



10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

March 16, 2018

Eric Matzner
Pastor, Behling & Wheeler, LLC
2201 Double Creek Drive
Suite 4004
Round Rock, TX 78664

Work Order: **HS18030106**

Laboratory Results for: **Houston TX-Wood Preserving Works**

Dear Eric,

ALS Environmental received 1 sample(s) on Mar 02, 2018 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: **Jumoke.Lawal**
Dane J. Wacasey

Client: Pastor, Behling & Wheeler, LLC
Project: Houston TX-Wood Preserving Works
Work Order: HS18030106

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS18030106-01	WG-1620-IDW-W-20180301	Water		01-Mar-2018 13:30	02-Mar-2018 09:00	<input type="checkbox"/>

Client: Pastor, Behling & Wheeler, LLC
Project: Houston TX-Wood Preserving Works
Work Order: HS18030106

CASE NARRATIVE

Work Order Comments

- Sample received outside method holding time for pH. pH is an immediate test. Sample results are flagged with an "H" qualifier.
The temperature at the time of pH is reported. Please note that all pH results are already normalized to a temperature of 25 °C.

GC Semivolatiles by Method TX1005**Batch ID: 125914**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

GCMS Semivolatiles by Method SW8270**Batch ID: 125844****Sample ID: LCSD-125844**

- The LCSD RPD was outside of the control limit for select compounds. The individual recoveries were in control.

Sample ID: WG-1620-IDW-W-20180301 (HS18030106-01)

- The surrogate recoveries could not be determined due to dilution below the calibration range.
- The GCMS semi-volatile extract of this sample was run at a dilution due to a high level of matrix interference.

GCMS Volatiles by Method SW8260**Batch ID: R312505****Sample ID: WG-1620-IDW-W-20180301 (HS18030106-01)**

- Lowest practical dilution due to sample matrix.

Metals by Method SW7470**Batch ID: 125884**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW6020**Batch ID: 125856****Sample ID: HS18030024-27MS**

- MS/MSD and DUPs are for an unrelated sample

WetChemistry by Method SW1010**Batch ID: R312556**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SM4500 S2-F**Batch ID: R312183**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Client: Pastor, Behling & Wheeler, LLC
Project: Houston TX-Wood Preserving Works
Work Order: HS18030106

CASE NARRATIVE

WetChemistry by Method SW9040

Batch ID: R311929

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.
-

WetChemistry by Method SW9014

Batch ID: 126056

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.
-

Client: Pastor, Behling & Wheeler, LLC
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-IDW-W-20180301
 Collection Date: 01-Mar-2018 13:30

ANALYTICAL REPORT
 WorkOrder:HS18030106
 Lab ID:HS18030106-01
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
Benzene	0.37		0.0020	0.010	mg/L	10	15-Mar-2018 05:30
Ethylbenzene	0.018		0.0030	0.010	mg/L	10	15-Mar-2018 05:30
Toluene	0.16		0.0020	0.010	mg/L	10	15-Mar-2018 05:30
Xylenes, Total	0.092		0.0030	0.010	mg/L	10	15-Mar-2018 05:30
Surr: 1,2-Dichloroethane-d4	84.9			70-126	%REC	10	15-Mar-2018 05:30
Surr: 4-Bromofluorobenzene	99.0			81-113	%REC	10	15-Mar-2018 05:30
Surr: Dibromofluoromethane	84.8			77-123	%REC	10	15-Mar-2018 05:30
Surr: Toluene-d8	106			82-127	%REC	10	15-Mar-2018 05:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Pastor, Behling & Wheeler, LLC
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-IDW-W-20180301
 Collection Date: 01-Mar-2018 13:30

ANALYTICAL REPORT
 WorkOrder:HS18030106
 Lab ID:HS18030106-01
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES	Method:SW8270					Prep:SW3510 / 05-Mar-2018	Analyst: GEY
1,2,4-Trichlorobenzene	U		0.00030	0.0020	mg/L	10	06-Mar-2018 21:54
2,4,5-Trichlorophenol	U		0.00057	0.0020	mg/L	10	06-Mar-2018 21:54
2,4,6-Trichlorophenol	U		0.00048	0.0020	mg/L	10	06-Mar-2018 21:54
2,4-Dichlorophenol	U		0.00043	0.0020	mg/L	10	06-Mar-2018 21:54
2,4-Dimethylphenol	7.5		0.040	0.20	mg/L	1000	07-Mar-2018 16:30
2,4-Dinitrophenol	U		0.0010	0.010	mg/L	10	06-Mar-2018 21:54
2,4-Dinitrotoluene	U		0.00058	0.0020	mg/L	10	06-Mar-2018 21:54
2,6-Dinitrotoluene	U		0.00042	0.0020	mg/L	10	06-Mar-2018 21:54
2-Chloronaphthalene	U		0.00021	0.0020	mg/L	10	06-Mar-2018 21:54
2-Chlorophenol	U		0.00036	0.0020	mg/L	10	06-Mar-2018 21:54
2-Methylnaphthalene	U		0.00019	0.0010	mg/L	10	06-Mar-2018 21:54
2-Methylphenol	15		0.45	2.0	mg/L	10000	07-Mar-2018 16:50
2-Nitroaniline	U		0.00041	0.0020	mg/L	10	06-Mar-2018 21:54
2-Nitrophenol	U		0.00034	0.0020	mg/L	10	06-Mar-2018 21:54
3&4-Methylphenol	23		0.36	2.0	mg/L	10000	07-Mar-2018 16:50
3,3'-Dichlorobenzidine	U		0.00044	0.0020	mg/L	10	06-Mar-2018 21:54
3-Nitroaniline	U		0.00049	0.0020	mg/L	10	06-Mar-2018 21:54
4,6-Dinitro-2-methylphenol	U		0.00020	0.0020	mg/L	10	06-Mar-2018 21:54
4-Bromophenyl phenyl ether	U		0.00051	0.0020	mg/L	10	06-Mar-2018 21:54
4-Chloro-3-methylphenol	U		0.00032	0.0020	mg/L	10	06-Mar-2018 21:54
4-Chloroaniline	U		0.00039	0.0020	mg/L	10	06-Mar-2018 21:54
4-Chlorophenyl phenyl ether	U		0.00044	0.0020	mg/L	10	06-Mar-2018 21:54
4-Nitroaniline	U		0.00035	0.0020	mg/L	10	06-Mar-2018 21:54
4-Nitrophenol	U		0.00047	0.010	mg/L	10	06-Mar-2018 21:54
Acenaphthene	U		0.00027	0.0010	mg/L	10	06-Mar-2018 21:54
Acenaphthylene	U		0.00015	0.0010	mg/L	10	06-Mar-2018 21:54
Anthracene	U		0.00014	0.0010	mg/L	10	06-Mar-2018 21:54
Benz(a)anthracene	U		0.00050	0.0010	mg/L	10	06-Mar-2018 21:54
Benzidine	U		0.0010	0.0020	mg/L	10	06-Mar-2018 21:54
Benzo(a)pyrene	U		0.00020	0.0010	mg/L	10	06-Mar-2018 21:54
Benzo(b)fluoranthene	U		0.00023	0.0010	mg/L	10	06-Mar-2018 21:54
Benzo(g,h,i)perylene	U		0.00014	0.0010	mg/L	10	06-Mar-2018 21:54
Benzo(k)fluoranthene	U		0.00019	0.0010	mg/L	10	06-Mar-2018 21:54
Benzyl alcohol	U		0.00054	0.0020	mg/L	10	06-Mar-2018 21:54
Bis(2-chloroethoxy)methane	U		0.00030	0.0020	mg/L	10	06-Mar-2018 21:54
Bis(2-chloroethyl)ether	U		0.00026	0.0020	mg/L	10	06-Mar-2018 21:54
Bis(2-chloroisopropyl)ether	U		0.00070	0.0020	mg/L	10	06-Mar-2018 21:54
Bis(2-ethylhexyl)phthalate	U		0.00037	0.0020	mg/L	10	06-Mar-2018 21:54

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Pastor, Behling & Wheeler, LLC
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-IDW-W-20180301
 Collection Date: 01-Mar-2018 13:30

ANALYTICAL REPORT
 WorkOrder:HS18030106
 Lab ID:HS18030106-01
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES	Method:SW8270					Prep:SW3510 / 05-Mar-2018	Analyst: GEY
Butyl benzyl phthalate	U		0.00019	0.0020	mg/L	10	06-Mar-2018 21:54
Carbazole	0.18		0.0025	0.020	mg/L	100	07-Mar-2018 17:28
Chrysene	U		0.00021	0.0010	mg/L	10	06-Mar-2018 21:54
Dibenz(a,h)anthracene	U		0.00024	0.0010	mg/L	10	06-Mar-2018 21:54
Dibenzofuran	U		0.00020	0.0010	mg/L	10	06-Mar-2018 21:54
Diethyl phthalate	U		0.00030	0.0020	mg/L	10	06-Mar-2018 21:54
Dimethyl phthalate	U		0.00041	0.0020	mg/L	10	06-Mar-2018 21:54
Di-n-butyl phthalate	U		0.00020	0.0020	mg/L	10	06-Mar-2018 21:54
Di-n-octyl phthalate	U		0.00020	0.0020	mg/L	10	06-Mar-2018 21:54
Fluoranthene	U		0.00010	0.0010	mg/L	10	06-Mar-2018 21:54
Fluorene	U		0.00030	0.0010	mg/L	10	06-Mar-2018 21:54
Hexachlorobenzene	U		0.00044	0.0020	mg/L	10	06-Mar-2018 21:54
Hexachlorobutadiene	U		0.00030	0.0020	mg/L	10	06-Mar-2018 21:54
Hexachlorocyclopentadiene	U		0.00030	0.0020	mg/L	10	06-Mar-2018 21:54
Hexachloroethane	U		0.00059	0.0020	mg/L	10	06-Mar-2018 21:54
Indeno(1,2,3-cd)pyrene	U		0.00022	0.0010	mg/L	10	06-Mar-2018 21:54
Isophorone	U		0.00025	0.0020	mg/L	10	06-Mar-2018 21:54
Naphthalene	0.069		0.00020	0.0010	mg/L	10	06-Mar-2018 21:54
Nitrobenzene	U		0.00024	0.0020	mg/L	10	06-Mar-2018 21:54
N-Nitrosodimethylamine	U		0.0010	0.0020	mg/L	10	06-Mar-2018 21:54
N-Nitrosodi-n-propylamine	U		0.00032	0.0020	mg/L	10	06-Mar-2018 21:54
N-Nitrosodiphenylamine	U		0.00025	0.0020	mg/L	10	06-Mar-2018 21:54
Pentachlorophenol	U		0.00079	0.0020	mg/L	10	06-Mar-2018 21:54
Phenanthrene	0.020		0.00021	0.0010	mg/L	10	06-Mar-2018 21:54
Phenol	2.7		0.035	0.20	mg/L	1000	07-Mar-2018 16:30
Pyrene	U		0.00019	0.0010	mg/L	10	06-Mar-2018 21:54
<i>Surr: 2,4,6-Tribromophenol</i>	<i>74.7</i>			<i>34-129</i>	<i>%REC</i>	<i>10</i>	<i>06-Mar-2018 21:54</i>
<i>Surr: 2,4,6-Tribromophenol</i>	<i>0</i>	<i>JS</i>		<i>34-129</i>	<i>%REC</i>	<i>100</i>	<i>07-Mar-2018 17:28</i>
<i>Surr: 2,4,6-Tribromophenol</i>	<i>0</i>	<i>JS</i>		<i>34-129</i>	<i>%REC</i>	<i>10000</i>	<i>07-Mar-2018 16:50</i>
<i>Surr: 2,4,6-Tribromophenol</i>	<i>0</i>	<i>JS</i>		<i>34-129</i>	<i>%REC</i>	<i>1000</i>	<i>07-Mar-2018 16:30</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>0</i>	<i>JS</i>		<i>40-125</i>	<i>%REC</i>	<i>10000</i>	<i>07-Mar-2018 16:50</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>57.0</i>			<i>40-125</i>	<i>%REC</i>	<i>10</i>	<i>06-Mar-2018 21:54</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>0</i>	<i>JS</i>		<i>40-125</i>	<i>%REC</i>	<i>1000</i>	<i>07-Mar-2018 16:30</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>0</i>	<i>JS</i>		<i>40-125</i>	<i>%REC</i>	<i>100</i>	<i>07-Mar-2018 17:28</i>
<i>Surr: 2-Fluorophenol</i>	<i>0</i>	<i>JS</i>		<i>20-120</i>	<i>%REC</i>	<i>100</i>	<i>07-Mar-2018 17:28</i>
<i>Surr: 2-Fluorophenol</i>	<i>0</i>	<i>JS</i>		<i>20-120</i>	<i>%REC</i>	<i>1000</i>	<i>07-Mar-2018 16:30</i>
<i>Surr: 2-Fluorophenol</i>	<i>72.3</i>			<i>20-120</i>	<i>%REC</i>	<i>10</i>	<i>06-Mar-2018 21:54</i>
<i>Surr: 2-Fluorophenol</i>	<i>0</i>	<i>JS</i>		<i>20-120</i>	<i>%REC</i>	<i>10000</i>	<i>07-Mar-2018 16:50</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Pastor, Behling & Wheeler, LLC
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-IDW-W-20180301
 Collection Date: 01-Mar-2018 13:30

ANALYTICAL REPORT
 WorkOrder:HS18030106
 Lab ID:HS18030106-01
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES		Method:SW8270			Prep:SW3510 / 05-Mar-2018		Analyst: GEY
Surr: 4-Terphenyl-d14	0	JS		40-135	%REC	10000	07-Mar-2018 16:50
Surr: 4-Terphenyl-d14	81.1			40-135	%REC	10	06-Mar-2018 21:54
Surr: 4-Terphenyl-d14	0	JS		40-135	%REC	100	07-Mar-2018 17:28
Surr: 4-Terphenyl-d14	0	JS		40-135	%REC	1000	07-Mar-2018 16:30
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	10000	07-Mar-2018 16:50
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	100	07-Mar-2018 17:28
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	1000	07-Mar-2018 16:30
Surr: Nitrobenzene-d5	93.3			41-120	%REC	10	06-Mar-2018 21:54
Surr: Phenol-d6	92.2			20-120	%REC	10	06-Mar-2018 21:54
Surr: Phenol-d6	0	JS		20-120	%REC	100	07-Mar-2018 17:28
Surr: Phenol-d6	0	JS		20-120	%REC	10000	07-Mar-2018 16:50
Surr: Phenol-d6	0	JS		20-120	%REC	1000	07-Mar-2018 16:30
LOW-LEVEL TEXAS TPH BY TX1005		Method:TX1005			Prep:TX1005PR / 06-Mar-2018		Analyst: MBG
nC6 to nC12	25		0.20	0.50	mg/L	1	07-Mar-2018 20:50
>nC12 to nC28	29		0.20	0.50	mg/L	1	07-Mar-2018 20:50
>nC28 to nC35	U		0.20	0.50	mg/L	1	07-Mar-2018 20:50
Total Petroleum Hydrocarbon	54.0		0.20	0.50	mg/L	1	07-Mar-2018 20:50
Surr: 2-Fluorobiphenyl	102			70-130	%REC	1	07-Mar-2018 20:50
Surr: Trifluoromethyl benzene	97.9			70-130	%REC	1	07-Mar-2018 20:50
ICP-MS METALS BY SW6020A		Method:SW6020			Prep:SW3010A / 05-Mar-2018		Analyst: JDE
Arsenic	0.000753	J	0.000400	0.00200	mg/L	1	06-Mar-2018 14:11
Barium	0.857		0.00190	0.00400	mg/L	1	06-Mar-2018 14:11
Cadmium	0.000492	J	0.000200	0.00200	mg/L	1	06-Mar-2018 14:11
Chromium	0.00643		0.000400	0.00400	mg/L	1	06-Mar-2018 14:11
Lead	U		0.000600	0.00200	mg/L	1	06-Mar-2018 14:11
Selenium	0.00129	J	0.00110	0.00200	mg/L	1	06-Mar-2018 14:11
Silver	U		0.000200	0.00200	mg/L	1	06-Mar-2018 14:11
MERCURY BY SW7470A		Method:SW7470			Prep:SW7470 / 05-Mar-2018		Analyst: JBA
Mercury	U		0.0000300	0.000200	mg/L	1	06-Mar-2018 10:36
SULFIDE BY SM4500 S2-F		Method:SM4500 S2-F					Analyst: JHD
Sulfide	160		100	100	mg/L	100	07-Mar-2018 17:20
FLASH POINT BY PENSKY-MARTENS SW1010A		Method:SW1010					Analyst: KAH
Ignitability	> 212		70.0	70.0	°F	1	15-Mar-2018 14:30
CYANIDE - SW9014		Method:SW9014			Prep:SW9010C / 09-Mar-2018		Analyst: SAP
Cyanide	U		0.00500	0.0200	mg/L	1	09-Mar-2018 15:50

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Pastor, Behling & Wheeler, LLC
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-IDW-W-20180301
 Collection Date: 01-Mar-2018 13:30

ANALYTICAL REPORT

WorkOrder:HS18030106
 Lab ID:HS18030106-01
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
PH BY SW9040C		Method:SW9040			Analyst: MZD		
pH	6.65	H	0.100	0.100	pH units	1	05-Mar-2018 17:09
Temp Deg C @pH	21.0	H	0	0	DEG C	1	05-Mar-2018 17:09

Note: See Qualifiers Page for a list of qualifiers and their explanation.

WEIGHT LOG

Client: Pastor, Behling & Wheeler, LLC
Project: Houston TX-Wood Preserving Works
WorkOrder: HS18030106

Batch ID: 125844 **Method:** LOW-LEVEL SEMIVOLATILES **Prep:** 3510_B_LOW

SampID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS18030106-01	1	1000	1 (mL)	0.001

Batch ID: 125856 **Method:** ICP-MS METALS BY SW6020A **Prep:** 3010A

SampID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS18030106-01	1	10	10 (mL)	1

Batch ID: 125884 **Method:** MERCURY BY SW7470A **Prep:** HG_WPR

SampID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS18030106-01	1	10	10 (mL)	1

Batch ID: 125914 **Method:** LOW-LEVEL TEXAS TPH BY TX1005 **Prep:** TX 1005_W PR

SampID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS18030106-01	1	30.28	3 (mL)	0.09908

Batch ID: 126056 **Method:** CYANIDE - SW9014 **Prep:** CN_TW_PR

SampID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS18030106-01	1	50	50 (mL)	1

Client: Pastor, Behling & Wheeler, LLC
Project: Houston TX-Wood Preserving Works
WorkOrder: HS18030106

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID 125844	Test Name : LOW-LEVEL SEMIVOLATILES			Matrix: Water		
HS18030106-01	WG-1620-IDW-W-20180301	01 Mar 2018 13:30		05 Mar 2018 14:24	07 Mar 2018 16:50	1000
HS18030106-01	WG-1620-IDW-W-20180301	01 Mar 2018 13:30		05 Mar 2018 14:24	07 Mar 2018 17:28	100
HS18030106-01	WG-1620-IDW-W-20180301	01 Mar 2018 13:30		05 Mar 2018 14:24	07 Mar 2018 16:30	1000
HS18030106-01	WG-1620-IDW-W-20180301	01 Mar 2018 13:30		05 Mar 2018 14:24	06 Mar 2018 21:54	10
Batch ID 125856	Test Name : ICP-MS METALS BY SW6020A			Matrix: Water		
HS18030106-01	WG-1620-IDW-W-20180301	01 Mar 2018 13:30		05 Mar 2018 01:20	06 Mar 2018 14:11	1
Batch ID 125884	Test Name : MERCURY BY SW7470A			Matrix: Water		
HS18030106-01	WG-1620-IDW-W-20180301	01 Mar 2018 13:30		05 Mar 2018 14:00	06 Mar 2018 10:36	1
Batch ID 125914	Test Name : LOW-LEVEL TEXAS TPH BY TX1005			Matrix: Water		
HS18030106-01	WG-1620-IDW-W-20180301	01 Mar 2018 13:30		06 Mar 2018 16:12	07 Mar 2018 20:50	1
Batch ID 126056	Test Name : CYANIDE - SW9014			Matrix: Water		
HS18030106-01	WG-1620-IDW-W-20180301	01 Mar 2018 13:30		09 Mar 2018 13:00	09 Mar 2018 15:50	1
Batch ID R311929	Test Name : PH BY SW9040C			Matrix: Water		
HS18030106-01	WG-1620-IDW-W-20180301	01 Mar 2018 13:30			05 Mar 2018 17:09	1
Batch ID R312183	Test Name : SULFIDE BY SM4500 S2-F			Matrix: Water		
HS18030106-01	WG-1620-IDW-W-20180301	01 Mar 2018 13:30			07 Mar 2018 17:20	100
Batch ID R312505	Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Water		
HS18030106-01	WG-1620-IDW-W-20180301	01 Mar 2018 13:30			15 Mar 2018 05:30	10
Batch ID R312556	Test Name : FLASH POINT BY PENSKY-MARTENS SW1010A			Matrix: Water		
HS18030106-01	WG-1620-IDW-W-20180301	01 Mar 2018 13:30			15 Mar 2018 14:30	1

Client: Pastor, Behling & Wheeler, LLC
Project: Houston TX-Wood Preserving Works
WorkOrder: HS18030106

QC BATCH REPORT

Batch ID: 125914	Instrument: FID-11	Method: TX1005
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MBLK	Sample ID: MBLK-125914	Units: mg/L	Analysis Date: 07-Mar-2018 15:30							
Client ID:	Run ID: FID-11_312141	SeqNo: 4465365	PrepDate: 06-Mar-2018 DF: 1							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual
nC6 to nC12	U	0.50								
>nC12 to nC28	U	0.50								
>nC28 to nC35	U	0.50								
Total Petroleum Hydrocarbon	U	0.50								
Surr: 2-Fluorobiphenyl	2.149	0	2.5	0	86.0	70 - 130				
Surr: Trifluoromethyl benzene	2.201	0	2.5	0	88.1	70 - 130				

LCS	Sample ID: LCS-125914	Units: mg/L	Analysis Date: 07-Mar-2018 15:59							
Client ID:	Run ID: FID-11_312141	SeqNo: 4465366	PrepDate: 06-Mar-2018 DF: 1							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual
nC6 to nC12	25.49	0.50	25	0	102	75 - 125				
>nC12 to nC28	23.79	0.50	25	0	95.2	75 - 125				
Surr: 2-Fluorobiphenyl	2.302	0	2.5	0	92.1	70 - 130				
Surr: Trifluoromethyl benzene	2.266	0	2.5	0	90.6	70 - 130				

LCSD	Sample ID: LCSD-125914	Units: mg/L	Analysis Date: 07-Mar-2018 16:28							
Client ID:	Run ID: FID-11_312141	SeqNo: 4465367	PrepDate: 06-Mar-2018 DF: 1							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual
nC6 to nC12	26.51	0.50	25	0	106	75 - 125	25.49	3.94	20	
>nC12 to nC28	24.19	0.50	25	0	96.8	75 - 125	23.79	1.66	20	
Surr: 2-Fluorobiphenyl	2.27	0	2.5	0	90.8	70 - 130	2.302	1.39	20	
Surr: Trifluoromethyl benzene	2.299	0	2.5	0	92.0	70 - 130	2.266	1.48	20	

MS	Sample ID: HS18030131-05MS	Units: mg/L	Analysis Date: 07-Mar-2018 17:26							
Client ID:	Run ID: FID-11_312141	SeqNo: 4465369	PrepDate: 06-Mar-2018 DF: 1							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual
nC6 to nC12	27.67	0.49	24.73	0	112	75 - 125				
>nC12 to nC28	25.55	0.49	24.73	0	103	75 - 125				
Surr: 2-Fluorobiphenyl	2.374	0	2.473	0	96.0	70 - 130				
Surr: Trifluoromethyl benzene	2.457	0	2.473	0	99.4	70 - 130				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Pastor, Behling & Wheeler, LLC
Project: Houston TX-Wood Preserving Works
WorkOrder: HS18030106

QC BATCH REPORT

Batch ID: 125914 **Instrument:** FID-11 **Method:** TX1005

MSD Sample ID: **HS18030131-05MSD** Units: **mg/L** Analysis Date: **07-Mar-2018 17:55**
 Client ID: Run ID: **FID-11_312141** SeqNo: **4465370** PrepDate: **06-Mar-2018** DF: **1**
 Analyte Result MQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

nC6 to nC12	26.54	0.49	24.57	0	108	75 - 125	27.67	4.2	20
>nC12 to nC28	25.75	0.49	24.57	0	105	75 - 125	25.55	0.79	20
Surr: 2-Fluorobiphenyl	2.427	0	2.457	0	98.7	70 - 130	2.374	2.18	20
Surr: Trifluoromethyl benzene	2.436	0	2.457	0	99.1	70 - 130	2.457	0.876	20

The following samples were analyzed in this batch: HS18030106-01

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Pastor, Behling & Wheeler, LLC
Project: Houston TX-Wood Preserving Works
WorkOrder: HS18030106

QC BATCH REPORT

Batch ID: 125856	Instrument: ICPMS05	Method: SW6020								
MBLK	Sample ID: MBLK-125856	Units: mg/L	Analysis Date: 05-Mar-2018 22:43							
Client ID:	Run ID: ICPMS05_311910	SeqNo: 4461183	PrepDate: 05-Mar-2018 DF: 1							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Arsenic	U	0.00200								
Barium	U	0.00400								
Cadmium	U	0.00200								
Chromium	U	0.00400								
Lead	U	0.00200								
Selenium	U	0.00200								
Silver	U	0.00200								

LCS	Sample ID: LCS-125856	Units: mg/L	Analysis Date: 05-Mar-2018 22:45							
Client ID:	Run ID: ICPMS05_311910	SeqNo: 4461184	PrepDate: 05-Mar-2018 DF: 1							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Arsenic	0.04511	0.00200	0.05	0	90.2	80 - 120				
Barium	0.04679	0.00400	0.05	0	93.6	80 - 120				
Cadmium	0.04726	0.00200	0.05	0	94.5	80 - 120				
Chromium	0.04614	0.00400	0.05	0	92.3	80 - 120				
Lead	0.04883	0.00200	0.05	0	97.7	80 - 120				
Selenium	0.05201	0.00200	0.05	0	104	80 - 120				
Silver	0.04848	0.00200	0.05	0	97.0	80 - 120				

MS	Sample ID: HS18030024-27MS	Units: mg/L	Analysis Date: 05-Mar-2018 22:51							
Client ID:	Run ID: ICPMS05_311910	SeqNo: 4461187	PrepDate: 05-Mar-2018 DF: 5							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Arsenic	0.1306	0.0100	0.05	0.08468	91.9	80 - 120				
Barium	5.158	0.0200	0.05	4.904	506	80 - 120				SO
Cadmium	0.04477	0.0100	0.05	0	89.5	80 - 120				
Chromium	0.04145	0.0200	0.05	0	82.9	80 - 120				
Lead	0.04308	0.0100	0.05	0	86.2	80 - 120				
Selenium	0.06766	0.0100	0.05	0.02215	91.0	80 - 120				
Silver	0.04453	0.0100	0.05	0	89.1	80 - 120				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Pastor, Behling & Wheeler, LLC
Project: Houston TX-Wood Preserving Works
WorkOrder: HS18030106

QC BATCH REPORT

Batch ID: 125856		Instrument: ICPMS05			Method: SW6020					
MSD		Sample ID: HS18030024-27MSD			Units: mg/L		Analysis Date: 05-Mar-2018 22:53			
Client ID:		Run ID: ICPMS05_311910			SeqNo: 4461188		PrepDate: 05-Mar-2018		DF: 5	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.1277	0.0100	0.05	0.08468	86.0	80 - 120	0.1306	2.28	20	
Barium	5.318	0.0200	0.05	4.904	827	80 - 120	5.158	3.06	20	SO
Cadmium	0.0456	0.0100	0.05	0	91.2	80 - 120	0.04477	1.84	20	
Chromium	0.04099	0.0200	0.05	0	82.0	80 - 120	0.04145	1.11	20	
Lead	0.04249	0.0100	0.05	0	85.0	80 - 120	0.04308	1.37	20	
Selenium	0.07784	0.0100	0.05	0.02215	111	80 - 120	0.06766	14	20	
Silver	0.04476	0.0100	0.05	0	89.5	80 - 120	0.04453	0.504	20	
PDS		Sample ID: HS18030024-27PDS			Units: mg/L		Analysis Date: 06-Mar-2018 13:26			
Client ID:		Run ID: ICPMS05_311963			SeqNo: 4462328		PrepDate: 05-Mar-2018		DF: 5	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.5458	0.0100	0.5	0.08468	92.2	75 - 125				
Barium	5.144	0.0200	0.5	4.904	47.9	75 - 125				SO
Cadmium	0.4526	0.0100	0.5	0	90.5	75 - 125				
Chromium	0.4432	0.0200	0.5	0	88.6	75 - 125				
Selenium	0.466	0.0100	0.5	0.02215	88.8	75 - 125				
Silver	0.4216	0.0100	0.5	0	84.3	75 - 125				
SD		Sample ID: HS18030024-27SD			Units: mg/L		Analysis Date: 06-Mar-2018 13:24			
Client ID:		Run ID: ICPMS05_311963			SeqNo: 4462327		PrepDate: 05-Mar-2018		DF: 25	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Arsenic	0.08568	0.0500					0.08468	1.17	10	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Pastor, Behling & Wheeler, LLC
Project: Houston TX-Wood Preserving Works
WorkOrder: HS18030106

QC BATCH REPORT

Batch ID: 125856	Instrument: ICPMS05	Method: SW6020								
SD	Sample ID: HS18030024-27SD	Units: mg/L	Analysis Date: 05-Mar-2018 22:49							
Client ID:	Run ID: ICPMS05_311910	SeqNo: 4461186	PrepDate: 05-Mar-2018 DF: 25							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	Limit	Qual

Barium	4.955	0.100					4.904	1.04	10	
Cadmium	U	0.0500					0.000033	0	10	
Chromium	U	0.100					-0.002057	0	10	
Lead	U	0.0500					0.00025	0	10	
Selenium	0.04001	0.0500					0.02215	0	10	J
Silver	U	0.0500					0.000367	0	10	

The following samples were analyzed in this batch: HS18030106-01

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Pastor, Behling & Wheeler, LLC
Project: Houston TX-Wood Preserving Works
WorkOrder: HS18030106

QC BATCH REPORT

Batch ID: 125884	Instrument: HG03	Method: SW7470
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MBLK	Sample ID: MBLK-125884	Units: mg/L	Analysis Date: 06-Mar-2018 09:55							
Client ID:	Run ID: HG03_311947	SeqNo: 4461339	PrepDate: 05-Mar-2018 DF: 1							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury U 0.000200

LCS	Sample ID: LCS-125884	Units: mg/L	Analysis Date: 06-Mar-2018 10:00							
Client ID:	Run ID: HG03_311947	SeqNo: 4461340	PrepDate: 05-Mar-2018 DF: 1							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury 0.00504 0.000200 0.005 0 101 80 - 120

MS	Sample ID: HS18030111-01MS	Units: mg/L	Analysis Date: 06-Mar-2018 10:09							
Client ID:	Run ID: HG03_311947	SeqNo: 4461344	PrepDate: 05-Mar-2018 DF: 1							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury 0.00509 0.000200 0.005 0.000228 97.2 75 - 125

MSD	Sample ID: HS18030111-01MSD	Units: mg/L	Analysis Date: 06-Mar-2018 10:06							
Client ID:	Run ID: HG03_311947	SeqNo: 4461343	PrepDate: 05-Mar-2018 DF: 1							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury 0.00506 0.000200 0.005 0.000228 96.6 75 - 125 0.00509 0.591 20

The following samples were analyzed in this batch: HS18030106-01

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Pastor, Behling & Wheeler, LLC
Project: Houston TX-Wood Preserving Works
WorkOrder: HS18030106

QC BATCH REPORT

Batch ID: 125844	Instrument: SV-7	Method: SW8270								
MBLK	Sample ID: MBLK-125844	Units: ug/L	Analysis Date: 06-Mar-2018 12:13							
Client ID:	Run ID: SV-7_311996	SeqNo: 4462386	PrepDate: 05-Mar-2018 DF: 1							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

1,2,4-Trichlorobenzene	U	0.20								
2,4,5-Trichlorophenol	U	0.20								
2,4,6-Trichlorophenol	U	0.20								
2,4-Dichlorophenol	U	0.20								
2,4-Dimethylphenol	U	0.20								
2,4-Dinitrophenol	U	1.0								
2,4-Dinitrotoluene	U	0.20								
2,6-Dinitrotoluene	U	0.20								
2-Chloronaphthalene	U	0.20								
2-Chlorophenol	U	0.20								
2-Methylnaphthalene	U	0.10								
2-Methylphenol	U	0.20								
2-Nitroaniline	U	0.20								
2-Nitrophenol	U	0.20								
3&4-Methylphenol	U	0.20								
3,3'-Dichlorobenzidine	U	0.20								
3-Nitroaniline	U	0.20								
4,6-Dinitro-2-methylphenol	U	0.20								
4-Bromophenyl phenyl ether	U	0.20								
4-Chloro-3-methylphenol	U	0.20								
4-Chloroaniline	U	0.20								
4-Chlorophenyl phenyl ether	U	0.20								
4-Nitroaniline	U	0.20								
4-Nitrophenol	U	1.0								
Acenaphthene	U	0.10								
Acenaphthylene	U	0.10								
Anthracene	U	0.10								
Benz(a)anthracene	U	0.10								
Benzidine	U	0.20								
Benzo(a)pyrene	U	0.10								
Benzo(b)fluoranthene	U	0.10								
Benzo(g,h,i)perylene	U	0.10								
Benzo(k)fluoranthene	U	0.10								
Benzyl alcohol	U	0.20								

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Pastor, Behling & Wheeler, LLC
Project: Houston TX-Wood Preserving Works
WorkOrder: HS18030106

QC BATCH REPORT

Batch ID: 125844	Instrument: SV-7	Method: SW8270								
MBLK Sample ID: MBLK-125844	Units: ug/L	Analysis Date: 06-Mar-2018 12:13								
Client ID:	Run ID: SV-7_311996	SeqNo: 4462386 PrepDate: 05-Mar-2018 DF: 1								
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Bis(2-chloroethoxy)methane	U	0.20								
Bis(2-chloroethyl)ether	U	0.20								
Bis(2-chloroisopropyl)ether	U	0.20								
Bis(2-ethylhexyl)phthalate	U	0.20								
Butyl benzyl phthalate	U	0.20								
Carbazole	U	0.20								
Chrysene	U	0.10								
Dibenz(a,h)anthracene	U	0.10								
Dibenzofuran	U	0.10								
Diethyl phthalate	U	0.20								
Dimethyl phthalate	U	0.20								
Di-n-butyl phthalate	U	0.20								
Di-n-octyl phthalate	U	0.20								
Fluoranthene	U	0.10								
Fluorene	U	0.10								
Hexachlorobenzene	U	0.20								
Hexachlorobutadiene	U	0.20								
Hexachlorocyclopentadiene	U	0.20								
Hexachloroethane	U	0.20								
Indeno(1,2,3-cd)pyrene	U	0.10								
Isophorone	U	0.20								
Naphthalene	U	0.10								
Nitrobenzene	U	0.20								
N-Nitrosodimethylamine	U	0.20								
N-Nitrosodi-n-propylamine	U	0.20								
N-Nitrosodiphenylamine	U	0.20								
Pentachlorophenol	U	0.20								
Phenanthrene	U	0.10								
Phenol	U	0.20								
Pyrene	U	0.10								
Surr: 2,4,6-Tribromophenol	3.46	0.20	5	0	69.2	34 - 129				
Surr: 2-Fluorobiphenyl	3.32	0.20	5	0	66.4	40 - 125				
Surr: 2-Fluorophenol	3.012	0.20	5	0	60.2	20 - 120				
Surr: 4-Terphenyl-d14	3.915	0.20	5	0	78.3	40 - 135				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Pastor, Behling & Wheeler, LLC
Project: Houston TX-Wood Preserving Works
WorkOrder: HS18030106

QC BATCH REPORT

Batch ID: 125844	Instrument: SV-7	Method: SW8270
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MBLK	Sample ID: MBLK-125844	Units: ug/L	Analysis Date: 06-Mar-2018 12:13							
Client ID:	Run ID: SV-7_311996	SeqNo: 4462386	PrepDate: 05-Mar-2018 DF: 1							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

<i>Surr: Nitrobenzene-d5</i>	2.987	0.20	5	0	59.7	41 - 120				
<i>Surr: Phenol-d6</i>	3.507	0.20	5	0	70.1	20 - 120				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Pastor, Behling & Wheeler, LLC
Project: Houston TX-Wood Preserving Works
WorkOrder: HS18030106

QC BATCH REPORT

Batch ID: 125844		Instrument: SV-7			Method: SW8270					
LCS	Sample ID: LCS-125844	Units: ug/L			Analysis Date: 06-Mar-2018 12:33					
Client ID:	Run ID: SV-7_311996	SeqNo: 4462387		PrepDate: 05-Mar-2018		DF: 1				
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	3.112	0.20	5	0	62.2	45 - 120				
2,4,5-Trichlorophenol	3.17	0.20	5	0	63.4	46 - 120				
2,4,6-Trichlorophenol	2.944	0.20	5	0	58.9	42 - 120				
2,4-Dichlorophenol	3.34	0.20	5	0	66.8	49 - 120				
2,4-Dimethylphenol	2.878	0.20	5	0	57.6	35 - 120				
2,4-Dinitrophenol	2.059	1.0	5	0	41.2	15 - 120				
2,4-Dinitrotoluene	3.272	0.20	5	0	65.4	50 - 122				
2,6-Dinitrotoluene	3.323	0.20	5	0	66.5	50 - 120				
2-Chloronaphthalene	3.121	0.20	5	0	62.4	50 - 120				
2-Chlorophenol	2.795	0.20	5	0	55.9	40 - 120				
2-Methylnaphthalene	3.155	0.10	5	0	63.1	50 - 120				
2-Methylphenol	3.117	0.20	5	0	62.3	45 - 120				
2-Nitroaniline	3.936	0.20	5	0	78.7	28 - 139				
2-Nitrophenol	3.055	0.20	5	0	61.1	40 - 120				
3&4-Methylphenol	3.053	0.20	5	0	61.1	35 - 120				
3,3'-Dichlorobenzidine	3.166	0.20	5	0	63.3	15 - 120				
3-Nitroaniline	2.989	0.20	5	0	59.8	30 - 120				
4,6-Dinitro-2-methylphenol	3.03	0.20	5	0	60.6	25 - 121				
4-Bromophenyl phenyl ether	3.066	0.20	5	0	61.3	45 - 120				
4-Chloro-3-methylphenol	3.246	0.20	5	0	64.9	47 - 120				
4-Chloroaniline	2.98	0.20	5	0	59.6	20 - 120				
4-Chlorophenyl phenyl ether	3.094	0.20	5	0	61.9	50 - 120				
4-Nitroaniline	2.813	0.20	5	0	56.3	30 - 133				
4-Nitrophenol	3.173	1.0	5	0	63.5	30 - 130				
Acenaphthene	2.879	0.10	5	0	57.6	45 - 120				
Acenaphthylene	3.169	0.10	5	0	63.4	47 - 120				
Anthracene	3.277	0.10	5	0	65.5	45 - 120				
Benz(a)anthracene	3.341	0.10	5	0	66.8	40 - 120				
Benzidine	0.624	0.20	5	0	12.5	10 - 120				
Benzo(a)pyrene	3.373	0.10	5	0	67.5	45 - 120				
Benzo(b)fluoranthene	3.445	0.10	5	0	68.9	50 - 120				
Benzo(g,h,i)perylene	3.103	0.10	5	0	62.1	42 - 127				
Benzo(k)fluoranthene	3.543	0.10	5	0	70.9	45 - 127				
Benzyl alcohol	3.204	0.20	5	0	64.1	35 - 122				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Pastor, Behling & Wheeler, LLC
Project: Houston TX-Wood Preserving Works
WorkOrder: HS18030106

QC BATCH REPORT

Batch ID: 125844		Instrument: SV-7		Method: SW8270						
LCS	Sample ID: LCS-125844	Units: ug/L			Analysis Date: 06-Mar-2018 12:33					
Client ID:	Run ID: SV-7_311996	SeqNo: 4462387	PrepDate: 05-Mar-2018	DF: 1						
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bis(2-chloroethoxy)methane	2.98	0.20	5	0	59.6	45 - 120				
Bis(2-chloroethyl)ether	3.338	0.20	5	0	66.8	37 - 121				
Bis(2-chloroisopropyl)ether	2.815	0.20	5	0	56.3	40 - 120				
Bis(2-ethylhexyl)phthalate	3.584	0.20	5	0	71.7	40 - 139				
Butyl benzyl phthalate	3.615	0.20	5	0	72.3	47 - 123				
Carbazole	3.272	0.20	5	0	65.4	42 - 128				
Chrysene	3.581	0.10	5	0	71.6	43 - 120				
Dibenz(a,h)anthracene	3.206	0.10	5	0	64.1	45 - 125				
Dibenzofuran	3.069	0.10	5	0	61.4	50 - 120				
Diethyl phthalate	3.255	0.20	5	0	65.1	41 - 120				
Dimethyl phthalate	3.169	0.20	5	0	63.4	40 - 122				
Di-n-butyl phthalate	3.38	0.20	5	0	67.6	45 - 123				
Di-n-octyl phthalate	3.451	0.20	5	0	69.0	45 - 129				
Fluoranthene	3.323	0.10	5	0	66.5	45 - 125				
Fluorene	3.137	0.10	5	0	62.7	49 - 120				
Hexachlorobenzene	3.261	0.20	5	0	65.2	48 - 120				
Hexachlorobutadiene	3.02	0.20	5	0	60.4	40 - 120				
Hexachlorocyclopentadiene	2.16	0.20	5	0	43.2	34 - 136				
Hexachloroethane	2.905	0.20	5	0	58.1	40 - 120				
Indeno(1,2,3-cd)pyrene	3.576	0.10	5	0	71.5	41 - 128				
Isophorone	3.122	0.20	5	0	62.4	40 - 121				
Naphthalene	3.041	0.10	5	0	60.8	45 - 120				
Nitrobenzene	2.939	0.20	5	0	58.8	44 - 120				
N-Nitrosodimethylamine	2.664	0.20	5	0	53.3	30 - 121				
N-Nitrosodi-n-propylamine	3.016	0.20	5	0	60.3	40 - 120				
N-Nitrosodiphenylamine	3.159	0.20	5	0	63.2	40 - 125				
Pentachlorophenol	2.068	0.20	5	0	41.4	19 - 121				
Phenanthrene	3.121	0.10	5	0	62.4	45 - 121				
Phenol	2.627	0.20	5	0	52.5	20 - 124				
Pyrene	3.451	0.10	5	0	69.0	40 - 130				
Surr: 2,4,6-Tribromophenol	3.737	0.20	5	0	74.7	34 - 129				
Surr: 2-Fluorobiphenyl	3.311	0.20	5	0	66.2	40 - 125				
Surr: 2-Fluorophenol	2.552	0.20	5	0	51.0	20 - 120				
Surr: 4-Terphenyl-d14	3.654	0.20	5	0	73.1	40 - 135				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Pastor, Behling & Wheeler, LLC
Project: Houston TX-Wood Preserving Works
WorkOrder: HS18030106

QC BATCH REPORT

Batch ID: 125844	Instrument: SV-7	Method: SW8270
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LCS	Sample ID: LCS-125844	Units: ug/L	Analysis Date: 06-Mar-2018 12:33						
Client ID:	Run ID: SV-7_311996	SeqNo: 4462387	PrepDate: 05-Mar-2018 DF: 1						
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
<i>Surr: Nitrobenzene-d5</i>	2.953	0.20	5	0	59.1	41 - 120			
<i>Surr: Phenol-d6</i>	3.186	0.20	5	0	63.7	20 - 120			

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Pastor, Behling & Wheeler, LLC
Project: Houston TX-Wood Preserving Works
WorkOrder: HS18030106

QC BATCH REPORT

Batch ID: 125844		Instrument: SV-7			Method: SW8270					
LCSD		Sample ID: LCSD-125844			Units: ug/L		Analysis Date: 06-Mar-2018 12:52			
Client ID:		Run ID: SV-7_311996			SeqNo: 4462388		PrepDate: 05-Mar-2018		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	3.566	0.20	5	0	71.3	45 - 120	3.112	13.6	20	
2,4,5-Trichlorophenol	3.587	0.20	5	0	71.7	46 - 120	3.17	12.3	20	
2,4,6-Trichlorophenol	3.47	0.20	5	0	69.4	42 - 120	2.944	16.4	20	
2,4-Dichlorophenol	3.785	0.20	5	0	75.7	49 - 120	3.34	12.5	20	
2,4-Dimethylphenol	3.428	0.20	5	0	68.6	35 - 120	2.878	17.4	20	
2,4-Dinitrophenol	2.175	1.0	5	0	43.5	15 - 120	2.059	5.51	50	
2,4-Dinitrotoluene	3.791	0.20	5	0	75.8	50 - 122	3.272	14.7	20	
2,6-Dinitrotoluene	3.999	0.20	5	0	80.0	50 - 120	3.323	18.5	20	
2-Chloronaphthalene	4.147	0.20	5	0	82.9	50 - 120	3.121	28.2	20	R
2-Chlorophenol	2.926	0.20	5	0	58.5	40 - 120	2.795	4.55	20	
2-Methylnaphthalene	3.648	0.10	5	0	73.0	50 - 120	3.155	14.5	20	
2-Methylphenol	3.372	0.20	5	0	67.4	45 - 120	3.117	7.89	20	
2-Nitroaniline	4.487	0.20	5	0	89.7	28 - 139	3.936	13.1	20	
2-Nitrophenol	3.522	0.20	5	0	70.4	40 - 120	3.055	14.2	20	
3&4-Methylphenol	3.466	0.20	5	0	69.3	35 - 120	3.053	12.7	20	
3,3'-Dichlorobenzidine	3.65	0.20	5	0	73.0	15 - 120	3.166	14.2	20	
3-Nitroaniline	3.427	0.20	5	0	68.5	30 - 120	2.989	13.7	20	
4,6-Dinitro-2-methylphenol	3.386	0.20	5	0	67.7	25 - 121	3.03	11.1	30	
4-Bromophenyl phenyl ether	3.67	0.20	5	0	73.4	45 - 120	3.066	18	20	
4-Chloro-3-methylphenol	3.687	0.20	5	0	73.7	47 - 120	3.246	12.7	20	
4-Chloroaniline	3.404	0.20	5	0	68.1	20 - 120	2.98	13.3	20	
4-Chlorophenyl phenyl ether	3.66	0.20	5	0	73.2	50 - 120	3.094	16.7	20	
4-Nitroaniline	3.215	0.20	5	0	64.3	30 - 133	2.813	13.3	20	
4-Nitrophenol	3.621	1.0	5	0	72.4	30 - 130	3.173	13.2	20	
Acenaphthene	3.393	0.10	5	0	67.9	45 - 120	2.879	16.4	20	
Acenaphthylene	3.74	0.10	5	0	74.8	47 - 120	3.169	16.5	20	
Anthracene	3.774	0.10	5	0	75.5	45 - 120	3.277	14.1	20	
Benz(a)anthracene	3.699	0.10	5	0	74.0	40 - 120	3.341	10.2	20	
Benzdine	0.7244	0.20	5	0	14.5	10 - 120	0.624	14.9	30	
Benzo(a)pyrene	3.903	0.10	5	0	78.1	45 - 120	3.373	14.6	20	
Benzo(b)fluoranthene	3.981	0.10	5	0	79.6	50 - 120	3.445	14.4	20	
Benzo(g,h,i)perylene	3.693	0.10	5	0	73.9	42 - 127	3.103	17.4	20	
Benzo(k)fluoranthene	4.259	0.10	5	0	85.2	45 - 127	3.543	18.4	20	
Benzyl alcohol	3.568	0.20	5	0	71.4	35 - 122	3.204	10.7	20	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Pastor, Behling & Wheeler, LLC
Project: Houston TX-Wood Preserving Works
WorkOrder: HS18030106

QC BATCH REPORT

Batch ID: 125844		Instrument: SV-7			Method: SW8270					
LCSD		Sample ID: LCSD-125844			Units: ug/L		Analysis Date: 06-Mar-2018 12:52			
Client ID:		Run ID: SV-7_311996			SeqNo: 4462388		PrepDate: 05-Mar-2018		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bis(2-chloroethoxy)methane	3.521	0.20	5	0	70.4	45 - 120	2.98	16.6	20	
Bis(2-chloroethyl)ether	3.468	0.20	5	0	69.4	37 - 121	3.338	3.81	20	
Bis(2-chloroisopropyl)ether	3.175	0.20	5	0	63.5	40 - 120	2.815	12	20	
Bis(2-ethylhexyl)phthalate	4.001	0.20	5	0	80.0	40 - 139	3.584	11	20	
Butyl benzyl phthalate	3.931	0.20	5	0	78.6	47 - 123	3.615	8.38	20	
Carbazole	3.777	0.20	5	0	75.5	42 - 128	3.272	14.3	20	
Chrysene	3.979	0.10	5	0	79.6	43 - 120	3.581	10.5	20	
Dibenz(a,h)anthracene	3.966	0.10	5	0	79.3	45 - 125	3.206	21.2	20	R
Dibenzofuran	3.702	0.10	5	0	74.0	50 - 120	3.069	18.7	20	
Diethyl phthalate	3.733	0.20	5	0	74.7	41 - 120	3.255	13.7	20	
Dimethyl phthalate	3.736	0.20	5	0	74.7	40 - 122	3.169	16.4	20	
Di-n-butyl phthalate	3.899	0.20	5	0	78.0	45 - 123	3.38	14.3	20	
Di-n-octyl phthalate	4.011	0.20	5	0	80.2	45 - 129	3.451	15	20	
Fluoranthene	3.803	0.10	5	0	76.1	45 - 125	3.323	13.5	20	
Fluorene	3.717	0.10	5	0	74.3	49 - 120	3.137	16.9	20	
Hexachlorobenzene	3.847	0.20	5	0	76.9	48 - 120	3.261	16.5	20	
Hexachlorobutadiene	3.545	0.20	5	0	70.9	40 - 120	3.02	16	20	
Hexachlorocyclopentadiene	2.535	0.20	5	0	50.7	34 - 136	2.16	16	20	
Hexachloroethane	3.288	0.20	5	0	65.8	40 - 120	2.905	12.4	20	
Indeno(1,2,3-cd)pyrene	4.018	0.10	5	0	80.4	41 - 128	3.576	11.6	20	
Isophorone	3.607	0.20	5	0	72.1	40 - 121	3.122	14.4	20	
Naphthalene	3.504	0.10	5	0	70.1	45 - 120	3.041	14.2	20	
Nitrobenzene	3.459	0.20	5	0	69.2	44 - 120	2.939	16.3	20	
N-Nitrosodimethylamine	2.608	0.20	5	0	52.2	30 - 121	2.664	2.13	20	
N-Nitrosodi-n-propylamine	3.396	0.20	5	0	67.9	40 - 120	3.016	11.9	20	
N-Nitrosodiphenylamine	3.798	0.20	5	0	76.0	40 - 125	3.159	18.4	20	
Pentachlorophenol	2.508	0.20	5	0	50.2	19 - 121	2.068	19.2	20	
Phenanthrene	3.659	0.10	5	0	73.2	45 - 121	3.121	15.9	20	
Phenol	2.83	0.20	5	0	56.6	20 - 124	2.627	7.45	20	
Pyrene	3.848	0.10	5	0	77.0	40 - 130	3.451	10.9	20	
Surr: 2,4,6-Tribromophenol	3.953	0.20	5	0	79.1	34 - 129	3.737	5.6	20	
Surr: 2-Fluorobiphenyl	3.713	0.20	5	0	74.3	40 - 125	3.311	11.5	20	
Surr: 2-Fluorophenol	2.642	0.20	5	0	52.8	20 - 120	2.552	3.5	20	
Surr: 4-Terphenyl-d14	4.004	0.20	5	0	80.1	40 - 135	3.654	9.16	20	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Pastor, Behling & Wheeler, LLC
Project: Houston TX-Wood Preserving Works
WorkOrder: HS18030106

QC BATCH REPORT

Batch ID: 125844		Instrument: SV-7		Method: SW8270						
LCSD	Sample ID: LCSD-125844	Units: ug/L			Analysis Date: 06-Mar-2018 12:52					
Client ID:	Run ID: SV-7_311996	SeqNo: 4462388		PrepDate: 05-Mar-2018		DF: 1				
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

<i>Surr: Nitrobenzene-d5</i>	3.406	0.20	5	0	68.1	41 - 120	2.953	14.3	20
<i>Surr: Phenol-d6</i>	3.344	0.20	5	0	66.9	20 - 120	3.186	4.85	20

The following samples were analyzed in this batch: HS18030106-01

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Pastor, Behling & Wheeler, LLC
Project: Houston TX-Wood Preserving Works
WorkOrder: HS18030106

QC BATCH REPORT

Batch ID: R312505 **Instrument:** VOA2 **Method:** SW8260

MBLK		Sample ID: VBLKW-180314			Units: ug/L		Analysis Date: 14-Mar-2018 23:29			
Client ID:		Run ID: VOA2_312505			SeqNo: 4474303		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	1.0								
Ethylbenzene	U	1.0								
Toluene	U	1.0								
Xylenes, Total	U	1.0								
<i>Surr: 1,2-Dichloroethane-d4</i>	41.3	1.0	50	0	82.6	70 - 123				
<i>Surr: 4-Bromofluorobenzene</i>	48.83	1.0	50	0	97.7	82 - 115				
<i>Surr: Dibromofluoromethane</i>	43.52	1.0	50	0	87.0	73 - 126				
<i>Surr: Toluene-d8</i>	52.3	1.0	50	0	105	81 - 120				

LCS		Sample ID: VLCSW-180314			Units: ug/L		Analysis Date: 14-Mar-2018 22:40			
Client ID:		Run ID: VOA2_312505			SeqNo: 4474301		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	44.76	1.0	50	0	89.5	74 - 120				
Ethylbenzene	48.96	1.0	50	0	97.9	77 - 117				
Toluene	41.92	1.0	50	0	83.8	77 - 118				
Xylenes, Total	129.4	1.0	150	0	86.3	75 - 122				
<i>Surr: 1,2-Dichloroethane-d4</i>	43.16	1.0	50	0	86.3	70 - 130				
<i>Surr: 4-Bromofluorobenzene</i>	49.77	1.0	50	0	99.5	82 - 115				
<i>Surr: Dibromofluoromethane</i>	41.15	1.0	50	0	82.3	73 - 126				
<i>Surr: Toluene-d8</i>	50.79	1.0	50	0	102	81 - 120				

MS		Sample ID: HS18030487-17MS			Units: ug/L		Analysis Date: 15-Mar-2018 00:43			
Client ID:		Run ID: VOA2_312505			SeqNo: 4474306		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	127.9	1.0	50	88.11	79.6	70 - 127				
Ethylbenzene	82.92	1.0	50	35.61	94.6	70 - 124				
Toluene	43.02	1.0	50	0.3989	85.3	70 - 123				
Xylenes, Total	194.7	1.0	150	72.02	81.8	70 - 130				
<i>Surr: 1,2-Dichloroethane-d4</i>	42.27	1.0	50	0	84.5	70 - 126				
<i>Surr: 4-Bromofluorobenzene</i>	49.49	1.0	50	0	99.0	81 - 113				
<i>Surr: Dibromofluoromethane</i>	41.15	1.0	50	0	82.3	77 - 123				
<i>Surr: Toluene-d8</i>	49.97	1.0	50	0	99.9	82 - 127				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Pastor, Behling & Wheeler, LLC
Project: Houston TX-Wood Preserving Works
WorkOrder: HS18030106

QC BATCH REPORT

Batch ID: R312505		Instrument: VOA2		Method: SW8260						
MSD	Sample ID: HS18030487-17MSD	Units: ug/L			Analysis Date: 15-Mar-2018 01:08					
Client ID:	Run ID: VOA2_312505	SeqNo: 4474307		PrepDate:		DF: 1				
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	124.7	1.0	50	88.11	73.3	70 - 127	127.9	2.52	20	
Ethylbenzene	80.38	1.0	50	35.61	89.6	70 - 124	82.92	3.11	20	
Toluene	41.55	1.0	50	0.3989	82.3	70 - 123	43.02	3.48	20	
Xylenes, Total	187.7	1.0	150	72.02	77.1	70 - 130	194.7	3.69	20	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>44.2</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>88.4</i>	<i>70 - 126</i>	<i>42.27</i>	<i>4.46</i>	<i>20</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>50.48</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>81 - 113</i>	<i>49.49</i>	<i>1.98</i>	<i>20</i>	
<i>Surr: Dibromofluoromethane</i>	<i>41.46</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>82.9</i>	<i>77 - 123</i>	<i>41.15</i>	<i>0.753</i>	<i>20</i>	
<i>Surr: Toluene-d8</i>	<i>50.49</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>82 - 127</i>	<i>49.97</i>	<i>1.04</i>	<i>20</i>	

The following samples were analyzed in this batch: HS18030106-01

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Pastor, Behling & Wheeler, LLC
Project: Houston TX-Wood Preserving Works
WorkOrder: HS18030106

QC BATCH REPORT

Batch ID: 126056		Instrument: UV-2450		Method: SW9014					
MBLK	Sample ID: MBLK-126056	Units: mg/L		Analysis Date: 09-Mar-2018 15:50					
Client ID:	Run ID: UV-2450_312263	SeqNo: 4468103		PrepDate: 09-Mar-2018		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	
Cyanide	U	0.00500							
LCS	Sample ID: LCS-126056	Units: mg/L		Analysis Date: 09-Mar-2018 15:50					
Client ID:	Run ID: UV-2450_312263	SeqNo: 4468101		PrepDate: 09-Mar-2018		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	
Cyanide	0.172	0.00500	0.2	0	86.0	80 - 120			
LCSD	Sample ID: LCSD-126056	Units: mg/L		Analysis Date: 09-Mar-2018 15:50					
Client ID:	Run ID: UV-2450_312263	SeqNo: 4468102		PrepDate: 09-Mar-2018		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	
Cyanide	0.176	0.00500	0.2	0	88.0	80 - 120	0.172	2.3 20	
MS	Sample ID: HS18030260-01MS	Units: mg/L		Analysis Date: 09-Mar-2018 15:50					
Client ID:	Run ID: UV-2450_312263	SeqNo: 4468099		PrepDate: 09-Mar-2018		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	
Cyanide	0.181	0.00500	0.2	0.008	86.5	80 - 120			
MSD	Sample ID: HS18030260-01MSD	Units: mg/L		Analysis Date: 09-Mar-2018 15:50					
Client ID:	Run ID: UV-2450_312263	SeqNo: 4468100		PrepDate: 09-Mar-2018		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	
Cyanide	0.186	0.00500	0.2	0.008	89.0	80 - 120	0.181	2.72 20	

The following samples were analyzed in this batch: HS18030106-01

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Pastor, Behling & Wheeler, LLC
Project: Houston TX-Wood Preserving Works
WorkOrder: HS18030106

QC BATCH REPORT

Batch ID: R311929	Instrument: WetChem_HS	Method: SW9040
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DUP	Sample ID: HS18030122-02DUP	Units: pH units	Analysis Date: 05-Mar-2018 17:09							
Client ID:	Run ID: WetChem_HS_311929	SeqNo: 4461784	PrepDate: DF: 1							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH	9.12	0.100					9.11	0.11	10	
Temp Deg C @pH	20.8	0					20.9	0.48	10	

The following samples were analyzed in this batch: HS18030106-01

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Pastor, Behling & Wheeler, LLC
Project: Houston TX-Wood Preserving Works
WorkOrder: HS18030106

QC BATCH REPORT

Batch ID: R312183	Instrument: WetChem_HS	Method: SM4500 S2-F
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MBLK	Sample ID: MBLK-312183	Units: mg/L	Analysis Date: 07-Mar-2018 17:20							
Client ID:	Run ID: WetChem_HS_312183	SeqNo: 4466003	PrepDate: DF: 1							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Sulfide U 1.00

LCS	Sample ID: LCS-312183	Units: mg/L	Analysis Date: 07-Mar-2018 17:20							
Client ID:	Run ID: WetChem_HS_312183	SeqNo: 4466004	PrepDate: DF: 1							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Sulfide 23 1.00 25 0 92.0 85 - 115

LCSD	Sample ID: LCSD-312183	Units: mg/L	Analysis Date: 07-Mar-2018 17:20							
Client ID:	Run ID: WetChem_HS_312183	SeqNo: 4466005	PrepDate: DF: 1							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Sulfide 22.8 1.00 25 0 91.2 85 - 115 23 0.873 20

MS	Sample ID: HS18030005-02MS	Units: mg/L	Analysis Date: 07-Mar-2018 17:20							
Client ID:	Run ID: WetChem_HS_312183	SeqNo: 4466007	PrepDate: DF: 1							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Sulfide 23.2 1.00 25 1.6 86.4 80 - 120

The following samples were analyzed in this batch: HS18030106-01

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Pastor, Behling & Wheeler, LLC
Project: Houston TX-Wood Preserving Works
WorkOrder: HS18030106

QC BATCH REPORT

Batch ID: R312556	Instrument: WetChem_HS	Method: SW1010
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LCS	Sample ID: LCS-R312556	Units: °F	Analysis Date: 15-Mar-2018 14:30							
Client ID:	Run ID: WetChem_HS_312556	SeqNo: 4475177	PrepDate: DF: 1							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Ignitability	82.6	70.0	81	0	102	95 - 105
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DUP	Sample ID: HS18030115-02DUP	Units: °F	Analysis Date: 15-Mar-2018 14:30							
Client ID:	Run ID: WetChem_HS_312556	SeqNo: 4475178	PrepDate: DF: 1							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Ignitability	> 212	70.0					0	0	20
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The following samples were analyzed in this batch:

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Pastor, Behling & Wheeler, LLC
Project: Houston TX-Wood Preserving Works
WorkOrder: HS18030106

**QUALIFIERS,
ACRONYMS, UNITS**

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	17-027-0	27-Mar-2018
California	2919 2016-2018	31-Jul-2018
Illinois	004112	09-May-2018
Kentucky	123043	30-Apr-2018
Louisiana	03087 2017-2017	30-Jun-2018
North Dakota	R193 2017-2017	30-Apr-2018
Oklahoma	2017-088	31-Aug-2018
Texas	T104704231-17-19	30-Apr-2018
North Carolina	624-2018	31-Dec-2018

Sample Receipt Checklist

Client Name: PBW
 Work Order: HS18030106

Date/Time Received: **02-Mar-2018 09:00**
 Received by: **NDR**

Checklist completed by: Paresh M. Giga 2-Mar-2018 Reviewed by: Dane J. Wacasey 3-Mar-2018
 eSignature Date eSignature Date

Matrices: **Water** Carrier name: **Client**

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- TX1005 solids received in hermetically sealed vials? Yes No N/A
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s): 1.0c/0.4c U/C IR25
 Cooler(s)/Kit(s): 25018
 Date/Time sample(s) sent to storage: 3/2/18 14:45

- Water - VOA vials have zero headspace? Yes No No VOA vials submitted
- Water - pH acceptable upon receipt? Yes No N/A
- pH adjusted? Yes No N/A
- pH adjusted by:

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:



Cincinnati, OH
+1 513 733 5336

Fort Collins, CO
+1 970 490 1511

Everett, WA
+1 425 356 2600

Holland, MI
+1 616 399 6070

Chain of Custody Form

Houston, TX
+1 281 530 5656

Spring City, PA
+1 610 948 4903

South Charleston, WV
+1 304 356 3168

Middletown, PA
+1 717 944 5541

Salt Lake City, UT
+1 801 266 7700

York, PA
+1 717 505 5280

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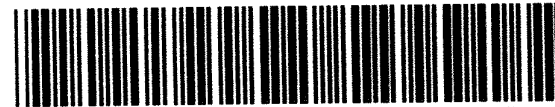
COC ID: 173532

Customer Information		Project Information		ALS Project Manager:		ALS Work Order #:	
Purchase Order		Project Name		Parameter/Method Request for Analysis			
UPRR/Kevin Peterburs		Houston TX-Wood Preserving Works		A	8260_LL_W (5652652 Volatiles BTEX (IDW))		
Work Order		(IDW) 1620-06-Rev0 92688 Union		B	TX1005_W_Low (5643233 TPH TX1005)		
Company Name	Pastor, Behling & Wheeler, LLC	Bill To Company	Pacific Railroad- A/P Accounts	C	8270_LOW_W (5632532 SVOC (IDW))		
Send Report To	Eric Matzner	Invoice Attn	Payable	D	1311_METALS_HS (5640672 5652643 TCLP RCRA 8)-IDWS		
Address	2201 Double Creek Drive Suite 4004	Address	1400 Douglas Street Stop 0750	E	ICP_TW (5652643 RCRA 8 Metals (IDWW))		
				F	CN_TW_9014 (5652638 Cyanide - RCI)-IDWW		
City/State/Zip	Round Rock, TX 78664	City/State/Zip	Omaha NE 681790750	G	SULFD_4500S F (5652638 Sulfide - RCI)-IDWW		
Phone	(512) 671-3434	Phone		H	pH_W_9040C (5635957 pH - RCI)-IDWW		
Fax	(512) 671-3446	Fax		I	IGN_W (5652637 Ignitability - RCI)-IDWW		
e-Mail Address	eric.matzner@pbwllc.com	e-Mail Address		J			

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	WG-1620-IDW-W-20180301	3-1-18	1330	W			X	X	X	X	X	X	X	X	X		
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

HS18030106

Pastor, Behling & Wheeler, LLC
Houston TX-Wood Preserving Works



Sampler(s) Please Print & Sign <i>John Beaton</i>		Shipment Method HAND DELIVERED <input checked="" type="checkbox"/>		Required Turnaround Time: (Check Box)		Results Due Date:	
Relinquished by: <i>John Beaton</i>		Date: 3-2-18	Time: 09:00	Received by: NR	STD 10 Wk Days <input type="checkbox"/>	5 Wk Days <input type="checkbox"/>	2 Wk Days <input type="checkbox"/>
Relinquished by:		Date:	Time:	Received by (Laboratory):	Notes: UPRR Houston MWPW		
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):	Cooler ID: 25018	Cooler Temp: 4/6	QC Package: (Check One Box Below)
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035						<input checked="" type="checkbox"/> Level II Std QC <input type="checkbox"/> Level III Std QC/Raw Date <input type="checkbox"/> Level IV SW846/CLP <input type="checkbox"/> Other	

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.

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