

ANALYTICAL REPORT

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Laboratory Job ID: 630-32239-1

Client Project/Site: South Jersey Port Corp, Camden NJ

For:

ST Hudson Engineers, Inc.
900 Dudley Avenue
Cherry Hill, New Jersey 08002

Attn: Paul Ferry



Authorized for release by:
6/22/2022 2:58:26 PM

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



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	5
Detection Summary	7
Client Sample Results	10
Surrogate Summary	23
QC Sample Results	24
QC Association Summary	34
Lab Chronicle	37
Certification Summary	39
Method Summary	40
Sample Summary	41
Chain of Custody	42
Receipt Checklists	47

Definitions/Glossary

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden NJ

Job ID: 630-32239-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)

Definitions/Glossary

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden NJ

Job ID: 630-32239-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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Case Narrative

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden NJ

Job ID: 630-32239-1

Job ID: 630-32239-1

Laboratory: Eurofins Environment Testing Philadelphia, LLC

Narrative

Job Narrative 630-32239-1

Receipt

The samples were received on 4/28/2022 6:50 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C

GC/MS Semi VOA

Method 8270E_LL: The following sample was diluted due to the nature of the sample matrix: SC-3 COMPOSITE (C5 + C6) (630-32239-3). Elevated reporting limits (RLs) are provided.

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

PCBs

Method 8082A_LL: Surrogate recovery for the following sample was outside control limits: SC-3 COMPOSITE (C5 + C6) (630-32239-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

Pesticides

Method 8081B_LL: The following sample was diluted due to the nature of the sample matrix: SC-3 COMPOSITE (C5 + C6) (630-32239-3) at 5x. Elevated reporting limits (RLs) are provided.

Method 8081B_LL: The DCB Decachlorobiphenyl (Surr) surrogate recovery for the following samples was outside acceptance limits (high biased) on the confirmation column due to matrix interference: SC-3 COMPOSITE (C5 + C6) (630-32239-3). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control.

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

Metals

Method 6020B: The continuing calibration blank (CCB) associated with batch 180-399861 recovered above the upper control limit for aluminum. The samples associated with this CCB were 10X the CCB concentration for the affected analytes; therefore, the data have been reported. The associated samples are impacted: (CCB 180-399861/196) and (LCS 180-399173/2-A).

Method 6020B: The continuing calibration blank (CCB) associated with batch 180-399861 recovered above the upper control limit for aluminum,iron and manganese>. The samples associated with this CCB were 10X the CCB concentration for the affected analytes; therefore, the data have been reported. The associated samples are impacted: SC-3 COMPOSITE (C5 + C6) (630-32239-3), (CCB 180-399861/207), (630-32238-B-9-J), (630-32238-B-9-K MS), (630-32238-B-9-L MSD), (630-32238-B-9-J PDS) and (630-32238-B-9-J SD ^5).

Method 6020B: The continuing calibration blank (CCB) associated with batch 180-399861 recovered above the upper control limit for aluminum. The samples associated with this CCB were batch QC for the affected analytes; therefore, the data have been reported. The associated samples are impacted: (CCB 180-399861/223) and (MB 180-399173/1-A).

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

General Chemistry

Method 7196A: The following sample was diluted due to the nature of the sample matrix: SC-3 COMPOSITE (C5 + C6) (630-32239-3). Elevated reporting limits (RLs) are provided.

Method 9014: The following sample was assumed to contain Sulfide due to sample matrix: SC-3 COMPOSITE (C5 + C6) (630-32239-3). The sulfide was treated and removed prior to distillation with 200 uL of bismuth nitrate solution.

Case Narrative

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden NJ

Job ID: 630-32239-1

Job ID: 630-32239-1 (Continued)

Laboratory: Eurofins Environment Testing Philadelphia, LLC (Continued)

Method Lloyd_Kahn_Mod: Please note that the reporting limit for Lloyd Kahn TOC analysis is a nominal value and does not reflect adjustments in sample mass processed on an individual basis. C-5 GRAB (630-32239-1), C-6 GRAB (630-32239-2), (180-137449-A-6), (180-137449-A-6 MS) and (180-137449-A-6 MSD)

Method Lloyd_Kahn_Mod: Please note that the reporting limit for Lloyd Kahn TOC analysis is a nominal value and does not reflect adjustments in sample mass processed on an individual basis. SC-3 COMPOSITE (C5 + C6) (630-32239-3), (180-137539-A-18), (180-137539-A-18 MS) and (180-137539-A-18 MSD)

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

Geotechnical

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

Detection Summary

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden NJ

Job ID: 630-32239-1

Client Sample ID: C-5 GRAB

Lab Sample ID: 630-32239-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon - Duplicates	49000		2300	2300	mg/Kg	1	☆	EPA-Lloyd Kahn	Total/NA
Moisture Content	141.8				%	1		D2216-90	Total/NA
Gravel	0.3				%	1		D422	Total/NA
Sieve Size 3 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Sand	10.0				%	1		D422	Total/NA
Sieve Size 2 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Coarse Sand	1.1				%	1		D422	Total/NA
Sieve Size 1.5 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Medium Sand	0.5				%	1		D422	Total/NA
Sieve Size 1 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Fine Sand	8.4				%	1		D422	Total/NA
Sieve Size 0.75 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Sieve Size 0.375 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Silt	62.5				%	1		D422	Total/NA
Clay	27.2				%	1		D422	Total/NA
Sieve Size #4 - Percent Finer	99.7				% Passing	1		D422	Total/NA
Sieve Size #10 - Percent Finer	98.6				% Passing	1		D422	Total/NA
Sieve Size #20 - Percent Finer	98.4				% Passing	1		D422	Total/NA
Sieve Size #40 - Percent Finer	98.1				% Passing	1		D422	Total/NA
Sieve Size #60 - Percent Finer	97.5				% Passing	1		D422	Total/NA
Sieve Size #80 - Percent Finer	96.9				% Passing	1		D422	Total/NA
Sieve Size #100 - Percent Finer	96.0				% Passing	1		D422	Total/NA
Sieve Size #200 - Percent Finer	89.7				% Passing	1		D422	Total/NA
Hydrometer Reading 1 - Percent Finer	63.5				% Passing	1		D422	Total/NA
Hydrometer Reading 2 - Percent Finer	52.9				% Passing	1		D422	Total/NA
Hydrometer Reading 3 - Percent Finer	40.8				% Passing	1		D422	Total/NA
Hydrometer Reading 4 - Percent Finer	33.3				% Passing	1		D422	Total/NA
Hydrometer Reading 5 - Percent Finer	27.2				% Passing	1		D422	Total/NA
Hydrometer Reading 6 - Percent Finer	17.9				% Passing	1		D422	Total/NA
Hydrometer Reading 7 - Percent Finer	13.4				% Passing	1		D422	Total/NA

Client Sample ID: C-6 GRAB

Lab Sample ID: 630-32239-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon - Duplicates	47000		2100	2100	mg/Kg	1	☆	EPA-Lloyd Kahn	Total/NA
Moisture Content	132.7				%	1		D2216-90	Total/NA
Gravel	0.2				%	1		D422	Total/NA
Sieve Size 3 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Sand	20.5				%	1		D422	Total/NA
Sieve Size 2 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Coarse Sand	1.7				%	1		D422	Total/NA
Sieve Size 1.5 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Medium Sand	1.9				%	1		D422	Total/NA
Sieve Size 1 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Fine Sand	16.9				%	1		D422	Total/NA
Sieve Size 0.75 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Sieve Size 0.375 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Silt	56.9				%	1		D422	Total/NA
Clay	22.4				%	1		D422	Total/NA
Sieve Size #4 - Percent Finer	99.8				% Passing	1		D422	Total/NA
Sieve Size #10 - Percent Finer	98.1				% Passing	1		D422	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Environment Testing Philadelphia, LLC

Detection Summary

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden NJ

Job ID: 630-32239-1

Client Sample ID: C-6 GRAB (Continued)

Lab Sample ID: 630-32239-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sieve Size #20 - Percent Finer	97.5				% Passing	1		D422	Total/NA
Sieve Size #40 - Percent Finer	96.2				% Passing	1		D422	Total/NA
Sieve Size #60 - Percent Finer	91.9				% Passing	1		D422	Total/NA
Sieve Size #80 - Percent Finer	88.4				% Passing	1		D422	Total/NA
Sieve Size #100 - Percent Finer	87.0				% Passing	1		D422	Total/NA
Sieve Size #200 - Percent Finer	79.3				% Passing	1		D422	Total/NA
Hydrometer Reading 1 - Percent Finer	60.7				% Passing	1		D422	Total/NA
Hydrometer Reading 2 - Percent Finer	48.8				% Passing	1		D422	Total/NA
Hydrometer Reading 3 - Percent Finer	43.5				% Passing	1		D422	Total/NA
Hydrometer Reading 4 - Percent Finer	27.7				% Passing	1		D422	Total/NA
Hydrometer Reading 5 - Percent Finer	22.4				% Passing	1		D422	Total/NA
Hydrometer Reading 6 - Percent Finer	14.3				% Passing	1		D422	Total/NA
Hydrometer Reading 7 - Percent Finer	10.3				% Passing	1		D422	Total/NA

Client Sample ID: SC-3 COMPOSITE (C5 + C6)

Lab Sample ID: 630-32239-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.025	J	0.041	0.0097	mg/Kg	5	✱	EPA 8270E LL	Total/NA
Acenaphthene	0.026	J	0.041	0.012	mg/Kg	5	✱	EPA 8270E LL	Total/NA
Acenaphthylene	0.044		0.041	0.0088	mg/Kg	5	✱	EPA 8270E LL	Total/NA
Anthracene	0.064		0.041	0.010	mg/Kg	5	✱	EPA 8270E LL	Total/NA
Benzo[a]anthracene	0.19		0.041	0.018	mg/Kg	5	✱	EPA 8270E LL	Total/NA
Benzo[b]fluoranthene	0.26		0.041	0.0099	mg/Kg	5	✱	EPA 8270E LL	Total/NA
Benzo[k]fluoranthene	0.082		0.041	0.012	mg/Kg	5	✱	EPA 8270E LL	Total/NA
Benzo[g,h,i]perylene	0.17		0.041	0.0087	mg/Kg	5	✱	EPA 8270E LL	Total/NA
Benzo[a]pyrene	0.20		0.041	0.018	mg/Kg	5	✱	EPA 8270E LL	Total/NA
Bis(2-ethylhexyl) phthalate	0.25	J	2.0	0.22	mg/Kg	5	✱	EPA 8270E LL	Total/NA
Carbazole	0.018	J	0.041	0.0095	mg/Kg	5	✱	EPA 8270E LL	Total/NA
Chrysene	0.22		0.041	0.022	mg/Kg	5	✱	EPA 8270E LL	Total/NA
Dibenz(a,h)anthracene	0.042		0.041	0.026	mg/Kg	5	✱	EPA 8270E LL	Total/NA
Fluoranthene	0.38		0.041	0.011	mg/Kg	5	✱	EPA 8270E LL	Total/NA
Fluorene	0.030	J	0.041	0.0079	mg/Kg	5	✱	EPA 8270E LL	Total/NA
Indeno[1,2,3-cd]pyrene	0.15		0.041	0.020	mg/Kg	5	✱	EPA 8270E LL	Total/NA
Naphthalene	0.048		0.041	0.0079	mg/Kg	5	✱	EPA 8270E LL	Total/NA
Phenanthrene	0.15		0.041	0.011	mg/Kg	5	✱	EPA 8270E LL	Total/NA
Pyrene	0.33		0.041	0.0096	mg/Kg	5	✱	EPA 8270E LL	Total/NA
Aldrin (1C)	0.00019	J p	0.00050	0.00016	mg/Kg	5	✱	EPA 8081B LL	Total/NA
cis-Chlordane (2C)	0.00091	p	0.00050	0.00013	mg/Kg	5	✱	EPA 8081B LL	Total/NA
4,4'-DDD (1C)	0.0054		0.00050	0.00011	mg/Kg	5	✱	EPA 8081B LL	Total/NA
4,4'-DDE (1C)	0.011		0.00050	0.00010	mg/Kg	5	✱	EPA 8081B LL	Total/NA
Heptachlor epoxide (2C)	0.00025	J p	0.00050	0.00013	mg/Kg	5	✱	EPA 8081B LL	Total/NA
PCB-1248 (1C)	0.030		0.0010	0.00024	mg/Kg	1	✱	EPA 8082A	Total/NA
PCB-1260 (2C)	0.044		0.0010	0.00029	mg/Kg	1	✱	EPA 8082A	Total/NA
Aluminum	11000	^2	7.2	5.1	mg/Kg	1	✱	EPA 6020B	Total/NA
Arsenic	8.1		0.12	0.069	mg/Kg	1	✱	EPA 6020B	Total/NA
Barium	150		1.2	0.73	mg/Kg	1	✱	EPA 6020B	Total/NA
Antimony	0.56		0.24	0.13	mg/Kg	1	✱	EPA 6020B	Total/NA
Beryllium	1.2		0.12	0.086	mg/Kg	1	✱	EPA 6020B	Total/NA
Cadmium	1.6		0.12	0.067	mg/Kg	1	✱	EPA 6020B	Total/NA
Calcium	3700		60	24	mg/Kg	1	✱	EPA 6020B	Total/NA
Chromium	31		0.24	0.21	mg/Kg	1	✱	EPA 6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Environment Testing Philadelphia, LLC

Detection Summary

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden NJ

Job ID: 630-32239-1

Client Sample ID: SC-3 COMPOSITE (C5 + C6) (Continued)

Lab Sample ID: 630-32239-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Cobalt	15		0.060	0.043	mg/Kg	1		✱	EPA 6020B	Total/NA
Copper	40		0.36	0.25	mg/Kg	1		✱	EPA 6020B	Total/NA
Magnesium	3700		60	5.4	mg/Kg	1		✱	EPA 6020B	Total/NA
Manganese	1700	^2	0.60	0.51	mg/Kg	1		✱	EPA 6020B	Total/NA
Iron	26000	^2	6.0	5.7	mg/Kg	1		✱	EPA 6020B	Total/NA
Lead	55		0.12	0.079	mg/Kg	1		✱	EPA 6020B	Total/NA
Potassium	1300		60	17	mg/Kg	1		✱	EPA 6020B	Total/NA
Nickel	24		0.12	0.11	mg/Kg	1		✱	EPA 6020B	Total/NA
Selenium	1.1		0.60	0.15	mg/Kg	1		✱	EPA 6020B	Total/NA
Sodium	130		60	31	mg/Kg	1		✱	EPA 6020B	Total/NA
Silver	0.31		0.12	0.033	mg/Kg	1		✱	EPA 6020B	Total/NA
Thallium	0.15		0.12	0.083	mg/Kg	1		✱	EPA 6020B	Total/NA
Vanadium	26		0.12	0.11	mg/Kg	1		✱	EPA 6020B	Total/NA
Zinc	270		0.60	0.57	mg/Kg	1		✱	EPA 6020B	Total/NA
Mercury	0.20		0.034	0.022	mg/Kg	1		✱	EPA 7471B	Total/NA
Cr (III)	31		0.50	0.21	mg/Kg	1			7196A	Total/NA
Cyanide, Total	5.2		0.44	0.34	mg/Kg	1		✱	EPA 9014	Total/NA
Total Organic Carbon - Duplicates	54000		2400	2400	mg/Kg	1		✱	EPA-Lloyd Kahn	Total/NA
Moisture Content	137.2				%	1			D2216-90	Total/NA
Gravel	0.2				%	1			D422	Total/NA
Sieve Size 3 inch - Percent Finer	100.0				% Passing	1			D422	Total/NA
Sand	16.0				%	1			D422	Total/NA
Sieve Size 2 inch - Percent Finer	100.0				% Passing	1			D422	Total/NA
Coarse Sand	1.2				%	1			D422	Total/NA
Sieve Size 1.5 inch - Percent Finer	100.0				% Passing	1			D422	Total/NA
Medium Sand	1.0				%	1			D422	Total/NA
Sieve Size 1 inch - Percent Finer	100.0				% Passing	1			D422	Total/NA
Fine Sand	13.8				%	1			D422	Total/NA
Sieve Size 0.75 inch - Percent Finer	100.0				% Passing	1			D422	Total/NA
Sieve Size 0.375 inch - Percent Finer	100.0				% Passing	1			D422	Total/NA
Silt	60.8				%	1			D422	Total/NA
Clay	23.0				%	1			D422	Total/NA
Sieve Size #4 - Percent Finer	99.8				% Passing	1			D422	Total/NA
Sieve Size #10 - Percent Finer	98.6				% Passing	1			D422	Total/NA
Sieve Size #20 - Percent Finer	98.4				% Passing	1			D422	Total/NA
Sieve Size #40 - Percent Finer	97.6				% Passing	1			D422	Total/NA
Sieve Size #60 - Percent Finer	94.9				% Passing	1			D422	Total/NA
Sieve Size #80 - Percent Finer	93.0				% Passing	1			D422	Total/NA
Sieve Size #100 - Percent Finer	91.0				% Passing	1			D422	Total/NA
Sieve Size #200 - Percent Finer	83.8				% Passing	1			D422	Total/NA
Hydrometer Reading 1 - Percent Finer	58.8				% Passing	1			D422	Total/NA
Hydrometer Reading 2 - Percent Finer	48.4				% Passing	1			D422	Total/NA
Hydrometer Reading 3 - Percent Finer	38.0				% Passing	1			D422	Total/NA
Hydrometer Reading 4 - Percent Finer	31.4				% Passing	1			D422	Total/NA
Hydrometer Reading 5 - Percent Finer	23.0				% Passing	1			D422	Total/NA
Hydrometer Reading 6 - Percent Finer	14.4				% Passing	1			D422	Total/NA
Hydrometer Reading 7 - Percent Finer	10.1				% Passing	1			D422	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Environment Testing Philadelphia, LLC

Client Sample Results

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden NJ

Job ID: 630-32239-1

Client Sample ID: C-5 GRAB

Lab Sample ID: 630-32239-1

Date Collected: 04/27/22 09:32

Matrix: Sediment

Date Received: 04/28/22 06:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	57.0		0.1	0.1	%			05/10/22 06:22	1
Percent Solids	43.0		0.1	0.1	%			05/10/22 06:22	1

Method: D2216-90 - Water (Moisture) Content

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Moisture Content	141.8				%			06/14/22 21:52	1

Method: D422 - Grain Size

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gravel	0.3				%			06/14/22 12:00	1
Sieve Size 3 inch - Percent Finer	100.0				% Passing			06/14/22 12:00	1
Sand	10.0				%			06/14/22 12:00	1
Sieve Size 2 inch - Percent Finer	100.0				% Passing			06/14/22 12:00	1
Coarse Sand	1.1				%			06/14/22 12:00	1
Sieve Size 1.5 inch - Percent Finer	100.0				% Passing			06/14/22 12:00	1
Medium Sand	0.5				%			06/14/22 12:00	1
Sieve Size 1 inch - Percent Finer	100.0				% Passing			06/14/22 12:00	1
Fine Sand	8.4				%			06/14/22 12:00	1
Sieve Size 0.75 inch - Percent Finer	100.0				% Passing			06/14/22 12:00	1
Sieve Size 0.375 inch - Percent Finer	100.0				% Passing			06/14/22 12:00	1
Silt	62.5				%			06/14/22 12:00	1
Clay	27.2				%			06/14/22 12:00	1
Sieve Size #4 - Percent Finer	99.7				% Passing			06/14/22 12:00	1
Sieve Size #10 - Percent Finer	98.6				% Passing			06/14/22 12:00	1
Sieve Size #20 - Percent Finer	98.4				% Passing			06/14/22 12:00	1
Sieve Size #40 - Percent Finer	98.1				% Passing			06/14/22 12:00	1
Sieve Size #60 - Percent Finer	97.5				% Passing			06/14/22 12:00	1
Sieve Size #80 - Percent Finer	96.9				% Passing			06/14/22 12:00	1
Sieve Size #100 - Percent Finer	96.0				% Passing			06/14/22 12:00	1
Sieve Size #200 - Percent Finer	89.7				% Passing			06/14/22 12:00	1
Hydrometer Reading 1 - Percent Finer	63.5				% Passing			06/14/22 12:00	1
Hydrometer Reading 2 - Percent Finer	52.9				% Passing			06/14/22 12:00	1
Hydrometer Reading 3 - Percent Finer	40.8				% Passing			06/14/22 12:00	1
Hydrometer Reading 4 - Percent Finer	33.3				% Passing			06/14/22 12:00	1
Hydrometer Reading 5 - Percent Finer	27.2				% Passing			06/14/22 12:00	1
Hydrometer Reading 6 - Percent Finer	17.9				% Passing			06/14/22 12:00	1
Hydrometer Reading 7 - Percent Finer	13.4				% Passing			06/14/22 12:00	1

Client Sample Results

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden NJ

Job ID: 630-32239-1

Client Sample ID: C-5 GRAB

Lab Sample ID: 630-32239-1

Date Collected: 04/27/22 09:32

Matrix: Sediment

Date Received: 04/28/22 06:50

Percent Solids: 43.0

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	49000		2300	2300	mg/Kg	☆		05/04/22 10:57	1

Client Sample ID: C-6 GRAB

Lab Sample ID: 630-32239-2

Date Collected: 04/27/22 10:06

Matrix: Sediment

Date Received: 04/28/22 06:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	53.2		0.1	0.1	%			05/10/22 06:22	1
Percent Solids	46.8		0.1	0.1	%			05/10/22 06:22	1

Method: D2216-90 - Water (Moisture) Content

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Moisture Content	132.7				%			06/14/22 21:52	1

Method: D422 - Grain Size

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gravel	0.2				%			06/14/22 21:56	1
Sieve Size 3 inch - Percent Finer	100.0				% Passing			06/14/22 21:56	1
Sand	20.5				%			06/14/22 21:56	1
Sieve Size 2 inch - Percent Finer	100.0				% Passing			06/14/22 21:56	1
Coarse Sand	1.7				%			06/14/22 21:56	1
Sieve Size 1.5 inch - Percent Finer	100.0				% Passing			06/14/22 21:56	1
Medium Sand	1.9				%			06/14/22 21:56	1
Sieve Size 1 inch - Percent Finer	100.0				% Passing			06/14/22 21:56	1
Fine Sand	16.9				%			06/14/22 21:56	1
Sieve Size 0.75 inch - Percent Finer	100.0				% Passing			06/14/22 21:56	1
Sieve Size 0.375 inch - Percent Finer	100.0				% Passing			06/14/22 21:56	1
Silt	56.9				%			06/14/22 21:56	1
Clay	22.4				%			06/14/22 21:56	1
Sieve Size #4 - Percent Finer	99.8				% Passing			06/14/22 21:56	1
Sieve Size #10 - Percent Finer	98.1				% Passing			06/14/22 21:56	1
Sieve Size #20 - Percent Finer	97.5				% Passing			06/14/22 21:56	1
Sieve Size #40 - Percent Finer	96.2				% Passing			06/14/22 21:56	1
Sieve Size #60 - Percent Finer	91.9				% Passing			06/14/22 21:56	1
Sieve Size #80 - Percent Finer	88.4				% Passing			06/14/22 21:56	1
Sieve Size #100 - Percent Finer	87.0				% Passing			06/14/22 21:56	1
Sieve Size #200 - Percent Finer	79.3				% Passing			06/14/22 21:56	1
Hydrometer Reading 1 - Percent Finer	60.7				% Passing			06/14/22 21:56	1
Hydrometer Reading 2 - Percent Finer	48.8				% Passing			06/14/22 21:56	1
Hydrometer Reading 3 - Percent Finer	43.5				% Passing			06/14/22 21:56	1
Hydrometer Reading 4 - Percent Finer	27.7				% Passing			06/14/22 21:56	1
Hydrometer Reading 5 - Percent Finer	22.4				% Passing			06/14/22 21:56	1
Hydrometer Reading 6 - Percent Finer	14.3				% Passing			06/14/22 21:56	1

Client Sample Results

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden NJ

Job ID: 630-32239-1

Client Sample ID: C-6 GRAB

Lab Sample ID: 630-32239-2

Date Collected: 04/27/22 10:06

Matrix: Sediment

Date Received: 04/28/22 06:50

Method: D422 - Grain Size (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hydrometer Reading 7 - Percent Finer	10.3				% Passing			06/14/22 21:56	1

Client Sample ID: C-6 GRAB

Lab Sample ID: 630-32239-2

Date Collected: 04/27/22 10:06

Matrix: Sediment

Date Received: 04/28/22 06:50

Percent Solids: 46.8

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	47000		2100	2100	mg/Kg	☆		05/04/22 11:20	1

Client Sample ID: SC-3 COMPOSITE (C5 + C6)

Lab Sample ID: 630-32239-3

Date Collected: 04/28/22 06:50

Matrix: Sediment

Date Received: 04/28/22 06:50

Percent Solids: 41.1

Method: EPA 8270E LL - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.20	U	0.20	0.074	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
1,2-Dichlorobenzene	0.20	U	0.20	0.065	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
1,2,4,5-Tetrachlorobenzene	200	U	200	80	ug/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
1,3-Dichlorobenzene	0.20	U	0.20	0.067	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
1,4-Dichlorobenzene	0.20	U	0.20	0.074	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
1,4-Dioxane	0.40	U	0.40	0.063	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
1,2-Diphenylhydrazine(as Azobenzene)	0.20	U	0.20	0.090	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
1,2,4-Trichlorobenzene	0.20	U	0.20	0.061	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
2-Chloronaphthalene	0.041	U	0.041	0.0093	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
2-Chlorophenol	0.20	U	0.20	0.074	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
2,3,4,6-Tetrachlorophenol	200	U	200	84	ug/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
2,4-Dichlorophenol	0.041	U	0.041	0.016	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
2,4-Dimethylphenol	0.20	U	0.20	0.068	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
2,4-Dinitrophenol	2.0	U	2.0	1.3	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
2,4-Dinitrotoluene	0.20	U	0.20	0.12	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
2,6-Dinitrotoluene	0.20	U	0.20	0.078	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
2-Methylnaphthalene	0.025	J	0.041	0.0097	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
2-Methylphenol	0.20	U	0.20	0.058	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
Methylphenol, 3 & 4	0.20	U	0.20	0.059	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
2-Nitroaniline	1.0	U	1.0	0.092	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
3-Nitroaniline	1.0	U	1.0	0.051	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
4-Nitroaniline	1.0	U	1.0	0.075	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
2-Nitrophenol	0.20	U	0.20	0.074	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
4-Nitrophenol	1.0	U	1.0	0.14	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
2,2'-oxybis[1-chloropropane]	0.041	U	0.041	0.015	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
2,4,5-Trichlorophenol	0.20	U	0.20	0.070	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
2,4,6-Trichlorophenol	0.20	U	0.20	0.067	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
4-Chloro-3-methylphenol	0.20	U	0.20	0.071	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
4-Chlorophenyl phenyl ether	0.20	U	0.20	0.067	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
4,6-Dinitro-2-methylphenol	1.0	U	1.0	0.35	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
Cresols, Total	0.40	U	0.40	0.11	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
Acenaphthene	0.026	J	0.041	0.012	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
Acenaphthylene	0.044		0.041	0.0088	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5

Eurofins Environment Testing Philadelphia, LLC

Client Sample Results

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden NJ

Job ID: 630-32239-1

Client Sample ID: SC-3 COMPOSITE (C5 + C6)

Lab Sample ID: 630-32239-3

Date Collected: 04/28/22 06:50

Matrix: Sediment

Date Received: 04/28/22 06:50

Percent Solids: 41.1

Method: EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	0.41	U	0.41	0.072	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
Aniline	0.20	U	0.20	0.052	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
Anthracene	0.064		0.041	0.010	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
Atrazine	0.41	U	0.41	0.088	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
Benzaldehyde	0.41	U	0.41	0.025	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
Benzidine	4.1	U	4.1	1.5	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
Benzo[a]anthracene	0.19		0.041	0.018	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
Benzo[b]fluoranthene	0.26		0.041	0.0099	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
Benzo[k]fluoranthene	0.082		0.041	0.012	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
Benzoic acid	1.0	U	1.0	0.45	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
Benzo[g,h,i]perylene	0.17		0.041	0.0087	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
Benzo[a]pyrene	0.20		0.041	0.018	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
Bis(2-chloroethoxy)methane	0.20	U	0.20	0.074	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
Bis(2-chloroethyl)ether	0.041	U	0.041	0.0073	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
Bis(2-ethylhexyl) phthalate	0.25	J	2.0	0.22	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
4-Bromophenyl phenyl ether	0.20	U	0.20	0.086	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
Butyl benzyl phthalate	0.20	U	0.20	0.14	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
Caprolactam	1.0	U	1.0	0.13	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
Carbazole	0.018	J	0.041	0.0095	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
4-Chloroaniline	0.20	U	0.20	0.053	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
Chrysene	0.22		0.041	0.022	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
Dibenz(a,h)anthracene	0.042		0.041	0.026	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
Dibenzofuran	0.20	U	0.20	0.074	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
Di-n-butyl phthalate	0.20	U	0.20	0.088	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
Di-n-octyl phthalate	0.20	U	0.20	0.12	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
Diethyl phthalate	0.20	U	0.20	0.071	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
Dimethyl phthalate	0.20	U	0.20	0.079	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
Fluoranthene	0.38		0.041	0.011	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
Fluorene	0.030	J	0.041	0.0079	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
Hexachlorobenzene	0.041	U	0.041	0.015	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
Hexachlorobutadiene	0.041	U	0.041	0.012	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
Hexachlorocyclopentadiene	0.20	U	0.20	0.021	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
Hexachloroethane	0.20	U	0.20	0.071	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
Indeno[1,2,3-cd]pyrene	0.15		0.041	0.020	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
Isophorone	0.20	U	0.20	0.076	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
Naphthalene	0.048		0.041	0.0079	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
Nitrobenzene	0.40	U	0.40	0.074	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
N-Nitrosodimethylamine	0.20	U	0.20	0.077	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
N-Nitrosodiphenylamine	0.20	U	0.20	0.067	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
N-Nitrosodi-n-propylamine	0.041	U	0.041	0.014	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
Pentachlorophenol	1.0	U	1.0	0.32	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
Phenanthrene	0.15		0.041	0.011	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
Phenol	0.20	U	0.20	0.061	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
Pyrene	0.33		0.041	0.0096	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
Pyridine	0.41	U	0.41	0.11	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
Benzyl alcohol	0.20	U	0.20	0.014	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5
3,3'-Dichlorobenzidine	0.20	U	0.20	0.19	mg/Kg	☆	05/10/22 19:55	05/13/22 23:25	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	41		35 - 105	05/10/22 19:55	05/13/22 23:25	5

Eurofins Environment Testing Philadelphia, LLC

Client Sample Results

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden NJ

Job ID: 630-32239-1

Client Sample ID: SC-3 COMPOSITE (C5 + C6)

Lab Sample ID: 630-32239-3

Date Collected: 04/28/22 06:50

Matrix: Sediment

Date Received: 04/28/22 06:50

Percent Solids: 41.1

Method: EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	37		32 - 105	05/10/22 19:55	05/13/22 23:25	5
2,4,6-Tribromophenol (Surr)	38		20 - 119	05/10/22 19:55	05/13/22 23:25	5
Nitrobenzene-d5 (Surr)	41		34 - 109	05/10/22 19:55	05/13/22 23:25	5
Phenol-d5 (Surr)	40		34 - 105	05/10/22 19:55	05/13/22 23:25	5
Terphenyl-d14 (Surr)	40		20 - 117	05/10/22 19:55	05/13/22 23:25	5

Method: EPA 8081B LL - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin (1C)	0.00019	J p	0.00050	0.00016	mg/Kg	☆	05/03/22 01:43	05/17/22 18:37	5
alpha-BHC (1C)	0.00050	U	0.00050	0.00012	mg/Kg	☆	05/03/22 01:43	05/17/22 18:37	5
beta-BHC (1C)	0.00050	U	0.00050	0.00014	mg/Kg	☆	05/03/22 01:43	05/17/22 18:37	5
delta-BHC (1C)	0.00050	U	0.00050	0.00016	mg/Kg	☆	05/03/22 01:43	05/17/22 18:37	5
gamma-BHC (Lindane) (1C)	0.00050	U	0.00050	0.00013	mg/Kg	☆	05/03/22 01:43	05/17/22 18:37	5
cis-Chlordane (2C)	0.00091	p	0.00050	0.00013	mg/Kg	☆	05/03/22 01:43	05/17/22 18:37	5
trans-Chlordane (1C)	0.00050	U	0.00050	0.00012	mg/Kg	☆	05/03/22 01:43	05/17/22 18:37	5
Chlordane (technical) (1C)	0.0050	U	0.0050	0.0021	mg/Kg	☆	05/03/22 01:43	05/17/22 18:37	5
4,4'-DDD (1C)	0.0054		0.00050	0.00011	mg/Kg	☆	05/03/22 01:43	05/17/22 18:37	5
4,4'-DDE (1C)	0.011		0.00050	0.00010	mg/Kg	☆	05/03/22 01:43	05/17/22 18:37	5
4,4'-DDT (1C)	0.00050	U	0.00050	0.00036	mg/Kg	☆	05/03/22 01:43	05/17/22 18:37	5
Dieldrin (1C)	0.00050	U	0.00050	0.00013	mg/Kg	☆	05/03/22 01:43	05/17/22 18:37	5
Endosulfan I (1C)	0.00050	U	0.00050	0.00014	mg/Kg	☆	05/03/22 01:43	05/17/22 18:37	5
Endosulfan II (1C)	0.00050	U	0.00050	0.00011	mg/Kg	☆	05/03/22 01:43	05/17/22 18:37	5
Endosulfan sulfate (1C)	0.00050	U	0.00050	0.00023	mg/Kg	☆	05/03/22 01:43	05/17/22 18:37	5
Endrin (1C)	0.00050	U	0.00050	0.000094	mg/Kg	☆	05/03/22 01:43	05/17/22 18:37	5
Endrin aldehyde (1C)	0.00050	U	0.00050	0.00018	mg/Kg	☆	05/03/22 01:43	05/17/22 18:37	5
Endrin ketone (1C)	0.00050	U	0.00050	0.000069	mg/Kg	☆	05/03/22 01:43	05/17/22 18:37	5
Heptachlor (1C)	0.00050	U	0.00050	0.00016	mg/Kg	☆	05/03/22 01:43	05/17/22 18:37	5
Heptachlor epoxide (2C)	0.00025	J p	0.00050	0.00013	mg/Kg	☆	05/03/22 01:43	05/17/22 18:37	5
Methoxychlor (1C)	0.00050	U	0.00050	0.00020	mg/Kg	☆	05/03/22 01:43	05/17/22 18:37	5
Mirex (1C)	0.00050	U	0.00050	0.000094	mg/Kg	☆	05/03/22 01:43	05/17/22 18:37	5
Toxaphene (1C)	0.020	U	0.020	0.014	mg/Kg	☆	05/03/22 01:43	05/17/22 18:37	5
Endosulfan, Total (1C)	1.0	U	1.0	0.25	ug/Kg	☆	05/03/22 01:43	05/17/22 18:37	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr) (1C)	31		10 - 105	05/03/22 01:43	05/17/22 18:37	5
Tetrachloro-m-xylene (Surr) (2C)	30		10 - 105	05/03/22 01:43	05/17/22 18:37	5
DCB Decachlorobiphenyl (Surr) (1C)	91		25 - 107	05/03/22 01:43	05/17/22 18:37	5
DCB Decachlorobiphenyl (Surr) (2C)	133	S1+	25 - 107	05/03/22 01:43	05/17/22 18:37	5

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016 (1C)	0.0010	U	0.0010	0.00033	mg/Kg	☆	05/04/22 20:32	05/11/22 16:38	1
PCB-1221 (1C)	0.0010	U	0.0010	0.00036	mg/Kg	☆	05/04/22 20:32	05/11/22 16:38	1
PCB-1232 (1C)	0.0010	U	0.0010	0.00025	mg/Kg	☆	05/04/22 20:32	05/11/22 16:38	1
PCB-1242 (1C)	0.0010	U	0.0010	0.00015	mg/Kg	☆	05/04/22 20:32	05/11/22 16:38	1
PCB-1248 (1C)	0.030		0.0010	0.00024	mg/Kg	☆	05/04/22 20:32	05/11/22 16:38	1
PCB-1254 (1C)	0.0010	U	0.0010	0.00030	mg/Kg	☆	05/04/22 20:32	05/11/22 16:38	1
PCB-1260 (2C)	0.044		0.0010	0.00029	mg/Kg	☆	05/04/22 20:32	05/11/22 16:38	1

Client Sample Results

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden NJ

Job ID: 630-32239-1

Client Sample ID: SC-3 COMPOSITE (C5 + C6)

Lab Sample ID: 630-32239-3

Date Collected: 04/28/22 06:50

Matrix: Sediment

Date Received: 04/28/22 06:50

Percent Solids: 41.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr) (1C)	66		33 - 126	05/04/22 20:32	05/11/22 16:38	1
Tetrachloro-m-xylene (Surr) (2C)	59		33 - 126	05/04/22 20:32	05/11/22 16:38	1
DCB Decachlorobiphenyl (Surr) (1C)	1391	S1+	26 - 170	05/04/22 20:32	05/11/22 16:38	1
DCB Decachlorobiphenyl (Surr) (2C)	1613	S1+	26 - 170	05/04/22 20:32	05/11/22 16:38	1

Method: EPA 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000	^2	7.2	5.1	mg/Kg	☆	05/18/22 09:29	05/25/22 01:06	1
Arsenic	8.1		0.12	0.069	mg/Kg	☆	05/18/22 09:29	05/25/22 01:06	1
Barium	150		1.2	0.73	mg/Kg	☆	05/18/22 09:29	05/25/22 01:06	1
Antimony	0.56		0.24	0.13	mg/Kg	☆	05/18/22 09:29	05/25/22 01:06	1
Beryllium	1.2		0.12	0.086	mg/Kg	☆	05/18/22 09:29	05/25/22 01:06	1
Cadmium	1.6		0.12	0.067	mg/Kg	☆	05/18/22 09:29	05/25/22 01:06	1
Calcium	3700		60	24	mg/Kg	☆	05/18/22 09:29	05/25/22 01:06	1
Chromium	31		0.24	0.21	mg/Kg	☆	05/18/22 09:29	05/25/22 01:06	1
Cobalt	15		0.060	0.043	mg/Kg	☆	05/18/22 09:29	05/25/22 01:06	1
Copper	40		0.36	0.25	mg/Kg	☆	05/18/22 09:29	05/25/22 01:06	1
Magnesium	3700		60	5.4	mg/Kg	☆	05/18/22 09:29	05/25/22 01:06	1
Manganese	1700	^2	0.60	0.51	mg/Kg	☆	05/18/22 09:29	05/25/22 01:06	1
Iron	26000	^2	6.0	5.7	mg/Kg	☆	05/18/22 09:29	05/25/22 01:06	1
Lead	55		0.12	0.079	mg/Kg	☆	05/18/22 09:29	05/25/22 01:06	1
Potassium	1300		60	17	mg/Kg	☆	05/18/22 09:29	05/25/22 01:06	1
Nickel	24		0.12	0.11	mg/Kg	☆	05/18/22 09:29	05/25/22 01:06	1
Selenium	1.1		0.60	0.15	mg/Kg	☆	05/18/22 09:29	05/25/22 01:06	1
Sodium	130		60	31	mg/Kg	☆	05/18/22 09:29	05/25/22 01:06	1
Silver	0.31		0.12	0.033	mg/Kg	☆	05/18/22 09:29	05/25/22 01:06	1
Thallium	0.15		0.12	0.083	mg/Kg	☆	05/18/22 09:29	05/25/22 01:06	1
Vanadium	26		0.12	0.11	mg/Kg	☆	05/18/22 09:29	05/25/22 01:06	1
Zinc	270		0.60	0.57	mg/Kg	☆	05/18/22 09:29	05/25/22 01:06	1

Method: EPA 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20		0.034	0.022	mg/Kg	☆	05/25/22 06:50	05/25/22 16:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	58.9		0.1	0.1	%			05/10/22 06:22	1
Percent Solids	41.1		0.1	0.1	%			05/10/22 06:22	1
Cr (III)	31		0.50	0.21	mg/Kg			05/26/22 14:15	1
Cr (VI)	2.0	U	2.0	1.0	mg/Kg	☆	05/16/22 11:38	05/19/22 14:42	2
Cyanide, Total	5.2		0.44	0.34	mg/Kg	☆	05/09/22 12:00	05/10/22 13:20	1
Total Organic Carbon - Duplicates	54000		2400	2400	mg/Kg	☆		05/10/22 20:00	1

Method: D2216-90 - Water (Moisture) Content

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Moisture Content	137.2				%			06/14/22 21:52	1

Method: D422 - Grain Size

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gravel	0.2				%			06/14/22 21:58	1
Sieve Size 3 inch - Percent Finer	100.0				% Passing			06/14/22 21:58	1

Client Sample Results

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden NJ

Job ID: 630-32239-1

Client Sample ID: SC-3 COMPOSITE (C5 + C6)

Lab Sample ID: 630-32239-3

Date Collected: 04/28/22 06:50

Matrix: Sediment

Date Received: 04/28/22 06:50

Percent Solids: 41.1

Method: D422 - Grain Size (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sand	16.0				%			06/14/22 21:58	1
Sieve Size 2 inch - Percent Finer	100.0				% Passing			06/14/22 21:58	1
Coarse Sand	1.2				%			06/14/22 21:58	1
Sieve Size 1.5 inch - Percent Finer	100.0				% Passing			06/14/22 21:58	1
Medium Sand	1.0				%			06/14/22 21:58	1
Sieve Size 1 inch - Percent Finer	100.0				% Passing			06/14/22 21:58	1
Fine Sand	13.8				%			06/14/22 21:58	1
Sieve Size 0.75 inch - Percent Finer	100.0				% Passing			06/14/22 21:58	1
Sieve Size 0.375 inch - Percent Finer	100.0				% Passing			06/14/22 21:58	1
Silt	60.8				%			06/14/22 21:58	1
Clay	23.0				%			06/14/22 21:58	1
Sieve Size #4 - Percent Finer	99.8				% Passing			06/14/22 21:58	1
Sieve Size #10 - Percent Finer	98.6				% Passing			06/14/22 21:58	1
Sieve Size #20 - Percent Finer	98.4				% Passing			06/14/22 21:58	1
Sieve Size #40 - Percent Finer	97.6				% Passing			06/14/22 21:58	1
Sieve Size #60 - Percent Finer	94.9				% Passing			06/14/22 21:58	1
Sieve Size #80 - Percent Finer	93.0				% Passing			06/14/22 21:58	1
Sieve Size #100 - Percent Finer	91.0				% Passing			06/14/22 21:58	1
Sieve Size #200 - Percent Finer	83.8				% Passing			06/14/22 21:58	1
Hydrometer Reading 1 - Percent Finer	58.8				% Passing			06/14/22 21:58	1
Hydrometer Reading 2 - Percent Finer	48.4				% Passing			06/14/22 21:58	1
Hydrometer Reading 3 - Percent Finer	38.0				% Passing			06/14/22 21:58	1
Hydrometer Reading 4 - Percent Finer	31.4				% Passing			06/14/22 21:58	1
Hydrometer Reading 5 - Percent Finer	23.0				% Passing			06/14/22 21:58	1
Hydrometer Reading 6 - Percent Finer	14.4				% Passing			06/14/22 21:58	1
Hydrometer Reading 7 - Percent Finer	10.1				% Passing			06/14/22 21:58	1

Particle Size of Soils by ASTM D422

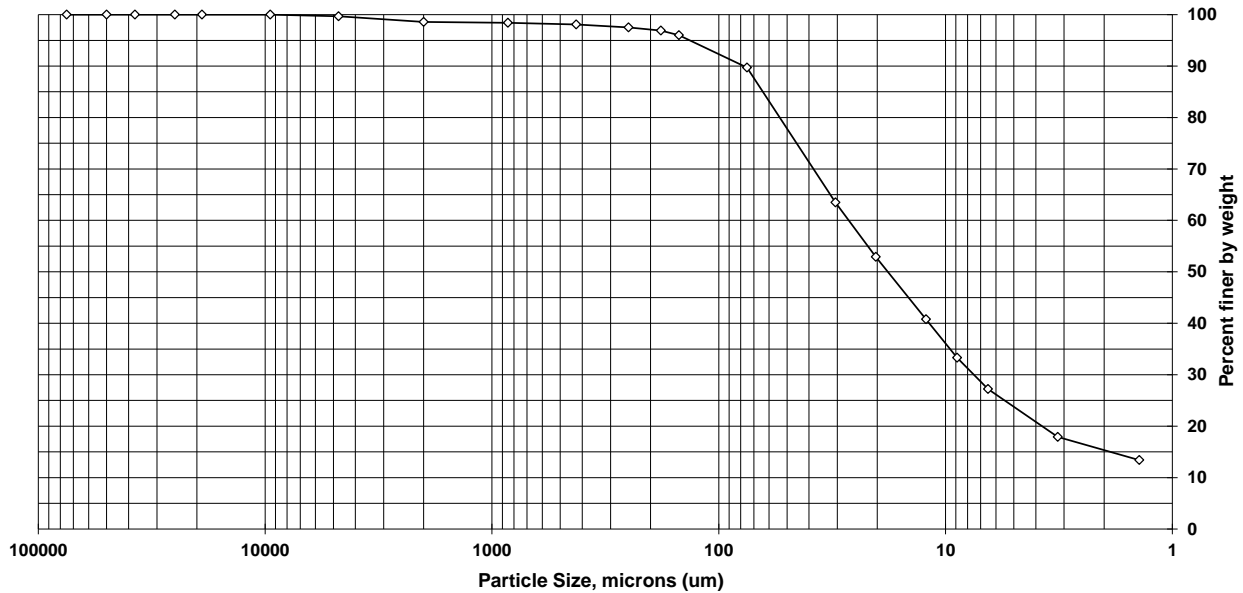
Sample ID: C-5 GRAB
Lab ID: 630-32239-A-1

Percent Solids: 41.4%
Specific Gravity: 2.650

Date Received: 4/28/2022
Start Date: 6/14/2022
End Date: 6/22/2022

Shape (> #10): na

Non-soil material: plant
Hardness (> #10): na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	99.7	0.3
#10	2000	98.6	1.1
#20	850	98.4	0.2
#40	425	98.1	0.3
#60	250	97.5	0.6
#80	180	96.9	0.6
#100	150	96.0	0.9
#200	75	89.7	6.3
Hyd1	30.6	63.5	26.2
Hyd2	20.3	52.9	10.6
Hyd3	12.2	40.8	12.1
Hyd4	8.9	33.3	7.5
Hyd5	6.5	27.2	6.1
Hyd6	3.2	17.9	9.3
Hyd7	1.4	13.4	4.5

Soil Classification	Percent of sample
Gravel	0.3
Sand	10.0
Coarse Sand	1.1
Medium Sand	0.5
Fine Sand	8.4
Silt	62.5
Clay	27.2

Particle Size of Soils by ASTM D422

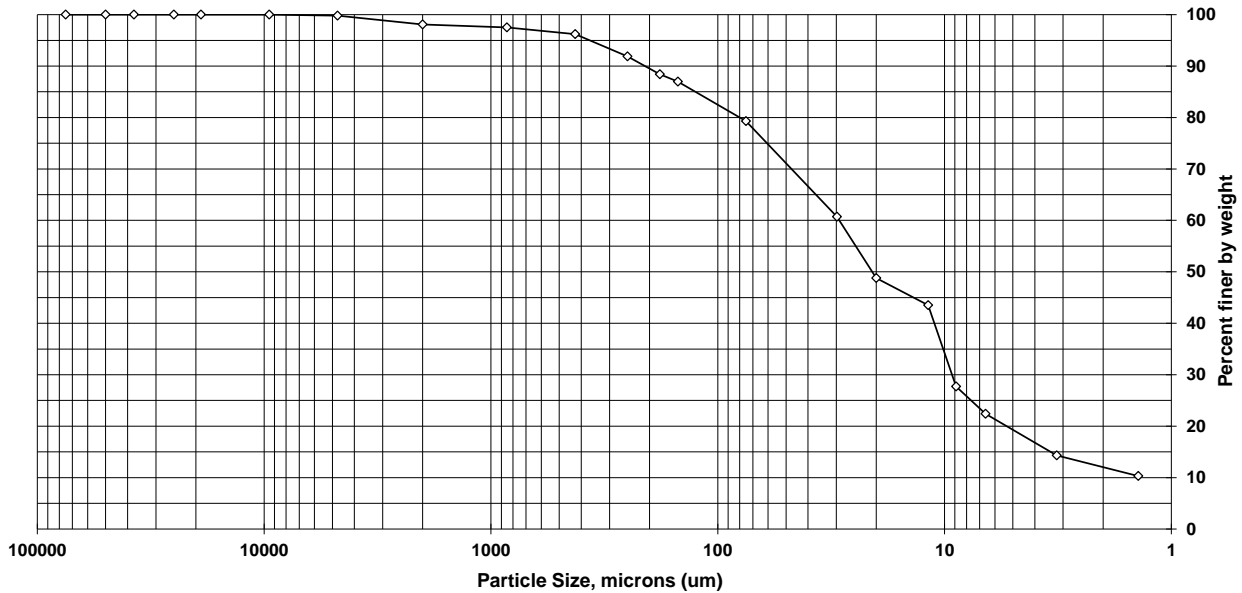
Sample ID: C-6 GRAB
Lab ID: 630-32239-A-2

Percent Solids: 43.0%
Specific Gravity: 2.650

Date Received: 4/28/2022
Start Date: 6/14/2022
End Date: 6/22/2022

Shape (> #10): na

Non-soil material: plant
Hardness (> #10): na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	99.8	0.2
#10	2000	98.1	1.7
#20	850	97.5	0.6
#40	425	96.2	1.3
#60	250	91.9	4.3
#80	180	88.4	3.5
#100	150	87.0	1.4
#200	75	79.3	7.7
Hyd1	29.8	60.7	18.6
Hyd2	20	48.8	11.9
Hyd3	11.8	43.5	5.3
Hyd4	8.9	27.7	15.8
Hyd5	6.6	22.4	5.3
Hyd6	3.2	14.3	8.1
Hyd7	1.4	10.3	4.0

Soil Classification	Percent of sample
Gravel	0.2
Sand	20.5
Coarse Sand	1.7
Medium Sand	1.9
Fine Sand	16.9
Silt	56.9
Clay	22.4

Particle Size of Soils by ASTM D422

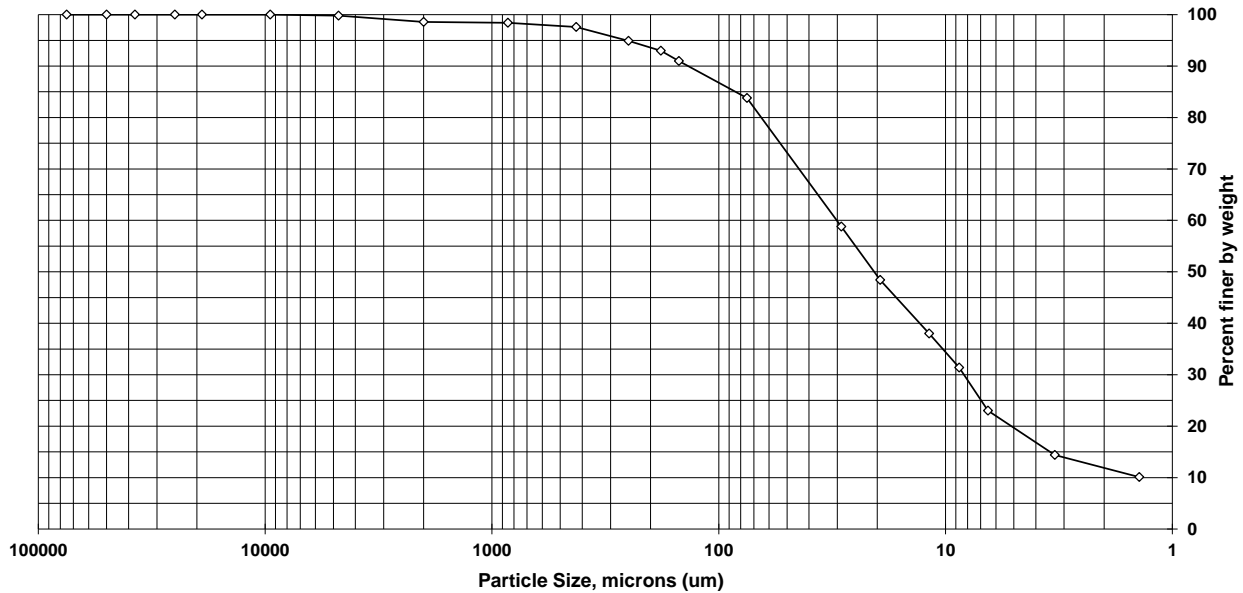
Sample ID: SC-3 COMPOSITE (C5 +
Lab ID: 630-32239-A-3

Percent Solids: 42.2%
Specific Gravity: 2.650

Date Received: 4/28/2022
Start Date: 6/14/2022
End Date: 6/22/2022

Shape (> #10): na

Non-soil material: plant
Hardness (> #10): na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	99.8	0.2
#10	2000	98.6	1.2
#20	850	98.4	0.2
#40	425	97.6	0.8
#60	250	94.9	2.7
#80	180	93.0	1.9
#100	150	91.0	2.0
#200	75	83.8	7.2
Hyd1	28.8	58.8	25.0
Hyd2	19.4	48.4	10.4
Hyd3	11.8	38.0	10.4
Hyd4	8.7	31.4	6.6
Hyd5	6.5	23.0	8.4
Hyd6	3.3	14.4	8.6
Hyd7	1.4	10.1	4.3

Soil Classification	Percent of sample
Gravel	0.2
Sand	16.0
Coarse Sand	1.2
Medium Sand	1.0
Fine Sand	13.8
Silt	60.8
Clay	23.0

TestAmerica Burlington

Sediment Grain Size - D422

Client	
Client Sample ID	C-5 GRAB
Lab Sample ID	630-32239-A-1

Date Received	4/28/2022
Start Date	06/14/2022 12:00
End Date	06/22/2022 13:56

Dry Weight Determination

Tin Weight	1.06 g
Wet Sample + Tin	35.11 g
Dry Sample + Tin	15.14 g
% Moisture	58.65 %

Non-soil material:	plant
Shape (> #10):	na
Hardness (> #10):	na

Date/Time in oven	06/14/2022 21:55
Date/Time out of oven	06/15/2022 15:40

Sample Weights

	Tare (g)	Pan+Sample (g)	Sample (g)
Sample Weight (Wet)	47.90	176.39	128.49
Sample Weight (Oven Dried)			53.1

Sample Split (oven dried)

	Tare (g)	Pan+Sample (g)	Sample (g)
Sample >=#10			0.72
Sample <#10			52.4
% Passing #10			40.8

Hydrometer Data

Serial Number	542325
Calib. Date (mm/dd/yyyy)	12/10/2021
Low Temp (C)	17.0
Reading at Low Temp	1.0030
High Temp (C)	23.0
Reading at High Temp	1.0020
Hydrometer Cal Slope	-0.000166667
Hydrometer Cal Intercept	1.005833333
Default Soil Gravity	2.6500

Gravel/Sand Fraction (Sieves)

Sample Fraction	Size (um)	Pan Tare (g)	Pan+Sample (g)	Sample	% Finer	Classification	Sub Class
3 inch	75000			0.00 g	100.0	Gravel	
2 inch	50000			0.00 g	100.0	Gravel	
1.5 inch	37500			0.00 g	100.0	Gravel	
1 inch	25000			0.00 g	100.0	Gravel	
3/4 inch	19000			0.00 g	100.0	Gravel	
3/8 inch	9500			0.00 g	100.0	Gravel	
#4	4750	488.01	488.15	0.14 g	99.7	Gravel	
#10	2000	462.62	463.20	0.58 g	98.6	Sand	Coarse
#20	850	377.56	377.67	0.11 g	98.4	Sand	Medium
#40	425	365.73	365.91	0.18 g	98.1	Sand	Medium
#60	250	347.79	348.11	0.32 g	97.5	Sand	Fine
#80	180	336.89	337.22	0.33 g	96.9	Sand	Fine
#100	150	327.20	327.67	0.47 g	96.0	Sand	Fine
#200	75	312.25	315.60	3.35 g	89.7	Sand	Fine
				0.00 g	89.7		

Adjusted Hydrometer Sample Mass

Hydrometer Sample Mass (g)	53.1
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Silt/Clay Fraction (Hydrometer Test)

Hydrometer Test Time (min)	Actual	Spec. Gravity	Temp C	Particle Size (Micron)	% Finer	Classification	Sub Class
2	2	1.0235	20.0	30.6	63.5	Silt	
5	5	1.0200	20.0	20.3	52.9	Silt	
15	15	1.0160	20.0	12.2	40.8	Silt	
30	30	1.0135	20.0	8.9	33.3	Silt	
60	59	1.0115	20.0	6.5	27.2	Silt	
250	256	1.0085	19.5	3.2	17.9	Clay	
1440	1440	1.0070	19.5	1.4	13.4	Clay	

TestAmerica Burlington

Sediment Grain Size - D422

Client	
Client Sample ID	C-6 GRAB
Lab Sample ID	630-32239-A-2

Date Received	4/28/2022
Start Date	06/14/2022 21:56
End Date	06/22/2022 14:04

Dry Weight Determination

Tin Weight	1.06 g
Wet Sample + Tin	29.71 g
Dry Sample + Tin	13.37 g
% Moisture	57.03 %

Non-soil material:	plant
Shape (> #10):	na
Hardness (> #10):	na

Date/Time in oven	06/14/2022 21:57
Date/Time out of oven	06/15/2022 15:40

Sample Weights

	Tare (g)	Pan+Sample (g)	Sample (g)
Sample Weight (Wet)	44.64	186.31	141.67
Sample Weight (Oven Dried)			60.9

Sample Split (oven dried)

	Tare (g)	Pan+Sample (g)	Sample (g)
Sample >=#10			1.17
Sample <#10			59.7
% Passing #10			42.1

Hydrometer Data

Serial Number	542325
Calib. Date (mm/dd/yyyy)	12/10/2021
Low Temp (C)	17.0
Reading at Low Temp	1.0030
High Temp (C)	23.0
Reading at High Temp	1.0020
Hydrometer Cal Slope	-0.000166667
Hydrometer Cal Intercept	1.005833333
Default Soil Gravity	2.6500

Gravel/Sand Fraction (Sieves)

Sample Fraction	Size (um)	Pan Tare (g)	Pan+Sample (g)	Sample	% Finer	Classification	Sub Class
3 inch	75000			0.00 g	100.0	Gravel	
2 inch	50000			0.00 g	100.0	Gravel	
1.5 inch	37500			0.00 g	100.0	Gravel	
1 inch	25000			0.00 g	100.0	Gravel	
3/4 inch	19000			0.00 g	100.0	Gravel	
3/8 inch	9500			0.00 g	100.0	Gravel	
#4	4750	488.01	488.15	0.14 g	99.8	Gravel	
#10	2000	462.62	463.65	1.03 g	98.1	Sand	Coarse
#20	850	373.01	373.38	0.37 g	97.5	Sand	Medium
#40	425	361.15	361.94	0.79 g	96.2	Sand	Medium
#60	250	351.40	354.01	2.61 g	91.9	Sand	Fine
#80	180	318.54	320.69	2.15 g	88.4	Sand	Fine
#100	150	327.74	328.57	0.83 g	87.0	Sand	Fine
#200	75	313.63	318.31	4.68 g	79.3	Sand	Fine
				0.00 g	79.3		

Adjusted Hydrometer Sample Mass

Hydrometer Sample Mass (g)	60.9
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Silt/Clay Fraction (Hydrometer Test)

Hydrometer Test Time (min)	Actual	Spec. Gravity	Temp C	Particle Size (Micron)	% Finer	Classification	Sub Class
2	2	1.0255	20.0	29.8	60.7	Silt	
5	5	1.0210	20.0	20	48.8	Silt	
15	15	1.0190	20.0	11.8	43.5	Silt	
30	30	1.0130	20.0	8.9	27.7	Silt	
60	58	1.0110	20.0	6.6	22.4	Silt	
250	256	1.0080	19.5	3.2	14.3	Clay	
1440	1440	1.0065	19.4	1.4	10.3	Clay	

TestAmerica Burlington

Sediment Grain Size - D422

Client	
Client Sample ID	SC-3 COMPOSITE (C5 +
Lab Sample ID	630-32239-A-3

Date Received	4/28/2022
Start Date	06/14/2022 21:58
End Date	06/22/2022 14:14

Dry Weight Determination

Tin Weight	1.03 g
Wet Sample + Tin	48.11 g
Dry Sample + Tin	20.88 g
% Moisture	57.84 %

Non-soil material:	plant
Shape (> #10):	na
Hardness (> #10):	na

Date/Time in oven	06/14/2022 22:00
Date/Time out of oven	06/15/2022 15:40

Sample Weights

	Tare (g)	Pan+Sample (g)	Sample (g)
Sample Weight (Wet)	44.06	209.34	165.28
Sample Weight (Oven Dried)			69.7

Sample Split (oven dried)

	Tare (g)	Pan+Sample (g)	Sample (g)
Sample >=#10			0.96
Sample <#10			68.7
% Passing #10			41.6

Hydrometer Data

Serial Number	542325
Calib. Date (mm/dd/yyyy)	12/10/2021
Low Temp (C)	17.0
Reading at Low Temp	1.0030
High Temp (C)	23.0
Reading at High Temp	1.0020
Hydrometer Cal Slope	-0.000166667
Hydrometer Cal Intercept	1.005833333
Default Soil Gravity	2.6500

Gravel/Sand Fraction (Sieves)

Sample Fraction	Size (um)	Pan Tare (g)	Pan+Sample (g)	Sample	% Finer	Classification	Sub Class
3 inch	75000			0.00 g	100.0	Gravel	
2 inch	50000			0.00 g	100.0	Gravel	
1.5 inch	37500			0.00 g	100.0	Gravel	
1 inch	25000			0.00 g	100.0	Gravel	
3/4 inch	19000			0.00 g	100.0	Gravel	
3/8 inch	9500			0.00 g	100.0	Gravel	
#4	4750	488.01	488.12	0.11 g	99.8	Gravel	
#10	2000	462.62	463.47	0.85 g	98.6	Sand	Coarse
#20	850	377.56	377.69	0.13 g	98.4	Sand	Medium
#40	425	365.73	366.27	0.54 g	97.6	Sand	Medium
#60	250	347.79	349.70	1.91 g	94.9	Sand	Fine
#80	180	336.89	338.23	1.34 g	93.0	Sand	Fine
#100	150	327.20	328.57	1.37 g	91.0	Sand	Fine
#200	75	312.25	317.27	5.02 g	83.8	Sand	Fine
				0.00 g	83.8		

Adjusted Hydrometer Sample Mass

Hydrometer Sample Mass (g)	69.7
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Silt/Clay Fraction (Hydrometer Test)

Hydrometer Test Time (min)	Actual	Spec. Gravity	Temp C	Particle Size (Micron)	% Finer	Classification	Sub Class
2	2	1.0280	20.0	28.8	58.8	Silt	
5	5	1.0235	20.0	19.4	48.4	Silt	
15	15	1.0190	20.0	11.8	38	Silt	
30	29	1.0160	20.7	8.7	31.4	Silt	
60	58	1.0125	20.0	6.5	23	Silt	
250	250	1.0090	18.5	3.3	14.4	Clay	
1440	1434	1.0070	19.4	1.4	10.1	Clay	

Surrogate Summary

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden NJ

Job ID: 630-32239-1

Method: EPA 8270E LL - Semivolatile Organic Compounds (GC/MS)

Matrix: Sediment

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (35-105)	2FP (32-105)	TBP (20-119)	NBZ (34-109)	PHL (34-105)	TPHL (20-117)
630-32239-3	SC-3 COMPOSITE (C5 + C6)	41	37	38	41	40	40
LCS 180-398304/2-A	Lab Control Sample	69	78	83	76	71	82
MB 180-398304/1-A	Method Blank	73	87	83	82	74	88
Surrogate Legend							
FBP = 2-Fluorobiphenyl (Surr)							
2FP = 2-Fluorophenol (Surr)							
TBP = 2,4,6-Tribromophenol (Surr)							
NBZ = Nitrobenzene-d5 (Surr)							
PHL = Phenol-d5 (Surr)							
TPHL = Terphenyl-d14 (Surr)							

Method: EPA 8081B LL - Organochlorine Pesticides (GC)

Matrix: Sediment

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TCX1 (10-105)	TCX2 (10-105)	DCB1 (25-107)	DCB2 (25-107)
630-32239-3	SC-3 COMPOSITE (C5 + C6)	31	30	91	133 S1+
LCS 180-397409/2-B	Lab Control Sample	54	49	79	75
MB 180-397409/1-B	Method Blank	62	56	88	81
Surrogate Legend					
TCX = Tetrachloro-m-xylene (Surr)					
DCB = DCB Decachlorobiphenyl (Surr)					

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Matrix: Sediment

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TCX1 (33-126)	TCX2 (33-126)	DCB1 (26-170)	DCB2 (26-170)
630-32239-3	SC-3 COMPOSITE (C5 + C6)	66	59	1391 S1+	1613 S1+
LCS 180-397683/2-C	Lab Control Sample	88	75	88	92
MB 180-397683/1-C	Method Blank	89	80	81	83
Surrogate Legend					
TCX = Tetrachloro-m-xylene (Surr)					
DCB = DCB Decachlorobiphenyl (Surr)					

QC Sample Results

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden NJ

Job ID: 630-32239-1

Method: EPA 8270E LL - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 180-398304/1-A

Matrix: Sediment

Analysis Batch: 398523

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 398304

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1'-Biphenyl	0.033	U	0.033	0.012	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
1,2-Dichlorobenzene	0.033	U	0.033	0.011	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
1,2,4,5-Tetrachlorobenzene	33	U	33	13	ug/Kg		05/10/22 19:55	05/12/22 10:37	1
1,3-Dichlorobenzene	0.033	U	0.033	0.011	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
1,4-Dichlorobenzene	0.033	U	0.033	0.012	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
1,4-Dioxane	0.067	U	0.067	0.010	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
1,2-Diphenylhydrazine(as Azobenzene)	0.033	U	0.033	0.015	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
1,2,4-Trichlorobenzene	0.033	U	0.033	0.010	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
2-Chloronaphthalene	0.0067	U	0.0067	0.0015	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
2-Chlorophenol	0.033	U	0.033	0.012	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
2,3,4,6-Tetrachlorophenol	33	U	33	14	ug/Kg		05/10/22 19:55	05/12/22 10:37	1
2,4-Dichlorophenol	0.0067	U	0.0067	0.0026	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
2,4-Dimethylphenol	0.033	U	0.033	0.011	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
2,4-Dinitrophenol	0.33	U	0.33	0.21	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
2,4-Dinitrotoluene	0.033	U	0.033	0.020	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
2,6-Dinitrotoluene	0.033	U	0.033	0.013	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
2-Methylnaphthalene	0.0067	U	0.0067	0.0016	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
2-Methylphenol	0.033	U	0.033	0.0096	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
Methylphenol, 3 & 4	0.033	U	0.033	0.0098	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
2-Nitroaniline	0.17	U	0.17	0.015	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
3-Nitroaniline	0.17	U	0.17	0.0085	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
4-Nitroaniline	0.17	U	0.17	0.012	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
2-Nitrophenol	0.033	U	0.033	0.012	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
4-Nitrophenol	0.17	U	0.17	0.023	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
2,2'-oxybis[1-chloropropane]	0.0067	U	0.0067	0.0025	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
2,4,5-Trichlorophenol	0.033	U	0.033	0.012	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
2,4,6-Trichlorophenol	0.033	U	0.033	0.011	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
4-Chloro-3-methylphenol	0.033	U	0.033	0.012	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
4-Chlorophenyl phenyl ether	0.033	U	0.033	0.011	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
4,6-Dinitro-2-methylphenol	0.17	U	0.17	0.058	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
Cresols, Total	0.066	U	0.066	0.019	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
Acenaphthene	0.0067	U	0.0067	0.0019	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
Acenaphthylene	0.0067	U	0.0067	0.0015	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
Acetophenone	0.067	U	0.067	0.012	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
Aniline	0.033	U	0.033	0.0086	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
Anthracene	0.0067	U	0.0067	0.0017	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
Atrazine	0.067	U	0.067	0.015	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
Benzaldehyde	0.067	U	0.067	0.0041	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
Benzidine	0.67	U	0.67	0.25	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
Benzo[a]anthracene	0.0067	U	0.0067	0.0030	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
Benzo[b]fluoranthene	0.0067	U	0.0067	0.0016	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
Benzo[k]fluoranthene	0.0067	U	0.0067	0.0020	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
Benzoic acid	0.17	U	0.17	0.074	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
Benzo[g,h,i]perylene	0.0067	U	0.0067	0.0014	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
Benzo[a]pyrene	0.0067	U	0.0067	0.0029	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
Bis(2-chloroethoxy)methane	0.033	U	0.033	0.012	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
Bis(2-chloroethyl)ether	0.0067	U	0.0067	0.0012	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
Bis(2-ethylhexyl) phthalate	0.33	U	0.33	0.036	mg/Kg		05/10/22 19:55	05/12/22 10:37	1

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QC Sample Results

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden NJ

Job ID: 630-32239-1

Method: EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 180-398304/1-A

Matrix: Sediment

Analysis Batch: 398523

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 398304

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	0.033	U	0.033	0.014	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
Butyl benzyl phthalate	0.033	U	0.033	0.023	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
Caprolactam	0.17	U	0.17	0.022	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
Carbazole	0.0067	U	0.0067	0.0016	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
4-Chloroaniline	0.033	U	0.033	0.0088	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
Chrysene	0.0067	U	0.0067	0.0037	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
Dibenz(a,h)anthracene	0.0067	U	0.0067	0.0043	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
Dibenzofuran	0.033	U	0.033	0.012	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
Di-n-butyl phthalate	0.033	U	0.033	0.015	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
Di-n-octyl phthalate	0.033	U	0.033	0.019	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
Diethyl phthalate	0.033	U	0.033	0.012	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
Dimethyl phthalate	0.033	U	0.033	0.013	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
Fluoranthene	0.0067	U	0.0067	0.0018	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
Fluorene	0.0067	U	0.0067	0.0013	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
Hexachlorobenzene	0.0067	U	0.0067	0.0024	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
Hexachlorobutadiene	0.0067	U	0.0067	0.0020	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
Hexachlorocyclopentadiene	0.033	U	0.033	0.0034	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
Hexachloroethane	0.033	U	0.033	0.012	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
Indeno[1,2,3-cd]pyrene	0.0067	U	0.0067	0.0033	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
Isophorone	0.033	U	0.033	0.012	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
Naphthalene	0.0067	U	0.0067	0.0013	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
Nitrobenzene	0.067	U	0.067	0.012	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
N-Nitrosodimethylamine	0.033	U	0.033	0.013	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
N-Nitrosodiphenylamine	0.033	U	0.033	0.011	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
N-Nitrosodi-n-propylamine	0.0067	U	0.0067	0.0023	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
Pentachlorophenol	0.17	U	0.17	0.054	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
Phenanthrene	0.0067	U	0.0067	0.0018	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
Phenol	0.033	U	0.033	0.010	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
Pyrene	0.0067	U	0.0067	0.0016	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
Pyridine	0.067	U	0.067	0.018	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
Benzyl alcohol	0.033	U	0.033	0.0023	mg/Kg		05/10/22 19:55	05/12/22 10:37	1
3,3'-Dichlorobenzidine	0.033	U	0.033	0.031	mg/Kg		05/10/22 19:55	05/12/22 10:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	73		35 - 105	05/10/22 19:55	05/12/22 10:37	1
2-Fluorophenol (Surr)	87		32 - 105	05/10/22 19:55	05/12/22 10:37	1
2,4,6-Tribromophenol (Surr)	83		20 - 119	05/10/22 19:55	05/12/22 10:37	1
Nitrobenzene-d5 (Surr)	82		34 - 109	05/10/22 19:55	05/12/22 10:37	1
Phenol-d5 (Surr)	74		34 - 105	05/10/22 19:55	05/12/22 10:37	1
Terphenyl-d14 (Surr)	88		20 - 117	05/10/22 19:55	05/12/22 10:37	1

Lab Sample ID: LCS 180-398304/2-A

Matrix: Sediment

Analysis Batch: 398523

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 398304

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	0.667	0.455		mg/Kg		68	43 - 100
1,2-Dichlorobenzene	0.667	0.482		mg/Kg		72	41 - 100

QC Sample Results

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden NJ

Job ID: 630-32239-1

Method: EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 180-398304/2-A

Matrix: Sediment

Analysis Batch: 398523

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 398304

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4,5-Tetrachlorobenzene	667	439		ug/Kg		66	40 - 103
1,3-Dichlorobenzene	0.667	0.487		mg/Kg		73	41 - 100
1,4-Dichlorobenzene	0.667	0.479		mg/Kg		72	41 - 100
1,4-Dioxane	0.667	0.536		mg/Kg		80	10 - 133
1,2-Diphenylhydrazine(as Azobenzene)	0.667	0.517		mg/Kg		78	39 - 111
1,2,4-Trichlorobenzene	0.667	0.487		mg/Kg		73	44 - 100
2-Chloronaphthalene	0.667	0.450		mg/Kg		68	47 - 100
2-Chlorophenol	0.667	0.483		mg/Kg		72	43 - 100
2,3,4,6-Tetrachlorophenol	667	509		ug/Kg		76	43 - 107
2,4-Dichlorophenol	0.667	0.525		mg/Kg		79	48 - 101
2,4-Dimethylphenol	0.667	0.517		mg/Kg		78	46 - 103
2,4-Dinitrophenol	1.33	0.636		mg/Kg		48	31 - 112
2,4-Dinitrotoluene	0.667	0.520		mg/Kg		78	48 - 106
2,6-Dinitrotoluene	0.667	0.534		mg/Kg		80	48 - 109
2-Methylnaphthalene	0.667	0.456		mg/Kg		68	44 - 100
2-Methylphenol	0.667	0.475		mg/Kg		71	43 - 101
Methylphenol, 3 & 4	0.667	0.468		mg/Kg		70	43 - 104
2-Nitroaniline	0.667	0.514		mg/Kg		77	40 - 122
3-Nitroaniline	0.667	0.507		mg/Kg		76	39 - 107
4-Nitroaniline	0.667	0.495		mg/Kg		74	41 - 110
2-Nitrophenol	0.667	0.540		mg/Kg		81	48 - 108
4-Nitrophenol	1.33	1.07		mg/Kg		81	33 - 131
2,2'-oxybis[1-chloropropane]	0.667	0.315		mg/Kg		47	33 - 101
2,4,5-Trichlorophenol	0.667	0.490		mg/Kg		73	47 - 108
2,4,6-Trichlorophenol	0.667	0.500		mg/Kg		75	47 - 108
4-Chloro-3-methylphenol	0.667	0.518		mg/Kg		78	47 - 108
4-Chlorophenyl phenyl ether	0.667	0.441		mg/Kg		66	45 - 100
4,6-Dinitro-2-methylphenol	1.33	1.08		mg/Kg		81	47 - 104
Cresols, Total	1.33	0.943		mg/Kg		71	43 - 102
Acenaphthene	0.667	0.473		mg/Kg		71	41 - 100
Acenaphthylene	0.667	0.460		mg/Kg		69	45 - 100
Acetophenone	0.667	0.457		mg/Kg		69	40 - 100
Aniline	0.667	0.445		mg/Kg		67	36 - 100
Anthracene	0.667	0.540		mg/Kg		81	47 - 100
Atrazine	0.667	0.528		mg/Kg		79	46 - 102
Benzaldehyde	0.667	0.508		mg/Kg		76	10 - 125
Benzidine	0.667	0.67	U	mg/Kg		19	10 - 100
Benzo[a]anthracene	0.667	0.511		mg/Kg		77	47 - 100
Benzo[b]fluoranthene	0.667	0.386		mg/Kg		58	44 - 100
Benzo[k]fluoranthene	0.667	0.380		mg/Kg		57	43 - 100
Benzoic acid	0.667	0.174		mg/Kg		26	22 - 123
Benzo[g,h,i]perylene	0.667	0.406		mg/Kg		61	45 - 103
Benzo[a]pyrene	0.667	0.361		mg/Kg		54	45 - 101
Bis(2-chloroethoxy)methane	0.667	0.434		mg/Kg		65	45 - 100
Bis(2-chloroethyl)ether	0.667	0.419		mg/Kg		63	39 - 101
Bis(2-ethylhexyl) phthalate	0.667	0.520		mg/Kg		78	45 - 109
4-Bromophenyl phenyl ether	0.667	0.500		mg/Kg		75	17 - 104
Butyl benzyl phthalate	0.667	0.553		mg/Kg		83	45 - 110

Eurofins Environment Testing Philadelphia, LLC

QC Sample Results

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden NJ

Job ID: 630-32239-1

Method: EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 180-398304/2-A

Matrix: Sediment

Analysis Batch: 398523

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 398304

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Caprolactam	0.667	0.506		mg/Kg		76	46 - 109
Carbazole	0.667	0.539		mg/Kg		81	46 - 100
4-Chloroaniline	0.667	0.462		mg/Kg		69	38 - 100
Chrysene	0.667	0.493		mg/Kg		74	44 - 100
Dibenz(a,h)anthracene	0.667	0.408		mg/Kg		61	46 - 107
Dibenzofuran	0.667	0.470		mg/Kg		71	47 - 100
Di-n-butyl phthalate	0.667	0.569		mg/Kg		85	50 - 105
Di-n-octyl phthalate	0.667	0.391		mg/Kg		59	34 - 106
Diethyl phthalate	0.667	0.484		mg/Kg		73	45 - 105
Dimethyl phthalate	0.667	0.512		mg/Kg		77	46 - 101
Fluoranthene	0.667	0.554		mg/Kg		83	49 - 102
Fluorene	0.667	0.481		mg/Kg		72	46 - 100
Hexachlorobenzene	0.667	0.466		mg/Kg		70	45 - 101
Hexachlorobutadiene	0.667	0.459		mg/Kg		69	38 - 110
Hexachlorocyclopentadiene	0.667	0.467		mg/Kg		70	31 - 116
Hexachloroethane	0.667	0.480		mg/Kg		72	40 - 100
Indeno[1,2,3-cd]pyrene	0.667	0.405		mg/Kg		61	48 - 104
Isophorone	0.667	0.479		mg/Kg		72	46 - 105
Naphthalene	0.667	0.482		mg/Kg		72	43 - 100
Nitrobenzene	0.667	0.504		mg/Kg		76	43 - 107
N-Nitrosodimethylamine	0.667	0.551		mg/Kg		83	29 - 121
N-Nitrosodiphenylamine	0.667	0.519		mg/Kg		78	46 - 100
N-Nitrosodi-n-propylamine	0.667	0.488		mg/Kg		73	40 - 109
Pentachlorophenol	1.33	0.973		mg/Kg		73	34 - 112
Phenanthrene	0.667	0.530		mg/Kg		80	46 - 100
Phenol	0.667	0.470		mg/Kg		71	42 - 103
Pyrene	0.667	0.525		mg/Kg		79	44 - 102
Pyridine	1.33	1.02		mg/Kg		76	25 - 109
Benzyl alcohol	0.667	0.464		mg/Kg		70	40 - 104
3,3'-Dichlorobenzidine	0.667	0.452		mg/Kg		68	34 - 101

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	69		35 - 105
2-Fluorophenol (Surr)	78		32 - 105
2,4,6-Tribromophenol (Surr)	83		20 - 119
Nitrobenzene-d5 (Surr)	76		34 - 109
Phenol-d5 (Surr)	71		34 - 105
Terphenyl-d14 (Surr)	82		20 - 117

Method: EPA 8081B LL - Organochlorine Pesticides (GC)

Lab Sample ID: MB 180-397409/1-B

Matrix: Sediment

Analysis Batch: 399020

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 397409

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin (1C)	0.000042	U	0.000042	0.000013	mg/Kg		05/03/22 01:43	05/17/22 10:57	1
alpha-BHC (1C)	0.000042	U	0.000042	0.000010	mg/Kg		05/03/22 01:43	05/17/22 10:57	1
beta-BHC (1C)	0.000042	U	0.000042	0.000011	mg/Kg		05/03/22 01:43	05/17/22 10:57	1

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QC Sample Results

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden NJ

Job ID: 630-32239-1

Method: EPA 8081B LL - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 180-397409/1-B

Matrix: Sediment

Analysis Batch: 399020

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 397409

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC (1C)	0.000042	U	0.000042	0.000013	mg/Kg		05/03/22 01:43	05/17/22 10:57	1
gamma-BHC (Lindane) (1C)	0.000042	U	0.000042	0.000011	mg/Kg		05/03/22 01:43	05/17/22 10:57	1
cis-Chlordane (1C)	0.000042	U	0.000042	0.000010	mg/Kg		05/03/22 01:43	05/17/22 10:57	1
trans-Chlordane (1C)	0.000042	U	0.000042	0.0000097	mg/Kg		05/03/22 01:43	05/17/22 10:57	1
Chlordane (technical) (1C)	0.00042	U	0.00042	0.00018	mg/Kg		05/03/22 01:43	05/17/22 10:57	1
4,4'-DDD (1C)	0.000042	U	0.000042	0.0000088	mg/Kg		05/03/22 01:43	05/17/22 10:57	1
4,4'-DDE (1C)	0.000042	U	0.000042	0.0000085	mg/Kg		05/03/22 01:43	05/17/22 10:57	1
4,4'-DDT (1C)	0.000042	U	0.000042	0.000030	mg/Kg		05/03/22 01:43	05/17/22 10:57	1
Dieldrin (1C)	0.000042	U	0.000042	0.000010	mg/Kg		05/03/22 01:43	05/17/22 10:57	1
Endosulfan I (1C)	0.000042	U	0.000042	0.000011	mg/Kg		05/03/22 01:43	05/17/22 10:57	1
Endosulfan II (1C)	0.000042	U	0.000042	0.0000092	mg/Kg		05/03/22 01:43	05/17/22 10:57	1
Endosulfan sulfate (1C)	0.000042	U	0.000042	0.000019	mg/Kg		05/03/22 01:43	05/17/22 10:57	1
Endrin (1C)	0.000042	U	0.000042	0.0000078	mg/Kg		05/03/22 01:43	05/17/22 10:57	1
Endrin aldehyde (1C)	0.000042	U	0.000042	0.000015	mg/Kg		05/03/22 01:43	05/17/22 10:57	1
Endrin ketone (1C)	0.000042	U	0.000042	0.0000058	mg/Kg		05/03/22 01:43	05/17/22 10:57	1
Heptachlor (1C)	0.000042	U	0.000042	0.000013	mg/Kg		05/03/22 01:43	05/17/22 10:57	1
Heptachlor epoxide (1C)	0.000042	U	0.000042	0.000011	mg/Kg		05/03/22 01:43	05/17/22 10:57	1
Methoxychlor (1C)	0.000042	U	0.000042	0.000016	mg/Kg		05/03/22 01:43	05/17/22 10:57	1
Mirex (1C)	0.000042	U	0.000042	0.0000078	mg/Kg		05/03/22 01:43	05/17/22 10:57	1
Toxaphene (1C)	0.0017	U	0.0017	0.0011	mg/Kg		05/03/22 01:43	05/17/22 10:57	1
Endosulfan, Total (1C)	0.083	U	0.083	0.021	ug/Kg		05/03/22 01:43	05/17/22 10:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr) (1C)	62		10 - 105	05/03/22 01:43	05/17/22 10:57	1
Tetrachloro-m-xylene (Surr) (2C)	56		10 - 105	05/03/22 01:43	05/17/22 10:57	1
DCB Decachlorobiphenyl (Surr) (1C)	88		25 - 107	05/03/22 01:43	05/17/22 10:57	1
DCB Decachlorobiphenyl (Surr) (2C)	81		25 - 107	05/03/22 01:43	05/17/22 10:57	1

Lab Sample ID: LCS 180-397409/2-B

Matrix: Sediment

Analysis Batch: 399020

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 397409

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aldrin (1C)	0.00167	0.000927		mg/Kg		56	25 - 139
alpha-BHC (1C)	0.00167	0.000831		mg/Kg		50	30 - 131
beta-BHC (1C)	0.00167	0.000843		mg/Kg		51	26 - 128
delta-BHC (1C)	0.00167	0.000947		mg/Kg		57	20 - 133
gamma-BHC (Lindane) (1C)	0.00167	0.000859		mg/Kg		52	31 - 134
cis-Chlordane (1C)	0.00167	0.000952		mg/Kg		57	25 - 137
trans-Chlordane (1C)	0.00167	0.000910		mg/Kg		55	31 - 131
4,4'-DDD (1C)	0.00167	0.000989		mg/Kg		59	32 - 135
4,4'-DDE (1C)	0.00167	0.00104		mg/Kg		62	28 - 128
4,4'-DDT (1C)	0.00167	0.000907		mg/Kg		54	28 - 121
Dieldrin (1C)	0.00167	0.00102		mg/Kg		61	39 - 124
Endosulfan I (1C)	0.00167	0.000937		mg/Kg		56	24 - 141
Endosulfan II (1C)	0.00167	0.00103		mg/Kg		62	38 - 125
Endosulfan sulfate (1C)	0.00167	0.00111		mg/Kg		67	23 - 130
Endrin (1C)	0.00167	0.00102		mg/Kg		61	32 - 131

QC Sample Results

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden NJ

Job ID: 630-32239-1

Method: EPA 8081B LL - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 180-397409/2-B

Matrix: Sediment

Analysis Batch: 399020

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 397409

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Endrin aldehyde (1C)	0.00167	0.000945		mg/Kg		57	27 - 124
Endrin ketone (1C)	0.00167	0.00103		mg/Kg		62	46 - 128
Heptachlor (1C)	0.00167	0.000845		mg/Kg		51	24 - 146
Heptachlor epoxide (1C)	0.00167	0.000961		mg/Kg		58	25 - 142
Methoxychlor (1C)	0.00167	0.000958		mg/Kg		57	31 - 136

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene (Surr) (1C)	54		10 - 105
Tetrachloro-m-xylene (Surr) (2C)	49		10 - 105
DCB Decachlorobiphenyl (Surr) (1C)	79		25 - 107
DCB Decachlorobiphenyl (Surr) (2C)	75		25 - 107

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 180-397683/1-C

Matrix: Sediment

Analysis Batch: 398311

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 397683

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016 (1C)	0.00042	U	0.00042	0.00014	mg/Kg		05/04/22 20:32	05/11/22 09:11	1
PCB-1221 (1C)	0.00042	U	0.00042	0.00015	mg/Kg		05/04/22 20:32	05/11/22 09:11	1
PCB-1232 (1C)	0.00042	U	0.00042	0.00010	mg/Kg		05/04/22 20:32	05/11/22 09:11	1
PCB-1242 (1C)	0.00042	U	0.00042	0.000061	mg/Kg		05/04/22 20:32	05/11/22 09:11	1
PCB-1248 (1C)	0.00042	U	0.00042	0.00010	mg/Kg		05/04/22 20:32	05/11/22 09:11	1
PCB-1254 (1C)	0.00042	U	0.00042	0.00013	mg/Kg		05/04/22 20:32	05/11/22 09:11	1
PCB-1260 (1C)	0.00042	U	0.00042	0.00012	mg/Kg		05/04/22 20:32	05/11/22 09:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr) (1C)	89		33 - 126	05/04/22 20:32	05/11/22 09:11	1
Tetrachloro-m-xylene (Surr) (2C)	80		33 - 126	05/04/22 20:32	05/11/22 09:11	1
DCB Decachlorobiphenyl (Surr) (1C)	81		26 - 170	05/04/22 20:32	05/11/22 09:11	1
DCB Decachlorobiphenyl (Surr) (2C)	83		26 - 170	05/04/22 20:32	05/11/22 09:11	1

Lab Sample ID: LCS 180-397683/2-C

Matrix: Sediment

Analysis Batch: 398311

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 397683

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016 (1C)	0.0333	0.0219		mg/Kg		66	32 - 126
PCB-1260 (1C)	0.0333	0.0319		mg/Kg		96	40 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene (Surr) (1C)	88		33 - 126

QC Sample Results

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden NJ

Job ID: 630-32239-1

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Lab Sample ID: LCS 180-397683/2-C

Matrix: Sediment

Analysis Batch: 398311

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 397683

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene (Surr) (2C)	75		33 - 126
DCB Decachlorobiphenyl (Surr) (1C)	88		26 - 170
DCB Decachlorobiphenyl (Surr) (2C)	92		26 - 170

Method: EPA 6020B - Metals (ICP/MS)

Lab Sample ID: MB 180-399173/1-A

Matrix: Sediment

Analysis Batch: 399861

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 399173

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aluminum	6.0	U	6.0	4.2	mg/Kg		05/18/22 09:29	05/25/22 02:04	1
Arsenic	0.10	U	0.10	0.058	mg/Kg		05/18/22 09:29	05/25/22 02:04	1
Barium	1.0	U	1.0	0.61	mg/Kg		05/18/22 09:29	05/25/22 02:04	1
Antimony	0.20	U	0.20	0.11	mg/Kg		05/18/22 09:29	05/25/22 02:04	1
Beryllium	0.10	U	0.10	0.072	mg/Kg		05/18/22 09:29	05/25/22 02:04	1
Cadmium	0.10	U	0.10	0.056	mg/Kg		05/18/22 09:29	05/25/22 02:04	1
Calcium	50	U	50	20	mg/Kg		05/18/22 09:29	05/25/22 02:04	1
Chromium	0.20	U	0.20	0.18	mg/Kg		05/18/22 09:29	05/25/22 02:04	1
Cobalt	0.050	U	0.050	0.036	mg/Kg		05/18/22 09:29	05/25/22 02:04	1
Copper	0.30	U	0.30	0.21	mg/Kg		05/18/22 09:29	05/25/22 02:04	1
Magnesium	50	U	50	4.5	mg/Kg		05/18/22 09:29	05/25/22 02:04	1
Manganese	0.50	U	0.50	0.43	mg/Kg		05/18/22 09:29	05/25/22 02:04	1
Iron	5.0	U	5.0	4.8	mg/Kg		05/18/22 09:29	05/25/22 02:04	1
Lead	0.10	U	0.10	0.066	mg/Kg		05/18/22 09:29	05/25/22 02:04	1
Potassium	50	U	50	15	mg/Kg		05/18/22 09:29	05/25/22 02:04	1
Nickel	0.10	U	0.10	0.094	mg/Kg		05/18/22 09:29	05/25/22 02:04	1
Selenium	0.50	U	0.50	0.12	mg/Kg		05/18/22 09:29	05/25/22 02:04	1
Sodium	50	U	50	26	mg/Kg		05/18/22 09:29	05/25/22 02:04	1
Silver	0.10	U	0.10	0.028	mg/Kg		05/18/22 09:29	05/25/22 02:04	1
Thallium	0.10	U	0.10	0.070	mg/Kg		05/18/22 09:29	05/25/22 02:04	1
Vanadium	0.10	U	0.10	0.094	mg/Kg		05/18/22 09:29	05/25/22 02:04	1
Zinc	0.50	U	0.50	0.48	mg/Kg		05/18/22 09:29	05/25/22 02:04	1

Lab Sample ID: LCS 180-399173/2-A

Matrix: Sediment

Analysis Batch: 399861

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 399173

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Aluminum	500	456		mg/Kg		91	80 - 120
Arsenic	100	89.5		mg/Kg		89	80 - 120
Barium	100	94.4		mg/Kg		94	80 - 120
Antimony	25.0	25.1		mg/Kg		101	80 - 120
Beryllium	50.0	47.1		mg/Kg		94	80 - 120
Cadmium	50.0	49.0		mg/Kg		98	80 - 120
Calcium	2500	2220		mg/Kg		89	80 - 120
Chromium	50.0	49.8		mg/Kg		100	80 - 120

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QC Sample Results

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden NJ

Job ID: 630-32239-1

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 180-399173/2-A

Matrix: Sediment

Analysis Batch: 399861

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 399173

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt	50.0	45.8		mg/Kg		92	80 - 120
Copper	50.0	44.2		mg/Kg		88	80 - 120
Magnesium	2500	2410		mg/Kg		97	80 - 120
Manganese	50.0	44.1		mg/Kg		88	80 - 120
Iron	500	508		mg/Kg		102	80 - 120
Lead	50.0	48.2		mg/Kg		96	80 - 120
Potassium	2500	2320		mg/Kg		93	80 - 120
Nickel	50.0	46.5		mg/Kg		93	80 - 120
Selenium	100	94.4		mg/Kg		94	80 - 120
Sodium	2500	2480		mg/Kg		99	80 - 120
Silver	25.0	23.3		mg/Kg		93	80 - 120
Thallium	100	97.5		mg/Kg		97	80 - 120
Vanadium	50.0	48.9		mg/Kg		98	80 - 120
Zinc	25.0	22.2		mg/Kg		89	80 - 120

Method: EPA 7471B - Mercury (CVAA)

Lab Sample ID: MB 180-399815/1-A

Matrix: Sediment

Analysis Batch: 399957

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 399815

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	U	0.017	0.011	mg/Kg		05/25/22 06:50	05/25/22 15:49	1

Lab Sample ID: LCS 180-399815/2-A

Matrix: Sediment

Analysis Batch: 399957

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 399815

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.208	0.177		mg/Kg		85	80 - 120

Method: EPA 7196A - Chromium, Hexavalent

Lab Sample ID: MB 180-398936/1-A

Matrix: Sediment

Analysis Batch: 399404

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 398936

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.40	U	0.40	0.21	mg/Kg		05/16/22 11:38	05/19/22 14:13	1

Lab Sample ID: LCS 180-398936/3-A

Matrix: Sediment

Analysis Batch: 399404

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 398936

Analyte	Spike Added	LCSI Result	LCSI Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	708	729		mg/Kg		103	80 - 120

QC Sample Results

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden NJ

Job ID: 630-32239-1

Method: EPA 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: LCSS 180-398936/2-A
Matrix: Sediment
Analysis Batch: 399404

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 398936

Analyte	Spike Added	LCSS Result	LCSS Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	20.0	18.3		mg/Kg		92	80 - 120

Method: EPA 9014 - Cyanide

Lab Sample ID: MB 180-398091/4-A
Matrix: Sediment
Analysis Batch: 398281

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 398091

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.50	U	0.50	0.38	mg/Kg		05/09/22 12:00	05/10/22 12:46	1

Lab Sample ID: HLCS 180-398091/2-A
Matrix: Sediment
Analysis Batch: 398281

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 398091

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.252		mg/Kg		101	90 - 110

Lab Sample ID: LCS 180-398091/3-A
Matrix: Sediment
Analysis Batch: 398281

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 398091

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	23.1	22.6		mg/Kg		98	25 - 150

Lab Sample ID: LLCS 180-398091/1-A
Matrix: Sediment
Analysis Batch: 398281

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 398091

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.0500	0.0482		mg/Kg		96	90 - 110

Method: EPA-Lloyd Kahn - Organic Carbon, Total (TOC)

Lab Sample ID: MB 180-397614/4
Matrix: Sediment
Analysis Batch: 397614

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	1000	U	1000	970	mg/Kg			05/03/22 12:46	1

Lab Sample ID: LCS 180-397614/5
Matrix: Sediment
Analysis Batch: 397614

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	35300	32000		mg/Kg		91	75 - 125

QC Sample Results

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden NJ

Job ID: 630-32239-1

Method: EPA-Lloyd Kahn - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: MB 180-398354/4

Matrix: Sediment

Analysis Batch: 398354

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	1000	U	1000	970	mg/Kg			05/10/22 13:08	1

Lab Sample ID: LCS 180-398354/5

Matrix: Sediment

Analysis Batch: 398354

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	35300	36400		mg/Kg		103	75 - 125

QC Association Summary

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden NJ

Job ID: 630-32239-1

GC/MS Semi VOA

Prep Batch: 398304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-32239-3	SC-3 COMPOSITE (C5 + C6)	Total/NA	Sediment	3541	
MB 180-398304/1-A	Method Blank	Total/NA	Sediment	3541	
LCS 180-398304/2-A	Lab Control Sample	Total/NA	Sediment	3541	

Analysis Batch: 398523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-398304/1-A	Method Blank	Total/NA	Sediment	EPA 8270E LL	398304
LCS 180-398304/2-A	Lab Control Sample	Total/NA	Sediment	EPA 8270E LL	398304

Analysis Batch: 398683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-32239-3	SC-3 COMPOSITE (C5 + C6)	Total/NA	Sediment	EPA 8270E LL	398304

GC Semi VOA

Prep Batch: 397409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-32239-3	SC-3 COMPOSITE (C5 + C6)	Total/NA	Sediment	3541	
MB 180-397409/1-B	Method Blank	Total/NA	Sediment	3541	
LCS 180-397409/2-B	Lab Control Sample	Total/NA	Sediment	3541	

Prep Batch: 397683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-32239-3	SC-3 COMPOSITE (C5 + C6)	Total/NA	Sediment	3541	
MB 180-397683/1-C	Method Blank	Total/NA	Sediment	3541	
LCS 180-397683/2-C	Lab Control Sample	Total/NA	Sediment	3541	

Analysis Batch: 398311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-32239-3	SC-3 COMPOSITE (C5 + C6)	Total/NA	Sediment	EPA 8082A	398316
MB 180-397683/1-C	Method Blank	Total/NA	Sediment	EPA 8082A	398316
LCS 180-397683/2-C	Lab Control Sample	Total/NA	Sediment	EPA 8082A	398316

Cleanup Batch: 398315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-32239-3	SC-3 COMPOSITE (C5 + C6)	Total/NA	Sediment	3665A	397683
MB 180-397683/1-C	Method Blank	Total/NA	Sediment	3665A	397683
LCS 180-397683/2-C	Lab Control Sample	Total/NA	Sediment	3665A	397683

Cleanup Batch: 398316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-32239-3	SC-3 COMPOSITE (C5 + C6)	Total/NA	Sediment	3660B	398315
MB 180-397683/1-C	Method Blank	Total/NA	Sediment	3660B	398315
LCS 180-397683/2-C	Lab Control Sample	Total/NA	Sediment	3660B	398315

Cleanup Batch: 398801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-32239-3	SC-3 COMPOSITE (C5 + C6)	Total/NA	Sediment	3640A	397409
MB 180-397409/1-B	Method Blank	Total/NA	Sediment	3640A	397409
LCS 180-397409/2-B	Lab Control Sample	Total/NA	Sediment	3640A	397409

QC Association Summary

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden NJ

Job ID: 630-32239-1

GC Semi VOA

Analysis Batch: 399020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-32239-3	SC-3 COMPOSITE (C5 + C6)	Total/NA	Sediment	EPA 8081B LL	398801
MB 180-397409/1-B	Method Blank	Total/NA	Sediment	EPA 8081B LL	398801
LCS 180-397409/2-B	Lab Control Sample	Total/NA	Sediment	EPA 8081B LL	398801

Metals

Prep Batch: 399173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-32239-3	SC-3 COMPOSITE (C5 + C6)	Total/NA	Sediment	3050B	
MB 180-399173/1-A	Method Blank	Total/NA	Sediment	3050B	
LCS 180-399173/2-A	Lab Control Sample	Total/NA	Sediment	3050B	

Prep Batch: 399815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-32239-3	SC-3 COMPOSITE (C5 + C6)	Total/NA	Sediment	7471B	
MB 180-399815/1-A	Method Blank	Total/NA	Sediment	7471B	
LCS 180-399815/2-A	Lab Control Sample	Total/NA	Sediment	7471B	

Analysis Batch: 399861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-32239-3	SC-3 COMPOSITE (C5 + C6)	Total/NA	Sediment	EPA 6020B	399173
MB 180-399173/1-A	Method Blank	Total/NA	Sediment	EPA 6020B	399173
LCS 180-399173/2-A	Lab Control Sample	Total/NA	Sediment	EPA 6020B	399173

Analysis Batch: 399957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-32239-3	SC-3 COMPOSITE (C5 + C6)	Total/NA	Sediment	EPA 7471B	399815
MB 180-399815/1-A	Method Blank	Total/NA	Sediment	EPA 7471B	399815
LCS 180-399815/2-A	Lab Control Sample	Total/NA	Sediment	EPA 7471B	399815

General Chemistry

Analysis Batch: 397614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-32239-1	C-5 GRAB	Total/NA	Sediment	EPA-Lloyd Kahn	
630-32239-2	C-6 GRAB	Total/NA	Sediment	EPA-Lloyd Kahn	
MB 180-397614/4	Method Blank	Total/NA	Sediment	EPA-Lloyd Kahn	
LCS 180-397614/5	Lab Control Sample	Total/NA	Sediment	EPA-Lloyd Kahn	

Prep Batch: 398091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-32239-3	SC-3 COMPOSITE (C5 + C6)	Total/NA	Sediment	9010C	
MB 180-398091/4-A	Method Blank	Total/NA	Sediment	9010C	
HLCS 180-398091/2-A	Lab Control Sample	Total/NA	Sediment	9010C	
LCS 180-398091/3-A	Lab Control Sample	Total/NA	Sediment	9010C	
LLCS 180-398091/1-A	Lab Control Sample	Total/NA	Sediment	9010C	

Analysis Batch: 398191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-32239-1	C-5 GRAB	Total/NA	Sediment	2540G	
630-32239-2	C-6 GRAB	Total/NA	Sediment	2540G	
630-32239-3	SC-3 COMPOSITE (C5 + C6)	Total/NA	Sediment	2540G	

Eurofins Environment Testing Philadelphia, LLC

QC Association Summary

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden NJ

Job ID: 630-32239-1

General Chemistry

Analysis Batch: 398281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-32239-3	SC-3 COMPOSITE (C5 + C6)	Total/NA	Sediment	EPA 9014	398091
MB 180-398091/4-A	Method Blank	Total/NA	Sediment	EPA 9014	398091
HLCS 180-398091/2-A	Lab Control Sample	Total/NA	Sediment	EPA 9014	398091
LCS 180-398091/3-A	Lab Control Sample	Total/NA	Sediment	EPA 9014	398091
LLCS 180-398091/1-A	Lab Control Sample	Total/NA	Sediment	EPA 9014	398091

Analysis Batch: 398354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-32239-3	SC-3 COMPOSITE (C5 + C6)	Total/NA	Sediment	EPA-Lloyd Kahn	
MB 180-398354/4	Method Blank	Total/NA	Sediment	EPA-Lloyd Kahn	
LCS 180-398354/5	Lab Control Sample	Total/NA	Sediment	EPA-Lloyd Kahn	

Prep Batch: 398936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-32239-3	SC-3 COMPOSITE (C5 + C6)	Total/NA	Sediment	3060A	
MB 180-398936/1-A	Method Blank	Total/NA	Sediment	3060A	
LCSI 180-398936/3-A	Lab Control Sample	Total/NA	Sediment	3060A	
LCSS 180-398936/2-A	Lab Control Sample	Total/NA	Sediment	3060A	

Analysis Batch: 399404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-32239-3	SC-3 COMPOSITE (C5 + C6)	Total/NA	Sediment	EPA 7196A	398936
MB 180-398936/1-A	Method Blank	Total/NA	Sediment	EPA 7196A	398936
LCSI 180-398936/3-A	Lab Control Sample	Total/NA	Sediment	EPA 7196A	398936
LCSS 180-398936/2-A	Lab Control Sample	Total/NA	Sediment	EPA 7196A	398936

Analysis Batch: 400092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-32239-3	SC-3 COMPOSITE (C5 + C6)	Total/NA	Sediment	7196A	

Geotechnical

Analysis Batch: 180799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-32239-1	C-5 GRAB	Total/NA	Sediment	D2216-90	
630-32239-2	C-6 GRAB	Total/NA	Sediment	D2216-90	
630-32239-3	SC-3 COMPOSITE (C5 + C6)	Total/NA	Sediment	D2216-90	

Analysis Batch: 181028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-32239-1	C-5 GRAB	Total/NA	Sediment	D422	
630-32239-2	C-6 GRAB	Total/NA	Sediment	D422	
630-32239-3	SC-3 COMPOSITE (C5 + C6)	Total/NA	Sediment	D422	

Lab Chronicle

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden NJ

Job ID: 630-32239-1

Client Sample ID: C-5 GRAB

Lab Sample ID: 630-32239-1

Date Collected: 04/27/22 09:32

Matrix: Sediment

Date Received: 04/28/22 06:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	398191	05/10/22 06:22	BAC	TAL PIT
Total/NA	Analysis	D2216-90		1	180799	06/14/22 21:52	MAP	TAL BUR
Total/NA	Analysis	D422		1	181028	06/14/22 12:00	MAP	TAL BUR

Client Sample ID: C-5 GRAB

Lab Sample ID: 630-32239-1

Date Collected: 04/27/22 09:32

Matrix: Sediment

Date Received: 04/28/22 06:50

Percent Solids: 43.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA-Lloyd Kahn		1	397614	05/04/22 10:57	DLF	TAL PIT

Client Sample ID: C-6 GRAB

Lab Sample ID: 630-32239-2

Date Collected: 04/27/22 10:06

Matrix: Sediment

Date Received: 04/28/22 06:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	398191	05/10/22 06:22	BAC	TAL PIT
Total/NA	Analysis	D2216-90		1	180799	06/14/22 21:52	MAP	TAL BUR
Total/NA	Analysis	D422		1	181028	06/14/22 21:56	MAP	TAL BUR

Client Sample ID: C-6 GRAB

Lab Sample ID: 630-32239-2

Date Collected: 04/27/22 10:06

Matrix: Sediment

Date Received: 04/28/22 06:50

Percent Solids: 46.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA-Lloyd Kahn		1	397614	05/04/22 11:20	DLF	TAL PIT

Client Sample ID: SC-3 COMPOSITE (C5 + C6)

Lab Sample ID: 630-32239-3

Date Collected: 04/28/22 06:50

Matrix: Sediment

Date Received: 04/28/22 06:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	398191	05/10/22 06:22	BAC	TAL PIT
Total/NA	Analysis	7196A		1	400092	05/26/22 14:15	RSR	TAL PIT
Total/NA	Analysis	D2216-90		1	180799	06/14/22 21:52	MAP	TAL BUR
Total/NA	Analysis	D422		1	181028	06/14/22 21:58	MAP	TAL BUR

Client Sample ID: SC-3 COMPOSITE (C5 + C6)

Lab Sample ID: 630-32239-3

Date Collected: 04/28/22 06:50

Matrix: Sediment

Date Received: 04/28/22 06:50

Percent Solids: 41.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			398304	05/10/22 19:55	CSC	TAL PIT
Total/NA	Analysis	EPA 8270E LL		5	398683	05/13/22 23:25	VVP	TAL PIT

Lab Chronicle

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden NJ

Job ID: 630-32239-1

Client Sample ID: SC-3 COMPOSITE (C5 + C6)

Lab Sample ID: 630-32239-3

Date Collected: 04/28/22 06:50

Matrix: Sediment

Date Received: 04/28/22 06:50

Percent Solids: 41.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			397409	05/03/22 01:43	CSC	TAL PIT
Total/NA	Cleanup	3640A			398801	05/14/22 11:49	VJC	TAL PIT
Total/NA	Analysis	EPA 8081B LL		5	399020	05/17/22 18:37	DFE	TAL PIT
Total/NA	Prep	3541			397683	05/04/22 20:32	CSC	TAL PIT
Total/NA	Cleanup	3665A			398315	05/11/22 05:47	JMO	TAL PIT
Total/NA	Cleanup	3660B			398316	05/11/22 05:48	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1	398311	05/11/22 16:38	JMO	TAL PIT
Total/NA	Prep	3050B			399173	05/18/22 09:29	KWP	TAL PIT
Total/NA	Analysis	EPA 6020B		1	399861	05/25/22 01:06	RSK	TAL PIT
Total/NA	Prep	7471B			399815	05/25/22 06:50	RJR	TAL PIT
Total/NA	Analysis	EPA 7471B		1	399957	05/25/22 16:01	RJR	TAL PIT
Total/NA	Prep	3060A			398936	05/16/22 11:38	PMH	TAL PIT
Total/NA	Analysis	EPA 7196A		2	399404	05/19/22 14:42	PMH	TAL PIT
Total/NA	Prep	9010C			398091	05/09/22 12:00	CMR	TAL PIT
Total/NA	Analysis	EPA 9014		1	398281	05/10/22 13:20	CMR	TAL PIT
Total/NA	Analysis	EPA-Lloyd Kahn		1	398354	05/10/22 20:00	DLF	TAL PIT

Laboratory References:

TAL BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

TAL PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Accreditation/Certification Summary

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden NJ

Job ID: 630-32239-1

Laboratory: Eurofins Burlington

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

Authority	Program	Identification Number	Expiration Date
New Jersey	NELAP	VT972	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
D2216-90		Sediment	Moisture Content
D422		Sediment	Clay
D422		Sediment	Coarse Sand
D422		Sediment	Fine Sand
D422		Sediment	Gravel
D422		Sediment	Hydrometer Reading 1 - Percent Finer
D422		Sediment	Hydrometer Reading 2 - Percent Finer
D422		Sediment	Hydrometer Reading 3 - Percent Finer
D422		Sediment	Hydrometer Reading 4 - Percent Finer
D422		Sediment	Hydrometer Reading 5 - Percent Finer
D422		Sediment	Hydrometer Reading 6 - Percent Finer
D422		Sediment	Hydrometer Reading 7 - Percent Finer
D422		Sediment	Medium Sand
D422		Sediment	Sand
D422		Sediment	Sieve Size #10 - Percent Finer
D422		Sediment	Sieve Size #100 - Percent Finer
D422		Sediment	Sieve Size #20 - Percent Finer
D422		Sediment	Sieve Size #200 - Percent Finer
D422		Sediment	Sieve Size #4 - Percent Finer
D422		Sediment	Sieve Size #40 - Percent Finer
D422		Sediment	Sieve Size #60 - Percent Finer
D422		Sediment	Sieve Size #80 - Percent Finer
D422		Sediment	Sieve Size 0.375 inch - Percent Finer
D422		Sediment	Sieve Size 0.75 inch - Percent Finer
D422		Sediment	Sieve Size 1 inch - Percent Finer
D422		Sediment	Sieve Size 1.5 inch - Percent Finer
D422		Sediment	Sieve Size 2 inch - Percent Finer
D422		Sediment	Sieve Size 3 inch - Percent Finer
D422		Sediment	Silt

Laboratory: Eurofins Pittsburgh

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

Authority	Program	Identification Number	Expiration Date
New Jersey	NELAP	PA005	05-29-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
2540G		Sediment	Percent Moisture
2540G		Sediment	Percent Solids
7196A		Sediment	Cr (III)
EPA 8081B LL	3541	Sediment	Endosulfan, Total (1C)
EPA 8270E LL	3541	Sediment	Cresols, Total

Method Summary

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden NJ

Job ID: 630-32239-1

Method	Method Description	Protocol	Laboratory
EPA 8270E LL	Semivolatile Organic Compounds (GC/MS)	SW846	TAL PIT
EPA 8081B LL	Organochlorine Pesticides (GC)	SW846	TAL PIT
EPA 8082A	Polychlorinated Biphenyls (PCBs) (GC)	SW846	TAL PIT
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT
EPA 7471B	Mercury (CVAA)	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
7196A	Chromium, Trivalent (Colorimetric)	SW846	TAL PIT
EPA 7196A	Chromium, Hexavalent	SW846	TAL PIT
EPA 9014	Cyanide	SW846	TAL PIT
EPA-Lloyd Kahn	Organic Carbon, Total (TOC)	EPA	TAL PIT
D2216-90	Water (Moisture) Content	ASTM	TAL BUR
D422	Grain Size	ASTM	TAL BUR
3050B	Preparation, Metals	SW846	TAL PIT
3060A	Alkaline Digestion (Chromium, Hexavalent)	SW846	TAL PIT
3541	Automated Soxhlet Extraction (Low Level)	SW846	TAL PIT
3640A	Gel-Permeation Cleanup	SW846	TAL PIT
3660B	Sulfur Cleanup	SW846	TAL PIT
3665A	Sulfuric Acid/Permanganate Cleanup	SW846	TAL PIT
7471B	Preparation, Mercury	SW846	TAL PIT
9010C	Cyanide, Distillation	SW846	TAL PIT

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SM22 = Standard Methods For The Examination Of Water And Wastewater, 22nd Edition

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

Laboratory References:

TAL BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

TAL PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Sample Summary

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden NJ

Job ID: 630-32239-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
630-32239-1	C-5 GRAB	Sediment	04/27/22 09:32	04/28/22 06:50
630-32239-2	C-6 GRAB	Sediment	04/27/22 10:06	04/28/22 06:50
630-32239-3	SC-3 COMPOSITE (C5 + C6)	Sediment	04/28/22 06:50	04/28/22 06:50



Environment Testing
America

213 Witmer Road Phone: 215-355-3900
Horsham, PA 19044

Client/Acct. No. ST Hudson Eng.
Address 900 Dudley Ave.

City/State/Zip Cherry Hill, NJ 08002

Phone/Fax 856-342-6600

Client Contact: PAUL FERRY

PROJECT Balzano Berth 4

LAB USE ONLY

FIELD ID

C-5

C-6

> 8-3

Bill to/Report to (if different)

Sampling Site Address (if different) Include State

South Jersey Port Corp
101 Joseph A. Balzano Blvd
Camden, NJ

P.O. No.

PWSID #:

Quote #

e-mail: pferry@sthe.com

Collection

GRAB
COMPOSITE

Matrix
Code

Total

Number of Containers

H2SO4
HCl
Vials
HNO3
NaOH
ZnAc
UNPRE
BACT

Date

Military
Time

4/27/22 0932

4/27/22 1006

Lab LIMS No.

LAB USE ONLY

630-32239 Chain of Custody

KING WATER

Ascorb

Na2S2O3

Na OH/Zn acetate pH

HNO3 pH

H2SO4 pH

NaOH pH

Unpreserved

HCl

NH4Cl

MeOH

DI Water

SW: GROUND WATER

WW: WASTEWATER

SO: SOIL

SL: SLUDGE

OIL: OIL

SOL: NON SOIL SOLID

MI: MISCELLANEOUS

X: OTHER

ANALYSIS REQUESTED

Field pH, Temp (°C),
DO, Cl2, Cond. etc.

Grain Size, TOC, % Moisture
Hydrometer

DELIVERED
BY CUSTOMER

SC-3 (Comp of C-5 + C-6) - same as above
Cores + 8020, 8021, 8022, TAL Metals, CN, CEC, CR3
Comp created 04/28/22 0650 GMMO

SAMPLED BY: (Name/Company)

TAT: ☐ STANDARD (10 DAY)

Report Format: ☐ Standard ☐ NJ-RDD ☐ SRP-RDD

or DUE DATE / / /

☐ Standard + QC ☐ Forms ☐ EDD

Field Parameters Analyzed By:

Initials

Date/Time:

Please call for pricing and availability for rush (<10 day) turnaround and for all but standard reporting format.

SAMPLE CUSTODY EX

ES MUST BE DOCUMENT

BELOW

USE FULL LEGAL SIGNATURE, DATE AND MILIT

TIME (24 HOUR CLOCK, I.E. 8AM IS 0800, 4 PM IS 1600)

RELINQUISHED BY SAMPLER

1. Paul Ferry

DATE

TIME

04/27/22

1505

RECEIVED BY

1. Eric Conforti

DATE

TIME

4/27/22

1505

DELIVERY: ☐ EQC COURIER ☐ CLIENT

☐ UPS ☐ FEDEX ☐ OTHER

Custody Seal Number

RELINQUISHED BY

2.

DATE

TIME

RECEIVED BY

2.

DATE

TIME

Rec'd Temp.: 1.5/2.0

Initials: GMMO

Ice: ☒ I/N

Location: CEEP

RELINQUISHED BY

3.

DATE

TIME

RECEIVED BY

3.

DATE

TIME

COMMENTS:

RELINQUISHED BY

4.

DATE

TIME

RECEIVED BY

4.

DATE

TIME

RELINQUISHED BY

5.

DATE

TIME

RECEIVED BY

5.

DATE

TIME

Hazardous: yes/no

6/22/2022

SHIP DATE: 28APR22
ACTUAL: 21.35 LB 23313
CAD: 252948/CAF IN
DIM: 25x15x15

ORIGIN ID: SEGA (215) 355-3900

EUROFINS
213 WITMER ROAD
HORSHAM, PA 19044
UNITED STATES US

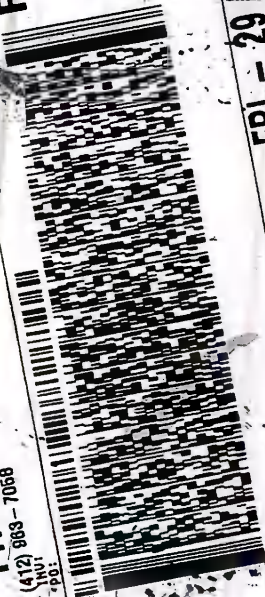
BILL SE

TO
TEST AMERICA PITTSBURGH
301 ALPHA DR
PITTSBURGH PA 15238

REF 1

DEPT 1
412 883-7068

FedEx
Express



FRI - 29 APR 10:30A
PRIORITY OVERNIGHT

TRK# 6723 0230 1424

15238
PIT

NA AGCA
Uncorrected temp
Thermometer ID

Initials

CF

PT-WI-SR-001 effective 11/08/18



630-32239 Waybill

Ver: 06/08/2021

Agency
Company
Company

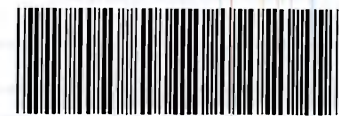
Phone: 215-355-3900 Fax: 888-785-8567

Philadelphia
Pitt 4702


Chain of Custody Record



**Environment Testing
America**



630-32239 Chain of Custody

Client Information (Sub Contract Lab)					
Client Contact: Shipping/Receiving			Sampler:		
Company: Eurofins Environment Testing Northeast,			Lab PM: Dougherty, Erin		
Address: 301 Alpha Drive, RIDC Park, City: Pittsburgh State, Zip: PA, 15238 Phone: 412-963-7058(Tel) 412-963-2468(Fax) Email:			E-Mail: Erin.Dougherty@et.eurofins.us  630-32239 Chain of Custody		
			Accreditations Required (See NELAP - New Jersey)		
Analysis Requested					
Due Date Requested: 5/25/2022		TAT Requested (days):			
PO #:		WO #:			
Project Name: South Jersey Port Corp. Camden NJ		Project #: 63005446			
Site:		SSOW#:			
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=oils, BT=tissue, A=air)
				Preservation Code:	
C-5 GRAB (630-32239-1)	4/27/22	09:32 Eastern	Sediment	X	X
C-6 GRAB (630-32239-2)	4/27/22	10:06 Eastern	Sediment	X	X
SC-3 COMPOSITE (C5 + C6) (630-32239-3)	4/28/22	06:50 Eastern	Sediment	X	X X X X X X X X X X
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Philadelphia, LLC places the ownership of method, analyte & accreditation compliance upon our 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 Eurofins Environment Testing Philadelphia, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Philadelphia, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Philadelphia, LLC.					
Possible Hazard Identification			Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		
Unconfirmed			<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		
Deliverable Requested: I, II, III, IV, Other (specify)			Special Instructions/QC Requirements:		
Empty Kit Relinquished by:			Date:	Time:	Method of Shipment:
Relinquished by: [Signature]			Date/Time: 4/25/22 1700	Company: EETP	Received by: Fedex DW
Relinquished by:			Date/Time:	Company:	Received by:
Relinquished by:			Date/Time:	Company:	Received by:
Custody Seals Intact: Δ Yes Δ No			Cooler Temperature(s) °C and Other Remarks:		

ORIGIN ID:SEGA (215) 355-3900

EUROFINS
213 WITMER ROAD

HORSHAM, PA 19044
UNITED STATES US

SHIP DATE: 28APR22
ACTWGT: 79.10 LB
CAD: 253948/CAFE3313
DIMS: 25x14x14 IN

BILL SENDER

TESTAMERICA BURLINGTON LABORATORY
30 COMMUNITY DR

SOUTH BURLINGTON 05403

REF RT

916
FZ 915

1
10:30

1413
04.29

DEX
Express



TRK# 6723 0230 1413
0201

FRI - 29 APR 10:30A
PRIORITY OVERNIGHT

NL BTVA

05403
VT-US BTV



Port 1 6148-434 MTW EXP 0722

Login Sample Receipt Checklist

Client: ST Hudson Engineers, Inc.

Job Number: 630-32239-1

Login Number: 32239

List Source: Eurofins Environment Testing Philadelphia, LLC

List Number: 1

Creator: Kurz, Chris

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.		
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		

Login Sample Receipt Checklist

Client: ST Hudson Engineers, Inc.

Job Number: 630-32239-1

Login Number: 32239

List Number: 3

Creator: Khudaier, Zahraa

List Source: Eurofins Burlington

List Creation: 04/30/22 08:52 AM

Question	Answer	Comment
Radioactivity wasn't checked or is <= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	N/A	Not present
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	6.4°C
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	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.	False	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ST Hudson Engineers, Inc.

Job Number: 630-32239-1

Login Number: 32239

List Number: 2

Creator: Watson, Debbie

List Source: Eurofins Pittsburgh

List Creation: 04/29/22 08:06 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq 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?	N/A	
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 $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	