30/19 00:12*	*20*
Nitrobenzene-d5	*75*		*62 - 120*	*07/26/19 10:00*	*07/30/19 00:12*	*20*
Phenol-d5	*76*		*59 - 120*	*07/26/19 10:00*	*07/30/19 00:12*	*20*
Terphenyl-d14	*101*		*58 - 120*	*07/26/19 10:00*	*07/30/19 00:12*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0040	0.0015	mg/Kg	☼	07/10/19 15:09	07/21/19 02:57	1
PCB-1221	ND		0.0040	0.0019	mg/Kg	☼	07/10/19 15:09	07/21/19 02:57	1

Client Sample ID: BH2-26-S

Date Collected: 07/02/19 14:56
Date Received: 07/03/19 08:15

Lab Sample ID: 580-87377-40

Matrix: Solid
Percent Solids: 47.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		0.0040	0.0019	mg/Kg	☼	07/10/19 15:09	07/21/19 02:57	1
PCB-1242	ND		0.0040	0.00099	mg/Kg	☼	07/10/19 15:09	07/21/19 02:57	1
PCB-1248	ND		0.0040	0.00073	mg/Kg	☼	07/10/19 15:09	07/21/19 02:57	1
PCB-1254	**0.0069**		0.0040	0.0016	mg/Kg	☼	07/10/19 15:09	07/21/19 02:57	1
PCB-1260	ND		0.0040	0.0016	mg/Kg	☼	07/10/19 15:09	07/21/19 02:57	1
Polychlorinated biphenyls, Total	**0.0069**		0.0040	0.0015	mg/Kg	☼	07/10/19 15:09	07/21/19 02:57	1
PCB-1262	ND		0.0040	0.00095	mg/Kg	☼	07/10/19 15:09	07/21/19 02:57	1
PCB-1268	ND		0.0040	0.00099	mg/Kg	☼	07/10/19 15:09	07/21/19 02:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*66*		*39 - 142*	*07/10/19 15:09*	*07/21/19 02:57*	*1*
Tetrachloro-m-xylene	*52*		*35 - 129*	*07/10/19 15:09*	*07/21/19 02:57*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**19**		0.33	0.067	mg/Kg	☼	07/11/19 13:20	07/16/19 22:07	5
Cadmium	**1.8**		0.27	0.051	mg/Kg	☼	07/11/19 13:20	07/16/19 22:07	5
Chromium	**30**		0.33	0.042	mg/Kg	☼	07/11/19 13:20	07/16/19 22:07	5
Copper	**80**		0.67	0.15	mg/Kg	☼	07/11/19 13:20	07/16/19 22:07	5
Lead	**170**		0.33	0.032	mg/Kg	☼	07/11/19 13:20	07/16/19 22:07	5
Nickel	**33**		0.33	0.13	mg/Kg	☼	07/11/19 13:20	07/16/19 22:07	5
Selenium	**2.1**		0.67	0.19	mg/Kg	☼	07/11/19 13:20	07/16/19 22:07	5
Silver	**0.22**		0.13	0.013	mg/Kg	☼	07/11/19 13:20	07/16/19 22:07	5
Zinc	**130**		3.3	1.1	mg/Kg	☼	07/11/19 13:20	07/16/19 22:07	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.35**		0.048	0.014	mg/Kg	☼	07/12/19 11:43	07/12/19 17:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	**200**		20	11	mg/Kg	☼	07/09/19 12:34	07/09/19 16:08	1
Total Organic Carbon - Duplicates	**90000**		2000	44	mg/Kg			07/18/19 13:39	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Volatile Solids	**6.9**		0.099	0.099	%			07/09/19 15:04	1
Percent Solids	**47.2**		0.1	0.1	%			07/22/19 17:12	1
Percent Moisture	**52.8**		0.1	0.1	%			07/22/19 17:12	1
Total Solids	**47.2**		0.1	0.1	%			07/22/19 17:12	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		260	21	mg/Kg	☼		07/08/19 13:17	1

Method: PSEP Plumb 1981 - Grain Size (PSEP Plumb 1981)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Clay	**4.1**				%			07/09/19 16:31	1
Sand	**68**				%			07/09/19 16:31	1
Silt	**28**				%			07/09/19 16:31	1
Gravel	**0.40**				%			07/09/19 16:31	1
Cobbles	**0.00**				%			07/09/19 16:31	1

Client Sample ID: BH2-25-S
Date Collected: 07/02/19 15:11
Date Received: 07/03/19 08:15

Lab Sample ID: 580-87377-41
Matrix: Solid
Percent Solids: 46.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		200	24	ug/Kg	☼	07/26/19 10:00	07/30/19 00:36	20
1,2-Dichlorobenzene	ND		200	48	ug/Kg	☼	07/26/19 10:00	07/30/19 00:36	20
1,4-Dichlorobenzene	ND		200	33	ug/Kg	☼	07/26/19 10:00	07/30/19 00:36	20
2,4-Dimethylphenol	ND	*	400	60	ug/Kg	☼	07/26/19 10:00	07/30/19 00:36	20
2-Methylnaphthalene	**39**	**J**	200	35	ug/Kg	☼	07/26/19 10:00	07/30/19 00:36	20
2-Methylphenol	ND		600	39	ug/Kg	☼	07/26/19 10:00	07/30/19 00:36	20
3 & 4 Methylphenol	ND		800	60	ug/Kg	☼	07/26/19 10:00	07/30/19 00:36	20
Acenaphthene	**78**	**J**	100	20	ug/Kg	☼	07/26/19 10:00	07/30/19 00:36	20
Acenaphthylene	**60**	**J**	100	20	ug/Kg	☼	07/26/19 10:00	07/30/19 00:36	20
Anthracene	**170**		100	20	ug/Kg	☼	07/26/19 10:00	07/30/19 00:36	20
Benzo[a]anthracene	**440**		100	20	ug/Kg	☼	07/26/19 10:00	07/30/19 00:36	20
Benzo[a]pyrene	**430**		240	52	ug/Kg	☼	07/26/19 10:00	07/30/19 00:36	20
Benzo[g,h,i]perylene	**240**		240	36	ug/Kg	☼	07/26/19 10:00	07/30/19 00:36	20
Benzofluoranthene	**230**	**J**	600	56	ug/Kg	☼	07/26/19 10:00	07/30/19 00:36	20
Benzoic acid	ND		8000	2300	ug/Kg	☼	07/26/19 10:00	07/30/19 00:36	20
Benzyl alcohol	ND		2000	310	ug/Kg	☼	07/26/19 10:00	07/30/19 00:36	20
Bis(2-ethylhexyl) phthalate	ND		2400	280	ug/Kg	☼	07/26/19 10:00	07/30/19 00:36	20
Butyl benzyl phthalate	ND		800	200	ug/Kg	☼	07/26/19 10:00	07/30/19 00:36	20
Carbazole	ND	*	600	33	ug/Kg	☼	07/26/19 10:00	07/30/19 00:36	20
Chrysene	**410**		240	52	ug/Kg	☼	07/26/19 10:00	07/30/19 00:36	20
Dibenz(a,h)anthracene	**85**	**J**	200	48	ug/Kg	☼	07/26/19 10:00	07/30/19 00:36	20
Dibenzofuran	**31**	**J**	600	24	ug/Kg	☼	07/26/19 10:00	07/30/19 00:36	20
Diethyl phthalate	ND		6000	300	ug/Kg	☼	07/26/19 10:00	07/30/19 00:36	20
Dimethyl phthalate	ND		600	52	ug/Kg	☼	07/26/19 10:00	07/30/19 00:36	20
Di-n-butyl phthalate	ND		2000	230	ug/Kg	☼	07/26/19 10:00	07/30/19 00:36	20
Di-n-octyl phthalate	ND		600	230	ug/Kg	☼	07/26/19 10:00	07/30/19 00:36	20
Fluoranthene	**910**	**B**	100	20	ug/Kg	☼	07/26/19 10:00	07/30/19 00:36	20
Fluorene	**82**	**J**	100	20	ug/Kg	☼	07/26/19 10:00	07/30/19 00:36	20
Hexachlorobenzene	ND		200	60	ug/Kg	☼	07/26/19 10:00	07/30/19 00:36	20
Hexachlorobutadiene	ND		200	60	ug/Kg	☼	07/26/19 10:00	07/30/19 00:36	20
Indeno[1,2,3-cd]pyrene	**300**		160	20	ug/Kg	☼	07/26/19 10:00	07/30/19 00:36	20
Naphthalene	**93**	**J**	100	20	ug/Kg	☼	07/26/19 10:00	07/30/19 00:36	20
N-Nitrosodiphenylamine	ND		240	32	ug/Kg	☼	07/26/19 10:00	07/30/19 00:36	20
Pentachlorophenol	ND		1800	530	ug/Kg	☼	07/26/19 10:00	07/30/19 00:36	20
Phenanthrene	**650**		240	48	ug/Kg	☼	07/26/19 10:00	07/30/19 00:36	20
Phenol	ND		600	92	ug/Kg	☼	07/26/19 10:00	07/30/19 00:36	20
Pyrene	**1100**		240	26	ug/Kg	☼	07/26/19 10:00	07/30/19 00:36	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*190*	*X*	*52 - 125*	*07/26/19 10:00*	*07/30/19 00:36*	*20*
2-Fluorobiphenyl	*77*		*57 - 120*	*07/26/19 10:00*	*07/30/19 00:36*	*20*
2-Fluorophenol	*93*		*60 - 125*	*07/26/19 10:00*	*07/30/19 00:36*	*20*
Nitrobenzene-d5	*78*		*62 - 120*	*07/26/19 10:00*	*07/30/19 00:36*	*20*
Phenol-d5	*83*		*59 - 120*	*07/26/19 10:00*	*07/30/19 00:36*	*20*
Terphenyl-d14	*111*		*58 - 120*	*07/26/19 10:00*	*07/30/19 00:36*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0042	0.0016	mg/Kg	☼	07/10/19 15:09	07/21/19 03:15	1
PCB-1221	ND		0.0042	0.0020	mg/Kg	☼	07/10/19 15:09	07/21/19 03:15	1

Client Sample ID: BH2-25-S
Lab Sample ID: 580-87377-41
Date Collected: 07/02/19 15:11
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 46.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		0.0042	0.0020	mg/Kg	☼	07/10/19 15:09	07/21/19 03:15	1
PCB-1242	ND		0.0042	0.0010	mg/Kg	☼	07/10/19 15:09	07/21/19 03:15	1
PCB-1248	ND		0.0042	0.00076	mg/Kg	☼	07/10/19 15:09	07/21/19 03:15	1
PCB-1254	**0.0070**		0.0042	0.0017	mg/Kg	☼	07/10/19 15:09	07/21/19 03:15	1
PCB-1260	ND		0.0042	0.0016	mg/Kg	☼	07/10/19 15:09	07/21/19 03:15	1
Polychlorinated biphenyls, Total	**0.0070**		0.0042	0.0015	mg/Kg	☼	07/10/19 15:09	07/21/19 03:15	1
PCB-1262	ND		0.0042	0.00099	mg/Kg	☼	07/10/19 15:09	07/21/19 03:15	1
PCB-1268	ND		0.0042	0.0010	mg/Kg	☼	07/10/19 15:09	07/21/19 03:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*71*		*39 - 142*	*07/10/19 15:09*	*07/21/19 03:15*	*1*
Tetrachloro-m-xylene	*54*		*35 - 129*	*07/10/19 15:09*	*07/21/19 03:15*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**13**		0.38	0.077	mg/Kg	☼	07/11/19 13:20	07/16/19 22:11	5
Cadmium	**1.8**		0.31	0.059	mg/Kg	☼	07/11/19 13:20	07/16/19 22:11	5
Chromium	**27**		0.38	0.048	mg/Kg	☼	07/11/19 13:20	07/16/19 22:11	5
Copper	**67**		0.77	0.17	mg/Kg	☼	07/11/19 13:20	07/16/19 22:11	5
Lead	**260**		0.38	0.037	mg/Kg	☼	07/11/19 13:20	07/16/19 22:11	5
Nickel	**21**		0.38	0.15	mg/Kg	☼	07/11/19 13:20	07/16/19 22:11	5
Selenium	**1.9**		0.77	0.22	mg/Kg	☼	07/11/19 13:20	07/16/19 22:11	5
Silver	**0.25**		0.15	0.015	mg/Kg	☼	07/11/19 13:20	07/16/19 22:11	5
Zinc	**150**		3.8	1.2	mg/Kg	☼	07/11/19 13:20	07/16/19 22:11	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.74**		0.043	0.013	mg/Kg	☼	07/12/19 11:43	07/12/19 17:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	**41**		21	12	mg/Kg	☼	07/09/19 16:36	07/09/19 18:48	1
Total Organic Carbon - Duplicates	**56000**		2000	44	mg/Kg			07/18/19 13:43	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Volatile Solids	**4.9**		0.099	0.099	%			07/09/19 15:04	1
Percent Solids	**46.4**		0.1	0.1	%			07/22/19 17:12	1
Percent Moisture	**53.6**		0.1	0.1	%			07/22/19 17:12	1
Total Solids	**46.4**		0.1	0.1	%			07/22/19 17:12	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		240	19	mg/Kg	☼		07/08/19 13:17	1

Method: PSEP Plumb 1981 - Grain Size (PSEP Plumb 1981)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Clay	**4.1**				%			07/09/19 16:31	1
Sand	**51**				%			07/09/19 16:31	1
Silt	**45**				%			07/09/19 16:31	1
Gravel	**0.00**				%			07/09/19 16:31	1
Cobbles	**0.00**				%			07/09/19 16:31	1

Client Sample ID: BH2-25-D
Date Collected: 07/02/19 15:11
Date Received: 07/03/19 08:15

Lab Sample ID: 580-87377-42
Matrix: Solid
Percent Solids: 46.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		210	25	ug/Kg	☼	07/26/19 10:00	07/30/19 01:00	20
1,2-Dichlorobenzene	ND		210	51	ug/Kg	☼	07/26/19 10:00	07/30/19 01:00	20
1,4-Dichlorobenzene	ND		210	35	ug/Kg	☼	07/26/19 10:00	07/30/19 01:00	20
2,4-Dimethylphenol	ND	*	420	64	ug/Kg	☼	07/26/19 10:00	07/30/19 01:00	20
2-Methylnaphthalene	ND		210	37	ug/Kg	☼	07/26/19 10:00	07/30/19 01:00	20
2-Methylphenol	ND		640	42	ug/Kg	☼	07/26/19 10:00	07/30/19 01:00	20
3 & 4 Methylphenol	ND		850	64	ug/Kg	☼	07/26/19 10:00	07/30/19 01:00	20
Acenaphthene	**64**	**J**	110	21	ug/Kg	☼	07/26/19 10:00	07/30/19 01:00	20
Acenaphthylene	**62**	**J**	110	21	ug/Kg	☼	07/26/19 10:00	07/30/19 01:00	20
Anthracene	**190**		110	21	ug/Kg	☼	07/26/19 10:00	07/30/19 01:00	20
Benzo[a]anthracene	**620**		110	21	ug/Kg	☼	07/26/19 10:00	07/30/19 01:00	20
Benzo[a]pyrene	**580**		250	55	ug/Kg	☼	07/26/19 10:00	07/30/19 01:00	20
Benzo[g,h,i]perylene	**320**		250	38	ug/Kg	☼	07/26/19 10:00	07/30/19 01:00	20
Benzofluoranthene	**300**	**J**	640	59	ug/Kg	☼	07/26/19 10:00	07/30/19 01:00	20
Benzoic acid	ND		8500	2500	ug/Kg	☼	07/26/19 10:00	07/30/19 01:00	20
Benzyl alcohol	ND		2100	330	ug/Kg	☼	07/26/19 10:00	07/30/19 01:00	20
Bis(2-ethylhexyl) phthalate	ND		2500	300	ug/Kg	☼	07/26/19 10:00	07/30/19 01:00	20
Butyl benzyl phthalate	ND		850	220	ug/Kg	☼	07/26/19 10:00	07/30/19 01:00	20
Carbazole	ND	*	640	35	ug/Kg	☼	07/26/19 10:00	07/30/19 01:00	20
Chrysene	**640**		250	55	ug/Kg	☼	07/26/19 10:00	07/30/19 01:00	20
Dibenz(a,h)anthracene	**73**	**J**	210	51	ug/Kg	☼	07/26/19 10:00	07/30/19 01:00	20
Dibenzofuran	**26**	**J**	640	25	ug/Kg	☼	07/26/19 10:00	07/30/19 01:00	20
Diethyl phthalate	ND		6400	320	ug/Kg	☼	07/26/19 10:00	07/30/19 01:00	20
Dimethyl phthalate	ND		640	55	ug/Kg	☼	07/26/19 10:00	07/30/19 01:00	20
Di-n-butyl phthalate	ND		2100	240	ug/Kg	☼	07/26/19 10:00	07/30/19 01:00	20
Di-n-octyl phthalate	ND		640	240	ug/Kg	☼	07/26/19 10:00	07/30/19 01:00	20
Fluoranthene	**1200**	**B**	110	21	ug/Kg	☼	07/26/19 10:00	07/30/19 01:00	20
Fluorene	**96**	**J**	110	21	ug/Kg	☼	07/26/19 10:00	07/30/19 01:00	20
Hexachlorobenzene	ND		210	64	ug/Kg	☼	07/26/19 10:00	07/30/19 01:00	20
Hexachlorobutadiene	ND		210	64	ug/Kg	☼	07/26/19 10:00	07/30/19 01:00	20
Indeno[1,2,3-cd]pyrene	**360**		170	21	ug/Kg	☼	07/26/19 10:00	07/30/19 01:00	20
Naphthalene	**86**	**J**	110	21	ug/Kg	☼	07/26/19 10:00	07/30/19 01:00	20
N-Nitrosodiphenylamine	ND		250	34	ug/Kg	☼	07/26/19 10:00	07/30/19 01:00	20
Pentachlorophenol	ND		1900	560	ug/Kg	☼	07/26/19 10:00	07/30/19 01:00	20
Phenanthrene	**730**		250	51	ug/Kg	☼	07/26/19 10:00	07/30/19 01:00	20
Phenol	ND		640	98	ug/Kg	☼	07/26/19 10:00	07/30/19 01:00	20
Pyrene	**1300**		250	27	ug/Kg	☼	07/26/19 10:00	07/30/19 01:00	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*189*	*X*	*52 - 125*	*07/26/19 10:00*	*07/30/19 01:00*	*20*
2-Fluorobiphenyl	*63*		*57 - 120*	*07/26/19 10:00*	*07/30/19 01:00*	*20*
2-Fluorophenol	*84*		*60 - 125*	*07/26/19 10:00*	*07/30/19 01:00*	*20*
Nitrobenzene-d5	*58*	*X*	*62 - 120*	*07/26/19 10:00*	*07/30/19 01:00*	*20*
Phenol-d5	*81*		*59 - 120*	*07/26/19 10:00*	*07/30/19 01:00*	*20*
Terphenyl-d14	*119*		*58 - 120*	*07/26/19 10:00*	*07/30/19 01:00*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0042	0.0015	mg/Kg	☼	07/10/19 15:09	07/21/19 03:33	1
PCB-1221	ND		0.0042	0.0020	mg/Kg	☼	07/10/19 15:09	07/21/19 03:33	1

Client Sample ID: BH2-25-D

Date Collected: 07/02/19 15:11
Date Received: 07/03/19 08:15

Lab Sample ID: 580-87377-42

Matrix: Solid
Percent Solids: 46.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		0.0042	0.0020	mg/Kg	☼	07/10/19 15:09	07/21/19 03:33	1
PCB-1242	ND		0.0042	0.0010	mg/Kg	☼	07/10/19 15:09	07/21/19 03:33	1
PCB-1248	ND		0.0042	0.00075	mg/Kg	☼	07/10/19 15:09	07/21/19 03:33	1
PCB-1254	**0.0048**		0.0042	0.0016	mg/Kg	☼	07/10/19 15:09	07/21/19 03:33	1
PCB-1260	ND		0.0042	0.0016	mg/Kg	☼	07/10/19 15:09	07/21/19 03:33	1
Polychlorinated biphenyls, Total	**0.0048**		0.0042	0.0015	mg/Kg	☼	07/10/19 15:09	07/21/19 03:33	1
PCB-1262	ND		0.0042	0.00098	mg/Kg	☼	07/10/19 15:09	07/21/19 03:33	1
PCB-1268	ND		0.0042	0.0010	mg/Kg	☼	07/10/19 15:09	07/21/19 03:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*68*		*39 - 142*	*07/10/19 15:09*	*07/21/19 03:33*	*1*
Tetrachloro-m-xylene	*55*		*35 - 129*	*07/10/19 15:09*	*07/21/19 03:33*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**14**		0.34	0.068	mg/Kg	☼	07/11/19 13:20	07/16/19 22:15	5
Cadmium	**1.7**		0.27	0.052	mg/Kg	☼	07/11/19 13:20	07/16/19 22:15	5
Chromium	**26**		0.34	0.043	mg/Kg	☼	07/11/19 13:20	07/16/19 22:15	5
Copper	**67**		0.68	0.15	mg/Kg	☼	07/11/19 13:20	07/16/19 22:15	5
Lead	**210**		0.34	0.033	mg/Kg	☼	07/11/19 13:20	07/16/19 22:15	5
Nickel	**20**		0.34	0.13	mg/Kg	☼	07/11/19 13:20	07/16/19 22:15	5
Selenium	**1.9**		0.68	0.19	mg/Kg	☼	07/11/19 13:20	07/16/19 22:15	5
Silver	**0.25**		0.14	0.014	mg/Kg	☼	07/11/19 13:20	07/16/19 22:15	5
Zinc	**150**		3.4	1.1	mg/Kg	☼	07/11/19 13:20	07/16/19 22:15	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.81**		0.055	0.017	mg/Kg	☼	07/12/19 11:43	07/12/19 17:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	**100**		21	12	mg/Kg	☼	07/09/19 16:36	07/09/19 18:48	1
Total Organic Carbon - Duplicates	**58000**		2000	44	mg/Kg			07/18/19 13:47	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Volatile Solids	**4.6**		0.098	0.098	%			07/09/19 15:04	1
Percent Solids	**46.1**		0.1	0.1	%			07/22/19 17:12	1
Percent Moisture	**53.9**		0.1	0.1	%			07/22/19 17:12	1
Total Solids	**46.1**		0.1	0.1	%			07/22/19 17:12	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		240	19	mg/Kg	☼		07/08/19 13:17	1

Method: PSEP Plumb 1981 - Grain Size (PSEP Plumb 1981)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Clay	**3.9**				%			07/09/19 16:31	1
Sand	**51**				%			07/09/19 16:31	1
Silt	**45**				%			07/09/19 16:31	1
Gravel	**0.00**				%			07/09/19 16:31	1
Cobbles	**0.00**				%			07/09/19 16:31	1

Client: Leidos, Inc.
Job ID: 580-87377-1
Project/Site: 2019 Blakely Harbor Sediment Inv.

Client Sample ID: BH2-25-T
Lab Sample ID: 580-87377-43
Date Collected: 07/02/19 15:11
Matrix: Solid
Date Received: 07/03/19 08:15

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	59000		2000	44	mg/Kg			07/18/19 13:52	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Volatile Solids	4.9		0.10	0.10	%			07/09/19 15:04	1
Percent Solids	46.0		0.1	0.1	%			07/22/19 17:12	1
Percent Moisture	54.0		0.1	0.1	%			07/22/19 17:12	1
Total Solids	46.0		0.1	0.1	%			07/22/19 17:12	1

Method: PSEP Plumb 1981 - Grain Size (PSEP Plumb 1981)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Clay	4.4				%			07/09/19 16:31	1
Sand	51				%			07/09/19 16:31	1
Silt	44				%			07/09/19 16:31	1
Gravel	0.10				%			07/09/19 16:31	1
Cobbles	0.00				%			07/09/19 16:31	1

Client: Leidos, Inc.
Job ID: 580-87377-1
Project/Site: 2019 Blakely Harbor Sediment Inv.

Client Sample ID: BH2-25-T
Lab Sample ID: 580-87377-43
Date Collected: 07/02/19 15:11
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 46.0

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	190		21	12	mg/Kg	☼	07/09/19 16:36	07/09/19 18:48	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		250	20	mg/Kg	☼		07/08/19 13:17	1

Client Sample ID: BH2-24-5
Date Collected: 07/02/19 15:25
Date Received: 07/03/19 08:15

Lab Sample ID: 580-87377-44
Matrix: Solid
Percent Solids: 57.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		85	10	ug/Kg	☼	07/26/19 10:00	07/30/19 01:47	10
1,2-Dichlorobenzene	ND		85	20	ug/Kg	☼	07/26/19 10:00	07/30/19 01:47	10
1,4-Dichlorobenzene	ND		85	14	ug/Kg	☼	07/26/19 10:00	07/30/19 01:47	10
2,4-Dimethylphenol	ND	*	170	25	ug/Kg	☼	07/26/19 10:00	07/30/19 01:47	10
2-Methylnaphthalene	**16**	**J**	85	15	ug/Kg	☼	07/26/19 10:00	07/30/19 01:47	10
2-Methylphenol	ND		250	17	ug/Kg	☼	07/26/19 10:00	07/30/19 01:47	10
3 & 4 Methylphenol	ND		340	25	ug/Kg	☼	07/26/19 10:00	07/30/19 01:47	10
Acenaphthene	**35**	**J**	42	8.5	ug/Kg	☼	07/26/19 10:00	07/30/19 01:47	10
Acenaphthylene	**37**	**J**	42	8.5	ug/Kg	☼	07/26/19 10:00	07/30/19 01:47	10
Anthracene	**84**		42	8.5	ug/Kg	☼	07/26/19 10:00	07/30/19 01:47	10
Benzo[a]anthracene	**210**		42	8.5	ug/Kg	☼	07/26/19 10:00	07/30/19 01:47	10
Benzo[a]pyrene	**210**		100	22	ug/Kg	☼	07/26/19 10:00	07/30/19 01:47	10
Benzo[g,h,i]perylene	**130**		100	15	ug/Kg	☼	07/26/19 10:00	07/30/19 01:47	10
Benzofluoranthene	**85**	**J**	250	24	ug/Kg	☼	07/26/19 10:00	07/30/19 01:47	10
Benzoic acid	ND		3400	980	ug/Kg	☼	07/26/19 10:00	07/30/19 01:47	10
Benzyl alcohol	ND		850	130	ug/Kg	☼	07/26/19 10:00	07/30/19 01:47	10
Bis(2-ethylhexyl) phthalate	ND		1000	120	ug/Kg	☼	07/26/19 10:00	07/30/19 01:47	10
Butyl benzyl phthalate	ND		340	86	ug/Kg	☼	07/26/19 10:00	07/30/19 01:47	10
Carbazole	ND	*	250	14	ug/Kg	☼	07/26/19 10:00	07/30/19 01:47	10
Chrysene	**190**		100	22	ug/Kg	☼	07/26/19 10:00	07/30/19 01:47	10
Dibenz(a,h)anthracene	**42**	**J**	85	20	ug/Kg	☼	07/26/19 10:00	07/30/19 01:47	10
Dibenzofuran	**24**	**J**	250	10	ug/Kg	☼	07/26/19 10:00	07/30/19 01:47	10
Diethyl phthalate	ND		2500	130	ug/Kg	☼	07/26/19 10:00	07/30/19 01:47	10
Dimethyl phthalate	ND		250	22	ug/Kg	☼	07/26/19 10:00	07/30/19 01:47	10
Di-n-butyl phthalate	ND		850	97	ug/Kg	☼	07/26/19 10:00	07/30/19 01:47	10
Di-n-octyl phthalate	ND		250	97	ug/Kg	☼	07/26/19 10:00	07/30/19 01:47	10
Fluoranthene	**520**	**B**	42	8.5	ug/Kg	☼	07/26/19 10:00	07/30/19 01:47	10
Fluorene	**38**	**J**	42	8.5	ug/Kg	☼	07/26/19 10:00	07/30/19 01:47	10
Hexachlorobenzene	ND		85	25	ug/Kg	☼	07/26/19 10:00	07/30/19 01:47	10
Hexachlorobutadiene	ND		85	25	ug/Kg	☼	07/26/19 10:00	07/30/19 01:47	10
Indeno[1,2,3-cd]pyrene	**160**		68	8.5	ug/Kg	☼	07/26/19 10:00	07/30/19 01:47	10
Naphthalene	**64**		42	8.5	ug/Kg	☼	07/26/19 10:00	07/30/19 01:47	10
N-Nitrosodiphenylamine	ND		100	14	ug/Kg	☼	07/26/19 10:00	07/30/19 01:47	10
Pentachlorophenol	ND		760	220	ug/Kg	☼	07/26/19 10:00	07/30/19 01:47	10
Phenanthrene	**370**		100	20	ug/Kg	☼	07/26/19 10:00	07/30/19 01:47	10
Phenol	ND		250	39	ug/Kg	☼	07/26/19 10:00	07/30/19 01:47	10
Pyrene	**540**		100	11	ug/Kg	☼	07/26/19 10:00	07/30/19 01:47	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*161*	*X*	*52 - 125*	*07/26/19 10:00*	*07/30/19 01:47*	*10*
2-Fluorobiphenyl	*82*		*57 - 120*	*07/26/19 10:00*	*07/30/19 01:47*	*10*
2-Fluorophenol	*84*		*60 - 125*	*07/26/19 10:00*	*07/30/19 01:47*	*10*
Nitrobenzene-d5	*96*		*62 - 120*	*07/26/19 10:00*	*07/30/19 01:47*	*10*
Phenol-d5	*78*		*59 - 120*	*07/26/19 10:00*	*07/30/19 01:47*	*10*
Terphenyl-d14	*120*		*58 - 120*	*07/26/19 10:00*	*07/30/19 01:47*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0030	0.0011	mg/Kg	☼	07/10/19 15:14	07/21/19 03:51	1
PCB-1221	ND		0.0030	0.0014	mg/Kg	☼	07/10/19 15:14	07/21/19 03:51	1

Client Sample ID: BH2-24-5
Lab Sample ID: 580-87377-44
Date Collected: 07/02/19 15:25
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 57.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		0.0030	0.0014	mg/Kg	☼	07/10/19 15:14	07/21/19 03:51	1
PCB-1242	ND		0.0030	0.00075	mg/Kg	☼	07/10/19 15:14	07/21/19 03:51	1
PCB-1248	ND		0.0030	0.00055	mg/Kg	☼	07/10/19 15:14	07/21/19 03:51	1
PCB-1254	ND		0.0030	0.0012	mg/Kg	☼	07/10/19 15:14	07/21/19 03:51	1
PCB-1260	ND		0.0030	0.0012	mg/Kg	☼	07/10/19 15:14	07/21/19 03:51	1
Polychlorinated biphenyls, Total	ND		0.0030	0.0011	mg/Kg	☼	07/10/19 15:14	07/21/19 03:51	1
PCB-1262	ND		0.0030	0.00072	mg/Kg	☼	07/10/19 15:14	07/21/19 03:51	1
PCB-1268	ND		0.0030	0.00075	mg/Kg	☼	07/10/19 15:14	07/21/19 03:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*70*		*39 - 142*	*07/10/19 15:14*	*07/21/19 03:51*	*1*
Tetrachloro-m-xylene	*23*	*X*	*35 - 129*	*07/10/19 15:14*	*07/21/19 03:51*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**10**		0.27	0.055	mg/Kg	☼	07/11/19 13:20	07/16/19 22:36	5
Cadmium	**1.3**		0.22	0.042	mg/Kg	☼	07/11/19 13:20	07/16/19 22:36	5
Chromium	**17**		0.27	0.035	mg/Kg	☼	07/11/19 13:20	07/16/19 22:36	5
Copper	**41**		0.55	0.12	mg/Kg	☼	07/11/19 13:20	07/16/19 22:36	5
Lead	**120**		0.27	0.026	mg/Kg	☼	07/11/19 13:20	07/16/19 22:36	5
Nickel	**13**		0.27	0.11	mg/Kg	☼	07/11/19 13:20	07/16/19 22:36	5
Selenium	**1.2**		0.55	0.16	mg/Kg	☼	07/11/19 13:20	07/16/19 22:36	5
Silver	**0.14**		0.11	0.011	mg/Kg	☼	07/11/19 13:20	07/16/19 22:36	5
Zinc	**180**		2.7	0.88	mg/Kg	☼	07/11/19 13:20	07/16/19 22:36	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.21**		0.043	0.013	mg/Kg	☼	07/12/19 11:43	07/12/19 17:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	**54**		17	9.6	mg/Kg	☼	07/09/19 16:36	07/09/19 18:48	1
Total Organic Carbon - Duplicates	**37000**		2000	44	mg/Kg			07/18/19 13:56	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Volatile Solids	**3.7**		0.099	0.099	%			07/09/19 15:04	1
Percent Solids	**57.0**		0.1	0.1	%			07/22/19 17:12	1
Percent Moisture	**43.0**		0.1	0.1	%			07/22/19 17:12	1
Total Solids	**57.0**		0.1	0.1	%			07/22/19 17:12	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		190	15	mg/Kg	☼		07/08/19 13:17	1

Method: PSEP Plumb 1981 - Grain Size (PSEP Plumb 1981)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Clay	**3.3**				%			07/09/19 16:31	1
Sand	**69**				%			07/09/19 16:31	1
Silt	**27**				%			07/09/19 16:31	1
Gravel	**0.20**				%			07/09/19 16:31	1
Cobbles	**0.00**				%			07/09/19 16:31	1

Client Sample ID: BH2-16-S
Date Collected: 07/02/19 15:43
Date Received: 07/03/19 08:15

Lab Sample ID: 580-87377-45
Matrix: Solid
Percent Solids: 31.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		320	39	ug/Kg	☼	07/26/19 10:00	07/30/19 02:11	20
1,2-Dichlorobenzene	ND		320	77	ug/Kg	☼	07/26/19 10:00	07/30/19 02:11	20
1,4-Dichlorobenzene	ND		320	53	ug/Kg	☼	07/26/19 10:00	07/30/19 02:11	20
2,4-Dimethylphenol	ND	*	640	96	ug/Kg	☼	07/26/19 10:00	07/30/19 02:11	20
2-Methylnaphthalene	**570**		320	57	ug/Kg	☼	07/26/19 10:00	07/30/19 02:11	20
2-Methylphenol	ND		960	63	ug/Kg	☼	07/26/19 10:00	07/30/19 02:11	20
3 & 4 Methylphenol	ND		1300	96	ug/Kg	☼	07/26/19 10:00	07/30/19 02:11	20
Acenaphthene	**2500**		160	32	ug/Kg	☼	07/26/19 10:00	07/30/19 02:11	20
Acenaphthylene	**150**	**J**	160	32	ug/Kg	☼	07/26/19 10:00	07/30/19 02:11	20
Anthracene	**3300**		160	32	ug/Kg	☼	07/26/19 10:00	07/30/19 02:11	20
Benzo[a]anthracene	**5000**		160	32	ug/Kg	☼	07/26/19 10:00	07/30/19 02:11	20
Benzo[a]pyrene	**3900**		390	84	ug/Kg	☼	07/26/19 10:00	07/30/19 02:11	20
Benzo[g,h,i]perylene	**2000**		390	58	ug/Kg	☼	07/26/19 10:00	07/30/19 02:11	20
Benzofluoranthene	**1600**		960	90	ug/Kg	☼	07/26/19 10:00	07/30/19 02:11	20
Benzoic acid	ND		13000	3700	ug/Kg	☼	07/26/19 10:00	07/30/19 02:11	20
Benzyl alcohol	ND		3200	490	ug/Kg	☼	07/26/19 10:00	07/30/19 02:11	20
Bis(2-ethylhexyl) phthalate	ND		3900	460	ug/Kg	☼	07/26/19 10:00	07/30/19 02:11	20
Butyl benzyl phthalate	ND		1300	330	ug/Kg	☼	07/26/19 10:00	07/30/19 02:11	20
Carbazole	**970**	*****	960	53	ug/Kg	☼	07/26/19 10:00	07/30/19 02:11	20
Chrysene	**4900**		390	84	ug/Kg	☼	07/26/19 10:00	07/30/19 02:11	20
Dibenz(a,h)anthracene	**380**		320	77	ug/Kg	☼	07/26/19 10:00	07/30/19 02:11	20
Dibenzofuran	**770**	**J**	960	38	ug/Kg	☼	07/26/19 10:00	07/30/19 02:11	20
Diethyl phthalate	ND		9600	490	ug/Kg	☼	07/26/19 10:00	07/30/19 02:11	20
Dimethyl phthalate	ND		960	84	ug/Kg	☼	07/26/19 10:00	07/30/19 02:11	20
Di-n-butyl phthalate	ND		3200	370	ug/Kg	☼	07/26/19 10:00	07/30/19 02:11	20
Di-n-octyl phthalate	ND		960	370	ug/Kg	☼	07/26/19 10:00	07/30/19 02:11	20
Fluoranthene	**11000**	**B**	160	32	ug/Kg	☼	07/26/19 10:00	07/30/19 02:11	20
Fluorene	**1800**		160	32	ug/Kg	☼	07/26/19 10:00	07/30/19 02:11	20
Hexachlorobenzene	ND		320	96	ug/Kg	☼	07/26/19 10:00	07/30/19 02:11	20
Hexachlorobutadiene	ND		320	96	ug/Kg	☼	07/26/19 10:00	07/30/19 02:11	20
Indeno[1,2,3-cd]pyrene	**2200**		260	32	ug/Kg	☼	07/26/19 10:00	07/30/19 02:11	20
Naphthalene	**1000**		160	32	ug/Kg	☼	07/26/19 10:00	07/30/19 02:11	20
N-Nitrosodiphenylamine	**72**	**J**	390	51	ug/Kg	☼	07/26/19 10:00	07/30/19 02:11	20
Pentachlorophenol	ND		2900	850	ug/Kg	☼	07/26/19 10:00	07/30/19 02:11	20
Phenanthrene	**14000**		390	77	ug/Kg	☼	07/26/19 10:00	07/30/19 02:11	20
Phenol	ND		960	150	ug/Kg	☼	07/26/19 10:00	07/30/19 02:11	20
Pyrene	**12000**		390	41	ug/Kg	☼	07/26/19 10:00	07/30/19 02:11	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*203*	*X*	*52 - 125*	*07/26/19 10:00*	*07/30/19 02:11*	*20*
2-Fluorobiphenyl	*67*		*57 - 120*	*07/26/19 10:00*	*07/30/19 02:11*	*20*
2-Fluorophenol	*92*		*60 - 125*	*07/26/19 10:00*	*07/30/19 02:11*	*20*
Nitrobenzene-d5	*65*		*62 - 120*	*07/26/19 10:00*	*07/30/19 02:11*	*20*
Phenol-d5	*81*		*59 - 120*	*07/26/19 10:00*	*07/30/19 02:11*	*20*
Terphenyl-d14	*94*		*58 - 120*	*07/26/19 10:00*	*07/30/19 02:11*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0056	0.0021	mg/Kg	☼	07/10/19 15:14	07/21/19 04:10	1
PCB-1221	ND		0.0056	0.0027	mg/Kg	☼	07/10/19 15:14	07/21/19 04:10	1

Client Sample ID: BH2-16-S
Lab Sample ID: 580-87377-45
Date Collected: 07/02/19 15:43
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 31.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		0.0056	0.0027	mg/Kg	☼	07/10/19 15:14	07/21/19 04:10	1
PCB-1242	ND		0.0056	0.0014	mg/Kg	☼	07/10/19 15:14	07/21/19 04:10	1
PCB-1248	ND		0.0056	0.0010	mg/Kg	☼	07/10/19 15:14	07/21/19 04:10	1
PCB-1254	ND		0.0056	0.0022	mg/Kg	☼	07/10/19 15:14	07/21/19 04:10	1
PCB-1260	ND		0.0056	0.0022	mg/Kg	☼	07/10/19 15:14	07/21/19 04:10	1
Polychlorinated biphenyls, Total	ND		0.0056	0.0020	mg/Kg	☼	07/10/19 15:14	07/21/19 04:10	1
PCB-1262	ND		0.0056	0.0013	mg/Kg	☼	07/10/19 15:14	07/21/19 04:10	1
PCB-1268	ND		0.0056	0.0014	mg/Kg	☼	07/10/19 15:14	07/21/19 04:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*64*		*39 - 142*	*07/10/19 15:14*	*07/21/19 04:10*	*1*
Tetrachloro-m-xylene	*53*		*35 - 129*	*07/10/19 15:14*	*07/21/19 04:10*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**22**		0.57	0.11	mg/Kg	☼	07/11/19 13:20	07/16/19 22:41	5
Cadmium	**2.2**		0.45	0.087	mg/Kg	☼	07/11/19 13:20	07/16/19 22:41	5
Chromium	**22**		0.57	0.071	mg/Kg	☼	07/11/19 13:20	07/16/19 22:41	5
Copper	**64**		1.1	0.25	mg/Kg	☼	07/11/19 13:20	07/16/19 22:41	5
Lead	**140**		0.57	0.054	mg/Kg	☼	07/11/19 13:20	07/16/19 22:41	5
Nickel	**17**		0.57	0.22	mg/Kg	☼	07/11/19 13:20	07/16/19 22:41	5
Selenium	**2.8**		1.1	0.32	mg/Kg	☼	07/11/19 13:20	07/16/19 22:41	5
Silver	**0.27**		0.23	0.023	mg/Kg	☼	07/11/19 13:20	07/16/19 22:41	5
Zinc	**100**		5.7	1.8	mg/Kg	☼	07/11/19 13:20	07/16/19 22:41	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.21**		0.069	0.021	mg/Kg	☼	07/12/19 11:43	07/12/19 17:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	**790**		31	18	mg/Kg	☼	07/09/19 16:36	07/09/19 18:48	1
Total Organic Carbon - Duplicates	**220000**		2000	44	mg/Kg			07/18/19 14:01	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Volatile Solids	**9.5**		0.099	0.099	%			07/09/19 15:04	1
Percent Solids	**31.0**		0.1	0.1	%			07/22/19 17:12	1
Percent Moisture	**69.0**		0.1	0.1	%			07/22/19 17:12	1
Total Solids	**31.0**		0.1	0.1	%			07/22/19 17:12	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		380	31	mg/Kg	☼		07/08/19 13:17	1

Method: PSEP Plumb 1981 - Grain Size (PSEP Plumb 1981)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Clay	**7.4**				%			07/09/19 16:31	1
Sand	**53**				%			07/09/19 16:31	1
Silt	**39**				%			07/09/19 16:31	1
Gravel	**1.1**				%			07/09/19 16:31	1
Cobbles	**0.00**				%			07/09/19 16:31	1

Client Sample ID: BH2-15-ER
Date Collected: 07/01/19 19:15
Date Received: 07/03/19 08:15

Lab Sample ID: 580-87377-46
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		3.8	0.28	ug/L		07/05/19 16:26	07/09/19 19:21	1
1,4-Dichlorobenzene	ND		0.38	0.057	ug/L		07/05/19 16:26	07/09/19 19:21	1
Benzyl alcohol	**2.6**	**J * B**	2.9	0.66	ug/L		07/05/19 16:26	07/09/19 19:21	1
1,2-Dichlorobenzene	ND		0.57	0.096	ug/L		07/05/19 16:26	07/09/19 19:21	1
2-Methylphenol	ND		0.57	0.096	ug/L		07/05/19 16:26	07/09/19 19:21	1
3 & 4 Methylphenol	ND		0.77	0.17	ug/L		07/05/19 16:26	07/09/19 19:21	1
2,4-Dimethylphenol	ND		3.8	0.79	ug/L		07/05/19 16:26	07/09/19 19:21	1
Benzoic acid	**1.5**	**J ***	3.8	0.81	ug/L		07/05/19 16:26	07/09/19 19:21	1
1,2,4-Trichlorobenzene	ND		0.38	0.038	ug/L		07/05/19 16:26	07/09/19 19:21	1
Naphthalene	ND		0.38	0.096	ug/L		07/05/19 16:26	07/09/19 19:21	1
Hexachlorobutadiene	ND		0.96	0.096	ug/L		07/05/19 16:26	07/09/19 19:21	1
2-Methylnaphthalene	ND		0.38	0.057	ug/L		07/05/19 16:26	07/09/19 19:21	1
Dimethyl phthalate	ND		0.57	0.096	ug/L		07/05/19 16:26	07/09/19 19:21	1
Acenaphthylene	ND		0.96	0.096	ug/L		07/05/19 16:26	07/09/19 19:21	1
Acenaphthene	ND		0.38	0.077	ug/L		07/05/19 16:26	07/09/19 19:21	1
Dibenzofuran	ND		0.38	0.057	ug/L		07/05/19 16:26	07/09/19 19:21	1
Diethyl phthalate	ND		11	0.69	ug/L		07/05/19 16:26	07/09/19 19:21	1
Fluorene	ND		1.9	0.086	ug/L		07/05/19 16:26	07/09/19 19:21	1
N-Nitrosodiphenylamine	ND		2.9	0.13	ug/L		07/05/19 16:26	07/09/19 19:21	1
Hexachlorobenzene	ND		0.57	0.096	ug/L		07/05/19 16:26	07/09/19 19:21	1
Pentachlorophenol	ND		9.6	2.4	ug/L		07/05/19 16:26	07/09/19 19:21	1
Phenanthrene	ND		0.96	0.12	ug/L		07/05/19 16:26	07/09/19 19:21	1
Anthracene	ND		14	0.13	ug/L		07/05/19 16:26	07/09/19 19:21	1
Carbazole	ND	*	0.57	0.096	ug/L		07/05/19 16:26	07/09/19 19:21	1
Di-n-butyl phthalate	ND		2.9	0.53	ug/L		07/05/19 16:26	07/09/19 19:21	1
Fluoranthene	ND		2.9	0.14	ug/L		07/05/19 16:26	07/09/19 19:21	1
Pyrene	ND		1.9	0.096	ug/L		07/05/19 16:26	07/09/19 19:21	1
Butyl benzyl phthalate	**0.66**	**J**	9.6	0.35	ug/L		07/05/19 16:26	07/09/19 19:21	1
Benzo[a]anthracene	ND		0.96	0.086	ug/L		07/05/19 16:26	07/09/19 19:21	1
Chrysene	ND		0.57	0.16	ug/L		07/05/19 16:26	07/09/19 19:21	1
Bis(2-ethylhexyl) phthalate	**12**	**J ***	14	6.0	ug/L		07/05/19 16:26	07/09/19 19:21	1
Di-n-octyl phthalate	ND		0.96	0.17	ug/L		07/05/19 16:26	07/09/19 19:21	1
Benzofluoranthene	ND		0.96	0.11	ug/L		07/05/19 16:26	07/09/19 19:21	1
Benzo[a]pyrene	ND		0.96	0.15	ug/L		07/05/19 16:26	07/09/19 19:21	1
Indeno[1,2,3-cd]pyrene	ND		0.96	0.048	ug/L		07/05/19 16:26	07/09/19 19:21	1
Dibenz(a,h)anthracene	ND		0.57	0.096	ug/L		07/05/19 16:26	07/09/19 19:21	1
Benzo[g,h,i]perylene	ND		0.96	0.096	ug/L		07/05/19 16:26	07/09/19 19:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*75*		*36 - 120*	*07/05/19 16:26*	*07/09/19 19:21*	*1*
Phenol-d5	*77*		*38 - 120*	*07/05/19 16:26*	*07/09/19 19:21*	*1*
2,4,6-Tribromophenol	*73*		*48 - 125*	*07/05/19 16:26*	*07/09/19 19:21*	*1*
Nitrobenzene-d5	*87*		*46 - 129*	*07/05/19 16:26*	*07/09/19 19:21*	*1*
2-Fluorobiphenyl	*93*		*50 - 120*	*07/05/19 16:26*	*07/09/19 19:21*	*1*
Terphenyl-d14	*91*		*61 - 126*	*07/05/19 16:26*	*07/09/19 19:21*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.46	0.062	ug/L		07/05/19 09:19	07/12/19 16:00	1
PCB-1221	ND		0.46	0.076	ug/L		07/05/19 09:19	07/12/19 16:00	1

Client: Leidos, Inc.
Job ID: 580-87377-1
Project/Site: 2019 Blakely Harbor Sediment Inv.

Client Sample ID: BH2-15-ER
Lab Sample ID: 580-87377-46

Date Collected: 07/01/19 19:15
Matrix: Water
Date Received: 07/03/19 08:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		0.46	0.064	ug/L		07/05/19 09:19	07/12/19 16:00	1
PCB-1242	ND		0.46	0.060	ug/L		07/05/19 09:19	07/12/19 16:00	1
PCB-1248	ND		0.46	0.053	ug/L		07/05/19 09:19	07/12/19 16:00	1
PCB-1254	ND		0.46	0.076	ug/L		07/05/19 09:19	07/12/19 16:00	1
PCB-1260	ND		0.46	0.062	ug/L		07/05/19 09:19	07/12/19 16:00	1
PCB-1262	ND		0.46	0.064	ug/L		07/05/19 09:19	07/12/19 16:00	1
PCB-1268	ND		0.46	0.060	ug/L		07/05/19 09:19	07/12/19 16:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*40*		*30 - 140*	*07/05/19 09:19*	*07/12/19 16:00*	*1*
Tetrachloro-m-xylene	*65*		*29 - 120*	*07/05/19 09:19*	*07/12/19 16:00*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0012**	**B**	0.0010	0.00020	mg/L		07/15/19 08:49	07/15/19 19:33	1
Cadmium	ND		0.00040	0.00010	mg/L		07/15/19 08:49	07/15/19 19:33	1
Chromium	**0.00062**	**B**	0.00040	0.00017	mg/L		07/15/19 08:49	07/15/19 19:33	1
Copper	ND		0.0020	0.00060	mg/L		07/15/19 08:49	07/15/19 19:33	1
Lead	ND		0.00080	0.00020	mg/L		07/15/19 08:49	07/15/19 19:33	1
Nickel	ND		0.0030	0.00012	mg/L		07/15/19 08:49	07/15/19 19:33	1
Selenium	ND		0.0080	0.0021	mg/L		07/15/19 08:49	07/15/19 19:33	1
Silver	ND		0.00040	0.000055	mg/L		07/15/19 08:49	07/15/19 19:33	1
Zinc	ND		0.0070	0.0019	mg/L		07/15/19 08:49	07/15/19 19:33	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		07/10/19 10:25	07/10/19 15:44	1

Client Sample ID: BH2-16-ER
Date Collected: 07/02/19 16:02
Date Received: 07/03/19 08:15

Lab Sample ID: 580-87377-47
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		3.8	0.28	ug/L		07/05/19 16:26	07/09/19 19:44	1
1,4-Dichlorobenzene	ND		0.38	0.057	ug/L		07/05/19 16:26	07/09/19 19:44	1
Benzyl alcohol	ND	*	2.8	0.66	ug/L		07/05/19 16:26	07/09/19 19:44	1
1,2-Dichlorobenzene	ND		0.57	0.095	ug/L		07/05/19 16:26	07/09/19 19:44	1
2-Methylphenol	ND		0.57	0.095	ug/L		07/05/19 16:26	07/09/19 19:44	1
3 & 4 Methylphenol	ND		0.76	0.17	ug/L		07/05/19 16:26	07/09/19 19:44	1
2,4-Dimethylphenol	ND		3.8	0.79	ug/L		07/05/19 16:26	07/09/19 19:44	1
Benzoic acid	ND	*	3.8	0.81	ug/L		07/05/19 16:26	07/09/19 19:44	1
1,2,4-Trichlorobenzene	ND		0.38	0.038	ug/L		07/05/19 16:26	07/09/19 19:44	1
Naphthalene	ND		0.38	0.095	ug/L		07/05/19 16:26	07/09/19 19:44	1
Hexachlorobutadiene	ND		0.95	0.095	ug/L		07/05/19 16:26	07/09/19 19:44	1
2-Methylnaphthalene	ND		0.38	0.057	ug/L		07/05/19 16:26	07/09/19 19:44	1
Dimethyl phthalate	ND		0.57	0.095	ug/L		07/05/19 16:26	07/09/19 19:44	1
Acenaphthylene	ND		0.95	0.095	ug/L		07/05/19 16:26	07/09/19 19:44	1
Acenaphthene	ND		0.38	0.076	ug/L		07/05/19 16:26	07/09/19 19:44	1
Dibenzofuran	ND		0.38	0.057	ug/L		07/05/19 16:26	07/09/19 19:44	1
Diethyl phthalate	ND		11	0.68	ug/L		07/05/19 16:26	07/09/19 19:44	1
Fluorene	ND		1.9	0.085	ug/L		07/05/19 16:26	07/09/19 19:44	1
N-Nitrosodiphenylamine	ND		2.8	0.13	ug/L		07/05/19 16:26	07/09/19 19:44	1
Hexachlorobenzene	ND		0.57	0.095	ug/L		07/05/19 16:26	07/09/19 19:44	1
Pentachlorophenol	ND		9.5	2.3	ug/L		07/05/19 16:26	07/09/19 19:44	1
Phenanthrene	ND		0.95	0.12	ug/L		07/05/19 16:26	07/09/19 19:44	1
Anthracene	ND		14	0.13	ug/L		07/05/19 16:26	07/09/19 19:44	1
Carbazole	ND	*	0.57	0.095	ug/L		07/05/19 16:26	07/09/19 19:44	1
Di-n-butyl phthalate	ND		2.8	0.52	ug/L		07/05/19 16:26	07/09/19 19:44	1
Fluoranthene	ND		2.8	0.14	ug/L		07/05/19 16:26	07/09/19 19:44	1
Pyrene	ND		1.9	0.095	ug/L		07/05/19 16:26	07/09/19 19:44	1
Butyl benzyl phthalate	ND		9.5	0.35	ug/L		07/05/19 16:26	07/09/19 19:44	1
Benzo[a]anthracene	ND		0.95	0.085	ug/L		07/05/19 16:26	07/09/19 19:44	1
Chrysene	ND		0.57	0.16	ug/L		07/05/19 16:26	07/09/19 19:44	1
Bis(2-ethylhexyl) phthalate	**10**	**J ***	14	6.0	ug/L		07/05/19 16:26	07/09/19 19:44	1
Di-n-octyl phthalate	ND		0.95	0.17	ug/L		07/05/19 16:26	07/09/19 19:44	1
Benzofluoranthene	ND		0.95	0.11	ug/L		07/05/19 16:26	07/09/19 19:44	1
Benzo[a]pyrene	ND		0.95	0.15	ug/L		07/05/19 16:26	07/09/19 19:44	1
Indeno[1,2,3-cd]pyrene	ND		0.95	0.047	ug/L		07/05/19 16:26	07/09/19 19:44	1
Dibenz(a,h)anthracene	ND		0.57	0.095	ug/L		07/05/19 16:26	07/09/19 19:44	1
Benzo[g,h,i]perylene	ND		0.95	0.095	ug/L		07/05/19 16:26	07/09/19 19:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*79*		*36 - 120*	*07/05/19 16:26*	*07/09/19 19:44*	*1*
Phenol-d5	*84*		*38 - 120*	*07/05/19 16:26*	*07/09/19 19:44*	*1*
2,4,6-Tribromophenol	*73*		*48 - 125*	*07/05/19 16:26*	*07/09/19 19:44*	*1*
Nitrobenzene-d5	*93*		*46 - 129*	*07/05/19 16:26*	*07/09/19 19:44*	*1*
2-Fluorobiphenyl	*99*		*50 - 120*	*07/05/19 16:26*	*07/09/19 19:44*	*1*
Terphenyl-d14	*96*		*61 - 126*	*07/05/19 16:26*	*07/09/19 19:44*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.45	0.061	ug/L		07/05/19 09:19	07/12/19 16:17	1
PCB-1221	ND		0.45	0.075	ug/L		07/05/19 09:19	07/12/19 16:17	1

Client: Leidos, Inc.
Project/Site: 2019 Blakely Harbor Sediment Inv.

Job ID: 580-87377-1

Client Sample ID: BH2-16-ER

Date Collected: 07/02/19 16:02
Date Received: 07/03/19 08:15

Lab Sample ID: 580-87377-47

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		0.45	0.063	ug/L		07/05/19 09:19	07/12/19 16:17	1
PCB-1242	ND		0.45	0.059	ug/L		07/05/19 09:19	07/12/19 16:17	1
PCB-1248	ND		0.45	0.052	ug/L		07/05/19 09:19	07/12/19 16:17	1
PCB-1254	ND		0.45	0.075	ug/L		07/05/19 09:19	07/12/19 16:17	1
PCB-1260	ND		0.45	0.061	ug/L		07/05/19 09:19	07/12/19 16:17	1
PCB-1262	ND		0.45	0.063	ug/L		07/05/19 09:19	07/12/19 16:17	1
PCB-1268	ND		0.45	0.059	ug/L		07/05/19 09:19	07/12/19 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*58*		*30 - 140*	*07/05/19 09:19*	*07/12/19 16:17*	*1*
Tetrachloro-m-xylene	*53*		*29 - 120*	*07/05/19 09:19*	*07/12/19 16:17*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0010**	**B**	0.0010	0.00020	mg/L		07/15/19 08:49	07/15/19 19:46	1
Cadmium	ND		0.00040	0.00010	mg/L		07/15/19 08:49	07/15/19 19:46	1
Chromium	**0.00062**	**B**	0.00040	0.00017	mg/L		07/15/19 08:49	07/15/19 19:46	1
Copper	ND		0.0020	0.00060	mg/L		07/15/19 08:49	07/15/19 19:46	1
Lead	**0.00020**	**J**	0.00080	0.00020	mg/L		07/15/19 08:49	07/15/19 19:46	1
Nickel	ND		0.0030	0.00012	mg/L		07/15/19 08:49	07/15/19 19:46	1
Selenium	ND		0.0080	0.0021	mg/L		07/15/19 08:49	07/15/19 19:46	1
Silver	ND		0.00040	0.000055	mg/L		07/15/19 08:49	07/15/19 19:46	1
Zinc	**0.0024**	**J**	0.0070	0.0019	mg/L		07/15/19 08:49	07/15/19 19:46	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		07/10/19 10:25	07/10/19 15:46	1

Client Sample ID: BH2-16-RB
Lab Sample ID: 580-87377-48

Date Collected: 07/02/19 16:02
Matrix: Water
Date Received: 07/03/19 08:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		3.8	0.28	ug/L		07/05/19 16:26	07/09/19 20:07	1
1,4-Dichlorobenzene	ND		0.38	0.057	ug/L		07/05/19 16:26	07/09/19 20:07	1
Benzyl alcohol	**0.87**	**J * B**	2.8	0.66	ug/L		07/05/19 16:26	07/09/19 20:07	1
1,2-Dichlorobenzene	ND		0.57	0.095	ug/L		07/05/19 16:26	07/09/19 20:07	1
2-Methylphenol	ND		0.57	0.095	ug/L		07/05/19 16:26	07/09/19 20:07	1
3 & 4 Methylphenol	ND		0.76	0.17	ug/L		07/05/19 16:26	07/09/19 20:07	1
2,4-Dimethylphenol	ND		3.8	0.79	ug/L		07/05/19 16:26	07/09/19 20:07	1
Benzoic acid	ND	*	3.8	0.81	ug/L		07/05/19 16:26	07/09/19 20:07	1
1,2,4-Trichlorobenzene	ND		0.38	0.038	ug/L		07/05/19 16:26	07/09/19 20:07	1
Naphthalene	ND		0.38	0.095	ug/L		07/05/19 16:26	07/09/19 20:07	1
Hexachlorobutadiene	ND		0.95	0.095	ug/L		07/05/19 16:26	07/09/19 20:07	1
2-Methylnaphthalene	ND		0.38	0.057	ug/L		07/05/19 16:26	07/09/19 20:07	1
Dimethyl phthalate	ND		0.57	0.095	ug/L		07/05/19 16:26	07/09/19 20:07	1
Acenaphthylene	ND		0.95	0.095	ug/L		07/05/19 16:26	07/09/19 20:07	1
Acenaphthene	ND		0.38	0.076	ug/L		07/05/19 16:26	07/09/19 20:07	1
Dibenzofuran	ND		0.38	0.057	ug/L		07/05/19 16:26	07/09/19 20:07	1
Diethyl phthalate	ND		11	0.68	ug/L		07/05/19 16:26	07/09/19 20:07	1
Fluorene	ND		1.9	0.085	ug/L		07/05/19 16:26	07/09/19 20:07	1
N-Nitrosodiphenylamine	ND		2.8	0.13	ug/L		07/05/19 16:26	07/09/19 20:07	1
Hexachlorobenzene	ND		0.57	0.095	ug/L		07/05/19 16:26	07/09/19 20:07	1
Pentachlorophenol	ND		9.5	2.3	ug/L		07/05/19 16:26	07/09/19 20:07	1
Phenanthrene	ND		0.95	0.12	ug/L		07/05/19 16:26	07/09/19 20:07	1
Anthracene	ND		14	0.13	ug/L		07/05/19 16:26	07/09/19 20:07	1
Carbazole	ND	*	0.57	0.095	ug/L		07/05/19 16:26	07/09/19 20:07	1
Di-n-butyl phthalate	ND		2.8	0.52	ug/L		07/05/19 16:26	07/09/19 20:07	1
Fluoranthene	ND		2.8	0.14	ug/L		07/05/19 16:26	07/09/19 20:07	1
Pyrene	ND		1.9	0.095	ug/L		07/05/19 16:26	07/09/19 20:07	1
Butyl benzyl phthalate	**0.39**	**J**	9.5	0.35	ug/L		07/05/19 16:26	07/09/19 20:07	1
Benzo[a]anthracene	ND		0.95	0.085	ug/L		07/05/19 16:26	07/09/19 20:07	1
Chrysene	ND		0.57	0.16	ug/L		07/05/19 16:26	07/09/19 20:07	1
Bis(2-ethylhexyl) phthalate	ND	*	14	6.0	ug/L		07/05/19 16:26	07/09/19 20:07	1
Di-n-octyl phthalate	ND		0.95	0.17	ug/L		07/05/19 16:26	07/09/19 20:07	1
Benzofluoranthene	ND		0.95	0.11	ug/L		07/05/19 16:26	07/09/19 20:07	1
Benzo[a]pyrene	ND		0.95	0.15	ug/L		07/05/19 16:26	07/09/19 20:07	1
Indeno[1,2,3-cd]pyrene	ND		0.95	0.047	ug/L		07/05/19 16:26	07/09/19 20:07	1
Dibenz(a,h)anthracene	ND		0.57	0.095	ug/L		07/05/19 16:26	07/09/19 20:07	1
Benzo[g,h,i]perylene	ND		0.95	0.095	ug/L		07/05/19 16:26	07/09/19 20:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*75*		*36 - 120*	*07/05/19 16:26*	*07/09/19 20:07*	*1*
Phenol-d5	*85*		*38 - 120*	*07/05/19 16:26*	*07/09/19 20:07*	*1*
2,4,6-Tribromophenol	*66*		*48 - 125*	*07/05/19 16:26*	*07/09/19 20:07*	*1*
Nitrobenzene-d5	*88*		*46 - 129*	*07/05/19 16:26*	*07/09/19 20:07*	*1*
2-Fluorobiphenyl	*82*		*50 - 120*	*07/05/19 16:26*	*07/09/19 20:07*	*1*
Terphenyl-d14	*91*		*61 - 126*	*07/05/19 16:26*	*07/09/19 20:07*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.45	0.062	ug/L		07/05/19 09:19	07/12/19 16:33	1
PCB-1221	ND		0.45	0.076	ug/L		07/05/19 09:19	07/12/19 16:33	1

Client: Leidos, Inc.
Project/Site: 2019 Blakely Harbor Sediment Inv.

Job ID: 580-87377-1

Client Sample ID: BH2-16-RB
Date Collected: 07/02/19 16:02
Date Received: 07/03/19 08:15

Lab Sample ID: 580-87377-48
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		0.45	0.064	ug/L		07/05/19 09:19	07/12/19 16:33	1
PCB-1242	ND		0.45	0.060	ug/L		07/05/19 09:19	07/12/19 16:33	1
PCB-1248	ND		0.45	0.053	ug/L		07/05/19 09:19	07/12/19 16:33	1
PCB-1254	ND		0.45	0.076	ug/L		07/05/19 09:19	07/12/19 16:33	1
PCB-1260	ND		0.45	0.062	ug/L		07/05/19 09:19	07/12/19 16:33	1
PCB-1262	ND		0.45	0.064	ug/L		07/05/19 09:19	07/12/19 16:33	1
PCB-1268	ND		0.45	0.060	ug/L		07/05/19 09:19	07/12/19 16:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*52*		*30 - 140*	*07/05/19 09:19*	*07/12/19 16:33*	*1*
Tetrachloro-m-xylene	*55*		*29 - 120*	*07/05/19 09:19*	*07/12/19 16:33*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0010	0.00020	mg/L		07/15/19 08:49	07/16/19 15:22	1
Cadmium	ND		0.00040	0.00010	mg/L		07/15/19 08:49	07/16/19 15:22	1
Chromium	**0.00027**	**J**	0.00040	0.00017	mg/L		07/15/19 08:49	07/16/19 15:22	1
Copper	ND		0.0020	0.00060	mg/L		07/15/19 08:49	07/16/19 15:22	1
Lead	ND		0.00080	0.00020	mg/L		07/15/19 08:49	07/16/19 15:22	1
Nickel	ND		0.0030	0.00012	mg/L		07/15/19 08:49	07/16/19 15:22	1
Selenium	ND		0.0080	0.0021	mg/L		07/15/19 08:49	07/16/19 15:22	1
Silver	ND		0.00040	0.000055	mg/L		07/15/19 08:49	07/16/19 15:22	1
Zinc	ND		0.0070	0.0019	mg/L		07/15/19 08:49	07/16/19 15:22	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		07/10/19 10:25	07/10/19 15:48	1

Client: Leidos, Inc.
Job ID: 580-87377-1
Project/Site: 2019 Blakely Harbor Sediment Inv.

Client Sample ID: PSRM0121
Lab Sample ID: 580-87377-49
Date Collected: 06/24/19 00:01
Matrix: Solid
Date Received: 07/03/19 08:15

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.4		0.1	0.1	%			07/12/19 11:19	1
Percent Solids	97.6		0.1	0.1	%			07/12/19 11:19	1

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

Lab Sample ID: MB 580-304871/1-A
Matrix: Water
Analysis Batch: 305144

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 304871

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.40	0.060	ug/L		07/05/19 16:26	07/09/19 17:48	1
1,2-Dichlorobenzene	ND		0.60	0.10	ug/L		07/05/19 16:26	07/09/19 17:48	1
2-Methylphenol	ND		0.60	0.10	ug/L		07/05/19 16:26	07/09/19 17:48	1
3 & 4 Methylphenol	ND		0.80	0.18	ug/L		07/05/19 16:26	07/09/19 17:48	1
2,4-Dimethylphenol	ND		4.0	0.83	ug/L		07/05/19 16:26	07/09/19 17:48	1
1,2,4-Trichlorobenzene	ND		0.40	0.040	ug/L		07/05/19 16:26	07/09/19 17:48	1
2-Methylnaphthalene	ND		0.40	0.060	ug/L		07/05/19 16:26	07/09/19 17:48	1
Benzoic acid	ND		4.0	0.85	ug/L		07/05/19 16:26	07/09/19 17:48	1
Benzyl alcohol	1.65	J	3.0	0.69	ug/L		07/05/19 16:26	07/09/19 17:48	1
Acenaphthylene	ND		1.0	0.10	ug/L		07/05/19 16:26	07/09/19 17:48	1
Acenaphthene	ND		0.40	0.080	ug/L		07/05/19 16:26	07/09/19 17:48	1
Dibenzofuran	ND		0.40	0.060	ug/L		07/05/19 16:26	07/09/19 17:48	1
Diethyl phthalate	ND		12	0.72	ug/L		07/05/19 16:26	07/09/19 17:48	1
Dimethyl phthalate	ND		0.60	0.10	ug/L		07/05/19 16:26	07/09/19 17:48	1
Anthracene	ND		15	0.14	ug/L		07/05/19 16:26	07/09/19 17:48	1
Carbazole	ND		0.60	0.10	ug/L		07/05/19 16:26	07/09/19 17:48	1
Di-n-butyl phthalate	ND		3.0	0.55	ug/L		07/05/19 16:26	07/09/19 17:48	1
Fluorene	ND		2.0	0.090	ug/L		07/05/19 16:26	07/09/19 17:48	1
Fluoranthene	ND		3.0	0.15	ug/L		07/05/19 16:26	07/09/19 17:48	1
Hexachlorobenzene	ND		0.60	0.10	ug/L		07/05/19 16:26	07/09/19 17:48	1
Hexachlorobutadiene	ND		1.0	0.10	ug/L		07/05/19 16:26	07/09/19 17:48	1
Butyl benzyl phthalate	ND		10	0.37	ug/L		07/05/19 16:26	07/09/19 17:48	1
Benzo[a]anthracene	ND		1.0	0.090	ug/L		07/05/19 16:26	07/09/19 17:48	1
Naphthalene	ND		0.40	0.10	ug/L		07/05/19 16:26	07/09/19 17:48	1
Chrysene	ND		0.60	0.17	ug/L		07/05/19 16:26	07/09/19 17:48	1
Bis(2-ethylhexyl) phthalate	ND		15	6.3	ug/L		07/05/19 16:26	07/09/19 17:48	1
N-Nitrosodiphenylamine	ND		3.0	0.14	ug/L		07/05/19 16:26	07/09/19 17:48	1
Di-n-octyl phthalate	ND		1.0	0.18	ug/L		07/05/19 16:26	07/09/19 17:48	1
Pentachlorophenol	ND		10	2.5	ug/L		07/05/19 16:26	07/09/19 17:48	1
Benzofluoranthene	ND		1.0	0.12	ug/L		07/05/19 16:26	07/09/19 17:48	1
Phenanthrene	ND		1.0	0.13	ug/L		07/05/19 16:26	07/09/19 17:48	1
Benzo[a]pyrene	ND		1.0	0.16	ug/L		07/05/19 16:26	07/09/19 17:48	1
Phenol	ND		4.0	0.29	ug/L		07/05/19 16:26	07/09/19 17:48	1
Indeno[1,2,3-cd]pyrene	ND		1.0	0.050	ug/L		07/05/19 16:26	07/09/19 17:48	1
Dibenz(a,h)anthracene	ND		0.60	0.10	ug/L		07/05/19 16:26	07/09/19 17:48	1
Pyrene	ND		2.0	0.10	ug/L		07/05/19 16:26	07/09/19 17:48	1
Benzo[g,h,i]perylene	ND		1.0	0.10	ug/L		07/05/19 16:26	07/09/19 17:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*55*		*48 - 125*	*07/05/19 16:26*	*07/09/19 17:48*	*1*
2-Fluorobiphenyl	*82*		*50 - 120*	*07/05/19 16:26*	*07/09/19 17:48*	*1*
2-Fluorophenol	*48*		*36 - 120*	*07/05/19 16:26*	*07/09/19 17:48*	*1*
Nitrobenzene-d5	*80*		*46 - 129*	*07/05/19 16:26*	*07/09/19 17:48*	*1*
Phenol-d5	*55*		*38 - 120*	*07/05/19 16:26*	*07/09/19 17:48*	*1*
Terphenyl-d14	*84*		*61 - 126*	*07/05/19 16:26*	*07/09/19 17:48*	*1*

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

Lab Sample ID: LCS 580-304871/2-A
Matrix: Water
Analysis Batch: 305144

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 304871

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	2.00	1.24		ug/L		62	40 - 120
1,2-Dichlorobenzene	2.00	1.31		ug/L		66	44 - 120
2-Methylphenol	2.00	1.45		ug/L		73	43 - 120
3 & 4 Methylphenol	2.00	1.42		ug/L		71	43 - 120
2,4-Dimethylphenol	2.00	1.56	J	ug/L		78	20 - 120
1,2,4-Trichlorobenzene	2.00	1.36		ug/L		68	46 - 120
2-Methylnaphthalene	2.00	1.61		ug/L		80	53 - 120
Benzoic acid	4.00	1.08	J	ug/L		27	20 - 120
Benzyl alcohol	2.00	2.51	J	ug/L		126	20 - 150
Acenaphthylene	2.00	1.64		ug/L		82	50 - 120
Acenaphthene	2.00	1.65		ug/L		83	56 - 120
Dibenzofuran	2.00	1.65		ug/L		82	60 - 120
Diethyl phthalate	2.00	1.90	J	ug/L		95	55 - 135
Dimethyl phthalate	2.00	1.87		ug/L		93	64 - 128
Anthracene	2.00	1.80	J	ug/L		90	44 - 120
Carbazole	2.00	3.11	*	ug/L		155	67 - 135
Di-n-butyl phthalate	2.00	2.14	J	ug/L		107	57 - 136
Fluorene	2.00	1.68	J	ug/L		84	64 - 120
Fluoranthene	2.00	1.93	J	ug/L		97	64 - 128
Hexachlorobenzene	2.00	1.49		ug/L		75	50 - 120
Hexachlorobutadiene	2.00	1.16		ug/L		58	21 - 120
Butyl benzyl phthalate	2.00	2.38	J	ug/L		119	55 - 150
Benzo[a]anthracene	2.00	2.02		ug/L		101	65 - 124
Naphthalene	2.00	1.62		ug/L		81	63 - 120
Chrysene	2.00	1.91		ug/L		96	57 - 126
Bis(2-ethylhexyl) phthalate	2.00	6.47	J *	ug/L		323	20 - 150
N-Nitrosodiphenylamine	2.00	1.77	J	ug/L		89	33 - 120
Di-n-octyl phthalate	2.00	2.33		ug/L		116	51 - 150
Pentachlorophenol	4.00	ND		ug/L		52	20 - 135
Benzofluoranthene	4.00	4.00		ug/L		100	73 - 125
Phenanthrene	2.00	1.77		ug/L		88	63 - 120
Benzo[a]pyrene	2.00	1.90		ug/L		95	41 - 120
Phenol	2.00	1.41	J	ug/L		70	41 - 120
Indeno[1,2,3-cd]pyrene	2.00	2.14		ug/L		107	55 - 148
Dibenz(a,h)anthracene	2.00	1.85		ug/L		92	62 - 131
Pyrene	2.00	1.92	J	ug/L		96	64 - 120
Benzo[g,h,i]perylene	2.00	1.99		ug/L		99	65 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*72*		*48 - 125*
2-Fluorobiphenyl	*77*		*50 - 120*
2-Fluorophenol	*61*		*36 - 120*
Nitrobenzene-d5	*82*		*46 - 129*
Phenol-d5	*67*		*38 - 120*
Terphenyl-d14	*84*		*61 - 126*

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

Lab Sample ID: LCSD 580-304871/3-A
Matrix: Water
Analysis Batch: 305144

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 304871

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene			2.00	1.46		ug/L		73	40 - 120	16	35
1,2-Dichlorobenzene			2.00	1.53		ug/L		76	44 - 120	15	35
2-Methylphenol			2.00	1.86		ug/L		93	43 - 120	25	35
3 & 4 Methylphenol			2.00	1.78		ug/L		89	43 - 120	23	35
2,4-Dimethylphenol			2.00	1.81	J	ug/L		90	20 - 120	15	35
1,2,4-Trichlorobenzene			2.00	1.52		ug/L		76	46 - 120	11	35
2-Methylnaphthalene			2.00	1.83		ug/L		91	53 - 120	13	29
Benzoic acid			4.00	1.72	J *	ug/L		43	20 - 120	45	35
Benzyl alcohol			2.00	6.24	*	ug/L		312	20 - 150	85	35
Acenaphthylene			2.00	2.05		ug/L		103	50 - 120	22	35
Acenaphthene			2.00	2.00		ug/L		100	56 - 120	19	35
Dibenzofuran			2.00	2.00		ug/L		100	60 - 120	19	35
Diethyl phthalate			2.00	2.31	J	ug/L		115	55 - 135	19	35
Dimethyl phthalate			2.00	2.15		ug/L		107	64 - 128	14	24
Anthracene			2.00	2.05	J	ug/L		103	44 - 120	13	26
Carbazole			2.00	3.57	*	ug/L		179	67 - 135	14	20
Di-n-butyl phthalate			2.00	2.43	J	ug/L		121	57 - 136	13	20
Fluorene			2.00	2.01		ug/L		101	64 - 120	18	28
Fluoranthene			2.00	2.08	J	ug/L		104	64 - 128	7	20
Hexachlorobenzene			2.00	1.71		ug/L		86	50 - 120	14	26
Hexachlorobutadiene			2.00	1.38		ug/L		69	21 - 120	17	35
Butyl benzyl phthalate			2.00	2.63	J	ug/L		132	55 - 150	10	35
Benzo[a]anthracene			2.00	2.15		ug/L		107	65 - 124	6	27
Naphthalene			2.00	1.82		ug/L		91	63 - 120	12	34
Chrysene			2.00	2.04		ug/L		102	57 - 126	6	26
Bis(2-ethylhexyl) phthalate			2.00	ND	*	ug/L		250	20 - 150	25	35
N-Nitrosodiphenylamine			2.00	2.10	J	ug/L		105	33 - 120	17	35
Di-n-octyl phthalate			2.00	2.58		ug/L		129	51 - 150	10	26
Pentachlorophenol			4.00	ND		ug/L		57	20 - 135	9	35
Benzofluoranthene			4.00	4.31		ug/L		108	73 - 125	7	20
Phenanthrene			2.00	2.01		ug/L		101	63 - 120	13	20
Benzo[a]pyrene			2.00	2.13		ug/L		107	41 - 120	11	29
Phenol			2.00	1.84	J	ug/L		92	41 - 120	27	35
Indeno[1,2,3-cd]pyrene			2.00	2.43		ug/L		121	55 - 148	13	20
Dibenz(a,h)anthracene			2.00	2.19		ug/L		110	62 - 131	17	28
Pyrene			2.00	2.07		ug/L		104	64 - 120	8	20
Benzo[g,h,i]perylene			2.00	2.24		ug/L		112	65 - 125	12	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*80*		*48 - 125*
2-Fluorobiphenyl	*91*		*50 - 120*
2-Fluorophenol	*78*		*36 - 120*
Nitrobenzene-d5	*92*		*46 - 129*
Phenol-d5	*83*		*38 - 120*
Terphenyl-d14	*94*		*61 - 126*

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

Lab Sample ID: MB 580-305515/1-A
Matrix: Solid
Analysis Batch: 305606

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 305515

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		5.0	0.83	ug/Kg		07/12/19 12:55	07/15/19 10:16	1
1,2-Dichlorobenzene	ND		5.0	1.2	ug/Kg		07/12/19 12:55	07/15/19 10:16	1
2-Methylphenol	ND		15	0.98	ug/Kg		07/12/19 12:55	07/15/19 10:16	1
3 & 4 Methylphenol	ND		20	1.5	ug/Kg		07/12/19 12:55	07/15/19 10:16	1
2,4-Dimethylphenol	ND		10	1.5	ug/Kg		07/12/19 12:55	07/15/19 10:16	1
1,2,4-Trichlorobenzene	ND		5.0	0.60	ug/Kg		07/12/19 12:55	07/15/19 10:16	1
2-Methylnaphthalene	ND		5.0	0.88	ug/Kg		07/12/19 12:55	07/15/19 10:16	1
Benzoic acid	ND		200	58	ug/Kg		07/12/19 12:55	07/15/19 10:16	1
Benzyl alcohol	ND		50	7.7	ug/Kg		07/12/19 12:55	07/15/19 10:16	1
Acenaphthylene	ND		2.5	0.50	ug/Kg		07/12/19 12:55	07/15/19 10:16	1
Acenaphthene	ND		2.5	0.50	ug/Kg		07/12/19 12:55	07/15/19 10:16	1
Dibenzofuran	ND		15	0.59	ug/Kg		07/12/19 12:55	07/15/19 10:16	1
Diethyl phthalate	ND		150	7.6	ug/Kg		07/12/19 12:55	07/15/19 10:16	1
Dimethyl phthalate	ND		15	1.3	ug/Kg		07/12/19 12:55	07/15/19 10:16	1
Anthracene	ND		2.5	0.50	ug/Kg		07/12/19 12:55	07/15/19 10:16	1
Carbazole	ND		15	0.82	ug/Kg		07/12/19 12:55	07/15/19 10:16	1
Di-n-butyl phthalate	ND		50	5.7	ug/Kg		07/12/19 12:55	07/15/19 10:16	1
Fluorene	ND		2.5	0.50	ug/Kg		07/12/19 12:55	07/15/19 10:16	1
Fluoranthene	ND		2.5	0.50	ug/Kg		07/12/19 12:55	07/15/19 10:16	1
Hexachlorobenzene	ND		5.0	1.5	ug/Kg		07/12/19 12:55	07/15/19 10:16	1
Hexachlorobutadiene	ND		5.0	1.5	ug/Kg		07/12/19 12:55	07/15/19 10:16	1
Butyl benzyl phthalate	7.40	J	20	5.1	ug/Kg		07/12/19 12:55	07/15/19 10:16	1
Benzo[a]anthracene	ND		2.5	0.50	ug/Kg		07/12/19 12:55	07/15/19 10:16	1
Naphthalene	ND		2.5	0.50	ug/Kg		07/12/19 12:55	07/15/19 10:16	1
Chrysene	ND		6.0	1.3	ug/Kg		07/12/19 12:55	07/15/19 10:16	1
Bis(2-ethylhexyl) phthalate	8.08	J	60	7.1	ug/Kg		07/12/19 12:55	07/15/19 10:16	1
N-Nitrosodiphenylamine	ND		6.0	0.80	ug/Kg		07/12/19 12:55	07/15/19 10:16	1
Di-n-octyl phthalate	ND		15	5.7	ug/Kg		07/12/19 12:55	07/15/19 10:16	1
Pentachlorophenol	ND		45	13	ug/Kg		07/12/19 12:55	07/15/19 10:16	1
Benzofluoranthene	ND		15	1.4	ug/Kg		07/12/19 12:55	07/15/19 10:16	1
Phenanthrene	ND		6.0	1.2	ug/Kg		07/12/19 12:55	07/15/19 10:16	1
Benzo[a]pyrene	ND		6.0	1.3	ug/Kg		07/12/19 12:55	07/15/19 10:16	1
Phenol	ND		15	2.3	ug/Kg		07/12/19 12:55	07/15/19 10:16	1
Indeno[1,2,3-cd]pyrene	ND		4.0	0.50	ug/Kg		07/12/19 12:55	07/15/19 10:16	1
Dibenz(a,h)anthracene	ND		5.0	1.2	ug/Kg		07/12/19 12:55	07/15/19 10:16	1
Pyrene	ND		6.0	0.64	ug/Kg		07/12/19 12:55	07/15/19 10:16	1
Benzo[g,h,i]perylene	ND		6.0	0.90	ug/Kg		07/12/19 12:55	07/15/19 10:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*69*		*52 - 125*	*07/12/19 12:55*	*07/15/19 10:16*	*1*
2-Fluorobiphenyl	*84*		*57 - 120*	*07/12/19 12:55*	*07/15/19 10:16*	*1*
2-Fluorophenol	*82*		*60 - 125*	*07/12/19 12:55*	*07/15/19 10:16*	*1*
Nitrobenzene-d5	*78*		*62 - 120*	*07/12/19 12:55*	*07/15/19 10:16*	*1*
Phenol-d5	*80*		*59 - 120*	*07/12/19 12:55*	*07/15/19 10:16*	*1*
Terphenyl-d14	*120*		*58 - 120*	*07/12/19 12:55*	*07/15/19 10:16*	*1*

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

Lab Sample ID: LCS 580-305515/2-A
Matrix: Solid
Analysis Batch: 305606

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 305515

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	100	83.2		ug/Kg		83	57 - 120
1,2-Dichlorobenzene	100	86.7		ug/Kg		87	62 - 120
2-Methylphenol	100	81.2		ug/Kg		81	61 - 120
3 & 4 Methylphenol	100	89.8		ug/Kg		90	60 - 120
2,4-Dimethylphenol	100	37.9		ug/Kg		38	37 - 129
1,2,4-Trichlorobenzene	100	83.9		ug/Kg		84	66 - 120
2-Methylnaphthalene	100	85.0		ug/Kg		85	65 - 120
Benzoic acid	200	116	J	ug/Kg		58	10 - 120
Benzyl alcohol	100	103		ug/Kg		103	28 - 134
Acenaphthylene	100	84.9		ug/Kg		85	63 - 120
Acenaphthene	100	79.2		ug/Kg		79	64 - 120
Dibenzofuran	100	87.9		ug/Kg		88	68 - 120
Diethyl phthalate	100	97.5	J	ug/Kg		98	53 - 126
Dimethyl phthalate	100	92.5		ug/Kg		93	66 - 120
Anthracene	100	88.1		ug/Kg		88	67 - 120
Carbazole	100	153	*	ug/Kg		153	70 - 137
Di-n-butyl phthalate	100	104		ug/Kg		104	59 - 129
Fluorene	100	82.7		ug/Kg		83	68 - 121
Fluoranthene	100	105		ug/Kg		105	69 - 120
Hexachlorobenzene	100	83.8		ug/Kg		84	53 - 126
Hexachlorobutadiene	100	87.6		ug/Kg		88	64 - 120
Butyl benzyl phthalate	100	114		ug/Kg		114	59 - 141
Benzo[a]anthracene	100	109		ug/Kg		109	66 - 120
Naphthalene	100	81.2		ug/Kg		81	68 - 120
Chrysene	100	100		ug/Kg		100	63 - 120
Bis(2-ethylhexyl) phthalate	100	118		ug/Kg		118	59 - 136
N-Nitrosodiphenylamine	100	89.9		ug/Kg		90	67 - 120
Di-n-octyl phthalate	100	120		ug/Kg		120	53 - 144
Pentachlorophenol	200	143		ug/Kg		71	18 - 125
Benzofluoranthene	200	209		ug/Kg		104	71 - 120
Phenanthrene	100	93.2		ug/Kg		93	68 - 120
Benzo[a]pyrene	100	89.8		ug/Kg		90	72 - 121
Phenol	100	87.9		ug/Kg		88	59 - 120
Indeno[1,2,3-cd]pyrene	100	98.0		ug/Kg		98	52 - 139
Dibenz(a,h)anthracene	100	100		ug/Kg		100	59 - 132
Pyrene	100	107		ug/Kg		107	73 - 120
Benzo[g,h,i]perylene	100	104		ug/Kg		104	59 - 134

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*97*		*52 - 125*
2-Fluorobiphenyl	*85*		*57 - 120*
2-Fluorophenol	*102*		*60 - 125*
Nitrobenzene-d5	*88*		*62 - 120*
Phenol-d5	*102*		*59 - 120*
Terphenyl-d14	*121*	*X*	*58 - 120*

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

Lab Sample ID: 580-87377-17 MS
Matrix: Solid
Analysis Batch: 305606

Client Sample ID: BH2-02-S
Prep Type: Total/NA
Prep Batch: 305515

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	ND	F1	204	94.8	J F1	ug/Kg	☼	47	66 - 120
1,2-Dichlorobenzene	ND	F1	204	80.0	J F1	ug/Kg	☼	39	62 - 120
1,4-Dichlorobenzene	ND	F1	204	71.7	J F1	ug/Kg	☼	35	57 - 120
2,4-Dimethylphenol	ND		204	181	J	ug/Kg	☼	89	37 - 129
2-Methylnaphthalene	20	J F1	204	150	F1	ug/Kg	☼	64	65 - 120
2-Methylphenol	ND		204	181	J	ug/Kg	☼	89	61 - 120
3 & 4 Methylphenol	400	J F1	204	182	J F1	ug/Kg	☼	-105	60 - 120
Acenaphthene	20	J	204	190		ug/Kg	☼	84	64 - 120
Acenaphthylene	37	J	204	201		ug/Kg	☼	80	63 - 120
Anthracene	51	J F1	204	236		ug/Kg	☼	90	67 - 120
Benzo[a]anthracene	130	F1 F2	204	376	F1	ug/Kg	☼	122	66 - 120
Benzo[a]pyrene	100	J F1 F2	204	345		ug/Kg	☼	120	72 - 121
Benzo[g,h,i]perylene	73	J F1 F2	204	266		ug/Kg	☼	94	59 - 134
Benzofluoranthene	150	J F1 F2	408	549		ug/Kg	☼	98	71 - 120
Benzoic acid	ND		408	1660	J	ug/Kg	☼	NC	10 - 120
Benzyl alcohol	ND	F1	204	ND	F1	ug/Kg	☼	0	28 - 134
Bis(2-ethylhexyl) phthalate	ND	F1	204	317	J F1	ug/Kg	☼	156	59 - 136
Butyl benzyl phthalate	160	J B	204	358	J	ug/Kg	☼	99	59 - 141
Carbazole	ND	*	204	173	J	ug/Kg	☼	85	70 - 137
Chrysene	120	J F1 F2	204	356		ug/Kg	☼	117	63 - 120
Dibenz(a,h)anthracene	26	J F2	204	149		ug/Kg	☼	60	59 - 132
Dibenzofuran	23	J	204	194	J	ug/Kg	☼	84	68 - 120
Diethyl phthalate	ND		204	164	J	ug/Kg	☼	80	53 - 126
Dimethyl phthalate	ND		204	189	J	ug/Kg	☼	93	66 - 120
Di-n-butyl phthalate	ND	F1	204	235	J	ug/Kg	☼	115	59 - 129
Di-n-octyl phthalate	ND	F1	204	335	F1	ug/Kg	☼	165	53 - 144
Fluoranthene	310	F1 F2	204	589	F1	ug/Kg	☼	137	69 - 120
Fluorene	30	J	204	213		ug/Kg	☼	90	68 - 121
Hexachlorobenzene	ND		204	143		ug/Kg	☼	70	53 - 126
Hexachlorobutadiene	ND	F1	204	62.4	J F1	ug/Kg	☼	31	64 - 120
Indeno[1,2,3-cd]pyrene	84	J F1	204	268		ug/Kg	☼	90	52 - 139
Naphthalene	180	F1	204	307	F1	ug/Kg	☼	65	68 - 120
N-Nitrosodiphenylamine	ND		204	149		ug/Kg	☼	73	67 - 120
Pentachlorophenol	ND	F1	408	489	J	ug/Kg	☼	120	18 - 125
Phenanthrene	190	F1 F2	204	476	F1	ug/Kg	☼	142	68 - 120
Phenol	1000		204	178	J 4	ug/Kg	☼	-402	59 - 120
Pyrene	330	F1 F2	204	618	F1	ug/Kg	☼	139	73 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol	*164*	*X*	*52 - 125*
2-Fluorobiphenyl	*69*		*57 - 120*
2-Fluorophenol	*82*		*60 - 125*
Nitrobenzene-d5	*60*	*X*	*62 - 120*
Phenol-d5	*81*		*59 - 120*
Terphenyl-d14	*92*		*58 - 120*

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

Lab Sample ID: 580-87377-17 MSD
Matrix: Solid
Analysis Batch: 305606

Client Sample ID: BH2-02-S
Prep Type: Total/NA
Prep Batch: 305515

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	ND	F1	183	102	F1	ug/Kg	☼	56	66 - 120	7	18
1,2-Dichlorobenzene	ND	F1	183	74.3	J F1	ug/Kg	☼	41	62 - 120	7	30
1,4-Dichlorobenzene	ND	F1	183	67.1	J F1	ug/Kg	☼	37	57 - 120	7	35
2,4-Dimethylphenol	ND		183	185		ug/Kg	☼	101	37 - 129	3	40
2-Methylnaphthalene	20	J F1	183	154		ug/Kg	☼	73	65 - 120	3	21
2-Methylphenol	ND		183	180	J	ug/Kg	☼	98	61 - 120	1	40
3 & 4 Methylphenol	400	J F1	183	186	J F1	ug/Kg	☼	-115	60 - 120	2	36
Acenaphthene	20	J	183	207		ug/Kg	☼	102	64 - 120	9	19
Acenaphthylene	37	J	183	199		ug/Kg	☼	88	63 - 120	1	18
Anthracene	51	J F1	183	301	F1	ug/Kg	☼	136	67 - 120	24	28
Benzo[a]anthracene	130	F1 F2	183	530	F1 F4	ug/Kg	☼	221	66 - 120	34	21
Benzo[a]pyrene	100	J F1 F2	183	463	F1 F4	ug/Kg	☼	198	72 - 121	29	27
Benzo[g,h,i]perylene	73	J F1 F2	183	359	F1 F4	ug/Kg	☼	156	59 - 134	30	26
Benzofluoranthene	150	J F1 F2	366	725	F1 F4	ug/Kg	☼	157	71 - 120	28	25
Benzoic acid	ND		366	1440	J	ug/Kg	☼	NC	10 - 120	14	40
Benzyl alcohol	ND	F1	183	158	J	ug/Kg	☼	86	28 - 134	NC	40
Bis(2-ethylhexyl) phthalate	ND	F1	183	299	J F1	ug/Kg	☼	163	59 - 136	6	25
Butyl benzyl phthalate	160	J B	183	329	J	ug/Kg	☼	94	59 - 141	8	27
Carbazole	ND	*	183	194	J	ug/Kg	☼	106	70 - 137	12	24
Chrysene	120	J F1 F2	183	505	F1 F4	ug/Kg	☼	212	63 - 120	35	27
Dibenz(a,h)anthracene	26	J F2	183	203	F4	ug/Kg	☼	97	59 - 132	31	29
Dibenzofuran	23	J	183	187	J	ug/Kg	☼	90	68 - 120	4	18
Diethyl phthalate	ND		183	171	J	ug/Kg	☼	93	53 - 126	4	22
Dimethyl phthalate	ND		183	179	J	ug/Kg	☼	98	66 - 120	5	21
Di-n-butyl phthalate	ND	F1	183	255	J F1	ug/Kg	☼	139	59 - 129	8	26
Di-n-octyl phthalate	ND	F1	183	320	F1	ug/Kg	☼	175	53 - 144	5	18
Fluoranthene	310	F1 F2	183	942	F1 F4	ug/Kg	☼	345	69 - 120	46	21
Fluorene	30	J	183	222		ug/Kg	☼	105	68 - 121	4	17
Hexachlorobenzene	ND		183	152		ug/Kg	☼	83	53 - 126	6	32
Hexachlorobutadiene	ND	F1	183	71.0	J F1	ug/Kg	☼	39	64 - 120	13	19
Indeno[1,2,3-cd]pyrene	84	J F1	183	356	F1	ug/Kg	☼	148	52 - 139	28	30
Naphthalene	180	F1	183	270	F1	ug/Kg	☼	52	68 - 120	13	15
N-Nitrosodiphenylamine	ND		183	159		ug/Kg	☼	87	67 - 120	7	30
Pentachlorophenol	ND	F1	366	465	J F1	ug/Kg	☼	127	18 - 125	5	40
Phenanthrene	190	F1 F2	183	712	F1 F4	ug/Kg	☼	287	68 - 120	40	27
Phenol	1000		183	163	J 4	ug/Kg	☼	-456	59 - 120	9	30
Pyrene	330	F1 F2	183	1010	F1 F4	ug/Kg	☼	370	73 - 120	48	24

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*208*	*X*	*52 - 125*
2-Fluorobiphenyl	*66*		*57 - 120*
2-Fluorophenol	*85*		*60 - 125*
Nitrobenzene-d5	*68*		*62 - 120*
Phenol-d5	*91*		*59 - 120*
Terphenyl-d14	*101*		*58 - 120*

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

Lab Sample ID: MB 580-306721/1-A
Matrix: Solid
Analysis Batch: 306888

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 306721

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		5.0	0.83	ug/Kg		07/26/19 10:00	07/29/19 16:13	1
1,2-Dichlorobenzene	ND		5.0	1.2	ug/Kg		07/26/19 10:00	07/29/19 16:13	1
2-Methylphenol	ND		15	0.98	ug/Kg		07/26/19 10:00	07/29/19 16:13	1
3 & 4 Methylphenol	ND		20	1.5	ug/Kg		07/26/19 10:00	07/29/19 16:13	1
2,4-Dimethylphenol	ND		10	1.5	ug/Kg		07/26/19 10:00	07/29/19 16:13	1
1,2,4-Trichlorobenzene	ND		5.0	0.60	ug/Kg		07/26/19 10:00	07/29/19 16:13	1
2-Methylnaphthalene	ND		5.0	0.88	ug/Kg		07/26/19 10:00	07/29/19 16:13	1
Benzoic acid	ND		200	58	ug/Kg		07/26/19 10:00	07/29/19 16:13	1
Benzyl alcohol	ND		50	7.7	ug/Kg		07/26/19 10:00	07/29/19 16:13	1
Acenaphthylene	ND		2.5	0.50	ug/Kg		07/26/19 10:00	07/29/19 16:13	1
Acenaphthene	ND		2.5	0.50	ug/Kg		07/26/19 10:00	07/29/19 16:13	1
Dibenzofuran	ND		15	0.59	ug/Kg		07/26/19 10:00	07/29/19 16:13	1
Diethyl phthalate	ND		150	7.6	ug/Kg		07/26/19 10:00	07/29/19 16:13	1
Dimethyl phthalate	ND		15	1.3	ug/Kg		07/26/19 10:00	07/29/19 16:13	1
Anthracene	ND		2.5	0.50	ug/Kg		07/26/19 10:00	07/29/19 16:13	1
Carbazole	ND		15	0.82	ug/Kg		07/26/19 10:00	07/29/19 16:13	1
Di-n-butyl phthalate	7.80	J	50	5.7	ug/Kg		07/26/19 10:00	07/29/19 16:13	1
Fluorene	ND		2.5	0.50	ug/Kg		07/26/19 10:00	07/29/19 16:13	1
Fluoranthene	0.634	J	2.5	0.50	ug/Kg		07/26/19 10:00	07/29/19 16:13	1
Hexachlorobenzene	ND		5.0	1.5	ug/Kg		07/26/19 10:00	07/29/19 16:13	1
Hexachlorobutadiene	ND		5.0	1.5	ug/Kg		07/26/19 10:00	07/29/19 16:13	1
Butyl benzyl phthalate	21.3		20	5.1	ug/Kg		07/26/19 10:00	07/29/19 16:13	1
Benzo[a]anthracene	ND		2.5	0.50	ug/Kg		07/26/19 10:00	07/29/19 16:13	1
Naphthalene	ND		2.5	0.50	ug/Kg		07/26/19 10:00	07/29/19 16:13	1
Chrysene	ND		6.0	1.3	ug/Kg		07/26/19 10:00	07/29/19 16:13	1
Bis(2-ethylhexyl) phthalate	11.0	J	60	7.1	ug/Kg		07/26/19 10:00	07/29/19 16:13	1
N-Nitrosodiphenylamine	ND		6.0	0.80	ug/Kg		07/26/19 10:00	07/29/19 16:13	1
Di-n-octyl phthalate	14.7	J *	15	5.7	ug/Kg		07/26/19 10:00	07/29/19 16:13	1
Pentachlorophenol	ND		45	13	ug/Kg		07/26/19 10:00	07/29/19 16:13	1
Benzofluoranthene	ND	*	15	1.4	ug/Kg		07/26/19 10:00	07/29/19 16:13	1
Phenanthrene	ND		6.0	1.2	ug/Kg		07/26/19 10:00	07/29/19 16:13	1
Benzo[a]pyrene	ND	*	6.0	1.3	ug/Kg		07/26/19 10:00	07/29/19 16:13	1
Phenol	ND		15	2.3	ug/Kg		07/26/19 10:00	07/29/19 16:13	1
Indeno[1,2,3-cd]pyrene	ND	*	4.0	0.50	ug/Kg		07/26/19 10:00	07/29/19 16:13	1
Dibenz(a,h)anthracene	ND	*	5.0	1.2	ug/Kg		07/26/19 10:00	07/29/19 16:13	1
Pyrene	ND		6.0	0.64	ug/Kg		07/26/19 10:00	07/29/19 16:13	1
Benzo[g,h,i]perylene	ND	*	6.0	0.90	ug/Kg		07/26/19 10:00	07/29/19 16:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*39*	*X*	*52 - 125*	*07/26/19 10:00*	*07/29/19 16:13*	*1*
2-Fluorobiphenyl	*87*		*57 - 120*	*07/26/19 10:00*	*07/29/19 16:13*	*1*
2-Fluorophenol	*85*		*60 - 125*	*07/26/19 10:00*	*07/29/19 16:13*	*1*
Nitrobenzene-d5	*97*		*62 - 120*	*07/26/19 10:00*	*07/29/19 16:13*	*1*
Phenol-d5	*85*		*59 - 120*	*07/26/19 10:00*	*07/29/19 16:13*	*1*
Terphenyl-d14	*117*		*58 - 120*	*07/26/19 10:00*	*07/29/19 16:13*	*1*

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

Lab Sample ID: LCS 580-306721/2-A
Matrix: Solid
Analysis Batch: 306888

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 306721

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	100	88.2		ug/Kg		88	57 - 120
1,2-Dichlorobenzene	100	92.9		ug/Kg		93	62 - 120
2-Methylphenol	100	61.4		ug/Kg		61	61 - 120
3 & 4 Methylphenol	100	81.8		ug/Kg		82	60 - 120
2,4-Dimethylphenol	100	13.3	*	ug/Kg		13	37 - 129
1,2,4-Trichlorobenzene	100	98.1		ug/Kg		98	66 - 120
2-Methylnaphthalene	100	99.8		ug/Kg		100	65 - 120
Benzoic acid	200	97.1	J	ug/Kg		49	10 - 120
Benzyl alcohol	100	86.8		ug/Kg		87	28 - 134
Acenaphthylene	100	98.7		ug/Kg		99	63 - 120
Acenaphthene	100	90.3		ug/Kg		90	64 - 120
Dibenzofuran	100	97.5		ug/Kg		97	68 - 120
Diethyl phthalate	100	110	J	ug/Kg		110	53 - 126
Dimethyl phthalate	100	103		ug/Kg		103	66 - 120
Anthracene	100	90.5		ug/Kg		91	67 - 120
Carbazole	100	160	*	ug/Kg		160	70 - 137
Di-n-butyl phthalate	100	116		ug/Kg		116	59 - 129
Fluorene	100	91.6		ug/Kg		92	68 - 121
Fluoranthene	100	112		ug/Kg		112	69 - 120
Hexachlorobenzene	100	88.7		ug/Kg		89	53 - 126
Hexachlorobutadiene	100	95.8		ug/Kg		96	64 - 120
Butyl benzyl phthalate	100	134		ug/Kg		134	59 - 141
Benzo[a]anthracene	100	112		ug/Kg		112	66 - 120
Naphthalene	100	93.9		ug/Kg		94	68 - 120
Chrysene	100	108		ug/Kg		108	63 - 120
Bis(2-ethylhexyl) phthalate	100	123		ug/Kg		123	59 - 136
N-Nitrosodiphenylamine	100	77.9		ug/Kg		78	67 - 120
Di-n-octyl phthalate	100	125		ug/Kg		125	53 - 144
Pentachlorophenol	200	140		ug/Kg		70	18 - 125
Benzofluoranthene	200	223		ug/Kg		112	71 - 120
Phenanthrene	100	99.9		ug/Kg		100	68 - 120
Benzo[a]pyrene	100	93.1		ug/Kg		93	72 - 121
Phenol	100	93.1		ug/Kg		93	59 - 120
Indeno[1,2,3-cd]pyrene	100	106		ug/Kg		106	52 - 139
Dibenz(a,h)anthracene	100	109		ug/Kg		109	59 - 132
Pyrene	100	113		ug/Kg		113	73 - 120
Benzo[g,h,i]perylene	100	111		ug/Kg		111	59 - 134

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*79*		*52 - 125*
2-Fluorobiphenyl	*91*		*57 - 120*
2-Fluorophenol	*99*		*60 - 125*
Nitrobenzene-d5	*100*		*62 - 120*
Phenol-d5	*101*		*59 - 120*
Terphenyl-d14	*118*		*58 - 120*

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

Lab Sample ID: 580-87377-34 MS
Matrix: Solid
Analysis Batch: 306888

Client Sample ID: BH2-34-S
Prep Type: Total/NA
Prep Batch: 306721

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	ND	F1	129	93.3		ug/Kg	☼	72	66 - 120
1,2-Dichlorobenzene	ND	F1	129	84.4		ug/Kg	☼	66	62 - 120
1,4-Dichlorobenzene	ND	F2 F1	129	81.1		ug/Kg	☼	63	57 - 120
2,4-Dimethylphenol	ND	*	129	119	J	ug/Kg	☼	93	37 - 129
2-Methylnaphthalene	ND		129	111		ug/Kg	☼	86	65 - 120
2-Methylphenol	ND		129	122	J	ug/Kg	☼	95	61 - 120
3 & 4 Methylphenol	ND	F1	129	267	F1	ug/Kg	☼	208	60 - 120
Acenaphthene	7.6	J	129	113		ug/Kg	☼	82	64 - 120
Acenaphthylene	9.8	J	129	131		ug/Kg	☼	94	63 - 120
Anthracene	36		129	140		ug/Kg	☼	81	67 - 120
Benzo[a]anthracene	93		129	213		ug/Kg	☼	93	66 - 120
Benzo[a]pyrene	76	J	129	177		ug/Kg	☼	79	72 - 121
Benzo[g,h,i]perylene	43	J	129	162		ug/Kg	☼	92	59 - 134
Benzofluoranthene	110	J F1	258	319		ug/Kg	☼	80	71 - 120
Benzoic acid	ND		258	1000	J	ug/Kg	☼	NC	10 - 120
Benzyl alcohol	ND	F1	129	ND	F1	ug/Kg	☼	0	28 - 134
Bis(2-ethylhexyl) phthalate	ND	F1	129	194	J F1	ug/Kg	☼	151	59 - 136
Butyl benzyl phthalate	ND	F1	129	204	J F1	ug/Kg	☼	158	59 - 141
Carbazole	ND	*	129	134	J	ug/Kg	☼	104	70 - 137
Chrysene	110	F1	129	184	F1	ug/Kg	☼	54	63 - 120
Dibenz(a,h)anthracene	16	J	129	129		ug/Kg	☼	88	59 - 132
Dibenzofuran	ND		129	118	J	ug/Kg	☼	92	68 - 120
Diethyl phthalate	ND		129	118	J	ug/Kg	☼	91	53 - 126
Dimethyl phthalate	ND		129	130	J	ug/Kg	☼	101	66 - 120
Di-n-butyl phthalate	ND	F1	129	171	J F1	ug/Kg	☼	132	59 - 129
Di-n-octyl phthalate	ND	F1	129	208	F1	ug/Kg	☼	161	53 - 144
Fluoranthene	170	F1 B	129	244	F1	ug/Kg	☼	56	69 - 120
Fluorene	11	J	129	123		ug/Kg	☼	87	68 - 121
Hexachlorobenzene	ND		129	109		ug/Kg	☼	84	53 - 126
Hexachlorobutadiene	ND	F1	129	87.9		ug/Kg	☼	68	64 - 120
Indeno[1,2,3-cd]pyrene	55		129	176		ug/Kg	☼	94	52 - 139
Naphthalene	15	J F1	129	106		ug/Kg	☼	71	68 - 120
N-Nitrosodiphenylamine	ND		129	126		ug/Kg	☼	98	67 - 120
Pentachlorophenol	ND		258	321	J	ug/Kg	☼	125	18 - 125
Phenanthrene	93		129	189		ug/Kg	☼	74	68 - 120
Phenol	ND	F1	129	268	F1	ug/Kg	☼	208	59 - 120
Pyrene	190	F1	129	280	F1	ug/Kg	☼	72	73 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol	*151*	*X*	*52 - 125*
2-Fluorobiphenyl	*82*		*57 - 120*
2-Fluorophenol	*98*		*60 - 125*
Nitrobenzene-d5	*84*		*62 - 120*
Phenol-d5	*86*		*59 - 120*
Terphenyl-d14	*113*		*58 - 120*

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

Lab Sample ID: 580-87377-34 MSD
Matrix: Solid
Analysis Batch: 306888

Client Sample ID: BH2-34-S
Prep Type: Total/NA
Prep Batch: 306721

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	ND	F1	127	81.1	F1	ug/Kg	☼	64	66 - 120	14	18
1,2-Dichlorobenzene	ND	F1	127	66.5	F1	ug/Kg	☼	52	62 - 120	24	30
1,4-Dichlorobenzene	ND	F2 F1	127	52.0	J F2 F1	ug/Kg	☼	41	57 - 120	44	35
2,4-Dimethylphenol	ND	*	127	98.8	J	ug/Kg	☼	78	37 - 129	19	40
2-Methylnaphthalene	ND		127	98.4		ug/Kg	☼	78	65 - 120	12	21
2-Methylphenol	ND		127	94.8	J	ug/Kg	☼	75	61 - 120	25	40
3 & 4 Methylphenol	ND	F1	127	208	J F1	ug/Kg	☼	164	60 - 120	25	36
Acenaphthene	7.6	J	127	121		ug/Kg	☼	90	64 - 120	7	19
Acenaphthylene	9.8	J	127	127		ug/Kg	☼	92	63 - 120	3	18
Anthracene	36		127	146		ug/Kg	☼	87	67 - 120	4	28
Benzo[a]anthracene	93		127	183		ug/Kg	☼	71	66 - 120	15	21
Benzo[a]pyrene	76	J	127	174		ug/Kg	☼	78	72 - 121	2	27
Benzo[g,h,i]perylene	43	J	127	147		ug/Kg	☼	82	59 - 134	10	26
Benzofluoranthene	110	J F1	254	283	F1	ug/Kg	☼	68	71 - 120	12	25
Benzoic acid	ND		254	1020	J	ug/Kg	☼	NC	10 - 120	2	40
Benzyl alcohol	ND	F1	127	ND	F1	ug/Kg	☼	0	28 - 134	NC	40
Bis(2-ethylhexyl) phthalate	ND	F1	127	185	J F1	ug/Kg	☼	146	59 - 136	5	25
Butyl benzyl phthalate	ND	F1	127	185	J F1	ug/Kg	☼	146	59 - 141	10	27
Carbazole	ND	*	127	127	J	ug/Kg	☼	101	70 - 137	5	24
Chrysene	110	F1	127	185	F1	ug/Kg	☼	56	63 - 120	1	27
Dibenz(a,h)anthracene	16	J	127	111		ug/Kg	☼	75	59 - 132	15	29
Dibenzofuran	ND		127	126	J	ug/Kg	☼	99	68 - 120	6	18
Diethyl phthalate	ND		127	116	J	ug/Kg	☼	91	53 - 126	2	22
Dimethyl phthalate	ND		127	123	J	ug/Kg	☼	97	66 - 120	6	21
Di-n-butyl phthalate	ND	F1	127	172	J F1	ug/Kg	☼	136	59 - 129	1	26
Di-n-octyl phthalate	ND	F1	127	193	F1	ug/Kg	☼	153	53 - 144	7	18
Fluoranthene	170	F1 B	127	264		ug/Kg	☼	73	69 - 120	8	21
Fluorene	11	J	127	126		ug/Kg	☼	91	68 - 121	2	17
Hexachlorobenzene	ND		127	115		ug/Kg	☼	91	53 - 126	5	32
Hexachlorobutadiene	ND	F1	127	74.0	F1	ug/Kg	☼	58	64 - 120	17	19
Indeno[1,2,3-cd]pyrene	55		127	158		ug/Kg	☼	81	52 - 139	10	30
Naphthalene	15	J F1	127	94.0	F1	ug/Kg	☼	62	68 - 120	12	15
N-Nitrosodiphenylamine	ND		127	129		ug/Kg	☼	102	67 - 120	2	30
Pentachlorophenol	ND		254	299	J	ug/Kg	☼	118	18 - 125	7	40
Phenanthrene	93		127	192		ug/Kg	☼	78	68 - 120	2	27
Phenol	ND	F1	127	235	F1	ug/Kg	☼	186	59 - 120	13	30
Pyrene	190	F1	127	278	F1	ug/Kg	☼	71	73 - 120	1	24

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*135*	*X*	*52 - 125*
2-Fluorobiphenyl	*75*		*57 - 120*
2-Fluorophenol	*77*		*60 - 125*
Nitrobenzene-d5	*78*		*62 - 120*
Phenol-d5	*77*		*59 - 120*
Terphenyl-d14	*111*		*58 - 120*

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

Lab Sample ID: MB 580-304795/1-A
Matrix: Water
Analysis Batch: 305512

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 304795

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.45	0.061	ug/L		07/05/19 09:19	07/12/19 14:36	1
PCB-1221	ND		0.45	0.075	ug/L		07/05/19 09:19	07/12/19 14:36	1
PCB-1232	ND		0.45	0.063	ug/L		07/05/19 09:19	07/12/19 14:36	1
PCB-1242	ND		0.45	0.059	ug/L		07/05/19 09:19	07/12/19 14:36	1
PCB-1248	ND		0.45	0.052	ug/L		07/05/19 09:19	07/12/19 14:36	1
PCB-1254	ND		0.45	0.075	ug/L		07/05/19 09:19	07/12/19 14:36	1
PCB-1260	ND		0.45	0.061	ug/L		07/05/19 09:19	07/12/19 14:36	1
PCB-1262	ND		0.45	0.063	ug/L		07/05/19 09:19	07/12/19 14:36	1
PCB-1268	ND		0.45	0.059	ug/L		07/05/19 09:19	07/12/19 14:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*66*		*30 - 140*	*07/05/19 09:19*	*07/12/19 14:36*	*1*
Tetrachloro-m-xylene	*71*		*29 - 120*	*07/05/19 09:19*	*07/12/19 14:36*	*1*

Lab Sample ID: LCS 580-304795/8-A
Matrix: Water
Analysis Batch: 305512

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 304795

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1.00	0.821		ug/L		82	50 - 121		
PCB-1260			1.00	0.869		ug/L		87	48 - 141		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*60*		*30 - 140*
Tetrachloro-m-xylene	*65*		*29 - 120*

Lab Sample ID: LCSD 580-304795/9-A
Matrix: Water
Analysis Batch: 305512

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 304795

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			1.00	0.826		ug/L		83	50 - 121	1	25
PCB-1260			1.00	0.860		ug/L		86	48 - 141	1	34

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*62*		*30 - 140*
Tetrachloro-m-xylene	*65*		*29 - 120*

Lab Sample ID: MB 580-305281/1-A
Matrix: Solid
Analysis Batch: 306180

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 305281

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0020	0.00074	mg/Kg		07/10/19 15:09	07/20/19 19:40	1
PCB-1221	ND		0.0020	0.00095	mg/Kg		07/10/19 15:09	07/20/19 19:40	1
PCB-1232	ND		0.0020	0.00095	mg/Kg		07/10/19 15:09	07/20/19 19:40	1
PCB-1242	ND		0.0020	0.00049	mg/Kg		07/10/19 15:09	07/20/19 19:40	1
PCB-1248	ND		0.0020	0.00036	mg/Kg		07/10/19 15:09	07/20/19 19:40	1

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

Lab Sample ID: MB 580-305281/1-A
Matrix: Solid
Analysis Batch: 306180

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 305281

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1254	ND		0.0020	0.00079	mg/Kg		07/10/19 15:09	07/20/19 19:40	1
PCB-1260	ND		0.0020	0.00077	mg/Kg		07/10/19 15:09	07/20/19 19:40	1
Polychlorinated biphenyls, Total	ND		0.0020	0.00073	mg/Kg		07/10/19 15:09	07/20/19 19:40	1
PCB-1262	ND		0.0020	0.00047	mg/Kg		07/10/19 15:09	07/20/19 19:40	1
PCB-1268	ND		0.0020	0.00049	mg/Kg		07/10/19 15:09	07/20/19 19:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*72*		*39 - 142*	*07/10/19 15:09*	*07/20/19 19:40*	*1*
Tetrachloro-m-xylene	*54*		*35 - 129*	*07/10/19 15:09*	*07/20/19 19:40*	*1*

Lab Sample ID: LCS 580-305281/2-A
Matrix: Solid
Analysis Batch: 306180

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 305281

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			0.0125	0.00909		mg/Kg		73	41 - 138		
PCB-1260			0.0125	0.0105		mg/Kg		84	47 - 142		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*80*		*39 - 142*
Tetrachloro-m-xylene	*55*		*35 - 129*

Lab Sample ID: 580-87377-34 MS
Matrix: Solid
Analysis Batch: 306190

Client Sample ID: BH2-34-S
Prep Type: Total/NA
Prep Batch: 305281

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	ND	F1 F2	0.0158	0.0220	F1	mg/Kg	☼	139	41 - 138		
PCB-1260	ND		0.0158	0.0125		mg/Kg	☼	79	47 - 142		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*81*		*39 - 142*
Tetrachloro-m-xylene	*60*		*35 - 129*

Lab Sample ID: 580-87377-34 MSD
Matrix: Solid
Analysis Batch: 306190

Client Sample ID: BH2-34-S
Prep Type: Total/NA
Prep Batch: 305281

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND	F1 F2	0.0163	0.0122	F2	mg/Kg	☼	75	41 - 138	58	21
PCB-1260	ND		0.0163	0.0131		mg/Kg	☼	80	47 - 142	5	19

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*75*		*39 - 142*
Tetrachloro-m-xylene	*58*		*35 - 129*

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

Lab Sample ID: MB 580-305529/1-A
Matrix: Solid
Analysis Batch: 305820

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 305529

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0020	0.00074	mg/Kg		07/12/19 14:19	07/17/19 17:22	1
PCB-1221	ND		0.0020	0.00095	mg/Kg		07/12/19 14:19	07/17/19 17:22	1
PCB-1232	ND		0.0020	0.00095	mg/Kg		07/12/19 14:19	07/17/19 17:22	1
PCB-1242	ND		0.0020	0.00049	mg/Kg		07/12/19 14:19	07/17/19 17:22	1
PCB-1248	ND		0.0020	0.00036	mg/Kg		07/12/19 14:19	07/17/19 17:22	1
PCB-1254	ND		0.0020	0.00079	mg/Kg		07/12/19 14:19	07/17/19 17:22	1
PCB-1260	ND		0.0020	0.00077	mg/Kg		07/12/19 14:19	07/17/19 17:22	1
Polychlorinated biphenyls, Total	ND		0.0020	0.00073	mg/Kg		07/12/19 14:19	07/17/19 17:22	1
PCB-1262	ND		0.0020	0.00047	mg/Kg		07/12/19 14:19	07/17/19 17:22	1
PCB-1268	ND		0.0020	0.00049	mg/Kg		07/12/19 14:19	07/17/19 17:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*62*		*39 - 142*	*07/12/19 14:19*	*07/17/19 17:22*	*1*
Tetrachloro-m-xylene	*56*		*35 - 129*	*07/12/19 14:19*	*07/17/19 17:22*	*1*

Lab Sample ID: LCS 580-305529/2-A
Matrix: Solid
Analysis Batch: 305820

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 305529

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	0.0125	0.00982		mg/Kg		79	41 - 138
PCB-1260	0.0125	0.0102		mg/Kg		82	47 - 142

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*73*		*39 - 142*
Tetrachloro-m-xylene	*68*		*35 - 129*

Lab Sample ID: 580-87377-17 MS
Matrix: Solid
Analysis Batch: 305945

Client Sample ID: BH2-02-S
Prep Type: Total/NA
Prep Batch: 305529

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	ND	F1	0.0242	0.0189		mg/Kg	☼	78	41 - 138
PCB-1260	ND	F1	0.0242	0.0155		mg/Kg	☼	64	47 - 142

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*93*		*39 - 142*
Tetrachloro-m-xylene	*112*		*35 - 129*

Lab Sample ID: 580-87377-17 MSD
Matrix: Solid
Analysis Batch: 305945

Client Sample ID: BH2-02-S
Prep Type: Total/NA
Prep Batch: 305529

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND	F1	0.0236	0.0157		mg/Kg	☼	66	41 - 138	19	21
PCB-1260	ND	F1	0.0236	0.0181		mg/Kg	☼	77	47 - 142	16	19

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

Lab Sample ID: 580-87377-17 MSD
Matrix: Solid
Analysis Batch: 305945

Client Sample ID: BH2-02-S
Prep Type: Total/NA
Prep Batch: 305529

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*62*		*39 - 142*
Tetrachloro-m-xylene	*82*		*35 - 129*

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 580-305123/25-A
Matrix: Solid
Analysis Batch: 305712

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 305123

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0718	J	0.25	0.050	mg/Kg		07/09/19 12:48	07/15/19 22:09	5
Cadmium	ND		0.20	0.039	mg/Kg		07/09/19 12:48	07/15/19 22:09	5
Chromium	0.0664	J	0.25	0.032	mg/Kg		07/09/19 12:48	07/15/19 22:09	5
Copper	ND		0.50	0.11	mg/Kg		07/09/19 12:48	07/15/19 22:09	5
Lead	0.0247	J	0.25	0.024	mg/Kg		07/09/19 12:48	07/15/19 22:09	5
Nickel	ND		0.25	0.097	mg/Kg		07/09/19 12:48	07/15/19 22:09	5
Selenium	ND		0.50	0.14	mg/Kg		07/09/19 12:48	07/15/19 22:09	5
Silver	ND		0.10	0.010	mg/Kg		07/09/19 12:48	07/15/19 22:09	5
Zinc	ND		2.5	0.81	mg/Kg		07/09/19 12:48	07/15/19 22:09	5

Lab Sample ID: LCS 580-305123/26-A
Matrix: Solid
Analysis Batch: 305712

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 305123

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	59.3		mg/Kg		119	80 - 120
Cadmium	50.0	59.1		mg/Kg		118	80 - 120
Chromium	50.0	58.6		mg/Kg		117	80 - 120
Copper	50.0	59.0		mg/Kg		118	80 - 120
Lead	50.0	59.4		mg/Kg		119	80 - 120
Nickel	50.0	58.5		mg/Kg		117	80 - 120
Selenium	50.0	59.2		mg/Kg		118	80 - 120
Silver	50.0	58.8		mg/Kg		118	80 - 120
Zinc	50.0	57.3		mg/Kg		115	80 - 120

Lab Sample ID: LCSD 580-305123/27-A
Matrix: Solid
Analysis Batch: 305712

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 305123

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	50.0	57.4		mg/Kg		115	80 - 120	3	20
Cadmium	50.0	57.2		mg/Kg		114	80 - 120	3	20
Chromium	50.0	57.1		mg/Kg		114	80 - 120	3	20
Copper	50.0	56.7		mg/Kg		113	80 - 120	4	20
Lead	50.0	56.9		mg/Kg		114	80 - 120	4	20
Nickel	50.0	57.4		mg/Kg		115	80 - 120	2	20
Selenium	50.0	59.1		mg/Kg		118	80 - 120	0	20
Silver	50.0	55.4		mg/Kg		111	80 - 120	6	20
Zinc	50.0	55.0		mg/Kg		110	80 - 120	4	20

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

Lab Sample ID: 580-87377-17 MS
Matrix: Solid
Analysis Batch: 305712

Client Sample ID: BH2-02-S
Prep Type: Total/NA
Prep Batch: 305123

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	11	B	80.6	89.0		mg/Kg	☼	97	80 - 120
Cadmium	0.50		80.6	80.1		mg/Kg	☼	99	80 - 120
Chromium	23	B	80.6	103		mg/Kg	☼	99	80 - 120
Copper	41		80.6	118		mg/Kg	☼	96	80 - 120
Lead	71	B	80.6	149		mg/Kg	☼	97	80 - 120
Nickel	16		80.6	95.5		mg/Kg	☼	98	80 - 120
Selenium	0.97		80.6	81.1		mg/Kg	☼	99	80 - 120
Silver	0.17		80.6	76.6		mg/Kg	☼	95	80 - 120
Zinc	67		80.6	142		mg/Kg	☼	93	80 - 120

Lab Sample ID: 580-87377-17 MSD
Matrix: Solid
Analysis Batch: 305712

Client Sample ID: BH2-02-S
Prep Type: Total/NA
Prep Batch: 305123

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	11	B	81.8	89.7		mg/Kg	☼	96	80 - 120	1	20
Cadmium	0.50		81.8	81.0		mg/Kg	☼	98	80 - 120	1	20
Chromium	23	B	81.8	105		mg/Kg	☼	99	80 - 120	1	20
Copper	41		81.8	118		mg/Kg	☼	93	80 - 120	1	20
Lead	71	B	81.8	147		mg/Kg	☼	93	80 - 120	2	20
Nickel	16		81.8	95.9		mg/Kg	☼	98	80 - 120	0	20
Selenium	0.97		81.8	81.8		mg/Kg	☼	99	80 - 120	1	20
Silver	0.17		81.8	77.5		mg/Kg	☼	94	80 - 120	1	20
Zinc	67		81.8	138		mg/Kg	☼	87	80 - 120	3	20

Lab Sample ID: 580-87377-17 DU
Matrix: Solid
Analysis Batch: 305712

Client Sample ID: BH2-02-S
Prep Type: Total/NA
Prep Batch: 305123

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	11	B	10.3		mg/Kg	☼	8	20
Cadmium	0.50		0.476		mg/Kg	☼	4	20
Chromium	23	B	21.7		mg/Kg	☼	8	20
Copper	41		38.0		mg/Kg	☼	9	20
Lead	71	B	65.9		mg/Kg	☼	7	20
Nickel	16		14.5		mg/Kg	☼	10	20
Selenium	0.97		0.798	J	mg/Kg	☼	20	20
Silver	0.17		0.153	J	mg/Kg	☼	10	20
Zinc	67		58.5		mg/Kg	☼	13	20

Lab Sample ID: MB 580-305407/25-A
Matrix: Solid
Analysis Batch: 305826

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 305407

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.25	0.050	mg/Kg		07/11/19 13:20	07/16/19 19:56	5
Cadmium	ND		0.20	0.039	mg/Kg		07/11/19 13:20	07/16/19 19:56	5
Chromium	ND		0.25	0.032	mg/Kg		07/11/19 13:20	07/16/19 19:56	5
Copper	ND		0.50	0.11	mg/Kg		07/11/19 13:20	07/16/19 19:56	5

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

Lab Sample ID: MB 580-305407/25-A
Matrix: Solid
Analysis Batch: 305826

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 305407

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.25	0.024	mg/Kg		07/11/19 13:20	07/16/19 19:56	5
Nickel	ND		0.25	0.097	mg/Kg		07/11/19 13:20	07/16/19 19:56	5
Selenium	ND		0.50	0.14	mg/Kg		07/11/19 13:20	07/16/19 19:56	5
Silver	ND		0.10	0.010	mg/Kg		07/11/19 13:20	07/16/19 19:56	5
Zinc	ND		2.5	0.81	mg/Kg		07/11/19 13:20	07/16/19 19:56	5

Lab Sample ID: LCS 580-305407/26-A
Matrix: Solid
Analysis Batch: 305826

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 305407

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	52.6		mg/Kg		105	80 - 120
Cadmium	50.0	52.4		mg/Kg		105	80 - 120
Chromium	50.0	53.9		mg/Kg		108	80 - 120
Copper	50.0	52.0		mg/Kg		104	80 - 120
Lead	50.0	51.4		mg/Kg		103	80 - 120
Nickel	50.0	52.7		mg/Kg		105	80 - 120
Selenium	50.0	52.6		mg/Kg		105	80 - 120
Silver	50.0	49.6		mg/Kg		99	80 - 120
Zinc	50.0	49.3		mg/Kg		99	80 - 120

Lab Sample ID: LCSD 580-305407/27-A
Matrix: Solid
Analysis Batch: 305826

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 305407

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	50.0	54.7		mg/Kg		109	80 - 120	4	20
Cadmium	50.0	53.5		mg/Kg		107	80 - 120	2	20
Chromium	50.0	55.9		mg/Kg		112	80 - 120	4	20
Copper	50.0	53.7		mg/Kg		107	80 - 120	3	20
Lead	50.0	53.1		mg/Kg		106	80 - 120	3	20
Nickel	50.0	54.7		mg/Kg		109	80 - 120	4	20
Selenium	50.0	54.5		mg/Kg		109	80 - 120	4	20
Silver	50.0	51.1		mg/Kg		102	80 - 120	3	20
Zinc	50.0	50.7		mg/Kg		101	80 - 120	3	20

Lab Sample ID: 580-87377-34 MS
Matrix: Solid
Analysis Batch: 305826

Client Sample ID: BH2-34-S
Prep Type: Total/NA
Prep Batch: 305407

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	4.1		47.9	54.2		mg/Kg	☼	104	80 - 120
Cadmium	0.32		47.9	50.5		mg/Kg	☼	105	80 - 120
Chromium	13		47.9	63.9		mg/Kg	☼	106	80 - 120
Copper	13		47.9	60.6		mg/Kg	☼	99	80 - 120
Lead	22		47.9	68.9		mg/Kg	☼	98	80 - 120
Nickel	11		47.9	60.6		mg/Kg	☼	104	80 - 120
Selenium	0.84		47.9	51.3		mg/Kg	☼	105	80 - 120
Silver	0.073	J	47.9	48.5		mg/Kg	☼	101	80 - 120

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

Lab Sample ID: 580-87377-34 MS
Matrix: Solid
Analysis Batch: 305826

Client Sample ID: BH2-34-S
Prep Type: Total/NA
Prep Batch: 305407

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc	30		47.9	77.5		mg/Kg	☼	99	80 - 120

Lab Sample ID: 580-87377-34 MSD
Matrix: Solid
Analysis Batch: 305826

Client Sample ID: BH2-34-S
Prep Type: Total/NA
Prep Batch: 305407

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	4.1		44.7	53.2		mg/Kg	☼	110	80 - 120	2	20
Cadmium	0.32		44.7	50.4		mg/Kg	☼	112	80 - 120	0	20
Chromium	13		44.7	64.9		mg/Kg	☼	116	80 - 120	2	20
Copper	13		44.7	60.0		mg/Kg	☼	105	80 - 120	1	20
Lead	22		44.7	69.5		mg/Kg	☼	106	80 - 120	1	20
Nickel	11		44.7	60.6		mg/Kg	☼	111	80 - 120	0	20
Selenium	0.84		44.7	50.8		mg/Kg	☼	112	80 - 120	1	20
Silver	0.073	J	44.7	48.1		mg/Kg	☼	108	80 - 120	1	20
Zinc	30		44.7	76.5		mg/Kg	☼	104	80 - 120	1	20

Lab Sample ID: 580-87377-34 DU
Matrix: Solid
Analysis Batch: 305826

Client Sample ID: BH2-34-S
Prep Type: Total/NA
Prep Batch: 305407

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	4.1		4.03		mg/Kg	☼	2	20
Cadmium	0.32		0.325		mg/Kg	☼	2	20
Chromium	13		12.1		mg/Kg	☼	9	20
Copper	13		12.8		mg/Kg	☼	4	20
Lead	22		21.1		mg/Kg	☼	4	20
Nickel	11		10.4		mg/Kg	☼	4	20
Selenium	0.84		0.753		mg/Kg	☼	11	20
Silver	0.073	J	0.0642	J	mg/Kg	☼	13	20
Zinc	30		29.2		mg/Kg	☼	3	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 580-305608/21-A
Matrix: Water
Analysis Batch: 305712

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 305608

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00132		0.0010	0.00020	mg/L		07/15/19 08:49	07/15/19 19:20	1
Cadmium	ND		0.00040	0.00010	mg/L		07/15/19 08:49	07/15/19 19:20	1
Chromium	0.000620		0.00040	0.00017	mg/L		07/15/19 08:49	07/15/19 19:20	1
Copper	ND		0.0020	0.00060	mg/L		07/15/19 08:49	07/15/19 19:20	1
Lead	ND		0.00080	0.00020	mg/L		07/15/19 08:49	07/15/19 19:20	1
Nickel	ND		0.0030	0.00012	mg/L		07/15/19 08:49	07/15/19 19:20	1
Selenium	ND		0.0080	0.0021	mg/L		07/15/19 08:49	07/15/19 19:20	1
Silver	ND		0.00040	0.000055	mg/L		07/15/19 08:49	07/15/19 19:20	1
Zinc	ND		0.0070	0.0019	mg/L		07/15/19 08:49	07/15/19 19:20	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 580-305608/21-A
Matrix: Water
Analysis Batch: 305826

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 305608

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0010	0.00020	mg/L		07/15/19 08:49	07/16/19 15:09	1
Cadmium	ND		0.00040	0.00010	mg/L		07/15/19 08:49	07/16/19 15:09	1
Chromium	ND		0.00040	0.00017	mg/L		07/15/19 08:49	07/16/19 15:09	1
Copper	ND		0.0020	0.00060	mg/L		07/15/19 08:49	07/16/19 15:09	1
Lead	ND		0.00080	0.00020	mg/L		07/15/19 08:49	07/16/19 15:09	1
Nickel	ND		0.0030	0.00012	mg/L		07/15/19 08:49	07/16/19 15:09	1
Selenium	ND		0.0080	0.0021	mg/L		07/15/19 08:49	07/16/19 15:09	1
Silver	ND		0.00040	0.000055	mg/L		07/15/19 08:49	07/16/19 15:09	1
Zinc	ND		0.0070	0.0019	mg/L		07/15/19 08:49	07/16/19 15:09	1

Lab Sample ID: LCS 580-305608/22-A
Matrix: Water
Analysis Batch: 305712

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 305608

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	0.995		mg/L		100	80 - 120
Cadmium	1.00	0.999		mg/L		100	80 - 120
Chromium	1.00	0.988		mg/L		99	80 - 120
Copper	1.00	1.00		mg/L		100	80 - 120
Lead	1.00	0.987		mg/L		99	80 - 120
Nickel	1.00	0.986		mg/L		99	80 - 120
Selenium	1.00	0.998		mg/L		100	80 - 120
Silver	1.00	0.968		mg/L		97	80 - 120
Zinc	1.00	0.973		mg/L		97	80 - 120

Lab Sample ID: LCS 580-305608/22-A
Matrix: Water
Analysis Batch: 305826

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 305608

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	1.02		mg/L		102	80 - 120
Cadmium	1.00	0.977		mg/L		98	80 - 120
Chromium	1.00	1.02		mg/L		102	80 - 120
Copper	1.00	1.02		mg/L		102	80 - 120
Lead	1.00	0.984		mg/L		98	80 - 120
Nickel	1.00	1.03		mg/L		103	80 - 120
Selenium	1.00	1.02		mg/L		102	80 - 120
Silver	1.00	0.945		mg/L		95	80 - 120
Zinc	1.00	0.985		mg/L		98	80 - 120

Lab Sample ID: LCSD 580-305608/23-A
Matrix: Water
Analysis Batch: 305712

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 305608

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	1.00	1.05		mg/L		105	80 - 120	6	20
Cadmium	1.00	1.04		mg/L		104	80 - 120	4	20
Chromium	1.00	1.03		mg/L		103	80 - 120	4	20
Copper	1.00	1.05		mg/L		105	80 - 120	5	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 580-305608/23-A
Matrix: Water
Analysis Batch: 305712

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 305608

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead			1.00	1.04		mg/L		104	80 - 120	5	20
Nickel			1.00	1.02		mg/L		102	80 - 120	4	20
Selenium			1.00	1.05		mg/L		105	80 - 120	5	20
Silver			1.00	1.01		mg/L		101	80 - 120	4	20
Zinc			1.00	0.988		mg/L		99	80 - 120	2	20

Lab Sample ID: LCSD 580-305608/23-A
Matrix: Water
Analysis Batch: 305826

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 305608

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic			1.00	1.03		mg/L		103	80 - 120	1	20
Cadmium			1.00	0.999		mg/L		100	80 - 120	2	20
Chromium			1.00	1.03		mg/L		103	80 - 120	0	20
Copper			1.00	1.04		mg/L		104	80 - 120	2	20
Lead			1.00	1.01		mg/L		101	80 - 120	2	20
Nickel			1.00	1.03		mg/L		103	80 - 120	0	20
Selenium			1.00	1.02		mg/L		102	80 - 120	0	20
Silver			1.00	0.958		mg/L		96	80 - 120	1	20
Zinc			1.00	0.968		mg/L		97	80 - 120	2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 580-305211/19-A
Matrix: Water
Analysis Batch: 305317

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 305211

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		07/10/19 10:25	07/10/19 14:54	1

Lab Sample ID: LCS 580-305211/20-A
Matrix: Water
Analysis Batch: 305317

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 305211

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.00200	0.00198		mg/L		99	80 - 120		

Lab Sample ID: LCSD 580-305211/21-A
Matrix: Water
Analysis Batch: 305317

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 305211

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury			0.00200	0.00213		mg/L		106	80 - 120	7	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 580-305494/26-A
Matrix: Solid
Analysis Batch: 305609
Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 305494

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.030	0.0090	mg/Kg		07/12/19 10:09	07/12/19 15:30	1

Lab Sample ID: LCS 580-305494/27-A
Matrix: Solid
Analysis Batch: 305609
Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 305494

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.148		mg/Kg		89	80 - 120

Lab Sample ID: LCSD 580-305494/28-A
Matrix: Solid
Analysis Batch: 305609
Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 305494

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.167	0.145		mg/Kg		87	80 - 120	2	20

Lab Sample ID: 580-87377-17 MS
Matrix: Solid
Analysis Batch: 305609
Client Sample ID: BH2-02-S
Prep Type: Total/NA
Prep Batch: 305494

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.17		0.349	0.539		mg/Kg	☼	107	80 - 120

Lab Sample ID: 580-87377-17 MSD
Matrix: Solid
Analysis Batch: 305609
Client Sample ID: BH2-02-S
Prep Type: Total/NA
Prep Batch: 305494

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.17		0.341	0.475		mg/Kg	☼	91	80 - 120	13	20

Lab Sample ID: 580-87377-17 DU
Matrix: Solid
Analysis Batch: 305609
Client Sample ID: BH2-02-S
Prep Type: Total/NA
Prep Batch: 305494

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.17		0.152		mg/Kg	☼	9	20

Lab Sample ID: MB 580-305508/25-A
Matrix: Solid
Analysis Batch: 305609
Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 305508

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.030	0.0090	mg/Kg		07/12/19 12:07	07/12/19 16:45	1

Lab Sample ID: LCS 580-305508/26-A
Matrix: Solid
Analysis Batch: 305609
Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 305508

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.160		mg/Kg		96	80 - 120

Method: 7471A - Mercury (CVAA)

Lab Sample ID: LCSD 580-305508/27-A
Matrix: Solid
Analysis Batch: 305609

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 305508

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury			0.167	0.146		mg/Kg		87	80 - 120	10	20

Lab Sample ID: 580-87377-34 MS
Matrix: Solid
Analysis Batch: 305609

Client Sample ID: BH2-34-S
Prep Type: Total/NA
Prep Batch: 305508

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.075	F1	0.170	0.296	F1	mg/Kg	☼	130	80 - 120		

Lab Sample ID: 580-87377-34 MSD
Matrix: Solid
Analysis Batch: 305609

Client Sample ID: BH2-34-S
Prep Type: Total/NA
Prep Batch: 305508

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.075	F1	0.169	0.247		mg/Kg	☼	101	80 - 120	18	20

Lab Sample ID: 580-87377-34 DU
Matrix: Solid
Analysis Batch: 305609

Client Sample ID: BH2-34-S
Prep Type: Total/NA
Prep Batch: 305508

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Mercury	0.075	F1		0.0720		mg/Kg	☼			5	20

Method: 160.4 - Solids, Volatile and Fixed (VS)

Lab Sample ID: MB 280-464009/1
Matrix: Solid
Analysis Batch: 464009

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Volatile Solids	ND		0.10	0.10	%			07/09/19 15:04	1

Lab Sample ID: 580-87377-27 DU
Matrix: Solid
Analysis Batch: 464009

Client Sample ID: BH2-12-S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Volatile Solids	6.7			9.22	F3	%				32	20

Lab Sample ID: 580-87377-45 DU
Matrix: Solid
Analysis Batch: 464009

Client Sample ID: BH2-16-S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Volatile Solids	9.5			9.84		%				4	20

Method: 2540G - SM 2540G

Lab Sample ID: 580-87377-3 DU
Matrix: Solid
Analysis Batch: 305065

Client Sample ID: BH2-08-S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Solids	60.5			67.3		%				11	20
Percent Moisture	39.5			32.7		%				19	20
Total Solids	60.5			67.3		%				11	20

Lab Sample ID: 580-87377-1 DU
Matrix: Solid
Analysis Batch: 305067

Client Sample ID: BH2-06-S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Solids	41.1			40.2		%				2	20
Percent Moisture	58.9			59.8		%				2	20
Total Solids	41.1			40.2		%				2	20

Method: 350.1/Plumb - Nitrogen, Ammonia

Lab Sample ID: MB 580-304960/1-A
Matrix: Solid
Analysis Batch: 304983

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	12.0	J	130	10	mg/Kg			07/08/19 11:00	1

Lab Sample ID: LCS 580-304960/2-A
Matrix: Solid
Analysis Batch: 304983

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia			500	493		mg/Kg		99	90 - 110		

Lab Sample ID: 580-87377-17 MS
Matrix: Solid
Analysis Batch: 304983

Client Sample ID: BH2-02-S
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia	ND	F2	806	770		mg/Kg	☼	95	90 - 110		

Lab Sample ID: 580-87377-17 MSD
Matrix: Solid
Analysis Batch: 304983

Client Sample ID: BH2-02-S
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia	ND	F2	1000	966	F4	mg/Kg	☼	96	90 - 110	23	20

Lab Sample ID: 580-87377-17 DU
Matrix: Solid
Analysis Batch: 304983

Client Sample ID: BH2-02-S
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ammonia	ND	F2		ND		mg/Kg	☼			NC	20

Method: 350.1/Plumb - Nitrogen, Ammonia (Continued)

Lab Sample ID: MB 580-304977/1-A
Matrix: Solid
Analysis Batch: 304993

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		130	10	mg/Kg			07/08/19 13:17	1

Lab Sample ID: LCS 580-304977/2-A
Matrix: Solid
Analysis Batch: 304993

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia			500	503		mg/Kg		101	90 - 110		

Lab Sample ID: 580-87377-34 MS
Matrix: Solid
Analysis Batch: 304993

Client Sample ID: BH2-34-S
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia	ND		600	586		mg/Kg	☼	98	90 - 110		

Lab Sample ID: 580-87377-34 MSD
Matrix: Solid
Analysis Batch: 304993

Client Sample ID: BH2-34-S
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia	ND		628	610		mg/Kg	☼	97	90 - 110	4	20

Lab Sample ID: 580-87377-34 DU
Matrix: Solid
Analysis Batch: 304993

Client Sample ID: BH2-34-S
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ammonia	ND		ND		mg/Kg	☼			NC	20

Method: 9034 - Sulfide, Acid Soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 280-463974/2-A
Matrix: Solid
Analysis Batch: 464026

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 463974

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		9.3	5.3	mg/Kg		07/09/19 12:34	07/09/19 16:08	1

Lab Sample ID: LCS 280-463974/1-A
Matrix: Solid
Analysis Batch: 464026

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 463974

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfide			110	89.8		mg/Kg		81	38 - 104		

Method: 9034 - Sulfide, Acid Soluble and Insoluble (Titrimetric) (Continued)

Lab Sample ID: 580-87377-34 MS
Matrix: Solid
Analysis Batch: 464026

Client Sample ID: BH2-34-S
Prep Type: Total/NA
Prep Batch: 463974

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	ND		144	128		mg/Kg	☼	89	38 - 104

Lab Sample ID: 580-87377-34 MSD
Matrix: Solid
Analysis Batch: 464026

Client Sample ID: BH2-34-S
Prep Type: Total/NA
Prep Batch: 463974

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfide	ND		143	127		mg/Kg	☼	89	38 - 104	1	35

Lab Sample ID: MB 280-464030/2-A
Matrix: Solid
Analysis Batch: 464047

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 464030

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		9.4	5.3	mg/Kg		07/09/19 16:36	07/09/19 18:48	1

Lab Sample ID: LCS 280-464030/1-A
Matrix: Solid
Analysis Batch: 464047

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 464030

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	111	98.4		mg/Kg		89	38 - 104

Lab Sample ID: 580-87377-41 MS
Matrix: Solid
Analysis Batch: 464047

Client Sample ID: BH2-25-S
Prep Type: Total/NA
Prep Batch: 464030

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	41		240	272		mg/Kg	☼	96	38 - 104

Lab Sample ID: 580-87377-41 MSD
Matrix: Solid
Analysis Batch: 464047

Client Sample ID: BH2-25-S
Prep Type: Total/NA
Prep Batch: 464030

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfide	41		233	272		mg/Kg	☼	99	38 - 104	0	35

Method: 9060_PSEP - TOC (Puget Sound)

Lab Sample ID: MB 580-306042/37
Matrix: Solid
Analysis Batch: 306042

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	ND		2000	44	mg/Kg			07/18/19 12:13	1

Method: 9060_PSEP - TOC (Puget Sound) (Continued)

Lab Sample ID: MB 580-306042/5
Matrix: Solid
Analysis Batch: 306042

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	ND		2000	44	mg/Kg			07/15/19 16:35	1

Lab Sample ID: LCS 580-306042/38
Matrix: Solid
Analysis Batch: 306042

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon - Duplicates	5080	5130		mg/Kg		101	40 - 180

Lab Sample ID: LCS 580-306042/6
Matrix: Solid
Analysis Batch: 306042

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon - Duplicates	5080	4830		mg/Kg		95	40 - 180

Lab Sample ID: LCSD 580-306042/39
Matrix: Solid
Analysis Batch: 306042

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon - Duplicates	5080	5000		mg/Kg		98	40 - 180	3	32

Lab Sample ID: LCSD 580-306042/7
Matrix: Solid
Analysis Batch: 306042

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon - Duplicates	5080	4720		mg/Kg		93	40 - 180	2	32

Lab Sample ID: 580-87377-17 MS
Matrix: Solid
Analysis Batch: 306042

Client Sample ID: BH2-02-S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon - Duplicates	81000		120000	197000		mg/Kg		96	68 - 149

Lab Sample ID: 580-87377-17 MSD
Matrix: Solid
Analysis Batch: 306042

Client Sample ID: BH2-02-S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon - Duplicates	81000		120000	193000		mg/Kg		93	68 - 149	2	32

Method: 9060_PSEP - TOC (Puget Sound) (Continued)

Lab Sample ID: 580-87377-17 DU
Matrix: Solid
Analysis Batch: 306042

Client Sample ID: BH2-02-S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Organic Carbon - Duplicates	81000			85500		mg/Kg				5	50

Lab Sample ID: 580-87377-17 TRL
Matrix: Solid
Analysis Batch: 306042

Client Sample ID: BH2-02-S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		TRL Result	TRL Qualifier	Unit	D			RSD	RSD Limit
Total Organic Carbon - Duplicates	81000			85300		mg/Kg				3	20

Lab Sample ID: MB 580-306044/29
Matrix: Solid
Analysis Batch: 306044

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	ND		2000	44	mg/Kg			07/18/19 13:32	1

Lab Sample ID: MB 580-306044/5
Matrix: Solid
Analysis Batch: 306044

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	ND		2000	44	mg/Kg			07/15/19 19:21	1

Lab Sample ID: LCS 580-306044/30
Matrix: Solid
Analysis Batch: 306044

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon - Duplicates			5080	4750		mg/Kg		93	40 - 180		

Lab Sample ID: LCS 580-306044/6
Matrix: Solid
Analysis Batch: 306044

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon - Duplicates			5080	4850		mg/Kg		95	40 - 180		

Lab Sample ID: LCSD 580-306044/31
Matrix: Solid
Analysis Batch: 306044

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon - Duplicates			5080	4810		mg/Kg		95	40 - 180	1	32

Method: 9060_PSEP - TOC (Puget Sound) (Continued)

Lab Sample ID: LCSD 580-306044/7
Matrix: Solid
Analysis Batch: 306044

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon - Duplicates			5080	4990		mg/Kg		98	40 - 180	3	32

Lab Sample ID: 580-87377-34 MS
Matrix: Solid
Analysis Batch: 306044

Client Sample ID: BH2-34-S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon - Duplicates	9500		120000	129000		mg/Kg		100	68 - 149		

Lab Sample ID: 580-87377-34 MSD
Matrix: Solid
Analysis Batch: 306044

Client Sample ID: BH2-34-S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon - Duplicates	9500		120000	130000		mg/Kg		101	68 - 149	1	32

Lab Sample ID: 580-87377-34 DU
Matrix: Solid
Analysis Batch: 306044

Client Sample ID: BH2-34-S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Organic Carbon - Duplicates	9500			10200		mg/Kg				7	50

Lab Sample ID: 580-87377-34 TRL
Matrix: Solid
Analysis Batch: 306044

Client Sample ID: BH2-34-S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		TRL Result	TRL Qualifier	Unit	D			RSD	RSD Limit
Total Organic Carbon - Duplicates	9500			9230		mg/Kg				5	20

Lab Chronicle

Client: Leidos, Inc.
Job ID: 580-87377-1
Project/Site: 2019 Blakely Harbor Sediment Inv.

Client Sample ID: BH2-06-S
Lab Sample ID: 580-87377-1
Date Collected: 07/01/19 09:50
Matrix: Solid
Date Received: 07/03/19 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	305067	07/09/19 09:26	K1H	TAL SEA
Total/NA	Analysis	9060_PSEP		1	306042	07/15/19 17:18	JKM	TAL SEA
Total/NA	Analysis	PSEP Plumb 1981		1	305155	07/09/19 16:07	JKM	TAL SEA

Client Sample ID: BH2-06-S
Lab Sample ID: 580-87377-1
Date Collected: 07/01/19 09:50
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 41.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			305515	07/12/19 12:55	FCG	TAL SEA
Total/NA	Analysis	8270D		10	305606	07/15/19 11:03	KFS	TAL SEA
Total/NA	Prep	3550B			305529	07/12/19 14:19	FCG	TAL SEA
Total/NA	Analysis	8082A		1	305820	07/17/19 18:16	RSB	TAL SEA
Total/NA	Prep	3050B			305123	07/09/19 12:48	JCP	TAL SEA
Total/NA	Analysis	6020A		5	305712	07/16/19 00:32	RM	TAL SEA
Total/NA	Prep	7471A			305494	07/12/19 10:09	JCP	TAL SEA
Total/NA	Analysis	7471A		1	305609	07/12/19 15:46	T1H	TAL SEA
Soluble	Leach	DI Leach/Plumb			304960	07/08/19 09:45	EMM	TAL SEA
Soluble	Analysis	350.1/Plumb		1	304983	07/08/19 11:00	EMM	TAL SEA

Client Sample ID: BH2-09-S
Lab Sample ID: 580-87377-2
Date Collected: 07/01/19 10:40
Matrix: Solid
Date Received: 07/03/19 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	305067	07/09/19 09:26	K1H	TAL SEA
Total/NA	Analysis	9060_PSEP		1	306042	07/15/19 17:11	JKM	TAL SEA
Total/NA	Analysis	PSEP Plumb 1981		1	305155	07/09/19 16:07	JKM	TAL SEA

Client Sample ID: BH2-09-S
Lab Sample ID: 580-87377-2
Date Collected: 07/01/19 10:40
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 61.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			305515	07/12/19 12:55	FCG	TAL SEA
Total/NA	Analysis	8270D		50	305606	07/15/19 11:26	KFS	TAL SEA
Total/NA	Prep	3550B			305529	07/12/19 14:19	FCG	TAL SEA
Total/NA	Analysis	8082A		1	305820	07/17/19 19:31	RSB	TAL SEA
Total/NA	Prep	3550B			305529	07/12/19 14:19	FCG	TAL SEA
Total/NA	Analysis	8082A		1	306401	07/23/19 19:09	T1W	TAL SEA
Total/NA	Prep	3050B			305123	07/09/19 12:48	JCP	TAL SEA
Total/NA	Analysis	6020A		5	305712	07/15/19 22:57	RM	TAL SEA
Total/NA	Prep	7471A			305494	07/12/19 10:09	JCP	TAL SEA
Total/NA	Analysis	7471A		1	305609	07/12/19 15:48	T1H	TAL SEA

Lab Chronicle

Client: Leidos, Inc.
Job ID: 580-87377-1
Project/Site: 2019 Blakely Harbor Sediment Inv.

Client Sample ID: BH2-09-S
Lab Sample ID: 580-87377-2
Date Collected: 07/01/19 10:40
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 61.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach/Plumb			304960	07/08/19 09:45	EMM	TAL SEA
Soluble	Analysis	350.1/Plumb		1	304983	07/08/19 11:00	EMM	TAL SEA

Client Sample ID: BH2-08-S
Lab Sample ID: 580-87377-3
Date Collected: 07/01/19 11:03
Matrix: Solid
Date Received: 07/03/19 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	305065	07/09/19 09:24	FCG	TAL SEA
Total/NA	Analysis	9060_PSEP		1	306042	07/15/19 17:33	JKM	TAL SEA
Total/NA	Analysis	PSEP Plumb 1981		1	305155	07/09/19 16:07	JKM	TAL SEA

Client Sample ID: BH2-08-S
Lab Sample ID: 580-87377-3
Date Collected: 07/01/19 11:03
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 60.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			305515	07/12/19 12:55	FCG	TAL SEA
Total/NA	Analysis	8270D		50	305606	07/15/19 11:50	KFS	TAL SEA
Total/NA	Prep	3550B			305529	07/12/19 14:19	FCG	TAL SEA
Total/NA	Analysis	8082A		1	305820	07/17/19 19:49	RSB	TAL SEA
Total/NA	Prep	3050B			305123	07/09/19 12:48	JCP	TAL SEA
Total/NA	Analysis	6020A		5	305712	07/15/19 23:01	RM	TAL SEA
Total/NA	Prep	7471A			305494	07/12/19 10:09	JCP	TAL SEA
Total/NA	Analysis	7471A		1	305609	07/12/19 15:50	T1H	TAL SEA
Soluble	Leach	DI Leach/Plumb			304960	07/08/19 09:45	EMM	TAL SEA
Soluble	Analysis	350.1/Plumb		1	304983	07/08/19 11:00	EMM	TAL SEA

Client Sample ID: BH2-28-S
Lab Sample ID: 580-87377-4
Date Collected: 07/01/19 13:35
Matrix: Solid
Date Received: 07/03/19 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	305065	07/09/19 09:24	FCG	TAL SEA
Total/NA	Analysis	9060_PSEP		1	306042	07/15/19 17:37	JKM	TAL SEA
Total/NA	Analysis	PSEP Plumb 1981		1	305155	07/09/19 16:07	JKM	TAL SEA

Client Sample ID: BH2-28-S
Lab Sample ID: 580-87377-4
Date Collected: 07/01/19 13:35
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 70.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			305515	07/12/19 12:55	FCG	TAL SEA
Total/NA	Analysis	8270D		20	305606	07/15/19 12:13	KFS	TAL SEA

Lab Chronicle

Client: Leidos, Inc.
Job ID: 580-87377-1
Project/Site: 2019 Blakely Harbor Sediment Inv.

Client Sample ID: BH2-28-S
Lab Sample ID: 580-87377-4
Date Collected: 07/01/19 13:35
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 70.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			305529	07/12/19 14:19	FCG	TAL SEA
Total/NA	Analysis	8082A		1	305820	07/17/19 20:07	RSB	TAL SEA
Total/NA	Prep	3050B			305123	07/09/19 12:48	JCP	TAL SEA
Total/NA	Analysis	6020A		5	305712	07/15/19 23:05	RM	TAL SEA
Total/NA	Prep	7471A			305494	07/12/19 10:09	JCP	TAL SEA
Total/NA	Analysis	7471A		1	305609	07/12/19 15:57	T1H	TAL SEA
Soluble	Leach	DI Leach/Plumb			304960	07/08/19 09:45	EMM	TAL SEA
Soluble	Analysis	350.1/Plumb		1	304983	07/08/19 11:00	EMM	TAL SEA

Client Sample ID: BH2-27-S
Lab Sample ID: 580-87377-5
Date Collected: 07/01/19 13:53
Matrix: Solid
Date Received: 07/03/19 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	305065	07/09/19 09:24	FCG	TAL SEA
Total/NA	Analysis	9060_PSEP		1	306042	07/15/19 17:42	JKM	TAL SEA
Total/NA	Analysis	PSEP Plumb 1981		1	305155	07/09/19 16:07	JKM	TAL SEA

Client Sample ID: BH2-27-S
Lab Sample ID: 580-87377-5
Date Collected: 07/01/19 13:53
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 66.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			305515	07/12/19 12:55	FCG	TAL SEA
Total/NA	Analysis	8270D		20	305606	07/15/19 12:36	KFS	TAL SEA
Total/NA	Prep	3550B			305529	07/12/19 14:19	FCG	TAL SEA
Total/NA	Analysis	8082A		1	305820	07/17/19 20:25	RSB	TAL SEA
Total/NA	Prep	3050B			305123	07/09/19 12:48	JCP	TAL SEA
Total/NA	Analysis	6020A		5	305712	07/15/19 23:18	RM	TAL SEA
Total/NA	Prep	7471A			305494	07/12/19 10:09	JCP	TAL SEA
Total/NA	Analysis	7471A		1	305609	07/12/19 15:59	T1H	TAL SEA
Soluble	Leach	DI Leach/Plumb			304960	07/08/19 09:45	EMM	TAL SEA
Soluble	Analysis	350.1/Plumb		1	304983	07/08/19 11:00	EMM	TAL SEA

Client Sample ID: BH2-23-S
Lab Sample ID: 580-87377-6
Date Collected: 07/01/19 14:08
Matrix: Solid
Date Received: 07/03/19 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	305065	07/09/19 09:24	FCG	TAL SEA
Total/NA	Analysis	9060_PSEP		1	306042	07/15/19 17:46	JKM	TAL SEA
Total/NA	Analysis	PSEP Plumb 1981		1	305155	07/09/19 16:07	JKM	TAL SEA

Lab Chronicle

Client: Leidos, Inc.
Job ID: 580-87377-1
Project/Site: 2019 Blakely Harbor Sediment Inv.

Client Sample ID: BH2-23-S
Lab Sample ID: 580-87377-6
Date Collected: 07/01/19 14:08
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 75.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			305515	07/12/19 12:55	FCG	TAL SEA
Total/NA	Analysis	8270D		20	305606	07/15/19 13:00	KFS	TAL SEA
Total/NA	Prep	3550B			305529	07/12/19 14:19	FCG	TAL SEA
Total/NA	Analysis	8082A		1	305820	07/17/19 20:44	RSB	TAL SEA
Total/NA	Prep	3050B			305123	07/09/19 12:48	JCP	TAL SEA
Total/NA	Analysis	6020A		5	305712	07/15/19 23:22	RM	TAL SEA
Total/NA	Prep	7471A			305494	07/12/19 10:09	JCP	TAL SEA
Total/NA	Analysis	7471A		1	305609	07/12/19 16:01	T1H	TAL SEA
Soluble	Leach	DI Leach/Plumb			304960	07/08/19 09:45	EMM	TAL SEA
Soluble	Analysis	350.1/Plumb		1	304983	07/08/19 11:00	EMM	TAL SEA

Client Sample ID: BH2-19-S
Lab Sample ID: 580-87377-7
Date Collected: 07/01/19 14:34
Matrix: Solid
Date Received: 07/03/19 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	305065	07/09/19 09:24	FCG	TAL SEA
Total/NA	Analysis	9060_PSEP		1	306042	07/15/19 17:50	JKM	TAL SEA
Total/NA	Analysis	PSEP Plumb 1981		1	305155	07/09/19 16:07	JKM	TAL SEA

Client Sample ID: BH2-19-S
Lab Sample ID: 580-87377-7
Date Collected: 07/01/19 14:34
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 75.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			305515	07/12/19 12:55	FCG	TAL SEA
Total/NA	Analysis	8270D		20	305606	07/15/19 13:23	KFS	TAL SEA
Total/NA	Prep	3550B			305529	07/12/19 14:19	FCG	TAL SEA
Total/NA	Analysis	8082A		1	305820	07/17/19 21:02	RSB	TAL SEA
Total/NA	Prep	3050B			305123	07/09/19 12:48	JCP	TAL SEA
Total/NA	Analysis	6020A		5	305712	07/15/19 23:27	RM	TAL SEA
Total/NA	Prep	7471A			305494	07/12/19 10:09	JCP	TAL SEA
Total/NA	Analysis	7471A		1	305609	07/12/19 16:04	T1H	TAL SEA
Soluble	Leach	DI Leach/Plumb			304960	07/08/19 09:45	EMM	TAL SEA
Soluble	Analysis	350.1/Plumb		1	304983	07/08/19 11:00	EMM	TAL SEA

Client Sample ID: BH2-20-S
Lab Sample ID: 580-87377-8
Date Collected: 07/01/19 14:45
Matrix: Solid
Date Received: 07/03/19 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	305065	07/09/19 09:24	FCG	TAL SEA
Total/NA	Analysis	9060_PSEP		1	306042	07/15/19 18:04	JKM	TAL SEA
Total/NA	Analysis	PSEP Plumb 1981		1	305155	07/09/19 16:07	JKM	TAL SEA

Lab Chronicle

Client: Leidos, Inc.
Job ID: 580-87377-1
Project/Site: 2019 Blakely Harbor Sediment Inv.

Client Sample ID: BH2-20-S
Lab Sample ID: 580-87377-8
Date Collected: 07/01/19 14:45
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 29.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			305515	07/12/19 12:55	FCG	TAL SEA
Total/NA	Analysis	8270D		50	305606	07/15/19 13:47	KFS	TAL SEA
Total/NA	Prep	3550B			305529	07/12/19 14:19	FCG	TAL SEA
Total/NA	Analysis	8082A		1	305820	07/17/19 21:20	RSB	TAL SEA
Total/NA	Prep	3050B			305123	07/09/19 12:48	JCP	TAL SEA
Total/NA	Analysis	6020A		5	305712	07/15/19 23:31	RM	TAL SEA
Total/NA	Prep	7471A			305494	07/12/19 10:09	JCP	TAL SEA
Total/NA	Analysis	7471A		1	305609	07/12/19 16:06	T1H	TAL SEA
Soluble	Leach	DI Leach/Plumb			304960	07/08/19 09:45	EMM	TAL SEA
Soluble	Analysis	350.1/Plumb		1	304983	07/08/19 11:00	EMM	TAL SEA

Client Sample ID: BH2-21-S
Lab Sample ID: 580-87377-9
Date Collected: 07/01/19 15:02
Matrix: Solid
Date Received: 07/03/19 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	305065	07/09/19 09:24	FCG	TAL SEA
Total/NA	Analysis	9060_PSEP		1	306042	07/15/19 18:09	JKM	TAL SEA
Total/NA	Analysis	PSEP Plumb 1981		1	305155	07/09/19 16:07	JKM	TAL SEA

Client Sample ID: BH2-21-S
Lab Sample ID: 580-87377-9
Date Collected: 07/01/19 15:02
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 49.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			305515	07/12/19 12:55	FCG	TAL SEA
Total/NA	Analysis	8270D		50	305606	07/15/19 14:10	KFS	TAL SEA
Total/NA	Prep	3550B			305529	07/12/19 14:19	FCG	TAL SEA
Total/NA	Analysis	8082A		1	305820	07/17/19 21:38	RSB	TAL SEA
Total/NA	Prep	3050B			305123	07/09/19 12:48	JCP	TAL SEA
Total/NA	Analysis	6020A		5	305712	07/15/19 23:35	RM	TAL SEA
Total/NA	Prep	7471A			305494	07/12/19 10:09	JCP	TAL SEA
Total/NA	Analysis	7471A		1	305609	07/12/19 16:08	T1H	TAL SEA
Soluble	Leach	DI Leach/Plumb			304960	07/08/19 09:45	EMM	TAL SEA
Soluble	Analysis	350.1/Plumb		1	304983	07/08/19 11:00	EMM	TAL SEA

Client Sample ID: BH2-22-S
Lab Sample ID: 580-87377-10
Date Collected: 07/01/19 15:14
Matrix: Solid
Date Received: 07/03/19 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	305065	07/09/19 09:24	FCG	TAL SEA
Total/NA	Analysis	9060_PSEP		1	306042	07/15/19 18:13	JKM	TAL SEA
Total/NA	Analysis	PSEP Plumb 1981		1	305155	07/09/19 16:07	JKM	TAL SEA

Lab Chronicle

Client: Leidos, Inc.
Job ID: 580-87377-1
Project/Site: 2019 Blakely Harbor Sediment Inv.

Client Sample ID: BH2-22-S
Lab Sample ID: 580-87377-10
Date Collected: 07/01/19 15:14
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 47.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			305515	07/12/19 12:55	FCG	TAL SEA
Total/NA	Analysis	8270D		50	305606	07/15/19 15:10	KFS	TAL SEA
Total/NA	Prep	3550B			305529	07/12/19 14:19	FCG	TAL SEA
Total/NA	Analysis	8082A		1	305820	07/17/19 21:57	RSB	TAL SEA
Total/NA	Prep	3050B			305123	07/09/19 12:48	JCP	TAL SEA
Total/NA	Analysis	6020A		5	305712	07/15/19 23:40	RM	TAL SEA
Total/NA	Prep	7471A			305494	07/12/19 10:09	JCP	TAL SEA
Total/NA	Analysis	7471A		1	305609	07/12/19 16:11	T1H	TAL SEA
Soluble	Leach	DI Leach/Plumb			304960	07/08/19 09:45	EMM	TAL SEA
Soluble	Analysis	350.1/Plumb		1	304983	07/08/19 11:00	EMM	TAL SEA

Client Sample ID: BH2-18-S
Lab Sample ID: 580-87377-11
Date Collected: 07/01/19 15:27
Matrix: Solid
Date Received: 07/03/19 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	305065	07/09/19 09:24	FCG	TAL SEA
Total/NA	Analysis	9060_PSEP		1	306042	07/15/19 18:18	JKM	TAL SEA
Total/NA	Analysis	PSEP Plumb 1981		1	305155	07/09/19 16:07	JKM	TAL SEA

Client Sample ID: BH2-18-S
Lab Sample ID: 580-87377-11
Date Collected: 07/01/19 15:27
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 48.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			305515	07/12/19 12:55	FCG	TAL SEA
Total/NA	Analysis	8270D		50	305606	07/15/19 20:16	KFS	TAL SEA
Total/NA	Prep	3550B			305529	07/12/19 14:19	FCG	TAL SEA
Total/NA	Analysis	8082A		1	305820	07/17/19 22:15	RSB	TAL SEA
Total/NA	Prep	3050B			305123	07/09/19 12:48	JCP	TAL SEA
Total/NA	Analysis	6020A		5	305712	07/15/19 23:44	RM	TAL SEA
Total/NA	Prep	7471A			305494	07/12/19 10:09	JCP	TAL SEA
Total/NA	Analysis	7471A		1	305609	07/12/19 16:13	T1H	TAL SEA
Soluble	Leach	DI Leach/Plumb			304960	07/08/19 09:45	EMM	TAL SEA
Soluble	Analysis	350.1/Plumb		1	304983	07/08/19 11:00	EMM	TAL SEA

Client Sample ID: BH2-18-D
Lab Sample ID: 580-87377-12
Date Collected: 07/01/19 15:27
Matrix: Solid
Date Received: 07/03/19 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	308831	07/19/19 11:38	SAD	TAL SAC

Lab Chronicle

Client: Leidos, Inc.
Job ID: 580-87377-1
Project/Site: 2019 Blakely Harbor Sediment Inv.

Client Sample ID: BH2-17-S
Lab Sample ID: 580-87377-13
Date Collected: 07/01/19 15:44
Matrix: Solid
Date Received: 07/03/19 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	305065	07/09/19 09:24	FCG	TAL SEA
Total/NA	Analysis	9060_PSEP		1	306042	07/18/19 12:22	JKM	TAL SEA
Total/NA	Analysis	PSEP Plumb 1981		1	305155	07/09/19 16:07	JKM	TAL SEA

Client Sample ID: BH2-17-S
Lab Sample ID: 580-87377-13
Date Collected: 07/01/19 15:44
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 33.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			305515	07/12/19 12:55	FCG	TAL SEA
Total/NA	Analysis	8270D		20	305606	07/15/19 15:34	KFS	TAL SEA
Total/NA	Prep	3550B			305529	07/12/19 14:19	FCG	TAL SEA
Total/NA	Analysis	8082A		1	305945	07/18/19 00:41	CJB	TAL SEA
Total/NA	Prep	3050B			305123	07/09/19 12:48	JCP	TAL SEA
Total/NA	Analysis	6020A		5	305712	07/15/19 23:48	RM	TAL SEA
Total/NA	Prep	7471A			305494	07/12/19 10:09	JCP	TAL SEA
Total/NA	Analysis	7471A		1	305609	07/12/19 16:16	T1H	TAL SEA
Soluble	Leach	DI Leach/Plumb			304960	07/08/19 09:45	EMM	TAL SEA
Soluble	Analysis	350.1/Plumb		1	304983	07/08/19 11:00	EMM	TAL SEA

Client Sample ID: BH2-14-S
Lab Sample ID: 580-87377-14
Date Collected: 07/01/19 15:57
Matrix: Solid
Date Received: 07/03/19 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	305067	07/09/19 09:26	K1H	TAL SEA
Total/NA	Analysis	9060_PSEP		1	306042	07/15/19 18:33	JKM	TAL SEA
Total/NA	Analysis	PSEP Plumb 1981		1	305155	07/09/19 16:07	JKM	TAL SEA

Client Sample ID: BH2-14-S
Lab Sample ID: 580-87377-14
Date Collected: 07/01/19 15:57
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 40.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			305515	07/12/19 12:55	FCG	TAL SEA
Total/NA	Analysis	8270D		20	305606	07/15/19 15:57	KFS	TAL SEA
Total/NA	Prep	3550B			305529	07/12/19 14:19	FCG	TAL SEA
Total/NA	Analysis	8082A		1	305945	07/18/19 00:59	CJB	TAL SEA
Total/NA	Prep	3050B			305123	07/09/19 12:48	JCP	TAL SEA
Total/NA	Analysis	6020A		5	305712	07/15/19 23:53	RM	TAL SEA
Total/NA	Prep	7471A			305494	07/12/19 10:09	JCP	TAL SEA
Total/NA	Analysis	7471A		1	305609	07/12/19 16:18	T1H	TAL SEA
Soluble	Leach	DI Leach/Plumb			304960	07/08/19 09:45	EMM	TAL SEA
Soluble	Analysis	350.1/Plumb		1	304983	07/08/19 11:00	EMM	TAL SEA

Lab Chronicle

Client: Leidos, Inc. Job ID: 580-87377-1
Project/Site: 2019 Blakely Harbor Sediment Inv.

Client Sample ID: BH2-07-S — Lab Sample ID: 580-87377-15
Date Collected: 07/01/19 16:40 — **Matrix: Solid**
Date Received: 07/03/19 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	305067	07/09/19 09:26	K1H	TAL SEA
Total/NA	Analysis	9060_PSEP		1	306042	07/15/19 18:37	JKM	TAL SEA
Total/NA	Analysis	PSEP Plumb 1981		1	305155	07/09/19 16:07	JKM	TAL SEA

Client Sample ID: BH2-07-S — Lab Sample ID: 580-87377-15
Date Collected: 07/01/19 16:40 — **Matrix: Solid**
Date Received: 07/03/19 08:15 — **Percent Solids: 35.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			305515	07/12/19 12:55	FCG	TAL SEA
Total/NA	Analysis	8270D		50	305606	07/15/19 16:20	KFS	TAL SEA
Total/NA	Prep	3550B			305529	07/12/19 14:19	FCG	TAL SEA
Total/NA	Analysis	8082A		1	305945	07/18/19 01:17	CJB	TAL SEA
Total/NA	Prep	3050B			305123	07/09/19 12:48	JCP	TAL SEA
Total/NA	Analysis	6020A		5	305712	07/15/19 23:57	RM	TAL SEA
Total/NA	Prep	7471A			305494	07/12/19 10:09	JCP	TAL SEA
Total/NA	Analysis	7471A		1	305609	07/12/19 16:25	T1H	TAL SEA
Soluble	Leach	DI Leach/Plumb			304960	07/08/19 09:45	EMM	TAL SEA
Soluble	Analysis	350.1/Plumb		1	304983	07/08/19 11:00	EMM	TAL SEA

Client Sample ID: BH2-03-S — Lab Sample ID: 580-87377-16
Date Collected: 07/01/19 16:46 — **Matrix: Solid**
Date Received: 07/03/19 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	305067	07/09/19 09:26	K1H	TAL SEA
Total/NA	Analysis	9060_PSEP		1	306042	07/15/19 18:47	JKM	TAL SEA
Total/NA	Analysis	PSEP Plumb 1981		1	305160	07/09/19 16:28	JKM	TAL SEA

Client Sample ID: BH2-03-S — Lab Sample ID: 580-87377-16
Date Collected: 07/01/19 16:46 — **Matrix: Solid**
Date Received: 07/03/19 08:15 — **Percent Solids: 34.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			305515	07/12/19 12:55	FCG	TAL SEA
Total/NA	Analysis	8270D		10	305606	07/15/19 16:44	KFS	TAL SEA
Total/NA	Prep	3550B			305529	07/12/19 14:19	FCG	TAL SEA
Total/NA	Analysis	8082A		1	305945	07/18/19 01:35	CJB	TAL SEA
Total/NA	Prep	3050B			305123	07/09/19 12:48	JCP	TAL SEA
Total/NA	Analysis	6020A		5	305712	07/16/19 00:10	RM	TAL SEA
Total/NA	Prep	7471A			305494	07/12/19 10:09	JCP	TAL SEA
Total/NA	Analysis	7471A		1	305609	07/12/19 16:27	T1H	TAL SEA
Soluble	Leach	DI Leach/Plumb			304960	07/08/19 09:45	EMM	TAL SEA
Soluble	Analysis	350.1/Plumb		1	304983	07/08/19 11:00	EMM	TAL SEA

Lab Chronicle

Client: Leidos, Inc. Job ID: 580-87377-1
Project/Site: 2019 Blakely Harbor Sediment Inv.

Client Sample ID: BH2-02-S — Lab Sample ID: 580-87377-17

Date Collected: 07/01/19 17:10 **Matrix: Solid**
Date Received: 07/03/19 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	305067	07/09/19 09:26	K1H	TAL SEA
Total/NA	Analysis	9060_PSEP		1	306042	07/15/19 16:41	JKM	TAL SEA
Total/NA	Analysis	PSEP Plumb 1981		1	305160	07/09/19 16:28	JKM	TAL SEA

Client Sample ID: BH2-02-S — Lab Sample ID: 580-87377-17

Date Collected: 07/01/19 17:10 **Matrix: Solid**
Date Received: 07/03/19 08:15 **Percent Solids: 45.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			305515	07/12/19 12:55	FCG	TAL SEA
Total/NA	Analysis	8270D		10	305606	07/15/19 17:07	KFS	TAL SEA
Total/NA	Prep	3550B			305529	07/12/19 14:19	FCG	TAL SEA
Total/NA	Analysis	8082A		1	305945	07/18/19 01:53	CJB	TAL SEA
Total/NA	Prep	3550B			305529	07/12/19 14:19	FCG	TAL SEA
Total/NA	Analysis	8082A		1	306401	07/23/19 19:27	T1W	TAL SEA
Total/NA	Prep	3050B			305123	07/09/19 12:48	JCP	TAL SEA
Total/NA	Analysis	6020A		5	305712	07/15/19 22:31	RM	TAL SEA
Total/NA	Prep	7471A			305494	07/12/19 10:09	JCP	TAL SEA
Total/NA	Analysis	7471A		1	305609	07/12/19 15:36	T1H	TAL SEA
Soluble	Leach	DI Leach/Plumb			304960	07/08/19 09:45	EMM	TAL SEA
Soluble	Analysis	350.1/Plumb		1	304983	07/08/19 11:00	EMM	TAL SEA

Client Sample ID: BH2-01-S — Lab Sample ID: 580-87377-18

Date Collected: 07/01/19 17:27 **Matrix: Solid**
Date Received: 07/03/19 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	305067	07/09/19 09:26	K1H	TAL SEA
Total/NA	Analysis	9060_PSEP		1	306042	07/15/19 18:52	JKM	TAL SEA
Total/NA	Analysis	PSEP Plumb 1981		1	305160	07/09/19 16:28	JKM	TAL SEA

Client Sample ID: BH2-01-S — Lab Sample ID: 580-87377-18

Date Collected: 07/01/19 17:27 **Matrix: Solid**
Date Received: 07/03/19 08:15 **Percent Solids: 54.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			305515	07/12/19 12:55	FCG	TAL SEA
Total/NA	Analysis	8270D		10	305606	07/15/19 18:18	KFS	TAL SEA
Total/NA	Prep	3550B			305529	07/12/19 14:19	FCG	TAL SEA
Total/NA	Analysis	8082A		1	305945	07/18/19 02:48	CJB	TAL SEA
Total/NA	Prep	3550B			305529	07/12/19 14:19	FCG	TAL SEA
Total/NA	Analysis	8082A		1	306401	07/23/19 19:45	T1W	TAL SEA
Total/NA	Prep	3050B			305123	07/09/19 12:48	JCP	TAL SEA
Total/NA	Analysis	6020A		5	305712	07/16/19 00:15	RM	TAL SEA

Lab Chronicle

Client: Leidos, Inc.
Job ID: 580-87377-1
Project/Site: 2019 Blakely Harbor Sediment Inv.

Client Sample ID: BH2-01-S
Lab Sample ID: 580-87377-18
Date Collected: 07/01/19 17:27
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 54.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			305494	07/12/19 10:09	JCP	TAL SEA
Total/NA	Analysis	7471A		1	305609	07/12/19 16:29	T1H	TAL SEA
Soluble	Leach	DI Leach/Plumb			304960	07/08/19 09:45	EMM	TAL SEA
Soluble	Analysis	350.1/Plumb		1	304983	07/08/19 11:00	EMM	TAL SEA

Client Sample ID: BH2-05-S
Lab Sample ID: 580-87377-19
Date Collected: 07/01/19 17:41
Matrix: Solid
Date Received: 07/03/19 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	305067	07/09/19 09:26	K1H	TAL SEA
Total/NA	Analysis	9060_PSEP		1	306042	07/15/19 19:03	JKM	TAL SEA
Total/NA	Analysis	PSEP Plumb 1981		1	305160	07/09/19 16:28	JKM	TAL SEA

Client Sample ID: BH2-05-S
Lab Sample ID: 580-87377-19
Date Collected: 07/01/19 17:41
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 41.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			305515	07/12/19 12:55	FCG	TAL SEA
Total/NA	Analysis	8270D		10	305606	07/15/19 18:41	KFS	TAL SEA
Total/NA	Prep	3550B			305529	07/12/19 14:19	FCG	TAL SEA
Total/NA	Analysis	8082A		1	305945	07/18/19 03:06	CJB	TAL SEA
Total/NA	Prep	3550B			305529	07/12/19 14:19	FCG	TAL SEA
Total/NA	Analysis	8082A		1	306401	07/23/19 20:03	T1W	TAL SEA
Total/NA	Prep	3050B			305123	07/09/19 12:48	JCP	TAL SEA
Total/NA	Analysis	6020A		5	305712	07/16/19 00:19	RM	TAL SEA
Total/NA	Prep	7471A			305494	07/12/19 10:09	JCP	TAL SEA
Total/NA	Analysis	7471A		1	305609	07/12/19 16:31	T1H	TAL SEA
Soluble	Leach	DI Leach/Plumb			304960	07/08/19 09:45	EMM	TAL SEA
Soluble	Analysis	350.1/Plumb		1	304983	07/08/19 11:00	EMM	TAL SEA

Client Sample ID: BH2-04-S
Lab Sample ID: 580-87377-20
Date Collected: 07/01/19 17:54
Matrix: Solid
Date Received: 07/03/19 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	305067	07/09/19 09:26	K1H	TAL SEA
Total/NA	Analysis	9060_PSEP		1	306042	07/15/19 19:07	JKM	TAL SEA
Total/NA	Analysis	PSEP Plumb 1981		1	305160	07/09/19 16:28	JKM	TAL SEA

Lab Chronicle

Client: Leidos, Inc.
Job ID: 580-87377-1
Project/Site: 2019 Blakely Harbor Sediment Inv.

Client Sample ID: BH2-04-S
Lab Sample ID: 580-87377-20
Date Collected: 07/01/19 17:54
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 46.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			305515	07/12/19 12:55	FCG	TAL SEA
Total/NA	Analysis	8270D		10	305606	07/15/19 19:05	KFS	TAL SEA
Total/NA	Prep	3550B			305529	07/12/19 14:19	FCG	TAL SEA
Total/NA	Analysis	8082A		1	305945	07/18/19 03:24	CJB	TAL SEA
Total/NA	Prep	3550B			305529	07/12/19 14:19	FCG	TAL SEA
Total/NA	Analysis	8082A		1	306401	07/23/19 20:21	T1W	TAL SEA
Total/NA	Prep	3050B			305123	07/09/19 12:48	JCP	TAL SEA
Total/NA	Analysis	6020A		5	305712	07/16/19 00:23	RM	TAL SEA
Total/NA	Prep	7471A			305494	07/12/19 10:09	JCP	TAL SEA
Total/NA	Analysis	7471A		1	305609	07/12/19 16:34	T1H	TAL SEA
Soluble	Leach	DI Leach/Plumb			304960	07/08/19 09:45	EMM	TAL SEA
Soluble	Analysis	350.1/Plumb		1	304983	07/08/19 11:00	EMM	TAL SEA

Client Sample ID: BH2-04-D
Lab Sample ID: 580-87377-21
Date Collected: 07/01/19 17:54
Matrix: Solid
Date Received: 07/03/19 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	305067	07/09/19 09:26	K1H	TAL SEA
Total/NA	Analysis	9060_PSEP		1	306042	07/15/19 19:12	JKM	TAL SEA
Total/NA	Analysis	PSEP Plumb 1981		1	305160	07/09/19 16:28	JKM	TAL SEA

Client Sample ID: BH2-04-D
Lab Sample ID: 580-87377-21
Date Collected: 07/01/19 17:54
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 46.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			305515	07/12/19 12:55	FCG	TAL SEA
Total/NA	Analysis	8270D		10	305606	07/15/19 19:28	KFS	TAL SEA
Total/NA	Prep	3550B			305529	07/12/19 14:19	FCG	TAL SEA
Total/NA	Analysis	8082A		1	305945	07/18/19 03:42	CJB	TAL SEA
Total/NA	Prep	3050B			305123	07/09/19 12:48	JCP	TAL SEA
Total/NA	Analysis	6020A		5	305712	07/16/19 00:36	RM	TAL SEA
Total/NA	Prep	7471A			305494	07/12/19 10:09	JCP	TAL SEA
Total/NA	Analysis	7471A		1	305609	07/12/19 16:36	T1H	TAL SEA
Soluble	Leach	DI Leach/Plumb			304960	07/08/19 09:45	EMM	TAL SEA
Soluble	Analysis	350.1/Plumb		1	304983	07/08/19 11:00	EMM	TAL SEA

Client Sample ID: BH2-04-T
Lab Sample ID: 580-87377-22
Date Collected: 07/01/19 17:54
Matrix: Solid
Date Received: 07/03/19 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	305067	07/09/19 09:26	K1H	TAL SEA
Total/NA	Analysis	9060_PSEP		1	306044	07/15/19 19:47	JKM	TAL SEA

Lab Chronicle

Client: Leidos, Inc. Job ID: 580-87377-1
Project/Site: 2019 Blakely Harbor Sediment Inv.

Client Sample ID: BH2-04-T — Lab Sample ID: 580-87377-22

Date Collected: 07/01/19 17:54 **Matrix: Solid**
Date Received: 07/03/19 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PSEP Plumb 1981		1	305160	07/09/19 16:28	JKM	TAL SEA

Client Sample ID: BH2-04-T — Lab Sample ID: 580-87377-22

Date Collected: 07/01/19 17:54 **Matrix: Solid**
Date Received: 07/03/19 08:15 **Percent Solids: 47.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach/Plumb			304960	07/08/19 09:45	EMM	TAL SEA
Soluble	Analysis	350.1/Plumb		1	304983	07/08/19 11:00	EMM	TAL SEA

Client Sample ID: BH2-10-S — Lab Sample ID: 580-87377-23

Date Collected: 07/01/19 18:12 **Matrix: Solid**
Date Received: 07/03/19 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	305067	07/09/19 09:28	K1H	TAL SEA
Total/NA	Analysis	9060_PSEP		1	306044	07/15/19 19:51	JKM	TAL SEA
Total/NA	Analysis	PSEP Plumb 1981		1	305160	07/09/19 16:28	JKM	TAL SEA

Client Sample ID: BH2-10-S — Lab Sample ID: 580-87377-23

Date Collected: 07/01/19 18:12 **Matrix: Solid**
Date Received: 07/03/19 08:15 **Percent Solids: 74.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			305515	07/12/19 12:55	FCG	TAL SEA
Total/NA	Analysis	8270D		10	305606	07/15/19 19:52	KFS	TAL SEA
Total/NA	Prep	3550B			305529	07/12/19 14:19	FCG	TAL SEA
Total/NA	Analysis	8082A		1	305945	07/18/19 04:00	CJB	TAL SEA
Total/NA	Prep	3550B			305529	07/12/19 14:19	FCG	TAL SEA
Total/NA	Analysis	8082A		1	306401	07/23/19 20:40	T1W	TAL SEA
Total/NA	Prep	3050B			305123	07/09/19 12:48	JCP	TAL SEA
Total/NA	Analysis	6020A		5	305712	07/16/19 00:28	RM	TAL SEA
Total/NA	Prep	7471A			305494	07/12/19 10:09	JCP	TAL SEA
Total/NA	Analysis	7471A		1	305609	07/12/19 16:38	T1H	TAL SEA
Soluble	Leach	DI Leach/Plumb			304960	07/08/19 09:45	EMM	TAL SEA
Soluble	Analysis	350.1/Plumb		1	304983	07/08/19 11:00	EMM	TAL SEA

Client Sample ID: BH2-11-S — Lab Sample ID: 580-87377-24

Date Collected: 07/01/19 18:24 **Matrix: Solid**
Date Received: 07/03/19 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	305065	07/09/19 09:24	FCG	TAL SEA
Total/NA	Analysis	9060_PSEP		1	306044	07/15/19 20:07	JKM	TAL SEA
Total/NA	Analysis	PSEP Plumb 1981		1	305160	07/09/19 16:28	JKM	TAL SEA

Lab Chronicle

Client: Leidos, Inc.
Job ID: 580-87377-1
Project/Site: 2019 Blakely Harbor Sediment Inv.

Client Sample ID: BH2-11-S
Lab Sample ID: 580-87377-24
Date Collected: 07/01/19 18:24
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 32.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			306721	07/26/19 10:00	FCG	TAL SEA
Total/NA	Analysis	8270D		20	306888	07/29/19 17:01	KFS	TAL SEA
Total/NA	Prep	3550B			305281	07/12/19 12:21	K1H	TAL SEA
Total/NA	Analysis	8082A		1	306190	07/21/19 04:28	TL1	TAL SEA
Total/NA	Prep	3050B			305407	07/11/19 13:20	JCP	TAL SEA
Total/NA	Analysis	6020A		5	305826	07/16/19 20:47	FCW	TAL SEA
Total/NA	Prep	7471A			305508	07/12/19 11:43	ART	TAL SEA
Total/NA	Analysis	7471A		1	305609	07/12/19 17:01	T1H	TAL SEA
Soluble	Leach	DI Leach/Plumb			304977	07/08/19 12:01	EMM	TAL SEA
Soluble	Analysis	350.1/Plumb		1	304993	07/08/19 13:17	EMM	TAL SEA

Client Sample ID: BH2-13-S
Lab Sample ID: 580-87377-25
Date Collected: 07/01/19 18:41
Matrix: Solid
Date Received: 07/03/19 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	305065	07/09/19 09:24	FCG	TAL SEA
Total/NA	Analysis	9060_PSEP		1	306044	07/15/19 20:11	JKM	TAL SEA
Total/NA	Analysis	PSEP Plumb 1981		1	305160	07/09/19 16:28	JKM	TAL SEA

Client Sample ID: BH2-13-S
Lab Sample ID: 580-87377-25
Date Collected: 07/01/19 18:41
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 34.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			306721	07/26/19 10:00	FCG	TAL SEA
Total/NA	Analysis	8270D		20	306888	07/29/19 17:25	KFS	TAL SEA
Total/NA	Prep	3550B			305281	07/12/19 12:21	K1H	TAL SEA
Total/NA	Analysis	8082A		1	306190	07/21/19 04:46	TL1	TAL SEA
Total/NA	Prep	3050B			305407	07/11/19 13:20	JCP	TAL SEA
Total/NA	Analysis	6020A		5	305826	07/16/19 20:51	FCW	TAL SEA
Total/NA	Prep	7471A			305508	07/12/19 11:43	ART	TAL SEA
Total/NA	Analysis	7471A		1	305609	07/12/19 17:03	T1H	TAL SEA
Soluble	Leach	DI Leach/Plumb			304977	07/08/19 12:01	EMM	TAL SEA
Soluble	Analysis	350.1/Plumb		1	304993	07/08/19 13:17	EMM	TAL SEA

Client Sample ID: BH2-15-S
Lab Sample ID: 580-87377-26
Date Collected: 07/01/19 18:54
Matrix: Solid
Date Received: 07/03/19 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	305065	07/09/19 09:24	FCG	TAL SEA
Total/NA	Analysis	9060_PSEP		1	306044	07/15/19 20:16	JKM	TAL SEA
Total/NA	Analysis	PSEP Plumb 1981		1	305160	07/09/19 16:28	JKM	TAL SEA

Client Sample ID: BH2-15-S — Lab Sample ID: 580-87377-26

Date Collected: 07/01/19 18:54 — **Matrix: Solid**
Date Received: 07/03/19 08:15 — **Percent Solids: 64.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			306721	07/26/19 10:00	FCG	TAL SEA
Total/NA	Analysis	8270D		20	306888	07/29/19 17:49	KFS	TAL SEA
Total/NA	Prep	3550B			305281	07/12/19 12:21	K1H	TAL SEA
Total/NA	Analysis	8082A		1	306190	07/21/19 05:04	TL1	TAL SEA
Total/NA	Prep	3050B			305407	07/11/19 13:20	JCP	TAL SEA
Total/NA	Analysis	6020A		5	305826	07/16/19 20:55	FCW	TAL SEA
Total/NA	Prep	7471A			305508	07/12/19 11:43	ART	TAL SEA
Total/NA	Analysis	7471A		1	305609	07/12/19 17:06	T1H	TAL SEA
Soluble	Leach	DI Leach/Plumb			304977	07/08/19 12:01	EMM	TAL SEA
Soluble	Analysis	350.1/Plumb		1	304993	07/08/19 13:17	EMM	TAL SEA

Client Sample ID: BH2-12-S — Lab Sample ID: 580-87377-27

Date Collected: 07/02/19 10:23 — **Matrix: Solid**
Date Received: 07/03/19 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	160.4		1	464009	07/09/19 15:04	JAP	TAL DEN
Total/NA	Analysis	2540G		1	306030	07/18/19 14:00	RM	TAL SEA
Total/NA	Analysis	9060_PSEP		1	306044	07/15/19 20:26	JKM	TAL SEA
Total/NA	Analysis	PSEP Plumb 1981		1	305160	07/09/19 16:28	JKM	TAL SEA

Client Sample ID: BH2-12-S — Lab Sample ID: 580-87377-27

Date Collected: 07/02/19 10:23 — **Matrix: Solid**
Date Received: 07/03/19 08:15 — **Percent Solids: 34.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			306721	07/26/19 10:00	FCG	TAL SEA
Total/NA	Analysis	8270D		20	306888	07/29/19 18:12	KFS	TAL SEA
Total/NA	Prep	3550B			305281	07/10/19 15:09	K1H	TAL SEA
Total/NA	Analysis	8082A		1	306180	07/20/19 20:17	TL1	TAL SEA
Total/NA	Prep	3050B			305407	07/11/19 13:20	JCP	TAL SEA
Total/NA	Analysis	6020A		5	305826	07/16/19 20:59	FCW	TAL SEA
Total/NA	Prep	7471A			305508	07/12/19 11:43	ART	TAL SEA
Total/NA	Analysis	7471A		1	305609	07/12/19 17:12	T1H	TAL SEA
Soluble	Leach	DI Leach/Plumb			304977	07/08/19 12:01	EMM	TAL SEA
Soluble	Analysis	350.1/Plumb		1	304993	07/08/19 13:17	EMM	TAL SEA
Total/NA	Prep	9030B			463974	07/09/19 12:34	JLA	TAL DEN
Total/NA	Analysis	9034		1	464026	07/09/19 16:08	JLA	TAL DEN

Client Sample ID: BH2-40-S — Lab Sample ID: 580-87377-28

Date Collected: 07/02/19 12:05 — **Matrix: Solid**
Date Received: 07/03/19 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	160.4		1	464009	07/09/19 15:04	JAP	TAL DEN

Client Sample ID: BH2-40-S — Lab Sample ID: 580-87377-28

Date Collected: 07/02/19 12:05 — **Matrix: Solid**
Date Received: 07/03/19 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	306030	07/18/19 14:00	RM	TAL SEA
Total/NA	Analysis	9060_PSEP		1	306044	07/15/19 20:46	JKM	TAL SEA
Total/NA	Analysis	PSEP Plumb 1981		1	305160	07/09/19 16:28	JKM	TAL SEA

Client Sample ID: BH2-40-S — Lab Sample ID: 580-87377-28

Date Collected: 07/02/19 12:05 — **Matrix: Solid**
Date Received: 07/03/19 08:15 — **Percent Solids: 70.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			306721	07/26/19 10:00	FCG	TAL SEA
Total/NA	Analysis	8270D		10	306888	07/29/19 18:36	KFS	TAL SEA
Total/NA	Prep	3550B			305281	07/10/19 15:09	K1H	TAL SEA
Total/NA	Analysis	8082A		1	306180	07/20/19 20:35	TL1	TAL SEA
Total/NA	Prep	3050B			305407	07/11/19 13:20	JCP	TAL SEA
Total/NA	Analysis	6020A		5	305826	07/16/19 21:03	FCW	TAL SEA
Total/NA	Prep	7471A			305508	07/12/19 11:43	ART	TAL SEA
Total/NA	Analysis	7471A		1	305609	07/12/19 17:15	T1H	TAL SEA
Soluble	Leach	DI Leach/Plumb			304977	07/08/19 12:01	EMM	TAL SEA
Soluble	Analysis	350.1/Plumb		1	304993	07/08/19 13:17	EMM	TAL SEA
Total/NA	Prep	9030B			463974	07/09/19 12:34	JLA	TAL DEN
Total/NA	Analysis	9034		1	464026	07/09/19 16:08	JLA	TAL DEN

Client Sample ID: BH2-39-S — Lab Sample ID: 580-87377-29

Date Collected: 07/02/19 12:18 — **Matrix: Solid**
Date Received: 07/03/19 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	160.4		1	464009	07/09/19 15:04	JAP	TAL DEN
Total/NA	Analysis	2540G		1	306030	07/18/19 14:00	RM	TAL SEA
Total/NA	Analysis	9060_PSEP		1	306044	07/15/19 20:50	JKM	TAL SEA
Total/NA	Analysis	PSEP Plumb 1981		1	305160	07/09/19 16:28	JKM	TAL SEA

Client Sample ID: BH2-39-S — Lab Sample ID: 580-87377-29

Date Collected: 07/02/19 12:18 — **Matrix: Solid**
Date Received: 07/03/19 08:15 — **Percent Solids: 69.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			306721	07/26/19 10:00	FCG	TAL SEA
Total/NA	Analysis	8270D		20	306888	07/29/19 19:00	KFS	TAL SEA
Total/NA	Prep	3550B			305281	07/10/19 15:09	K1H	TAL SEA
Total/NA	Analysis	8082A		1	306180	07/20/19 20:53	TL1	TAL SEA
Total/NA	Prep	3050B			305407	07/11/19 13:20	JCP	TAL SEA
Total/NA	Analysis	6020A		5	305826	07/16/19 21:08	FCW	TAL SEA
Total/NA	Prep	7471A			305508	07/12/19 11:43	ART	TAL SEA
Total/NA	Analysis	7471A		1	305609	07/12/19 17:17	T1H	TAL SEA

Lab Chronicle

Client: Leidos, Inc.
Job ID: 580-87377-1
Project/Site: 2019 Blakely Harbor Sediment Inv.

Client Sample ID: BH2-39-S
Lab Sample ID: 580-87377-29
Date Collected: 07/02/19 12:18
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 69.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach/Plumb			304977	07/08/19 12:01	EMM	TAL SEA
Soluble	Analysis	350.1/Plumb		1	304993	07/08/19 13:17	EMM	TAL SEA
Total/NA	Prep	9030B			463974	07/09/19 12:34	JLA	TAL DEN
Total/NA	Analysis	9034		1	464026	07/09/19 16:08	JLA	TAL DEN

Client Sample ID: BH2-38-S
Lab Sample ID: 580-87377-30
Date Collected: 07/02/19 12:30
Matrix: Solid
Date Received: 07/03/19 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	160.4		1	464009	07/09/19 15:04	JAP	TAL DEN
Total/NA	Analysis	2540G		1	306030	07/18/19 14:00	RM	TAL SEA
Total/NA	Analysis	9060_PSEP		1	306044	07/15/19 20:55	JKM	TAL SEA
Total/NA	Analysis	PSEP Plumb 1981		1	305160	07/09/19 16:28	JKM	TAL SEA

Client Sample ID: BH2-38-S
Lab Sample ID: 580-87377-30
Date Collected: 07/02/19 12:30
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 65.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			306721	07/26/19 10:00	FCG	TAL SEA
Total/NA	Analysis	8270D		10	306888	07/29/19 19:24	KFS	TAL SEA
Total/NA	Prep	3550B			305281	07/10/19 15:09	K1H	TAL SEA
Total/NA	Analysis	8082A		1	306180	07/20/19 21:11	TL1	TAL SEA
Total/NA	Prep	3050B			305407	07/11/19 13:20	JCP	TAL SEA
Total/NA	Analysis	6020A		5	305826	07/16/19 21:12	FCW	TAL SEA
Total/NA	Prep	7471A			305508	07/12/19 11:43	ART	TAL SEA
Total/NA	Analysis	7471A		1	305609	07/12/19 17:19	T1H	TAL SEA
Soluble	Leach	DI Leach/Plumb			304977	07/08/19 12:01	EMM	TAL SEA
Soluble	Analysis	350.1/Plumb		1	304993	07/08/19 13:17	EMM	TAL SEA
Total/NA	Prep	9030B			463974	07/09/19 12:34	JLA	TAL DEN
Total/NA	Analysis	9034		1	464026	07/09/19 16:08	JLA	TAL DEN

Client Sample ID: BH2-37-S
Lab Sample ID: 580-87377-31
Date Collected: 07/02/19 12:42
Matrix: Solid
Date Received: 07/03/19 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	160.4		1	464009	07/09/19 15:04	JAP	TAL DEN
Total/NA	Analysis	2540G		1	306030	07/18/19 14:00	RM	TAL SEA
Total/NA	Analysis	9060_PSEP		1	306044	07/15/19 20:59	JKM	TAL SEA
Total/NA	Analysis	PSEP Plumb 1981		1	305169	07/09/19 16:31	JKM	TAL SEA

Lab Chronicle

Client: Leidos, Inc.
Job ID: 580-87377-1
Project/Site: 2019 Blakely Harbor Sediment Inv.

Client Sample ID: BH2-37-S
Lab Sample ID: 580-87377-31
Date Collected: 07/02/19 12:42
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 31.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			306721	07/26/19 10:00	FCG	TAL SEA
Total/NA	Analysis	8270D		20	306888	07/29/19 19:48	KFS	TAL SEA
Total/NA	Prep	3550B			305281	07/10/19 15:09	K1H	TAL SEA
Total/NA	Analysis	8082A		1	306180	07/20/19 21:30	TL1	TAL SEA
Total/NA	Prep	3050B			305407	07/11/19 13:20	JCP	TAL SEA
Total/NA	Analysis	6020A		5	305826	07/16/19 21:16	FCW	TAL SEA
Total/NA	Prep	7471A			305508	07/12/19 11:43	ART	TAL SEA
Total/NA	Analysis	7471A		1	305609	07/12/19 17:21	T1H	TAL SEA
Soluble	Leach	DI Leach/Plumb			304977	07/08/19 12:01	EMM	TAL SEA
Soluble	Analysis	350.1/Plumb		1	304993	07/08/19 13:17	EMM	TAL SEA
Total/NA	Prep	9030B			463974	07/09/19 12:34	JLA	TAL DEN
Total/NA	Analysis	9034		1	464026	07/09/19 16:08	JLA	TAL DEN

Client Sample ID: BH2-36-S
Lab Sample ID: 580-87377-32
Date Collected: 07/02/19 12:54
Matrix: Solid
Date Received: 07/03/19 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	160.4		1	464009	07/09/19 15:04	JAP	TAL DEN
Total/NA	Analysis	2540G		1	306030	07/18/19 14:00	RM	TAL SEA
Total/NA	Analysis	9060_PSEP		1	306044	07/15/19 21:15	JKM	TAL SEA
Total/NA	Analysis	PSEP Plumb 1981		1	305169	07/09/19 16:31	JKM	TAL SEA

Client Sample ID: BH2-36-S
Lab Sample ID: 580-87377-32
Date Collected: 07/02/19 12:54
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 72.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			306721	07/26/19 10:00	FCG	TAL SEA
Total/NA	Analysis	8270D		10	306888	07/29/19 20:12	KFS	TAL SEA
Total/NA	Prep	3550B			305281	07/10/19 15:09	K1H	TAL SEA
Total/NA	Analysis	8082A		1	306180	07/20/19 21:48	TL1	TAL SEA
Total/NA	Prep	3050B			305407	07/11/19 13:20	JCP	TAL SEA
Total/NA	Analysis	6020A		5	305826	07/16/19 21:20	FCW	TAL SEA
Total/NA	Prep	7471A			305508	07/12/19 11:43	ART	TAL SEA
Total/NA	Analysis	7471A		1	305609	07/12/19 17:24	T1H	TAL SEA
Soluble	Leach	DI Leach/Plumb			304977	07/08/19 12:01	EMM	TAL SEA
Soluble	Analysis	350.1/Plumb		1	304993	07/08/19 13:17	EMM	TAL SEA
Total/NA	Prep	9030B			463974	07/09/19 12:34	JLA	TAL DEN
Total/NA	Analysis	9034		1	464026	07/09/19 16:08	JLA	TAL DEN

Lab Chronicle

Client: Leidos, Inc.
Job ID: 580-87377-1
Project/Site: 2019 Blakely Harbor Sediment Inv.

Client Sample ID: BH2-35-S
Lab Sample ID: 580-87377-33
Date Collected: 07/02/19 13:08
Matrix: Solid
Date Received: 07/03/19 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	160.4		1	464009	07/09/19 15:04	JAP	TAL DEN
Total/NA	Analysis	2540G		1	306319	07/22/19 17:12	RM	TAL SEA
Total/NA	Analysis	9060_PSEP		1	306044	07/15/19 21:19	JKM	TAL SEA
Total/NA	Analysis	PSEP Plumb 1981		1	305169	07/09/19 16:31	JKM	TAL SEA

Client Sample ID: BH2-35-S
Lab Sample ID: 580-87377-33
Date Collected: 07/02/19 13:08
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 71.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			306721	07/26/19 10:00	FCG	TAL SEA
Total/NA	Analysis	8270D		10	306888	07/29/19 20:36	KFS	TAL SEA
Total/NA	Prep	3550B			305281	07/10/19 15:09	K1H	TAL SEA
Total/NA	Analysis	8082A		1	306180	07/20/19 22:06	TL1	TAL SEA
Total/NA	Prep	3050B			305407	07/11/19 13:20	JCP	TAL SEA
Total/NA	Analysis	6020A		5	305826	07/16/19 21:41	FCW	TAL SEA
Total/NA	Prep	7471A			305508	07/12/19 11:43	ART	TAL SEA
Total/NA	Analysis	7471A		1	305609	07/12/19 17:26	T1H	TAL SEA
Soluble	Leach	DI Leach/Plumb			304977	07/08/19 12:01	EMM	TAL SEA
Soluble	Analysis	350.1/Plumb		1	304993	07/08/19 13:17	EMM	TAL SEA
Total/NA	Prep	9030B			463974	07/09/19 12:34	JLA	TAL DEN
Total/NA	Analysis	9034		1	464026	07/09/19 16:08	JLA	TAL DEN

Client Sample ID: BH2-34-S
Lab Sample ID: 580-87377-34
Date Collected: 07/02/19 13:22
Matrix: Solid
Date Received: 07/03/19 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	160.4		1	464009	07/09/19 15:04	JAP	TAL DEN
Total/NA	Analysis	2540G		1	306319	07/22/19 17:12	RM	TAL SEA
Total/NA	Analysis	9060_PSEP		1	306044	07/15/19 19:28	JKM	TAL SEA
Total/NA	Analysis	PSEP Plumb 1981		1	305169	07/09/19 16:31	JKM	TAL SEA

Client Sample ID: BH2-34-S
Lab Sample ID: 580-87377-34
Date Collected: 07/02/19 13:22
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 73.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			306721	07/26/19 10:00	FCG	TAL SEA
Total/NA	Analysis	8270D		10	306888	07/29/19 21:00	KFS	TAL SEA
Total/NA	Prep	3550B			305281	07/10/19 15:09	K1H	TAL SEA
Total/NA	Analysis	8082A		1	306190	07/21/19 00:32	TL1	TAL SEA
Total/NA	Prep	3050B			305407	07/11/19 13:20	JCP	TAL SEA
Total/NA	Analysis	6020A		5	305826	07/16/19 20:09	FCW	TAL SEA

Lab Chronicle

Client: Leidos, Inc.
Job ID: 580-87377-1
Project/Site: 2019 Blakely Harbor Sediment Inv.

Client Sample ID: BH2-34-S
Lab Sample ID: 580-87377-34
Date Collected: 07/02/19 13:22
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 73.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			305508	07/12/19 11:43	ART	TAL SEA
Total/NA	Analysis	7471A		1	305609	07/12/19 16:52	T1H	TAL SEA
Soluble	Leach	DI Leach/Plumb			304977	07/08/19 12:01	EMM	TAL SEA
Soluble	Analysis	350.1/Plumb		1	304993	07/08/19 13:17	EMM	TAL SEA
Total/NA	Prep	9030B			463974	07/09/19 12:34	JLA	TAL DEN
Total/NA	Analysis	9034		1	464026	07/09/19 16:08	JLA	TAL DEN

Client Sample ID: BH2-33-S
Lab Sample ID: 580-87377-35
Date Collected: 07/02/19 13:41
Matrix: Solid
Date Received: 07/03/19 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	160.4		1	464009	07/09/19 15:04	JAP	TAL DEN
Total/NA	Analysis	2540G		1	306319	07/22/19 17:12	RM	TAL SEA
Total/NA	Analysis	9060_PSEP		1	306042	07/18/19 12:26	JKM	TAL SEA
Total/NA	Analysis	PSEP Plumb 1981		1	305169	07/09/19 16:31	JKM	TAL SEA

Client Sample ID: BH2-33-S
Lab Sample ID: 580-87377-35
Date Collected: 07/02/19 13:41
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 68.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			306721	07/26/19 10:00	FCG	TAL SEA
Total/NA	Analysis	8270D		10	306888	07/29/19 22:12	KFS	TAL SEA
Total/NA	Prep	3550B			305281	07/10/19 15:09	K1H	TAL SEA
Total/NA	Analysis	8082A		1	306190	07/21/19 01:26	TL1	TAL SEA
Total/NA	Prep	3050B			305407	07/11/19 13:20	JCP	TAL SEA
Total/NA	Analysis	6020A		5	305826	07/16/19 21:46	FCW	TAL SEA
Total/NA	Prep	7471A			305508	07/12/19 11:43	ART	TAL SEA
Total/NA	Analysis	7471A		1	305609	07/12/19 17:28	T1H	TAL SEA
Soluble	Leach	DI Leach/Plumb			304977	07/08/19 12:01	EMM	TAL SEA
Soluble	Analysis	350.1/Plumb		1	304993	07/08/19 13:17	EMM	TAL SEA
Total/NA	Prep	9030B			463974	07/09/19 12:34	JLA	TAL DEN
Total/NA	Analysis	9034		1	464026	07/09/19 16:08	JLA	TAL DEN

Client Sample ID: BH2-32-S
Lab Sample ID: 580-87377-36
Date Collected: 07/02/19 13:57
Matrix: Solid
Date Received: 07/03/19 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	160.4		1	464009	07/09/19 15:04	JAP	TAL DEN
Total/NA	Analysis	2540G		1	306319	07/22/19 17:12	RM	TAL SEA
Total/NA	Analysis	9060_PSEP		1	306042	07/18/19 12:31	JKM	TAL SEA
Total/NA	Analysis	PSEP Plumb 1981		1	305169	07/09/19 16:31	JKM	TAL SEA

Lab Chronicle

Client: Leidos, Inc.
Job ID: 580-87377-1
Project/Site: 2019 Blakely Harbor Sediment Inv.

Client Sample ID: BH2-32-S
Lab Sample ID: 580-87377-36
Date Collected: 07/02/19 13:57
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 28.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			306721	07/26/19 10:00	FCG	TAL SEA
Total/NA	Analysis	8270D		20	306888	07/29/19 22:36	KFS	TAL SEA
Total/NA	Prep	3550B			305281	07/10/19 15:09	K1H	TAL SEA
Total/NA	Analysis	8082A		1	306190	07/21/19 01:45	TL1	TAL SEA
Total/NA	Prep	3050B			305407	07/11/19 13:20	JCP	TAL SEA
Total/NA	Analysis	6020A		5	305826	07/16/19 21:50	FCW	TAL SEA
Total/NA	Prep	7471A			305508	07/12/19 11:43	ART	TAL SEA
Total/NA	Analysis	7471A		1	305609	07/12/19 17:31	T1H	TAL SEA
Soluble	Leach	DI Leach/Plumb			304977	07/08/19 12:01	EMM	TAL SEA
Soluble	Analysis	350.1/Plumb		1	304993	07/08/19 13:17	EMM	TAL SEA
Total/NA	Prep	9030B			463974	07/09/19 12:34	JLA	TAL DEN
Total/NA	Analysis	9034		1	464026	07/09/19 16:08	JLA	TAL DEN

Client Sample ID: BH2-31-S
Lab Sample ID: 580-87377-37
Date Collected: 07/02/19 14:15
Matrix: Solid
Date Received: 07/03/19 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	160.4		1	464009	07/09/19 15:04	JAP	TAL DEN
Total/NA	Analysis	2540G		1	306319	07/22/19 17:12	RM	TAL SEA
Total/NA	Analysis	9060_PSEP		1	306042	07/18/19 12:35	JKM	TAL SEA
Total/NA	Analysis	PSEP Plumb 1981		1	305169	07/09/19 16:31	JKM	TAL SEA

Client Sample ID: BH2-31-S
Lab Sample ID: 580-87377-37
Date Collected: 07/02/19 14:15
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 73.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			306721	07/26/19 10:00	FCG	TAL SEA
Total/NA	Analysis	8270D		20	306888	07/29/19 23:00	KFS	TAL SEA
Total/NA	Prep	3550B			305281	07/10/19 15:09	K1H	TAL SEA
Total/NA	Analysis	8082A		1	306190	07/21/19 02:03	TL1	TAL SEA
Total/NA	Prep	3050B			305407	07/11/19 13:20	JCP	TAL SEA
Total/NA	Analysis	6020A		5	305826	07/16/19 21:54	FCW	TAL SEA
Total/NA	Prep	7471A			305508	07/12/19 11:43	ART	TAL SEA
Total/NA	Analysis	7471A		1	305609	07/12/19 17:33	T1H	TAL SEA
Soluble	Leach	DI Leach/Plumb			304977	07/08/19 12:01	EMM	TAL SEA
Soluble	Analysis	350.1/Plumb		1	304993	07/08/19 13:17	EMM	TAL SEA
Total/NA	Prep	9030B			463974	07/09/19 12:34	JLA	TAL DEN
Total/NA	Analysis	9034		1	464026	07/09/19 16:08	JLA	TAL DEN

Lab Chronicle

Client: Leidos, Inc. Job ID: 580-87377-1
Project/Site: 2019 Blakely Harbor Sediment Inv.

Client Sample ID: BH2-30-S — Lab Sample ID: 580-87377-38

Date Collected: 07/02/19 14:29 **Matrix: Solid**
Date Received: 07/03/19 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	160.4		1	464009	07/09/19 15:04	JAP	TAL DEN
Total/NA	Analysis	2540G		1	306319	07/22/19 17:12	RM	TAL SEA
Total/NA	Analysis	9060_PSEP		1	306042	07/18/19 12:39	JKM	TAL SEA
Total/NA	Analysis	PSEP Plumb 1981		1	305169	07/09/19 16:31	JKM	TAL SEA

Client Sample ID: BH2-30-S — Lab Sample ID: 580-87377-38

Date Collected: 07/02/19 14:29 **Matrix: Solid**
Date Received: 07/03/19 08:15 **Percent Solids: 70.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			306721	07/26/19 10:00	FCG	TAL SEA
Total/NA	Analysis	8270D		10	306888	07/29/19 23:24	KFS	TAL SEA
Total/NA	Prep	3550B			305281	07/10/19 15:09	K1H	TAL SEA
Total/NA	Analysis	8082A		1	306190	07/21/19 02:21	TL1	TAL SEA
Total/NA	Prep	3050B			305407	07/11/19 13:20	JCP	TAL SEA
Total/NA	Analysis	6020A		5	305826	07/16/19 21:58	FCW	TAL SEA
Total/NA	Prep	7471A			305508	07/12/19 11:43	ART	TAL SEA
Total/NA	Analysis	7471A		1	305609	07/12/19 17:40	T1H	TAL SEA
Soluble	Leach	DI Leach/Plumb			304977	07/08/19 12:01	EMM	TAL SEA
Soluble	Analysis	350.1/Plumb		1	304993	07/08/19 13:17	EMM	TAL SEA
Total/NA	Prep	9030B			463974	07/09/19 12:34	JLA	TAL DEN
Total/NA	Analysis	9034		1	464026	07/09/19 16:08	JLA	TAL DEN

Client Sample ID: BH2-29-S — Lab Sample ID: 580-87377-39

Date Collected: 07/02/19 14:41 **Matrix: Solid**
Date Received: 07/03/19 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	160.4		1	464009	07/09/19 15:04	JAP	TAL DEN
Total/NA	Analysis	2540G		1	306319	07/22/19 17:12	RM	TAL SEA
Total/NA	Analysis	9060_PSEP		1	306042	07/18/19 12:44	JKM	TAL SEA
Total/NA	Analysis	PSEP Plumb 1981		1	305169	07/09/19 16:31	JKM	TAL SEA

Client Sample ID: BH2-29-S — Lab Sample ID: 580-87377-39

Date Collected: 07/02/19 14:41 **Matrix: Solid**
Date Received: 07/03/19 08:15 **Percent Solids: 64.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			306721	07/26/19 10:00	FCG	TAL SEA
Total/NA	Analysis	8270D		10	306888	07/29/19 23:48	KFS	TAL SEA
Total/NA	Prep	3550B			305281	07/10/19 15:09	K1H	TAL SEA
Total/NA	Analysis	8082A		1	306190	07/21/19 02:39	TL1	TAL SEA
Total/NA	Prep	3050B			305407	07/11/19 13:20	JCP	TAL SEA
Total/NA	Analysis	6020A		5	305826	07/16/19 22:03	FCW	TAL SEA

Lab Chronicle

Client: Leidos, Inc. Job ID: 580-87377-1
Project/Site: 2019 Blakely Harbor Sediment Inv.

Client Sample ID: BH2-29-S
Lab Sample ID: 580-87377-39
Date Collected: 07/02/19 14:41 **Matrix: Solid**
Date Received: 07/03/19 08:15 **Percent Solids: 64.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			305508	07/12/19 11:43	ART	TAL SEA
Total/NA	Analysis	7471A		1	305609	07/12/19 17:42	T1H	TAL SEA
Soluble	Leach	DI Leach/Plumb			304977	07/08/19 12:01	EMM	TAL SEA
Soluble	Analysis	350.1/Plumb		1	304993	07/08/19 13:17	EMM	TAL SEA
Total/NA	Prep	9030B			463974	07/09/19 12:34	JLA	TAL DEN
Total/NA	Analysis	9034		1	464026	07/09/19 16:08	JLA	TAL DEN

Client Sample ID: BH2-26-S
Lab Sample ID: 580-87377-40
Date Collected: 07/02/19 14:56 **Matrix: Solid**
Date Received: 07/03/19 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	160.4		1	464009	07/09/19 15:04	JAP	TAL DEN
Total/NA	Analysis	2540G		1	306319	07/22/19 17:12	RM	TAL SEA
Total/NA	Analysis	9060_PSEP		1	306044	07/18/19 13:39	JKM	TAL SEA
Total/NA	Analysis	PSEP Plumb 1981		1	305169	07/09/19 16:31	JKM	TAL SEA

Client Sample ID: BH2-26-S
Lab Sample ID: 580-87377-40
Date Collected: 07/02/19 14:56 **Matrix: Solid**
Date Received: 07/03/19 08:15 **Percent Solids: 47.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			306721	07/26/19 10:00	FCG	TAL SEA
Total/NA	Analysis	8270D		20	306888	07/30/19 00:12	KFS	TAL SEA
Total/NA	Prep	3550B			305281	07/10/19 15:09	K1H	TAL SEA
Total/NA	Analysis	8082A		1	306190	07/21/19 02:57	TL1	TAL SEA
Total/NA	Prep	3050B			305407	07/11/19 13:20	JCP	TAL SEA
Total/NA	Analysis	6020A		5	305826	07/16/19 22:07	FCW	TAL SEA
Total/NA	Prep	7471A			305508	07/12/19 11:43	ART	TAL SEA
Total/NA	Analysis	7471A		1	305609	07/12/19 17:45	T1H	TAL SEA
Soluble	Leach	DI Leach/Plumb			304977	07/08/19 12:01	EMM	TAL SEA
Soluble	Analysis	350.1/Plumb		1	304993	07/08/19 13:17	EMM	TAL SEA
Total/NA	Prep	9030B			463974	07/09/19 12:34	JLA	TAL DEN
Total/NA	Analysis	9034		1	464026	07/09/19 16:08	JLA	TAL DEN

Client Sample ID: BH2-25-S
Lab Sample ID: 580-87377-41
Date Collected: 07/02/19 15:11 **Matrix: Solid**
Date Received: 07/03/19 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	160.4		1	464009	07/09/19 15:04	JAP	TAL DEN
Total/NA	Analysis	2540G		1	306319	07/22/19 17:12	RM	TAL SEA
Total/NA	Analysis	9060_PSEP		1	306044	07/18/19 13:43	JKM	TAL SEA
Total/NA	Analysis	PSEP Plumb 1981		1	305169	07/09/19 16:31	JKM	TAL SEA

Lab Chronicle

Client: Leidos, Inc.
Job ID: 580-87377-1
Project/Site: 2019 Blakely Harbor Sediment Inv.

Client Sample ID: BH2-25-S
Lab Sample ID: 580-87377-41
Date Collected: 07/02/19 15:11
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 46.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			306721	07/26/19 10:00	FCG	TAL SEA
Total/NA	Analysis	8270D		20	306888	07/30/19 00:36	KFS	TAL SEA
Total/NA	Prep	3550B			305281	07/10/19 15:09	K1H	TAL SEA
Total/NA	Analysis	8082A		1	306190	07/21/19 03:15	TL1	TAL SEA
Total/NA	Prep	3050B			305407	07/11/19 13:20	JCP	TAL SEA
Total/NA	Analysis	6020A		5	305826	07/16/19 22:11	FCW	TAL SEA
Total/NA	Prep	7471A			305508	07/12/19 11:43	ART	TAL SEA
Total/NA	Analysis	7471A		1	305609	07/12/19 17:47	T1H	TAL SEA
Soluble	Leach	DI Leach/Plumb			304977	07/08/19 12:01	EMM	TAL SEA
Soluble	Analysis	350.1/Plumb		1	304993	07/08/19 13:17	EMM	TAL SEA
Total/NA	Prep	9030B			464030	07/09/19 16:36	JLA	TAL DEN
Total/NA	Analysis	9034		1	464047	07/09/19 18:48	JLA	TAL DEN

Client Sample ID: BH2-25-D
Lab Sample ID: 580-87377-42
Date Collected: 07/02/19 15:11
Matrix: Solid
Date Received: 07/03/19 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	160.4		1	464009	07/09/19 15:04	JAP	TAL DEN
Total/NA	Analysis	2540G		1	306319	07/22/19 17:12	RM	TAL SEA
Total/NA	Analysis	9060_PSEP		1	306044	07/18/19 13:47	JKM	TAL SEA
Total/NA	Analysis	PSEP Plumb 1981		1	305169	07/09/19 16:31	JKM	TAL SEA

Client Sample ID: BH2-25-D
Lab Sample ID: 580-87377-42
Date Collected: 07/02/19 15:11
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 46.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			306721	07/26/19 10:00	FCG	TAL SEA
Total/NA	Analysis	8270D		20	306888	07/30/19 01:00	KFS	TAL SEA
Total/NA	Prep	3550B			305281	07/10/19 15:09	K1H	TAL SEA
Total/NA	Analysis	8082A		1	306190	07/21/19 03:33	TL1	TAL SEA
Total/NA	Prep	3050B			305407	07/11/19 13:20	JCP	TAL SEA
Total/NA	Analysis	6020A		5	305826	07/16/19 22:15	FCW	TAL SEA
Total/NA	Prep	7471A			305508	07/12/19 11:43	ART	TAL SEA
Total/NA	Analysis	7471A		1	305609	07/12/19 17:49	T1H	TAL SEA
Soluble	Leach	DI Leach/Plumb			304977	07/08/19 12:01	EMM	TAL SEA
Soluble	Analysis	350.1/Plumb		1	304993	07/08/19 13:17	EMM	TAL SEA
Total/NA	Prep	9030B			464030	07/09/19 16:36	JLA	TAL DEN
Total/NA	Analysis	9034		1	464047	07/09/19 18:48	JLA	TAL DEN

Lab Chronicle

Client: Leidos, Inc.
Job ID: 580-87377-1
Project/Site: 2019 Blakely Harbor Sediment Inv.

Client Sample ID: BH2-25-T
Lab Sample ID: 580-87377-43
Date Collected: 07/02/19 15:11
Matrix: Solid
Date Received: 07/03/19 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	160.4		1	464009	07/09/19 15:04	JAP	TAL DEN
Total/NA	Analysis	2540G		1	306319	07/22/19 17:12	RM	TAL SEA
Total/NA	Analysis	9060_PSEP		1	306044	07/18/19 13:52	JKM	TAL SEA
Total/NA	Analysis	PSEP Plumb 1981		1	305169	07/09/19 16:31	JKM	TAL SEA

Client Sample ID: BH2-25-T
Lab Sample ID: 580-87377-43
Date Collected: 07/02/19 15:11
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 46.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach/Plumb			304977	07/08/19 12:01	EMM	TAL SEA
Soluble	Analysis	350.1/Plumb		1	304993	07/08/19 13:17	EMM	TAL SEA
Total/NA	Prep	9030B			464030	07/09/19 16:36	JLA	TAL DEN
Total/NA	Analysis	9034		1	464047	07/09/19 18:48	JLA	TAL DEN

Client Sample ID: BH2-24-5
Lab Sample ID: 580-87377-44
Date Collected: 07/02/19 15:25
Matrix: Solid
Date Received: 07/03/19 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	160.4		1	464009	07/09/19 15:04	JAP	TAL DEN
Total/NA	Analysis	2540G		1	306319	07/22/19 17:12	RM	TAL SEA
Total/NA	Analysis	9060_PSEP		1	306044	07/18/19 13:56	JKM	TAL SEA
Total/NA	Analysis	PSEP Plumb 1981		1	305169	07/09/19 16:31	JKM	TAL SEA

Client Sample ID: BH2-24-5
Lab Sample ID: 580-87377-44
Date Collected: 07/02/19 15:25
Matrix: Solid
Date Received: 07/03/19 08:15
Percent Solids: 57.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			306721	07/26/19 10:00	FCG	TAL SEA
Total/NA	Analysis	8270D		10	306888	07/30/19 01:47	KFS	TAL SEA
Total/NA	Prep	3550B			305281	07/10/19 15:14	K1H	TAL SEA
Total/NA	Analysis	8082A		1	306190	07/21/19 03:51	TL1	TAL SEA
Total/NA	Prep	3050B			305407	07/11/19 13:20	JCP	TAL SEA
Total/NA	Analysis	6020A		5	305826	07/16/19 22:36	FCW	TAL SEA
Total/NA	Prep	7471A			305508	07/12/19 11:43	ART	TAL SEA
Total/NA	Analysis	7471A		1	305609	07/12/19 17:52	T1H	TAL SEA
Soluble	Leach	DI Leach/Plumb			304977	07/08/19 12:01	EMM	TAL SEA
Soluble	Analysis	350.1/Plumb		1	304993	07/08/19 13:17	EMM	TAL SEA
Total/NA	Prep	9030B			464030	07/09/19 16:36	JLA	TAL DEN
Total/NA	Analysis	9034		1	464047	07/09/19 18:48	JLA	TAL DEN

Lab Chronicle

Client: Leidos, Inc. Job ID: 580-87377-1
Project/Site: 2019 Blakely Harbor Sediment Inv.

Client Sample ID: BH2-16-S — Lab Sample ID: 580-87377-45

Date Collected: 07/02/19 15:43 — **Matrix: Solid**
Date Received: 07/03/19 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	160.4		1	464009	07/09/19 15:04	JAP	TAL DEN
Total/NA	Analysis	2540G		1	306319	07/22/19 17:12	RM	TAL SEA
Total/NA	Analysis	9060_PSEP		1	306044	07/18/19 14:01	JKM	TAL SEA
Total/NA	Analysis	PSEP Plumb 1981		1	305169	07/09/19 16:31	JKM	TAL SEA

Client Sample ID: BH2-16-S — Lab Sample ID: 580-87377-45

Date Collected: 07/02/19 15:43 — **Matrix: Solid**
Date Received: 07/03/19 08:15 — **Percent Solids: 31.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			306721	07/26/19 10:00	FCG	TAL SEA
Total/NA	Analysis	8270D		20	306888	07/30/19 02:11	KFS	TAL SEA
Total/NA	Prep	3550B			305281	07/10/19 15:14	K1H	TAL SEA
Total/NA	Analysis	8082A		1	306190	07/21/19 04:10	TL1	TAL SEA
Total/NA	Prep	3050B			305407	07/11/19 13:20	JCP	TAL SEA
Total/NA	Analysis	6020A		5	305826	07/16/19 22:41	FCW	TAL SEA
Total/NA	Prep	7471A			305508	07/12/19 11:43	ART	TAL SEA
Total/NA	Analysis	7471A		1	305609	07/12/19 17:54	T1H	TAL SEA
Soluble	Leach	DI Leach/Plumb			304977	07/08/19 12:01	EMM	TAL SEA
Soluble	Analysis	350.1/Plumb		1	304993	07/08/19 13:17	EMM	TAL SEA
Total/NA	Prep	9030B			464030	07/09/19 16:36	JLA	TAL DEN
Total/NA	Analysis	9034		1	464047	07/09/19 18:48	JLA	TAL DEN

Client Sample ID: BH2-15-ER — Lab Sample ID: 580-87377-46

Date Collected: 07/01/19 19:15 — **Matrix: Water**
Date Received: 07/03/19 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			304871	07/05/19 16:26	ERZ	TAL SEA
Total/NA	Analysis	8270D		1	305144	07/09/19 19:21	T1W	TAL SEA
Total/NA	Prep	3510C			304795	07/05/19 09:19	N1C	TAL SEA
Total/NA	Analysis	8082A		1	305512	07/12/19 16:00	T1W	TAL SEA
Total Recoverable	Prep	3005A			305608	07/15/19 08:49	ART	TAL SEA
Total Recoverable	Analysis	6020B		1	305712	07/15/19 19:33	RM	TAL SEA
Total/NA	Prep	7470A			305211	07/10/19 10:25	ART	TAL SEA
Total/NA	Analysis	7470A		1	305317	07/10/19 15:44	T1H	TAL SEA

Client Sample ID: BH2-16-ER — Lab Sample ID: 580-87377-47

Date Collected: 07/02/19 16:02 — **Matrix: Water**
Date Received: 07/03/19 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			304871	07/05/19 16:26	ERZ	TAL SEA
Total/NA	Analysis	8270D		1	305144	07/09/19 19:44	T1W	TAL SEA

Lab Chronicle

Client: Leidos, Inc.
Job ID: 580-87377-1
Project/Site: 2019 Blakely Harbor Sediment Inv.

Client Sample ID: BH2-16-ER
Lab Sample ID: 580-87377-47
Date Collected: 07/02/19 16:02
Matrix: Water
Date Received: 07/03/19 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			304795	07/05/19 09:19	N1C	TAL SEA
Total/NA	Analysis	8082A		1	305512	07/12/19 16:17	T1W	TAL SEA
Total Recoverable	Prep	3005A			305608	07/15/19 08:49	ART	TAL SEA
Total Recoverable	Analysis	6020B		1	305712	07/15/19 19:46	RM	TAL SEA
Total/NA	Prep	7470A			305211	07/10/19 10:25	ART	TAL SEA
Total/NA	Analysis	7470A		1	305317	07/10/19 15:46	T1H	TAL SEA

Client Sample ID: BH2-16-RB
Lab Sample ID: 580-87377-48
Date Collected: 07/02/19 16:02
Matrix: Water
Date Received: 07/03/19 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			304871	07/05/19 16:26	ERZ	TAL SEA
Total/NA	Analysis	8270D		1	305144	07/09/19 20:07	T1W	TAL SEA
Total/NA	Prep	3510C			304795	07/05/19 09:19	N1C	TAL SEA
Total/NA	Analysis	8082A		1	305512	07/12/19 16:33	T1W	TAL SEA
Total Recoverable	Prep	3005A			305608	07/15/19 08:49	ART	TAL SEA
Total Recoverable	Analysis	6020B		1	305826	07/16/19 15:22	FCW	TAL SEA
Total/NA	Prep	7470A			305211	07/10/19 10:25	ART	TAL SEA
Total/NA	Analysis	7470A		1	305317	07/10/19 15:48	T1H	TAL SEA

Client Sample ID: PSRM0121
Lab Sample ID: 580-87377-49
Date Collected: 06/24/19 00:01
Matrix: Solid
Date Received: 07/03/19 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	307264	07/12/19 11:19	TCS	TAL SAC

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

TAL SEA = Eurofins TestAmerica, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Leidos, Inc.
Job ID: 580-87377-1
Project/Site: 2019 Blakely Harbor Sediment Inv.

Laboratory: Eurofins TestAmerica, Seattle

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

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-024	01-19-22
Alaska (UST)	State Program	17-024	01-19-20
ANAB	Dept. of Defense ELAP	L2236	01-19-22
ANAB	DoD	L2236	01-19-22
ANAB	ISO/IEC 17025	L2236	01-19-22
ANAB	ISO/IEC 17025	L2236	01-19-22
California	State	2901	11-05-19
California	State Program	2901	11-05-19
Montana (UST)	State Program	N/A	04-30-20
Oregon	NELAP	WA100007	11-05-19
Oregon	NELAP	WA100007	11-05-19
US Fish & Wildlife	Federal	LE058448-0	07-31-20
USDA	Federal	P330-14-00126	02-10-20
USDA	US Federal Programs	P330-17-00039	02-10-20
Washington	State	C553	02-17-20
Washington	State Program	C553	02-17-20

Laboratory: Eurofins TestAmerica, Denver

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-19
A2LA	DoD	2907.01	10-31-19
A2LA	ISO/IEC 17025	2907.01	10-31-19
A2LA	ISO/IEC 17025	2907.01	10-31-19
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State Program	UST-30	01-08-20
Arizona	State	AZ0713	12-20-19
Arizona	State Program	AZ0713	12-20-19
Arkansas DEQ	State Program	88-0687	06-01-20
California	State	2513	01-08-20
California	State Program	2513	01-08-20
Connecticut	State Program	PH-0686	09-30-20
Florida	NELAP	E87667	06-30-20
Florida	NELAP	E87667-57	06-30-20
Georgia	State Program	N/A	01-08-20
Illinois	NELAP	200017	04-30-20
Iowa	State Program	370	12-01-20
Kansas	NELAP	E-10166	04-30-20
Louisiana	NELAP	02096	06-30-20
Maine	State Program	CO0002	03-03-21
Minnesota	NELAP	8-999-405	12-31-19
Nevada	State Program	CO0026	07-31-19 *
New Hampshire	NELAP	205310	04-28-20
New Jersey	NELAP	CO004	06-30-20
New Jersey	NELAP	190002	06-30-20
New York	NELAP	11964	04-01-20
New York	NELAP	59923	04-01-20
North Carolina (WW/SW)	State Program	358	12-31-19
North Dakota	State Program	R-034	01-08-20

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Leidos, Inc. Job ID: 580-87377-1
Project/Site: 2019 Blakely Harbor Sediment Inv.

Laboratory: Eurofins TestAmerica, Denver (Continued)

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

Authority	Program	Identification Number	Expiration Date
Oklahoma	State	2018-006	08-31-19
Oregon	NELAP	4025	01-08-20
Oregon	NELAP	4025-011	01-08-20
Pennsylvania	NELAP	68-00664	07-31-20
Pennsylvania	NELAP	013	07-31-19
South Carolina	State Program	72002001	01-08-20
Texas	NELAP	T104704183-18-15	09-30-19
Texas	NELAP	T104704183-18-15	09-30-19
US Fish & Wildlife	Federal		07-31-20
USDA	Federal		03-26-21
Utah	NELAP	CO00026	07-31-19 *
Virginia	NELAP	460232	06-14-20
Virginia	NELAP	10490	06-14-20
Washington	State Program	C583	08-03-20
West Virginia DEP	State Program	354	11-30-19
Wisconsin	State Program	999615430	08-31-19 *
Wyoming (UST)	A2LA	2907.01	10-31-19

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Leidos, Inc.
Job ID: 580-87377-1
Project/Site: 2019 Blakely Harbor Sediment Inv.

Laboratory: Eurofins TestAmerica, Sacramento

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

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State Program	17-020	01-20-21
ANAB	Dept. of Defense ELAP	L2468	01-20-21
ANAB	DoD	L2468	01-20-21
ANAB	DOE	L2468.01	01-20-21
ANAB	ISO/IEC 17025	L2468	08-09-21
Arkansas DEQ	State Program	88-0691	06-17-20
California	State	2897	01-31-20
California	State Program	2897	01-31-20
Colorado	State Program	CA00044	08-31-19
Connecticut	State	PH-0691	06-30-21
Connecticut	State Program	PH-0691	06-30-21
Florida	NELAP	E87570	06-30-20
Florida	NELAP	E87570	06-30-20
Hawaii	State	<cert No.>	01-29-20
Hawaii	State Program	N/A	01-29-20
Illinois	NELAP	200060	03-17-20 *
Illinois	NELAP	200060	03-17-20
Kansas	NELAP	E-10375	10-31-19
Louisiana	NELAP	30612	06-30-20
Maine	State Program	CA0004	04-14-20
Michigan	State	9947	01-29-20
Michigan	State Program	9947	01-31-20
Nevada	State Program	CA00044	07-31-19
New Hampshire	NELAP	2997	04-20-20
New York	NELAP	11666	04-01-20
Oregon	NELAP	4040	01-29-20
Oregon	NELAP	4040	01-29-20
Pennsylvania	NELAP	68-01272	03-31-20
Pennsylvania	NELAP	68-01272	03-31-20
Texas	NELAP	T104704399	05-31-20
Texas	NELAP	T104704399-19-13	05-31-20
US Fish & Wildlife	Federal	LE148388-0	07-31-20
USDA	Federal	P330-18-00239	01-17-21
USEPA UCMR	Federal	CA00044	12-31-20
Utah	NELAP	CA00044	02-29-20
Vermont	State Program	VT-4040	04-16-20
Virginia	NELAP	460278	03-14-20
Virginia	NELAP	460278	03-14-20
Washington	State	C581	05-05-20
Washington	State Program	C581	05-05-20
West Virginia (DW)	State	9930C	12-31-19
West Virginia (DW)	State Program	9930C	12-31-19
Wyoming	State Program	8TMS-L	01-28-19 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Sample Summary

Client: Leidos, Inc.
Job ID: 580-87377-1
Project/Site: 2019 Blakely Harbor Sediment Inv.

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
580-87377-1	BH2-06-S	Solid	07/01/19 09:50	07/03/19 08:15	
580-87377-2	BH2-09-S	Solid	07/01/19 10:40	07/03/19 08:15	
580-87377-3	BH2-08-S	Solid	07/01/19 11:03	07/03/19 08:15	
580-87377-4	BH2-28-S	Solid	07/01/19 13:35	07/03/19 08:15	
580-87377-5	BH2-27-S	Solid	07/01/19 13:53	07/03/19 08:15	
580-87377-6	BH2-23-S	Solid	07/01/19 14:08	07/03/19 08:15	
580-87377-7	BH2-19-S	Solid	07/01/19 14:34	07/03/19 08:15	
580-87377-8	BH2-20-S	Solid	07/01/19 14:45	07/03/19 08:15	
580-87377-9	BH2-21-S	Solid	07/01/19 15:02	07/03/19 08:15	
580-87377-10	BH2-22-S	Solid	07/01/19 15:14	07/03/19 08:15	
580-87377-11	BH2-18-S	Solid	07/01/19 15:27	07/03/19 08:15	
580-87377-12	BH2-18-D	Solid	07/01/19 15:27	07/03/19 08:15	
580-87377-13	BH2-17-S	Solid	07/01/19 15:44	07/03/19 08:15	
580-87377-14	BH2-14-S	Solid	07/01/19 15:57	07/03/19 08:15	
580-87377-15	BH2-07-S	Solid	07/01/19 16:40	07/03/19 08:15	
580-87377-16	BH2-03-S	Solid	07/01/19 16:46	07/03/19 08:15	
580-87377-17	BH2-02-S	Solid	07/01/19 17:10	07/03/19 08:15	
580-87377-18	BH2-01-S	Solid	07/01/19 17:27	07/03/19 08:15	
580-87377-19	BH2-05-S	Solid	07/01/19 17:41	07/03/19 08:15	
580-87377-20	BH2-04-S	Solid	07/01/19 17:54	07/03/19 08:15	
580-87377-21	BH2-04-D	Solid	07/01/19 17:54	07/03/19 08:15	
580-87377-22	BH2-04-T	Solid	07/01/19 17:54	07/03/19 08:15	
580-87377-23	BH2-10-S	Solid	07/01/19 18:12	07/03/19 08:15	
580-87377-24	BH2-11-S	Solid	07/01/19 18:24	07/03/19 08:15	
580-87377-25	BH2-13-S	Solid	07/01/19 18:41	07/03/19 08:15	
580-87377-26	BH2-15-S	Solid	07/01/19 18:54	07/03/19 08:15	
580-87377-27	BH2-12-S	Solid	07/02/19 10:23	07/03/19 08:15	
580-87377-28	BH2-40-S	Solid	07/02/19 12:05	07/03/19 08:15	
580-87377-29	BH2-39-S	Solid	07/02/19 12:18	07/03/19 08:15	
580-87377-30	BH2-38-S	Solid	07/02/19 12:30	07/03/19 08:15	
580-87377-31	BH2-37-S	Solid	07/02/19 12:42	07/03/19 08:15	
580-87377-32	BH2-36-S	Solid	07/02/19 12:54	07/03/19 08:15	
580-87377-33	BH2-35-S	Solid	07/02/19 13:08	07/03/19 08:15	
580-87377-34	BH2-34-S	Solid	07/02/19 13:22	07/03/19 08:15	
580-87377-35	BH2-33-S	Solid	07/02/19 13:41	07/03/19 08:15	
580-87377-36	BH2-32-S	Solid	07/02/19 13:57	07/03/19 08:15	
580-87377-37	BH2-31-S	Solid	07/02/19 14:15	07/03/19 08:15	
580-87377-38	BH2-30-S	Solid	07/02/19 14:29	07/03/19 08:15	
580-87377-39	BH2-29-S	Solid	07/02/19 14:41	07/03/19 08:15	
580-87377-40	BH2-26-S	Solid	07/02/19 14:56	07/03/19 08:15	
580-87377-41	BH2-25-S	Solid	07/02/19 15:11	07/03/19 08:15	
580-87377-42	BH2-25-D	Solid	07/02/19 15:11	07/03/19 08:15	
580-87377-43	BH2-25-T	Solid	07/02/19 15:11	07/03/19 08:15	
580-87377-44	BH2-24-5	Solid	07/02/19 15:25	07/03/19 08:15	
580-87377-45	BH2-16-S	Solid	07/02/19 15:43	07/03/19 08:15	
580-87377-46	BH2-15-ER	Water	07/01/19 19:15	07/03/19 08:15	
580-87377-47	BH2-16-ER	Water	07/02/19 16:02	07/03/19 08:15	
580-87377-48	BH2-16-RB	Water	07/02/19 16:02	07/03/19 08:15	
580-87377-49	PSRM0121	Solid	06/24/19 00:01	07/03/19 08:15	

Project Name:	2019 Blakely Harbor Sediment Investigation
Project Location:	Bainbridge Island, Washington
Client/Point of Contact:	John Evered, WA State Dept. of Ecology
Destination Lab:	Eurofins TestAmerica
Destination Contact:	Nate Lewis (253) 248-4975
Turn around Time:	Standard
Sample Originator:	Leidos/NewFields
Project Manager:	Tom Dubé/Tim Hammermeister
Originator Phone/Email:	(425) 482-3325 / thomas.e.dube@leidos.com
Sample Collectors:	NewFields

Analyses / Tests

580-87377 Chain of Custody

Number of Shipping Containers: 11

Invoice to: Leidos
Address:
18939 120th Ave NE
Suite 112
Bothell WA, 98011
thomas.e.dube@leidos.com

Project Number:
860.0195.000

Sample ID	Matrix	Date	Time	No. and Type of Containers	Grain size	Total solids, TVS	TOC, NH_3, metals, Hg	SVOCs, PCBs	Total sulfides	Dioxins/Furans						Jar #s Comments
BH2-06-S	Sediment	7/1/19	0950	4 glass	X		X	X		X						5037, 5039, 5040, 5042
BH2-09-S	↓	↓	1040	↓	X		X	X		X						5054, 5056, 5057, 5059
BH2-08-S			1103		X		X	X		X						5048, 5050, 5051, 5053
BH2-28-S			1335	3 glass	X		X	X								5153, 5155, 5156
BH2-27-S			1353		X		X	X								5148, 5150, 5151
BH2-23-S			1408		X		X	X								5128, 5130, 5131
BH2-19-S			1434		X		X	X								5107, 5109, 5110
BH2-20-S			1445		X		X	X								5112, 5114, 5115
BH2-21-S			1502	4 glass	X		X	X		X						5117, 5119, 5120, 5122
BH2-22-S			1514	3 glass	X		X	X								5123, 5125, 5126
BH2-18-S			1527	4 glass	X		X	X		X						5101, 5103, 5104, 5106
BH2-18-D			1527	1 glass						X						5231
BH2-17-S			1544	3 glass	X		X	X								5096, 5098, 5099
BH2-14-S			1557		X		X	X								5080, 5082, 5083
BH2-07-S	↓	↓	1640	↓	X		X	X								5043, 5045, 5046

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature:	Signature:	Signature:	Signature:
Date/Time: 7/3/19 0815	Date/Time: 7/3/19 0815	Date/Time:	Date/Time:
Affiliation: NewFields	Affiliation: TASEA	Affiliation:	Affiliation:

• Sample originator and destination laboratory each sign and retain one copy.

Project Name:	2019 Blakely Harbor Sediment Investigation
Project Location:	Bainbridge Island, Washington
Client/Point of Contact:	John Evered, WA State Dept. of Ecology
Destination Lab:	Eurofins TestAmerica
Destination Contact:	Nate Lewis (253) 248-4975
Turn around Time:	Standard
Sample Originator:	Leidos/NewFields
Project Manager:	Tom Dubé/Tim Hammermeister
Originator Phone/Email:	(425) 482-3325 / thomas.e.dube@leidos.com
Sample Collectors:	NewFields

Analyses / Tests

Number of Shipping Containers: 11

Invoice to: Leidos
Address:
18939 120th Ave NE
Suite 112
Bothell WA, 98011
thomas.e.dube@leidos.com

Project Number:
860.0195.000

Sample ID	Matrix	Date	Time	No. and Type of Containers	Grain size	Total solids, TVS	TOC, NH_3, metals, Hg	SVOCs, PCBs	Total sulfides	Dioxins/Furans	TOC, NH_3					Jar #s	Comments
BH2-03-S	Sediment	7/1/19	1656	4 glass	X		X	X		X						5021, 5023, 5024, 5026	
BH2-02-S			1710	7 glass	X		X	X								Extra jars for MS/MSD	
BH2-01-S			1727	3 glass	X		X	X								5011, 5013, 5014	
BH2-05-S			1741	3 glass	X		X	X								5032, 5034, 5035	
BH2-04-S			1754		X		X	X								5027, 5029, 5030	
BH2-04-D			1754		X		X	X								5221, 5223, 5224	
BH2-04-T			1754	2 glass	~~X~~		~~X~~	~~X~~	2		X					5232, 5234 ~~No metals or Hg~~	~~2~~ 2
BH2-10-S			1812	3 glass	X		X	X								5060, 5062, 5063	
BH2-11-S			1824	3 glass	X		X	X								5065, 5067, 5068	
BH2-13-S			1841		X		X	X								5075, 5077, 5078	
BH2-15-S			1854		X		X	X								5085, 5087, 5088	

5016
5018
5019
5261-5264

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature:	Signature:	Signature:	Signature:
Date/Time: 7/3/19 0815	Date/Time: 7-3-19 0815	Date/Time:	Date/Time:
Affiliation: NewFields	Affiliation: TASEA	Affiliation:	Affiliation:

• Sample originator and destination laboratory each sign and retain one copy.

Project Name:	2019 Blakely Harbor Sediment Investigation
Project Location:	Bainbridge Island, Washington
Client/Point of Contact:	John Evered, WA State Dept. of Ecology
Destination Lab:	Eurofins TestAmerica
Destination Contact:	Nate Lewis (253) 248-4975
Turn around Time:	Standard
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Originator Phone/Email:	(425) 482-3325 / thomas.e.dube@leidos.com
Sample Collectors:	NewFields

Analyses / Tests

Number of Shipping Containers: 11

Invoice to: Leidos
Address:
18939 120th Ave NE
Suite 112
Bothell WA, 98011
thomas.e.dube@leidos.com

Project Number:
860.0195.000

Sample ID	Matrix	Date	Time	No. and Type of Containers	Grain size	Total solids, TVS	TOC, NH3, metals, Hg	SVOCs, PCBs	Total sulfides	Dioxins/Furans	Jar #s Comments
BH2-12-S	Sediment	7/2/19	1023	5 glass	X	X	X	X	X		5070-5074
BH2-40-S	↓	↓	1205	↓	X	X	X	X	X		5216-5220
BH2-39-S			1218	6 glass	X	X	X	X	X	X	5210-5215
BH2-38-S			1230	5 glass	X	X	X	X	X		5205-5209
BH2-37-S			1242	6 glass	X	X	X	X	X	X	5199-5204
BH2-36-S			1254	5 glass	X	X	X	X	X		5194-5198
BH2-35-S			1308	↓	X	X	X	X	X		5189-5193
BH2-34-S			1322	11 glass	X	X	X	X	X		5184-5188, 5269-5270 ← MS/MSD
BH2-33-S			1341	5 glass	X	X	X	X	X		5179-5183
BH2-32-S			1357	↓	X	X	X	X	X		5174-5178
BH2-31-S			1415	6 glass	X	X	X	X	X	X	5168-5173
BH2-30-S			1429	5 glass	X	X	X	X	X		5163-5167
BH2-29-S			1441		X	X	X	X	X		5158-5162
BH2-26-S			1456		X	X	X	X	X		5143-5147
BH2-25-S	↓	↓	1511	↓	X	X	X	X	X		5138-5142

Extra Jars for

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature:	Signature:	Signature:	Signature:
Date/Time: 7/2/19 0815	Date/Time: 7/3/19 0815	Date/Time:	Date/Time:
Affiliation: NewFields	Affiliation: TASI	Affiliation:	Affiliation:

• Sample originator and destination laboratory each sign and retain one copy.

Project Name:	2019 Blakely Harbor Sediment Investigation
Project Location:	Bainbridge Island, Washington
Client/Point of Contact:	John Evered, WA State Dept. of Ecology
Destination Lab:	Eurofins TestAmerica
Destination Contact:	Nate Lewis (253) 248-4975
Turn around Time:	Standard
Sample Originator:	Leidos/NewFields
Project Manager:	Tom Dubé/Tim Hammermeister
Originator Phone/Email:	(425) 482-3325 / thomas.e.dube@leidos.com
Sample Collectors:	NewFields

Analyses / Tests

Sample ID	Matrix	Date	Time	No. and Type of Containers	Grain size	Total solids, TVS	TOC, NH_3, metals, Hg	SVOCs, PCBs	Total sulfides	Dioxins/Furans	TOC, NH_3	Mercury	Jar #s Comments
BH2-25-D	Sediment	7/2/19	1511	5 glass	X	X	X	X	X				5226-5230
BH2-25-T	↓	↓	1511	4 glass	X	X			X		X		5237-5240
BH2-24-S			1525	5 glass	X	X	X	X	X				5133-5137
BH2-16-S	↓	↓	1543	6 glass	X	X	X	X	X	X			5090-5095
BH2-15-ER	Water	7/1/19	1915	4 amber 2 plastic				X				X	5241-5246
BH2-16-ER	↓	7/2/19	1602	↓				X				X	5247-5252
BH2-16-RB	↓	↓	1602	↓				X				X	5253-5258

Number of Shipping Containers: 11

Invoice to: Leidos

Address:
18939 120th Ave NE
Suite 112
Bothell WA, 98011
thomas.e.dube@leidos.com

Project Number:
860.0195.000

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature:	Signature:	Signature:	Signature:
Date/Time: 7/3/19 0815	Date/Time: 07-03-19 0815	Date/Time:	Date/Time:
Affiliation: NewFields	Affiliation:	Affiliation:	Affiliation:

• Sample originator and destination laboratory each sign and retain one copy.

Therm. ID: IR4 Cor: 0.9 ° Unc: 1.2 °
Cooler Dsc: Lg Blue
Packing: Bub
Cust. Seal: Yes ✓ No ____
Blue Ice, Wet, Dry, None
FedEx: ____
UPS: ____
Lab Cour: ____
Other: CIOR

Therm. ID: IR4 Cor: 4.7c ° Unc: 5.0 c°
Cooler Dsc: Lg Blue
Packing: Bubble
Cust. Seal: Yes ✗ No ____
Blue Ice, Wet, Dry, None
FedEx: ____
UPS: ____
Lab Cour: ____
Other: ____

Therm. ID: IR4 Cor: 5.5 ° Unc: 5.8 °
Cooler Dsc: Lg Green
Packing: Bub
Cust. Seal: Yes ✓ No ____
Blue Ice, Wet, Dry, None
FedEx: ____
UPS: ____
Lab Cour: ____
Other: CIOR

Therm. ID: 4 Cor: 1.2 ° Unc: 1.5 °
Cooler Dsc: L B
Packing: Bub
Cust. Seal: Yes ✗ No ____
Blue Ice, Wet, Dry, None
FedEx: ____
UPS: ____
Lab Cour: ____
Other: ____

Therm. ID: IR4 Cor: 5.0 ° Unc: 5.3 °
Cooler Dsc: Lg Blue
Packing: Bub
Cust. Seal: Yes ✓ No ____
Blue Ice, Wet, Dry, None
FedEx: ____
UPS: ____
Lab Cour: ____
Other: CD

Therm. ID: IR4 Cor: 4.3 ° Unc: 4.6 °
Cooler Dsc: Lg Blue
Packing: Bubb
Cust. Seal: Yes ✓ No ____
Blue Ice, Wet, Dry, None
FedEx: ____
UPS: ____
Lab Cour: ____
Other: CD

Therm. ID: 4 Cor: 1.8 ° Unc: 2.1 °
Cooler Dsc: L G
Packing: Bub
Cust. Seal: Yes ✓ No ____
Blue Ice, Wet, Dry, None
FedEx: ____
UPS: ____
Lab Cour: ____
Other: CD

Therm. ID: IR4 Cor: 5.5 ° Unc: 5.8 °
Cooler Dsc: Lg Bl.
Packing: Bubb
Cust. Seal: Yes ✓ No ____
Blue Ice, Wet, Dry, None
FedEx: ____
UPS: ____
Lab Cour: ____
Other: CD

Therm. ID: A2 Cor: 0.9 ° Unc: 1.2 °
Cooler Dsc: L B
Packing: Bub
Cust. Seal: Yes ✗ No ____
Blue Ice, Wet, Dry, None
FedEx: ____
UPS: ____
Lab Cour: ____
Other: CD

Therm. ID: 4 Cor: 2.6 ° Unc: 2.9 °
Cooler Dsc: LB
Packing: Bub
Cust. Seal: Yes ✗ No ____
Blue Ice, Wet, Dry, None
FedEx: ____
UPS: ____
Lab Cour: ____
Other: CD

Therm. ID: 4 Cor: 1.6 ° Unc: 1.9 °
Cooler Dsc: LB
Packing: Bub
Cust. Seal: Yes ✓ No ____
Blue Ice, Wet, Dry, None
FedEx: ____
UPS: ____
Lab Cour: ____
Other: CD

Eurofins TestAmerica, Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310 Fax: 253-922-5047

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Lewis, Nathan A	Carrier Tracking No(s):	COC No: 580-67666.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: nathan.lewis@testamericainc.com	State of Origin: Washington	Page: Page 1 of 3
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note):		Job #: 580-87377-1
Address: 4955 Yarrow Street, ,	Due Date Requested: 7/22/2019			
City: Arvada	TAT Requested (days):			
State, Zip: CO, 80002				
Phone: 303-736-0100(Tel) 303-431-7171(Fax)	PO #:			
Email:	WO #:			
Project Name: 2019 Blakely Harbor Sediment Inv.	Project #: 58013868			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM2540B	160.4_VS	9034/9030B	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
BH2-12-S (580-87377-27)	7/2/19	10:23 Pacific		Solid			X	X	X	2	Batch client samples together into 2 batches, even if >20., Total Sulfide by PSEP
BH2-40-S (580-87377-28)	7/2/19	12:05 Pacific		Solid			X	X	X	2	Batch client samples together into 2 batches, even if >20., Total Sulfide by PSEP
BH2-39-S (580-87377-29)	7/2/19	12:18 Pacific		Solid			X	X	X	2	Batch client samples together into 2 batches, even if >20., Total Sulfide by PSEP
BH2-38-S (580-87377-30)	7/2/19	12:30 Pacific		Solid			X	X	X	2	Batch client samples together into 2 batches, even if >20., Total Sulfide by PSEP
BH2-37-S (580-87377-31)	7/2/19	12:42 Pacific		Solid			X	X	X	2	Batch client samples together into 2 batches, even if >20., Total Sulfide by PSEP
BH2-36-S (580-87377-32)	7/2/19	12:54 Pacific		Solid			X	X	X	2	Batch client samples together into 2 batches, even if >20., Total Sulfide by PSEP
BH2-35-S (580-87377-33)	7/2/19	13:08 Pacific		Solid			X	X	X	2	Batch client samples together into 2 batches, even if >20., Total Sulfide by PSEP
BH2-34-S (580-87377-34)	7/2/19	13:22 Pacific		Solid			X	X	X	1	Batch client samples together into 2 batches, even if >20., Total Sulfide by PSEP
BH2-34-S (580-87377-34MS)	7/2/19	13:22 Pacific	MS	Solid			X	X	X	1	Batch client samples together into 2 batches, even if >20., Total Sulfide by PSEP

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 4	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Tom Blanton	7/5/19	TA-Sea		7-6-19 0845	TAOEN
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.6, 1.9 IR8	7-6-19

Ver: 01/16/2019

Eurofins TestAmerica, Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310 Fax: 253-922-5047

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Lewis, Nathan A	Carrier Tracking No(s):	COC No: 580-67666.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: nathan.lewis@testamericainc.com	State of Origin: Washington	Page: Page 2 of 3
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note):		Job #: 580-87377-1
Address: 4955 Yarrow Street,	Due Date Requested: 7/22/2019			
City: Arvada	TAT Requested (days):			
State, Zip: CO, 80002				
Phone: 303-736-0100(Tel) 303-431-7171(Fax)	PO #:			
Email:	WO #:			
Project Name: 2019 Blakely Harbor Sediment Inv.	Project #: 58013868			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM2540B	160.4_VS	9034/9030B	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
BH2-34-S (580-87377-34MSD)	7/2/19	13:22 Pacific	MSD	Solid			X	X	X	2	Batch client samples together into 2 batches, even if >20., Total Sulfide by PSEP
BH2-33-S (580-87377-35)	7/2/19	13:41 Pacific		Solid			X	X	X	2	Batch client samples together into 2 batches, even if >20., Total Sulfide by PSEP
BH2-32-S (580-87377-36)	7/2/19	13:57 Pacific		Solid			X	X	X	2	Batch client samples together into 2 batches, even if >20., Total Sulfide by PSEP
BH2-31-S (580-87377-37)	7/2/19	14:15 Pacific		Solid			X	X	X	2	Batch client samples together into 2 batches, even if >20., Total Sulfide by PSEP
BH2-30-S (580-87377-38)	7/2/19	14:29 Pacific		Solid			X	X	X	2	Batch client samples together into 2 batches, even if >20., Total Sulfide by PSEP
BH2-29-S (580-87377-39)	7/2/19	14:41 Pacific		Solid			X	X	X	2	Batch client samples together into 2 batches, even if >20., Total Sulfide by PSEP
BH2-26-S (580-87377-40)	7/2/19	14:56 Pacific		Solid			X	X	X	2	Batch client samples together into 2 batches, even if >20., Total Sulfide by PSEP
BH2-25-S (580-87377-41)	7/2/19	15:11 Pacific		Solid			X	X	X	2	Batch client samples together into 2 batches, even if >20., Total Sulfide by PSEP
BH2-25-D (580-87377-42)	7/2/19	15:11 Pacific		Solid			X	X	X	2	Batch client samples together into 2 batches, even if >20., Total Sulfide by PSEP

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 4	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Tom Blankenship	7/3/19	T1		7-6-19 0845	TTHOEN
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Eurofins TestAmerica, Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310 Fax: 253-922-5047

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Lewis, Nathan A	Carrier Tracking No(s):	COC No: 580-67666.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: nathan.lewis@testamericainc.com	State of Origin: Washington	Page: Page 3 of 3
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note):		Job #: 580-87377-1
Address: 4955 Yarrow Street,	Due Date Requested: 7/22/2019			
City: Arvada	TAT Requested (days):			
State, Zip: CO, 80002				
Phone: 303-736-0100(Tel) 303-431-7171(Fax)	PO #:			
Email:	WO #:			
Project Name: 2019 Blakely Harbor Sediment Inv.	Project #: 58013868			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM2540B	160.4_VS	9034/9030B	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
BH2-25-T (580-87377-43)	7/2/19	15:11 Pacific		Solid			X	X	X	2	Batch client samples together into 2 batches, even if >20., Total Sulfide by PSEP
BH2-24-5 (580-87377-44)	7/2/19	15:25 Pacific		Solid			X	X	X	2	Batch client samples together into 2 batches, even if >20., Total Sulfide by PSEP
BH2-16-S (580-87377-45)	7/2/19	15:43 Pacific		Solid			X	X	X	2	Batch client samples together into 2 batches, even if >20., Total Sulfide by PSEP

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 4	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Tom Blankenship	7/5/19			7-6-19 0845	TTHOEN
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Eurofins TestAmerica, Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310 Fax: 253-922-5047

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Lewis, Nathan A	Carrier Tracking No(s):	COC No: 580-67672.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: nathan.lewis@testamericainc.com	State of Origin: Washington	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note):		Job #: 580-87377-1
Address: 880 Riverside Parkway,	Due Date Requested: 7/22/2019			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: 2019 Blakely Harbor Sediment Inv.	Project #: 58013868			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, ~~I - Ice~~, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, ~~U - Acetone~~, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1613B/HRMS_Sox_P Full List w/o Totals	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
BH2-06-S (580-87377-1)	7/1/19	09:50 Pacific		Solid			X	1	Analyze with Puget Sound SRM, batch all samples received together
BH2-09-S (580-87377-2)	7/1/19	10:40 Pacific		Solid			X	1	Analyze with Puget Sound SRM, batch all samples received together
BH2-08-S (580-87377-3)	7/1/19	11:03 Pacific		Solid			X	1	Analyze with Puget Sound SRM, batch all samples received together
BH2-21-S (580-87377-9)	7/1/19	15:02 Pacific		Solid			X	1	Analyze with Puget Sound SRM, batch all samples received together
BH2-18-S (580-87377-11)	7/1/19	15:27 Pacific		Solid			X	1	Analyze with Puget Sound SRM, batch all samples received together
BH2-18-D (580-87377-12)	7/1/19	15:27 Pacific		Solid			X	1	Analyze with Puget Sound SRM, batch all samples received together
BH2-03-S (580-87377-16)	7/1/19	16:46 Pacific		Solid			X	1	Analyze with Puget Sound SRM, batch all samples received together
BH2-39-S (580-87377-29)	7/2/19	12:18 Pacific		Solid			X	1	Analyze with Puget Sound SRM, batch all samples received together
BH2-37-S (580-87377-31)	7/2/19	12:42 Pacific		Solid			X	1	Analyze with Puget Sound SRM, batch all samples received together

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification Unconfirmed	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)* ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ______ Months
Deliverable Requested: I, II, III, IV, Other (specify) — Primary Deliverable Rank: 4	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 7/6/19 930	Company: ETPSCC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 1.2°C		

Ver: 01/16/2019

Eurofins TestAmerica, Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310 Fax: 253-922-5047

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Lewis, Nathan A	Carrier Tracking No(s):	COC No: 580-67672.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: nathan.lewis@testamericainc.com	State of Origin: Washington	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note):		Job #: 580-87377-1
Address: 880 Riverside Parkway, ,	Due Date Requested: 7/22/2019	**Analysis Requested**		**Preservation Codes:**
City: West Sacramento	TAT Requested (days):			A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: 2019 Blakely Harbor Sediment Inv.	Project #: 58013868			
Site:	SSOW#:			Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1613B/HRMS_Sox_P Full List w/o Totals	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
BH2-31-S (580-87377-37)	7/2/19	14:15 Pacific		Solid			X	1	Analyze with Puget Sound SRM, batch all samples received together
BH2-16-S (580-87377-45)	7/2/19	15:43 Pacific		Solid			X	1	Analyze with Puget Sound SRM, batch all samples received together

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification Unconfirmed	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)* ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ______ Months
Deliverable Requested: I, II, III, IV, Other (specify) — Primary Deliverable Rank: 4	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time:	Company	Received by: Sahlle Oryza	Date/Time: 7/6/19 930	Company: E+D Sac
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 1.2°C		

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Leidos, Inc.

Job Number: 580-87377-1

Login Number: 87377
List Number: 1
Creator: Vallelunga, Diana L

List Source: Eurofins TestAmerica, Seattle

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

Login Sample Receipt Checklist

Client: Leidos, Inc.

Job Number: 580-87377-1

Login Number: 87377
List Number: 2
Creator: Paul, Ryan D

List Source: Eurofins TestAmerica, Denver
List Creation: 07/06/19 01:06 PM

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

Login Sample Receipt Checklist

Client: Leidos, Inc.

Job Number: 580-87377-1

Login Number: 87377
List Number: 3
Creator: Thompson, Sarah W

List Source: Eurofins TestAmerica, Sacramento
List Creation: 07/06/19 04:12 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	496999
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.2c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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Sacramento Sample Receiving Notes

580-87377 Field Sheet

Tracking # : 1065 6703 1302

Job: _____

SO / PO / FO / SAT / 2-Day / Ground / UPS / CDO / Courier

GSO / OnTrac / Goldstreak / USPS / Other _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations. File in the job folder with the COC.

Notes: _____

Therm. ID: IR Stem Corr. Factor: NO

Ice ✓ Wet ✓ Gel _____ Other _____

Cooler Custody Seal: 496999

Sample Custody Seal: —

Cooler ID: —

Temp Observed: 1.2°C Corrected: 1.2°C

From: Temp Blank ☐ Sample ☐

NCM Filed: Yes ☐ No ☐

	Yes	No	NA
Perchlorate has headspace? (Methods 314, 331, 6850)	☐	☐	☑
Alkalinity has no headspace?	☐	☐	☑
CoC is complete w/o discrepancies?	☑	☐	☐
Samples received within holding time?	☑	☐	☐
Sample preservatives verified?	☐	☐	☑
Cooler compromised/tampered with?	☐	☑	☐
Samples compromised/tampered with?	☐	☑	☐
Samples w/o discrepancies?	☑	☐	☐
Sample containers have legible labels?	☑	☐	☐
Containers are not broken or leaking?	☑	☐	☐
Sample date/times are provided.	☑	☐	☐
Appropriate containers are used?	☑	☐	☐
Sample bottles are completely filled?	☑	☐	☐
Zero headspace?*	☐	☐	☑
Multiphasic samples are not present?	☑	☐	☐
Sample temp OK?	☑	☐	☐
Sample out of temp?	☐	☑	☐

Initials: SO Date: 7/16/19

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

WRA