



20-Jul-2010

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

Tel: (512) 671-3434  
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Re: Waste Characterization

Work Order: **1007064**

Dear Eric,

ALS Laboratory Group received 2 samples on 01-Jul-2010 01:36 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Laboratory Group 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 Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 23.

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

Sincerely,

A handwritten signature in black ink that reads "R. Kevin Given".

Electronically approved by: R. Kevin Given

R. Kevin Given  
Project Manager



Certificate No: TX: T104704231-10-3

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**Client:** Pastor, Behling & Wheeler, LLC  
**Project:** Waste Characterization  
**Work Order:** 1007064

**Work Order Sample Summary**

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<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1007064-01	HWPW-DC-1	Soil		7/1/2010 06:30	7/1/2010 13:36	<input type="checkbox"/>
1007064-02	HWPW-DC-2	Soil		7/1/2010 06:10	7/1/2010 13:36	<input type="checkbox"/>

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**Client:** Pastor, Behling & Wheeler, LLC  
**Project:** Waste Characterization  
**Work Order:** 1007064

**Case Narrative**

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Batch 44227, Low-Level Semivolatiles: Sample HWPW-DC-2 [ALS# 1007064-02] could not be analyzed at lower dilution due to the high concentration of target and non-target SVOCs.

Client: Pastor, Behling & Wheeler, LLC

Project: Waste Characterization

Work Order: 1007064

Sample ID: HWPW-DC-1

Lab ID: 1007064-01

Collection Date: 7/1/2010 06:30 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TEXAS TPH</b>			<b>TX1005</b>		Prep Date: <b>7/2/2010</b>	Analyst: <b>SE</b>
nC6 to nC12	U		49	mg/Kg	1	7/2/2010 11:48 PM
>nC12 to nC28	U		49	mg/Kg	1	7/2/2010 11:48 PM
>nC28 to nC35	U		49	mg/Kg	1	7/2/2010 11:48 PM
Total Petroleum Hydrocarbon	U		49	mg/Kg	1	7/2/2010 11:48 PM
Surr: 2-Fluorobiphenyl	76.8		70-130	%REC	1	7/2/2010 11:48 PM
Surr: Trifluoromethyl benzene	92.9		70-130	%REC	1	7/2/2010 11:48 PM
<b>BTEX</b>			<b>SW8021B</b>			Analyst: <b>KKP</b>
Benzene	U		1.0	µg/Kg	1	7/3/2010 01:39 AM
<b>Toluene</b>	<b>0.46</b>	J	<b>1.0</b>	<b>µg/Kg</b>	1	7/3/2010 01:39 AM
Ethylbenzene	U		1.0	µg/Kg	1	7/3/2010 01:39 AM
<b>Xylenes, Total</b>	<b>1.4</b>	J	<b>3.0</b>	<b>µg/Kg</b>	1	7/3/2010 01:39 AM
Surr: 4-Bromofluorobenzene	87.5		75-131	%REC	1	7/3/2010 01:39 AM
Surr: Trifluorotoluene	87.6		73-130	%REC	1	7/3/2010 01:39 AM
<b>TCLP SEMIVOLATILES</b>			<b>SW1311/8270</b>		Prep Date: <b>7/7/2010</b>	Analyst: <b>ACN</b>
2,4,5-Trichlorophenol	U		5.0	µg/L	1	7/8/2010 03:27 PM
2,4,6-Trichlorophenol	U		5.0	µg/L	1	7/8/2010 03:27 PM
2,4-Dinitrotoluene	U		5.0	µg/L	1	7/8/2010 03:27 PM
Cresols, Total	U		15	µg/L	1	7/8/2010 03:27 PM
Hexachlorobenzene	U		5.0	µg/L	1	7/8/2010 03:27 PM
Hexachlorobutadiene	U		5.0	µg/L	1	7/8/2010 03:27 PM
Hexachloroethane	U		5.0	µg/L	1	7/8/2010 03:27 PM
Nitrobenzene	U		5.0	µg/L	1	7/8/2010 03:27 PM
Pentachlorophenol	U		5.0	µg/L	1	7/8/2010 03:27 PM
Pyridine	U		5.0	µg/L	1	7/8/2010 03:27 PM
Surr: 2,4,6-Tribromophenol	77.2		42-124	%REC	1	7/8/2010 03:27 PM
Surr: 2-Fluorobiphenyl	85.0		48-120	%REC	1	7/8/2010 03:27 PM
Surr: 2-Fluorophenol	69.0		20-120	%REC	1	7/8/2010 03:27 PM
Surr: 4-Terphenyl-d14	87.8		51-135	%REC	1	7/8/2010 03:27 PM
Surr: Nitrobenzene-d5	81.4		41-120	%REC	1	7/8/2010 03:27 PM
Surr: Phenol-d6	70.9		20-120	%REC	1	7/8/2010 03:27 PM
<b>LOW-LEVEL SEMIVOLATILES</b>			<b>SW8270</b>		Prep Date: <b>7/2/2010</b>	Analyst: <b>LG</b>
1,2-Diphenylhydrazine	U		6.6	µg/Kg	1	7/15/2010 01:07 PM
2,4-Dimethylphenol	U		6.6	µg/Kg	1	7/15/2010 01:07 PM
2,4-Dinitrotoluene	U		6.6	µg/Kg	1	7/15/2010 01:07 PM
2,6-Dinitrotoluene	U		6.6	µg/Kg	1	7/15/2010 01:07 PM
2-Chloronaphthalene	U		6.6	µg/Kg	1	7/15/2010 01:07 PM
2-Methylnaphthalene	U		6.6	µg/Kg	1	7/15/2010 01:07 PM

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

**Client:** Pastor, Behling & Wheeler, LLC

**Project:** Waste Characterization

**Work Order:** 1007064

**Sample ID:** HWPW-DC-1

**Lab ID:** 1007064-01

**Collection Date:** 7/1/2010 06:30 AM

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4,6-Dinitro-2-methylphenol	U		6.6	µg/Kg	1	7/15/2010 01:07 PM
4-Nitrophenol	U		33	µg/Kg	1	7/15/2010 01:07 PM
Acenaphthene	U		6.6	µg/Kg	1	7/15/2010 01:07 PM
Acenaphthylene	U		6.6	µg/Kg	1	7/15/2010 01:07 PM
<b>Anthracene</b>	<b>4.4</b>	J	<b>6.6</b>	<b>µg/Kg</b>	1	7/15/2010 01:07 PM
<b>Benz(a)anthracene</b>	<b>13</b>		<b>6.6</b>	<b>µg/Kg</b>	1	7/15/2010 01:07 PM
<b>Benzo(a)pyrene</b>	<b>18</b>		<b>6.6</b>	<b>µg/Kg</b>	1	7/15/2010 01:07 PM
Bis(2-chloroethoxy)methane	U		6.6	µg/Kg	1	7/15/2010 01:07 PM
<b>Bis(2-ethylhexyl)phthalate</b>	<b>16</b>		<b>6.6</b>	<b>µg/Kg</b>	1	7/15/2010 01:07 PM
<b>Chrysene</b>	<b>18</b>		<b>6.6</b>	<b>µg/Kg</b>	1	7/15/2010 01:07 PM
<b>Di-n-butyl phthalate</b>	<b>2.7</b>	J	<b>6.6</b>	<b>µg/Kg</b>	1	7/15/2010 01:07 PM
Dibenzofuran	U		6.6	µg/Kg	1	7/15/2010 01:07 PM
<b>Fluoranthene</b>	<b>34</b>		<b>6.6</b>	<b>µg/Kg</b>	1	7/15/2010 01:07 PM
Fluorene	U		6.6	µg/Kg	1	7/15/2010 01:07 PM
N-Nitrosodiphenylamine	U		6.6	µg/Kg	1	7/15/2010 01:07 PM
<b>Naphthalene</b>	<b>4.1</b>	J	<b>6.6</b>	<b>µg/Kg</b>	1	7/15/2010 01:07 PM
Nitrobenzene	U		6.6	µg/Kg	1	7/15/2010 01:07 PM
<b>Pentachlorophenol</b>	<b>12</b>		<b>6.6</b>	<b>µg/Kg</b>	1	7/15/2010 01:07 PM
<b>Phenanthrene</b>	<b>13</b>		<b>6.6</b>	<b>µg/Kg</b>	1	7/15/2010 01:07 PM
Phenol	U		6.6	µg/Kg	1	7/15/2010 01:07 PM
<b>Pyrene</b>	<b>24</b>		<b>6.6</b>	<b>µg/Kg</b>	1	7/15/2010 01:07 PM
<i>Surr: 2,4,6-Tribromophenol</i>	82.0		36-126	%REC	1	7/15/2010 01:07 PM
<i>Surr: 2-Fluorobiphenyl</i>	64.4		43-125	%REC	1	7/15/2010 01:07 PM
<i>Surr: 2-Fluorophenol</i>	59.8		37-125	%REC	1	7/15/2010 01:07 PM
<i>Surr: 4-Terphenyl-d14</i>	67.4		32-125	%REC	1	7/15/2010 01:07 PM
<i>Surr: Nitrobenzene-d5</i>	64.6		37-125	%REC	1	7/15/2010 01:07 PM
<i>Surr: Phenol-d6</i>	62.4		40-125	%REC	1	7/15/2010 01:07 PM
<b>REACTIVE CYANIDE</b>			<b>SW-846</b>			Analyst: <b>HN</b>
Reactive Cyanide	U	n	40.0	mg/Kg	1	7/9/2010 09:00 AM
<b>REACTIVE SULFIDE</b>			<b>SW-846</b>			Analyst: <b>HN</b>
Reactive Sulfide	U	n	40.0	mg/Kg	1	7/9/2010 09:00 AM
<b>IGNITABILITY</b>			<b>SW1030</b>			Analyst: <b>JLC</b>
Ignitability, Solid	<b>Negative</b>			no unit	1	7/12/2010
<b>PH</b>			<b>SW9045B</b>			Analyst: <b>IAB</b>
pH	<b>6.96</b>		<b>0.100</b>	pH Units	1	7/7/2010 05:30 PM

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

Client: Pastor, Behling & Wheeler, LLC

Project: Waste Characterization

Work Order: 1007064

Sample ID: HWPW-DC-2

Lab ID: 1007064-02

Collection Date: 7/1/2010 06:10 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TEXAS TPH</b>			<b>TX1005</b>		Prep Date: <b>7/2/2010</b>	Analyst: <b>SE</b>
nC6 to nC12	U		49	mg/Kg	1	7/3/2010 12:19 AM
>nC12 to nC28	U		49	mg/Kg	1	7/3/2010 12:19 AM
>nC28 to nC35	U		49	mg/Kg	1	7/3/2010 12:19 AM
Total Petroleum Hydrocarbon	U		49	mg/Kg	1	7/3/2010 12:19 AM
Surr: 2-Fluorobiphenyl	86.6		70-130	%REC	1	7/3/2010 12:19 AM
Surr: Trifluoromethyl benzene	106		70-130	%REC	1	7/3/2010 12:19 AM
<b>BTEX</b>			<b>SW8021B</b>			Analyst: <b>KKP</b>
Benzene	U		1.0	µg/Kg	1	7/3/2010 01:19 AM
Toluene	U		1.0	µg/Kg	1	7/3/2010 01:19 AM
Ethylbenzene	U		1.0	µg/Kg	1	7/3/2010 01:19 AM
Xylenes, Total	U		3.0	µg/Kg	1	7/3/2010 01:19 AM
Surr: 4-Bromofluorobenzene	75.3		75-131	%REC	1	7/3/2010 01:19 AM
Surr: Trifluorotoluene	83.7		73-130	%REC	1	7/3/2010 01:19 AM
<b>TCLP SEMIVOLATILES</b>			<b>SW1311/8270</b>		Prep Date: <b>7/7/2010</b>	Analyst: <b>ACN</b>
2,4,5-Trichlorophenol	U		5.0	µg/L	1	7/8/2010 03:49 PM
2,4,6-Trichlorophenol	U		5.0	µg/L	1	7/8/2010 03:49 PM
2,4-Dinitrotoluene	U		5.0	µg/L	1	7/8/2010 03:49 PM
Cresols, Total	U		15	µg/L	1	7/8/2010 03:49 PM
Hexachlorobenzene	U		5.0	µg/L	1	7/8/2010 03:49 PM
Hexachlorobutadiene	U		5.0	µg/L	1	7/8/2010 03:49 PM
Hexachloroethane	U		5.0	µg/L	1	7/8/2010 03:49 PM
Nitrobenzene	U		5.0	µg/L	1	7/8/2010 03:49 PM
Pentachlorophenol	U		5.0	µg/L	1	7/8/2010 03:49 PM
Pyridine	U		5.0	µg/L	1	7/8/2010 03:49 PM
Surr: 2,4,6-Tribromophenol	85.8		42-124	%REC	1	7/8/2010 03:49 PM
Surr: 2-Fluorobiphenyl	82.5		48-120	%REC	1	7/8/2010 03:49 PM
Surr: 2-Fluorophenol	67.8		20-120	%REC	1	7/8/2010 03:49 PM
Surr: 4-Terphenyl-d14	84.3		51-135	%REC	1	7/8/2010 03:49 PM
Surr: Nitrobenzene-d5	79.6		41-120	%REC	1	7/8/2010 03:49 PM
Surr: Phenol-d6	68.5		20-120	%REC	1	7/8/2010 03:49 PM
<b>LOW-LEVEL SEMIVOLATILES</b>			<b>SW8270</b>		Prep Date: <b>7/2/2010</b>	Analyst: <b>LG</b>
1,2-Diphenylhydrazine	U		200	µg/Kg	10	7/15/2010 08:43 PM
<b>2,4-Dimethylphenol</b>	<b>110</b>	J	<b>200</b>	<b>µg/Kg</b>	10	7/15/2010 08:43 PM
2,4-Dinitrotoluene	U		200	µg/Kg	10	7/15/2010 08:43 PM
2,6-Dinitrotoluene	U		200	µg/Kg	10	7/15/2010 08:43 PM
2-Chloronaphthalene	U		200	µg/Kg	10	7/15/2010 08:43 PM
<b>2-Methylnaphthalene</b>	<b>130</b>	J	<b>200</b>	<b>µg/Kg</b>	10	7/15/2010 08:43 PM

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

Client: Pastor, Behling & Wheeler, LLC

Project: Waste Characterization

Work Order: 1007064

Sample ID: HWPW-DC-2

Lab ID: 1007064-02

Collection Date: 7/1/2010 06:10 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4,6-Dinitro-2-methylphenol	U		200	µg/Kg	10	7/15/2010 08:43 PM
4-Nitrophenol	U		990	µg/Kg	10	7/15/2010 08:43 PM
<b>Acenaphthene</b>	<b>180</b>	J	<b>200</b>	<b>µg/Kg</b>	10	7/15/2010 08:43 PM
<b>Acenaphthylene</b>	<b>2,300</b>		<b>200</b>	<b>µg/Kg</b>	10	7/15/2010 08:43 PM
<b>Anthracene</b>	<b>6,000</b>		<b>200</b>	<b>µg/Kg</b>	10	7/15/2010 08:43 PM
<b>Benz(a)anthracene</b>	<b>2,600</b>		<b>200</b>	<b>µg/Kg</b>	10	7/15/2010 08:43 PM
<b>Benzo(a)pyrene</b>	<b>5,000</b>		<b>200</b>	<b>µg/Kg</b>	10	7/15/2010 08:43 PM
Bis(2-chloroethoxy)methane	U		200	µg/Kg	10	7/15/2010 08:43 PM
<b>Bis(2-ethylhexyl)phthalate</b>	<b>780</b>		<b>200</b>	<b>µg/Kg</b>	10	7/15/2010 08:43 PM
<b>Chrysene</b>	<b>3,900</b>		<b>200</b>	<b>µg/Kg</b>	10	7/15/2010 08:43 PM
Di-n-butyl phthalate	U		200	µg/Kg	10	7/15/2010 08:43 PM
<b>Dibenzofuran</b>	<b>170</b>	J	<b>200</b>	<b>µg/Kg</b>	10	7/15/2010 08:43 PM
<b>Fluoranthene</b>	<b>5,100</b>		<b>200</b>	<b>µg/Kg</b>	10	7/15/2010 08:43 PM
<b>Fluorene</b>	<b>310</b>		<b>200</b>	<b>µg/Kg</b>	10	7/15/2010 08:43 PM
N-Nitrosodiphenylamine	U		200	µg/Kg	10	7/15/2010 08:43 PM
<b>Naphthalene</b>	<b>500</b>		<b>200</b>	<b>µg/Kg</b>	10	7/15/2010 08:43 PM
Nitrobenzene	U		200	µg/Kg	10	7/15/2010 08:43 PM
<b>Pentachlorophenol</b>	<b>570</b>		<b>200</b>	<b>µg/Kg</b>	10	7/15/2010 08:43 PM
<b>Phenanthrene</b>	<b>1,100</b>		<b>200</b>	<b>µg/Kg</b>	10	7/15/2010 08:43 PM
<b>Phenol</b>	<b>440</b>		<b>200</b>	<b>µg/Kg</b>	10	7/15/2010 08:43 PM
<b>Pyrene</b>	<b>5,800</b>		<b>200</b>	<b>µg/Kg</b>	10	7/15/2010 08:43 PM
Surr: 2,4,6-Tribromophenol	115		36-126	%REC	10	7/15/2010 08:43 PM
Surr: 2-Fluorobiphenyl	79.6		43-125	%REC	10	7/15/2010 08:43 PM
Surr: 2-Fluorophenol	58.8		37-125	%REC	10	7/15/2010 08:43 PM
Surr: 4-Terphenyl-d14	101		32-125	%REC	10	7/15/2010 08:43 PM
Surr: Nitrobenzene-d5	78.1		37-125	%REC	10	7/15/2010 08:43 PM
Surr: Phenol-d6	65.9		40-125	%REC	10	7/15/2010 08:43 PM
<b>REACTIVE CYANIDE</b>			<b>SW-846</b>			Analyst: <b>HN</b>
Reactive Cyanide	U	n	40.0	mg/Kg	1	7/9/2010 09:00 AM
<b>REACTIVE SULFIDE</b>			<b>SW-846</b>			Analyst: <b>HN</b>
Reactive Sulfide	U	n	40.0	mg/Kg	1	7/9/2010 09:00 AM
<b>IGNITABILITY</b>			<b>SW1030</b>			Analyst: <b>JLC</b>
Ignitability, Solid	<b>Negative</b>			no unit	1	7/12/2010
<b>PH</b>			<b>SW9045B</b>			Analyst: <b>IAB</b>
pH	<b>7.50</b>		<b>0.100</b>	pH Units	1	7/7/2010 05:30 PM

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

**WorkOrder:** 1007064  
**Test Code:** 1311\_SV  
**Test Number:** SW1311/8270  
**Test Name:** TCLP Semivolatiles

**METHOD DETECTION /  
 REPORTING LIMITS**

**Matrix:** Leachate      **Units:** µg/L

Type	Analyte	CAS	MDL	PQL
A	2,4,5-Trichlorophenol	95-95-4	0.9	5
A	2,4,6-Trichlorophenol	88-06-2	1.4	5
A	2,4-Dinitrotoluene	121-14-2	1	5
A	Cresols, Total	1319-77-3	2	15
A	Hexachlorobenzene	118-74-1	1.1	5
A	Hexachlorobutadiene	87-68-3	1.1	5
A	Hexachloroethane	67-72-1	1	5
A	Nitrobenzene	98-95-3	0.8	5
A	Pentachlorophenol	87-86-5	1.6	5
A	Pyridine	110-86-1	2	5
S	Surr: 2,4,6-Tribromophenol	118-79-6	0	5
S	Surr: 2-Fluorobiphenyl	321-60-8	0	5
S	Surr: 2-Fluorophenol	367-12-4	0	5
S	Surr: 4-Terphenyl-d14	1718-51-0	0	5
S	Surr: Nitrobenzene-d5	4165-60-0	0	5
S	Surr: Phenol-d6	13127-88-3	0	5



WorkOrder: 1007064

Test Code: 8270\_LOW\_S

Test Number: SW8270

Test Name: Low-Level Semivolatiles

**METHOD DETECTION /  
REPORTING LIMITS**

Matrix: Solid

Units: µg/Kg

Type	Analyte	CAS	MDL	PQL
A	1,2-Diphenylhydrazine	122-66-7	2.2	6.6
A	2,4-Dimethylphenol	105-67-9	3.3	6.6
A	2,4-Dinitrotoluene	121-14-2	3.3	6.6
A	2,6-Dinitrotoluene	606-20-2	3.2	6.6
A	2-Chloronaphthalene	91-58-7	4.1	6.6
A	2-Methylnaphthalene	91-57-6	2.7	6.6
A	4,6-Dinitro-2-methylphenol	534-52-1	3.3	6.6
A	4-Nitrophenol	100-02-7	3.8	33
A	Acenaphthene	83-32-9	2.2	6.6
A	Acenaphthylene	208-96-8	2.2	6.6
A	Anthracene	120-12-7	2.2	6.6
A	Benz(a)anthracene	56-55-3	2.8	6.6
A	Benzo(a)pyrene	50-32-8	2.3	6.6
A	Bis(2-chloroethoxy)methane	111-91-1	2.4	6.6
A	Bis(2-ethylhexyl)phthalate	117-81-7	6.6	6.6
A	Chrysene	218-01-9	2.9	6.6
A	Di-n-butyl phthalate	84-74-2	2.5	6.6
A	Dibenzofuran	132-64-9	2.2	6.6
A	Fluoranthene	206-44-0	2.2	6.6
A	Fluorene	86-73-7	2.2	6.6
A	N-Nitrosodiphenylamine	86-30-6	2.2	6.6
A	Naphthalene	91-20-3	3.3	6.6
A	Nitrobenzene	98-95-3	3.3	6.6
A	Pentachlorophenol	87-86-5	2.8	6.6
A	Phenanthrene	85-01-8	3	6.6
A	Phenol	108-95-2	3.3	6.6
A	Pyrene	129-00-0	2.2	6.6
S	Surr: 2,4,6-Tribromophenol	118-79-6	0	6.6
S	Surr: 2-Fluorobiphenyl	321-60-8	0	6.6
S	Surr: 2-Fluorophenol	367-12-4	0	6.6
S	Surr: 4-Terphenyl-d14	1718-51-0	0	6.6
S	Surr: Nitrobenzene-d5	4165-60-0	0	6.6
S	Surr: Phenol-d6	13127-88-3	0	6.6

**WorkOrder:** 1007064  
**Test Code:** BTEX\_S  
**Test Number:** SW8021B  
**Test Name:** BTEX

**METHOD DETECTION /  
 REPORTING LIMITS**

**Matrix:** Solid                      **Units:** µg/Kg

Type	Analyte	CAS	MDL	PQL
A	Benzene	71-43-2	0.2	1
A	Ethylbenzene	100-41-4	0.3	1
A	Toluene	108-88-3	0.4	1
M	Xylenes, Total	1330-20-7	0.5	3
S	Surr: 4-Bromofluorobenzene	460-00-4	0.3	1
S	Surr: Trifluorotoluene	98-08-8	0.3	1

**WorkOrder:** 1007064  
**Test Code:** IGN\_S 1030  
**Test Number:** SW1030  
**Test Name:** Ignitability

**METHOD DETECTION /  
REPORTING LIMITS**

**Matrix:** Solid Waste      **Units:** no unit

Type	Analyte	CAS	MDL	PQL
A	Ignitability, Solid	IGNIT		

**WorkOrder:** 1007064  
**Test Code:** PH\_S  
**Test Number:** SW9045B  
**Test Name:** pH

**METHOD DETECTION /  
REPORTING LIMITS**

**Matrix:** Solid                      **Units:** pH Units

Type	Analyte	CAS	MDL	PQL
A	pH	PH	0.1	0.1

**WorkOrder:** 1007064

**Test Code:** RCN\_S

**Test Number:** SW-846

**Test Name:** Reactive Cyanide

**METHOD DETECTION /  
REPORTING LIMITS**

**Matrix:** Solid

**Units:** mg/Kg

Type	Analyte	CAS	MDL	PQL
A	Reactive Cyanide	RCN	23	40

**WorkOrder:** 1007064

**Test Code:** RS\_S

**Test Number:** SW-846

**Test Name:** Reactive Sulfide

**METHOD DETECTION /  
REPORTING LIMITS**

**Matrix:** Solid

**Units:** mg/Kg

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<b>Type</b>	<b>Analyte</b>	<b>CAS</b>	<b>MDL</b>	<b>PQL</b>
A	Reactive Sulfide	RS	14	40

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**WorkOrder:** 1007064  
**Test Code:** TX1005\_S\_REV3  
**Test Number:** TX1005  
**Test Name:** Texas TPH

**METHOD DETECTION /  
 REPORTING LIMITS**

**Matrix:** Solid                      **Units:** mg/Kg

Type	Analyte	CAS	MDL	PQL
A	>nC12 to nC28	TPHDRO	16	50
A	>nC28 to nC35	10W40MOTO	16	50
A	nC6 to nC12	TPHGRO	16	50
M	Total Petroleum Hydrocarbon	TPH	16	50
S	Surr: 2-Fluorobiphenyl	321-60-8	0	0
S	Surr: Trifluoromethyl benzene	98-08-8	0	0

ALS Laboratory Group

Date: 20-Jul-10

**Client:** Pastor, Behling & Wheeler, LLC  
**Work Order:** 1007064  
**Project:** Waste Characterization

**QC BATCH REPORT**

Batch ID: **44248** Instrument ID **FID-12** Method: **TX1005**

MBLK		Sample ID: <b>FBLKS1-100702-44248</b>			Units: <b>mg/Kg</b>			Analysis Date: <b>7/2/2010 04:52 PM</b>		
Client ID:		Run ID: <b>FID-12_100702A</b>			SeqNo: <b>2017740</b>			Prep Date: <b>7/2/2010</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	U	50								
>nC12 to nC28	U	50								
>nC28 to nC35	U	50								
Total Petroleum Hydrocarbon	U	50								
<i>Surr: 2-Fluorobiphenyl</i>	22.09	0	25	0	88.3	70-130	0			
<i>Surr: Trifluoromethyl benzene</i>	22.94	0	25	0	91.8	70-130	0			

LCS		Sample ID: <b>FLCSS1-100702-2-44248</b>			Units: <b>mg/Kg</b>			Analysis Date: <b>7/2/2010 06:28 PM</b>		
Client ID:		Run ID: <b>FID-12_100702A</b>			SeqNo: <b>2017747</b>			Prep Date: <b>7/2/2010</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	200.3	50	250	0	80.1	75-125	0			
>nC12 to nC28	237.4	50	250	0	95	75-125	0			
<i>Surr: 2-Fluorobiphenyl</i>	24.81	0	25	0	99.3	70-130	0			
<i>Surr: Trifluoromethyl benzene</i>	22.15	0	25	0	88.6	70-130	0			

LCS		Sample ID: <b>FLCSS1-100702-44248</b>			Units: <b>mg/Kg</b>			Analysis Date: <b>7/2/2010 05:24 PM</b>		
Client ID:		Run ID: <b>FID-12_100702A</b>			SeqNo: <b>2017782</b>			Prep Date: <b>7/2/2010</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	199	50	250	0	79.6	75-125	0			
>nC12 to nC28	226.7	50	250	0	90.7	75-125	0			
<i>Surr: 2-Fluorobiphenyl</i>	23.29	0	25	0	93.2	70-130	0			
<i>Surr: Trifluoromethyl benzene</i>	23.59	0	25	0	94.4	70-130	0			

LCSD		Sample ID: <b>FLCSDS1-100702-44248</b>			Units: <b>mg/Kg</b>			Analysis Date: <b>7/2/2010 05:56 PM</b>		
Client ID:		Run ID: <b>FID-12_100702A</b>			SeqNo: <b>2017744</b>			Prep Date: <b>7/2/2010</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	196.9	50	250	0	78.8	75-125	199	1.04	20	
>nC12 to nC28	228	50	250	0	91.2	75-125	226.7	0.587	20	
<i>Surr: 2-Fluorobiphenyl</i>	25.57	0	25	0	102	70-130	23.29	9.33	20	
<i>Surr: Trifluoromethyl benzene</i>	23.26	0	25	0	93.1	70-130	23.59	1.39	20	

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



**Client:** Pastor, Behling & Wheeler, LLC  
**Work Order:** 1007064  
**Project:** Waste Characterization

# QC BATCH REPORT

Batch ID: **44248**      Instrument ID **FID-12**      Method: **TX1005**

LCSD		Sample ID: <b>FLCSDS1-100702-2-44248</b>			Units: <b>mg/Kg</b>		Analysis Date: <b>7/2/2010 06:59 PM</b>			
Client ID:		Run ID: <b>FID-12_100702A</b>			SeqNo: <b>2017749</b>		Prep Date: <b>7/2/2010</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	208.8	50	250	0	83.5	75-125	200.3	4.19	20	
>nC12 to nC28	246.7	50	250	0	98.7	75-125	237.4	3.85	20	
<i>Surr: 2-Fluorobiphenyl</i>	26.25	0	25	0	105	70-130	24.81	5.62	20	
<i>Surr: Trifluoromethyl benzene</i>	22.83	0	25	0	91.3	70-130	22.15	3.04	20	

MS		Sample ID: <b>1007042-01AMS</b>			Units: <b>mg/Kg</b>		Analysis Date: <b>7/2/2010 08:04 PM</b>			
Client ID:		Run ID: <b>FID-12_100702A</b>			SeqNo: <b>2017754</b>		Prep Date: <b>7/2/2010</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	220	49	246.5	17.26	82.2	75-125	0			
>nC12 to nC28	245.1	49	246.5	3.539	98	75-125	0			
<i>Surr: 2-Fluorobiphenyl</i>	26.82	0	24.65	0	109	70-130	0			
<i>Surr: Trifluoromethyl benzene</i>	24.41	0	24.65	0	99	70-130	0			

MSD		Sample ID: <b>1007042-01AMSD</b>			Units: <b>mg/Kg</b>		Analysis Date: <b>7/2/2010 08:36 PM</b>			
Client ID:		Run ID: <b>FID-12_100702A</b>			SeqNo: <b>2017755</b>		Prep Date: <b>7/2/2010</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	223	49	246.5	17.26	83.5	75-125	220	1.35	20	
>nC12 to nC28	255.4	49	246.5	3.539	102	75-125	245.1	4.13	20	
<i>Surr: 2-Fluorobiphenyl</i>	26.47	0	24.65	0	107	70-130	26.82	1.33	20	
<i>Surr: Trifluoromethyl benzene</i>	24.24	0	24.65	0	98.3	70-130	24.41	0.701	20	

**The following samples were analyzed in this batch:**      1007064-01B      1007064-02B

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

Client: Pastor, Behling & Wheeler, LLC  
 Work Order: 1007064  
 Project: Waste Characterization

# QC BATCH REPORT

Batch ID: **R93638** Instrument ID **BTEX3** Method: **SW8021B**

MBLK		Sample ID: <b>BBLKS1-070210-R93638</b>			Units: <b>µg/Kg</b>			Analysis Date: <b>7/2/2010 05:18 PM</b>		
Client ID:		Run ID: <b>BTEX3_100702A</b>			SeqNo: <b>2018407</b>			Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	1.0								
Toluene	U	1.0								
Ethylbenzene	U	1.0								
Xylenes, Total	U	3.0								
<i>Surr: 4-Bromofluorobenzene</i>	24.54	1.0	30	0	81.8	75-131	0			
<i>Surr: Trifluorotoluene</i>	24.56	1.0	30	0	81.9	73-130	0			

LCS		Sample ID: <b>BLCSS1-070210-R93638</b>			Units: <b>µg/Kg</b>			Analysis Date: <b>7/2/2010 04:27 PM</b>		
Client ID:		Run ID: <b>BTEX3_100702A</b>			SeqNo: <b>2018406</b>			Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.9	1.0	20	0	99.5	74-129	0			
Toluene	19.89	1.0	20	0	99.4	75-128	0			
Ethylbenzene	19.93	1.0	20	0	99.7	73-127	0			
Xylenes, Total	60.36	3.0	60	0	101	74-127	0			
<i>Surr: 4-Bromofluorobenzene</i>	27.51	1.0	30	0	91.7	75-131	0			
<i>Surr: Trifluorotoluene</i>	26.09	1.0	30	0	87	73-130	0			

MS		Sample ID: <b>1007063-01AMS</b>			Units: <b>µg/Kg</b>			Analysis Date: <b>7/2/2010 10:58 PM</b>		
Client ID:		Run ID: <b>BTEX3_100702A</b>			SeqNo: <b>2018420</b>			Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.53	1.0	20	0	103	74-129	0			
Toluene	20.21	1.0	20	0	101	75-128	0			
Ethylbenzene	19.89	1.0	20	0	99.4	73-127	0			
Xylenes, Total	60.48	3.0	60	0	101	74-127	0			
<i>Surr: 4-Bromofluorobenzene</i>	28.61	1.0	30	0	95.4	75-131	0			
<i>Surr: Trifluorotoluene</i>	27.25	1.0	30	0	90.8	73-130	0			

MSD		Sample ID: <b>1007063-01AMSD</b>			Units: <b>µg/Kg</b>			Analysis Date: <b>7/2/2010 11:18 PM</b>		
Client ID:		Run ID: <b>BTEX3_100702A</b>			SeqNo: <b>2018422</b>			Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.78	1.0	20	0	104	74-129	20.53	1.18	30	
Toluene	20.85	1.0	20	0	104	75-128	20.21	3.09	30	
Ethylbenzene	20.57	1.0	20	0	103	73-127	19.89	3.35	30	
Xylenes, Total	62.78	3.0	60	0	105	74-127	60.48	3.73	30	
<i>Surr: 4-Bromofluorobenzene</i>	28.51	1.0	30	0	95	75-131	28.61	0.333	30	
<i>Surr: Trifluorotoluene</i>	27.63	1.0	30	0	92.1	73-130	27.25	1.39	30	

The following samples were analyzed in this batch: 1007064-01A 1007064-02A

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

**Client:** Pastor, Behling & Wheeler, LLC  
**Work Order:** 1007064  
**Project:** Waste Characterization

# QC BATCH REPORT

Batch ID: **44227**      Instrument ID **SV-6**      Method: **SW8270**

**MBLK**      Sample ID: **SBLKS2-100702-44227**      Units: **µg/Kg**      Analysis Date: **7/15/2010 12:26 PM**

Client ID:      Run ID: **SV-6\_100715A**      SeqNo: **2030269**      Prep Date: **7/2/2010**      DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Diphenylhydrazine	U	6.6								
2,4-Dimethylphenol	U	6.6								
2,4-Dinitrotoluene	U	6.6								
2,6-Dinitrotoluene	U	6.6								
2-Chloronaphthalene	U	6.6								
2-Methylnaphthalene	U	6.6								
4,6-Dinitro-2-methylphenol	U	6.6								
4-Nitrophenol	U	33								
Acenaphthene	U	6.6								
Acenaphthylene	U	6.6								
Anthracene	U	6.6								
Benz(a)anthracene	U	6.6								
Benzo(a)pyrene	U	6.6								
Bis(2-chloroethoxy)methane	U	6.6								
Bis(2-ethylhexyl)phthalate	U	6.6								
Chrysene	U	6.6								
Di-n-butyl phthalate	U	6.6								
Dibenzofuran	U	6.6								
Fluoranthene	U	6.6								
Fluorene	U	6.6								
N-Nitrosodiphenylamine	U	6.6								
Naphthalene	U	6.6								
Nitrobenzene	U	6.6								
Pentachlorophenol	U	6.6								
Phenanthrene	U	6.6								
Phenol	U	6.6								
Pyrene	U	6.6								
<i>Surr: 2,4,6-Tribromophenol</i>	<i>126.2</i>	<i>6.6</i>	<i>166.7</i>	<i>0</i>	<i>75.7</i>	<i>36-126</i>	<i>0</i>			
<i>Surr: 2-Fluorobiphenyl</i>	<i>129.8</i>	<i>6.6</i>	<i>166.7</i>	<i>0</i>	<i>77.9</i>	<i>43-125</i>	<i>0</i>			
<i>Surr: 2-Fluorophenol</i>	<i>116.8</i>	<i>6.6</i>	<i>166.7</i>	<i>0</i>	<i>70.1</i>	<i>37-125</i>	<i>0</i>			
<i>Surr: 4-Terphenyl-d14</i>	<i>131.2</i>	<i>6.6</i>	<i>166.7</i>	<i>0</i>	<i>78.7</i>	<i>32-125</i>	<i>0</i>			
<i>Surr: Nitrobenzene-d5</i>	<i>132.9</i>	<i>6.6</i>	<i>166.7</i>	<i>0</i>	<i>79.7</i>	<i>37-125</i>	<i>0</i>			
<i>Surr: Phenol-d6</i>	<i>118.1</i>	<i>6.6</i>	<i>166.7</i>	<i>0</i>	<i>70.9</i>	<i>40-125</i>	<i>0</i>			

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

Client: Pastor, Behling & Wheeler, LLC  
 Work Order: 1007064  
 Project: Waste Characterization

# QC BATCH REPORT

Batch ID: 44227 Instrument ID SV-6 Method: SW8270

LCS		Sample ID: SLCSS2-100702-44227			Units: µg/Kg		Analysis Date: 7/15/2010 12:45 PM			
Client ID:		Run ID: SV-6_100715A			SeqNo: 2030270		Prep Date: 7/2/2010		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Diphenylhydrazine	124.7	6.6	166.7	0	74.8	50-135	0			
2,4-Dimethylphenol	97.05	6.6	166.7	0	58.2	45-120	0			
2,4-Dinitrotoluene	141.5	6.6	166.7	0	84.9	50-130	0			
2,6-Dinitrotoluene	143.5	6.6	166.7	0	86.1	50-125	0			
2-Chloronaphthalene	155.5	6.6	166.7	0	93.3	50-145	0			
2-Methylnaphthalene	133.1	6.6	166.7	0	79.8	50-120	0			
4,6-Dinitro-2-methylphenol	118.2	6.6	166.7	0	70.9	15-135	0			
4-Nitrophenol	133.9	33	166.7	0	80.4	40-147	0			
Acenaphthene	123.8	6.6	166.7	0	74.3	50-120	0			
Acenaphthylene	135.2	6.6	166.7	0	81.1	50-120	0			
Anthracene	139.9	6.6	166.7	0	84	50-123	0			
Benz(a)anthracene	129.8	6.6	166.7	0	77.9	50-131	0			
Benzo(a)pyrene	146.4	6.6	166.7	0	87.8	50-130	0			
Bis(2-chloroethoxy)methane	129.1	6.6	166.7	0	77.5	50-120	0			
Bis(2-ethylhexyl)phthalate	141.2	6.6	166.7	0	84.7	21-148	0			
Chrysene	146.4	6.6	166.7	0	87.8	50-130	0			
Di-n-butyl phthalate	156.1	6.6	166.7	0	93.7	50-140	0			
Dibenzofuran	125.9	6.6	166.7	0	75.5	50-125	0			
Fluoranthene	142	6.6	166.7	0	85.2	50-131	0			
Fluorene	130.2	6.6	166.7	0	78.1	50-125	0			
N-Nitrosodiphenylamine	128.1	6.6	166.7	0	76.9	50-130	0			
Naphthalene	133.1	6.6	166.7	0	79.9	50-125	0			
Nitrobenzene	129.6	6.6	166.7	0	77.8	50-125	0			
Pentachlorophenol	108.2	6.6	166.7	0	64.9	23-136	0			
Phenanthrene	128.4	6.6	166.7	0	77.1	50-125	0			
Phenol	129	6.6	166.7	0	77.4	45-130	0			
Pyrene	130.3	6.6	166.7	0	78.2	45-130	0			
<i>Surr: 2,4,6-Tribromophenol</i>	<i>136.1</i>	<i>6.6</i>	<i>166.7</i>	<i>0</i>	<i>81.7</i>	<i>36-126</i>	<i>0</i>			
<i>Surr: 2-Fluorobiphenyl</i>	<i>119.9</i>	<i>6.6</i>	<i>166.7</i>	<i>0</i>	<i>72</i>	<i>43-125</i>	<i>0</i>			
<i>Surr: 2-Fluorophenol</i>	<i>119</i>	<i>6.6</i>	<i>166.7</i>	<i>0</i>	<i>71.4</i>	<i>37-125</i>	<i>0</i>			
<i>Surr: 4-Terphenyl-d14</i>	<i>111.7</i>	<i>6.6</i>	<i>166.7</i>	<i>0</i>	<i>67</i>	<i>32-125</i>	<i>0</i>			
<i>Surr: Nitrobenzene-d5</i>	<i>117.2</i>	<i>6.6</i>	<i>166.7</i>	<i>0</i>	<i>70.3</i>	<i>37-125</i>	<i>0</i>			
<i>Surr: Phenol-d6</i>	<i>120</i>	<i>6.6</i>	<i>166.7</i>	<i>0</i>	<i>72</i>	<i>40-125</i>	<i>0</i>			

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

Client: Pastor, Behling & Wheeler, LLC  
 Work Order: 1007064  
 Project: Waste Characterization

# QC BATCH REPORT

Batch ID: 44227 Instrument ID SV-6 Method: SW8270

MS Sample ID: 1007064-01CMS Units: µg/Kg Analysis Date: 7/15/2010 01:26 PM  
 Client ID: HWPW-DC-1 Run ID: SV-6\_100715A SeqNo: 2030272 Prep Date: 7/2/2010 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Diphenylhydrazine	123.7	6.6	166.6	0	74.3	50-135	0			
2,4-Dimethylphenol	118.6	6.6	166.6	0	71.2	45-120	0			
2,4-Dinitrotoluene	142.3	6.6	166.6	0	85.4	50-130	0			
2,6-Dinitrotoluene	137.1	6.6	166.6	0	82.3	50-125	0			
2-Chloronaphthalene	136.4	6.6	166.6	0	81.9	50-145	0			
2-Methylnaphthalene	117	6.6	166.6	0	70.2	50-120	0			
4,6-Dinitro-2-methylphenol	119.9	6.6	166.6	0	72	15-135	0			
4-Nitrophenol	124	33	166.6	0	74.5	40-147	0			
Acenaphthene	117.1	6.6	166.6	0	70.3	50-120	0			
Acenaphthylene	122.9	6.6	166.6	0	73.8	50-120	0			
Anthracene	130.1	6.6	166.6	4.395	75.5	50-123	0			
Benz(a)anthracene	145.6	6.6	166.6	12.72	79.8	50-131	0			
Benzo(a)pyrene	156.7	6.6	166.6	17.93	83.3	50-130	0			
Bis(2-chloroethoxy)methane	114	6.6	166.6	0	68.4	50-120	0			
Bis(2-ethylhexyl)phthalate	148.2	6.6	166.6	16.08	79.3	21-148	0			
Chrysene	160	6.6	166.6	17.85	85.3	50-130	0			
Di-n-butyl phthalate	152.2	6.6	166.6	2.675	89.7	50-140	0			
Dibenzofuran	118.1	6.6	166.6	0	70.9	50-125	0			
Fluoranthene	169	6.6	166.6	33.77	81.2	50-131	0			
Fluorene	124.3	6.6	166.6	0	74.6	50-125	0			
N-Nitrosodiphenylamine	129.4	6.6	166.6	0	77.7	50-130	0			
Naphthalene	118.8	6.6	166.6	4.136	68.9	50-125	0			
Nitrobenzene	114.3	6.6	166.6	0	68.6	50-125	0			
Pentachlorophenol	128.8	6.6	166.6	11.7	70.3	23-136	0			
Phenanthrene	134.9	6.6	166.6	12.52	73.5	50-125	0			
Phenol	113.6	6.6	166.6	0	68.2	45-130	0			
Pyrene	148	6.6	166.6	24.08	74.4	45-130	0			
<i>Surr: 2,4,6-Tribromophenol</i>	<i>142.2</i>	<i>6.6</i>	<i>166.6</i>	<i>0</i>	<i>85.4</i>	<i>36-126</i>	<i>0</i>			
<i>Surr: 2-Fluorobiphenyl</i>	<i>107.4</i>	<i>6.6</i>	<i>166.6</i>	<i>0</i>	<i>64.5</i>	<i>43-125</i>	<i>0</i>			
<i>Surr: 2-Fluorophenol</i>	<i>101.8</i>	<i>6.6</i>	<i>166.6</i>	<i>0</i>	<i>61.1</i>	<i>37-125</i>	<i>0</i>			
<i>Surr: 4-Terphenyl-d14</i>	<i>111.8</i>	<i>6.6</i>	<i>166.6</i>	<i>0</i>	<i>67.1</i>	<i>32-125</i>	<i>0</i>			
<i>Surr: Nitrobenzene-d5</i>	<i>107.4</i>	<i>6.6</i>	<i>166.6</i>	<i>0</i>	<i>64.5</i>	<i>37-125</i>	<i>0</i>			
<i>Surr: Phenol-d6</i>	<i>107.8</i>	<i>6.6</i>	<i>166.6</i>	<i>0</i>	<i>64.7</i>	<i>40-125</i>	<i>0</i>			

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

**Client:** Pastor, Behling & Wheeler, LLC  
**Work Order:** 1007064  
**Project:** Waste Characterization

# QC BATCH REPORT

Batch ID: **44227**      Instrument ID **SV-6**      Method: **SW8270**

MSD		Sample ID: <b>1007064-01CMSD</b>			Units: <b>µg/Kg</b>		Analysis Date: <b>7/15/2010 01:45 PM</b>			
Client ID: <b>HWPW-DC-1</b>		Run ID: <b>SV-6_100715A</b>			SeqNo: <b>2030273</b>		Prep Date: <b>7/2/2010</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Diphenylhydrazine	127.4	6.6	166.4	0	76.6	50-135	123.7	2.9	30	
2,4-Dimethylphenol	122.8	6.6	166.4	0	73.8	45-120	118.6	3.45	30	
2,4-Dinitrotoluene	143.2	6.6	166.4	0	86.1	50-130	142.3	0.639	30	
2,6-Dinitrotoluene	139.6	6.6	166.4	0	83.9	50-125	137.1	1.84	30	
2-Chloronaphthalene	144	6.6	166.4	0	86.5	50-145	136.4	5.42	30	
2-Methylnaphthalene	125.3	6.6	166.4	0	75.3	50-120	117	6.86	30	
4,6-Dinitro-2-methylphenol	121.4	6.6	166.4	0	73	15-135	119.9	1.25	30	
4-Nitrophenol	147.8	33	166.4	0	88.8	40-147	124	17.5	30	
Acenaphthene	120.4	6.6	166.4	0	72.4	50-120	117.1	2.77	30	
Acenaphthylene	128.2	6.6	166.4	0	77.1	50-120	122.9	4.25	30	
Anthracene	137.1	6.6	166.4	4.395	79.8	50-123	130.1	5.22	30	
Benz(a)anthracene	148.3	6.6	166.4	12.72	81.5	50-131	145.6	1.89	30	
Benzo(a)pyrene	161.8	6.6	166.4	17.93	86.5	50-130	156.7	3.18	30	
Bis(2-chloroethoxy)methane	118.9	6.6	166.4	0	71.4	50-120	114	4.2	30	
Bis(2-ethylhexyl)phthalate	154.8	6.6	166.4	16.08	83.4	21-148	148.2	4.36	30	
Chrysene	163.7	6.6	166.4	17.85	87.6	50-130	160	2.26	30	
Di-n-butyl phthalate	166.4	6.6	166.4	2.675	98.4	50-140	152.2	8.94	30	
Dibenzofuran	121.4	6.6	166.4	0	73	50-125	118.1	2.73	30	
Fluoranthene	178.5	6.6	166.4	33.77	87	50-131	169	5.48	30	
Fluorene	127.7	6.6	166.4	0	76.7	50-125	124.3	2.69	30	
N-Nitrosodiphenylamine	132	6.6	166.4	0	79.3	50-130	129.4	1.94	30	
Naphthalene	127.5	6.6	166.4	4.136	74.1	50-125	118.8	7.01	30	
Nitrobenzene	123.4	6.6	166.4	0	74.2	50-125	114.3	7.7	30	
Pentachlorophenol	130.6	6.6	166.4	11.7	71.4	23-136	128.8	1.37	30	
Phenanthrene	147.6	6.6	166.4	12.52	81.2	50-125	134.9	8.98	30	
Phenol	115.8	6.6	166.4	0	69.6	45-130	113.6	1.99	30	
Pyrene	157.2	6.6	166.4	24.08	80	45-130	148	5.99	30	
<i>Surr: 2,4,6-Tribromophenol</i>	<i>140.2</i>	<i>6.6</i>	<i>166.4</i>	<i>0</i>	<i>84.3</i>	<i>36-126</i>	<i>142.2</i>	<i>1.46</i>	<i>30</i>	
<i>Surr: 2-Fluorobiphenyl</i>	<i>112.7</i>	<i>6.6</i>	<i>166.4</i>	<i>0</i>	<i>67.7</i>	<i>43-125</i>	<i>107.4</i>	<i>4.84</i>	<i>30</i>	
<i>Surr: 2-Fluorophenol</i>	<i>103.6</i>	<i>6.6</i>	<i>166.4</i>	<i>0</i>	<i>62.2</i>	<i>37-125</i>	<i>101.8</i>	<i>1.76</i>	<i>30</i>	
<i>Surr: 4-Terphenyl-d14</i>	<i>115.9</i>	<i>6.6</i>	<i>166.4</i>	<i>0</i>	<i>69.7</i>	<i>32-125</i>	<i>111.8</i>	<i>3.61</i>	<i>30</i>	
<i>Surr: Nitrobenzene-d5</i>	<i>112.7</i>	<i>6.6</i>	<i>166.4</i>	<i>0</i>	<i>67.8</i>	<i>37-125</i>	<i>107.4</i>	<i>4.87</i>	<i>30</i>	
<i>Surr: Phenol-d6</i>	<i>108.4</i>	<i>6.6</i>	<i>166.4</i>	<i>0</i>	<i>65.1</i>	<i>40-125</i>	<i>107.8</i>	<i>0.482</i>	<i>30</i>	

The following samples were analyzed in this batch:

1007064-01C	1007064-02C
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Pastor, Behling & Wheeler, LLC  
**Work Order:** 1007064  
**Project:** Waste Characterization

# QC BATCH REPORT

Batch ID: **44322**      Instrument ID **SV-5**      Method: **SW1311/8270**

MBLK		Sample ID: <b>SBLKT1-100707-44322</b>			Units: <b>µg/L</b>		Analysis Date: <b>7/8/2010 01:49 PM</b>			
Client ID:		Run ID: <b>SV-5_100708A</b>			SeqNo: <b>2021966</b>		Prep Date: <b>7/7/2010</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	U	5.0								
2,4,6-Trichlorophenol	U	5.0								
2,4-Dinitrotoluene	U	5.0								
Cresols, Total	U	15								
Hexachlorobenzene	U	5.0								
Hexachlorobutadiene	U	5.0								
Hexachloroethane	U	5.0								
Nitrobenzene	U	5.0								
Pentachlorophenol	U	5.0								
Pyridine	U	5.0								
<i>Surr: 2,4,6-Tribromophenol</i>	83.57	5.0	100	0	83.6	42-124	0			
<i>Surr: 2-Fluorobiphenyl</i>	91.1	5.0	100	0	91.1	48-120	0			
<i>Surr: 2-Fluorophenol</i>	73.92	5.0	100	0	73.9	20-120	0			
<i>Surr: 4-Terphenyl-d14</i>	85.48	5.0	100	0	85.5	51-135	0			
<i>Surr: Nitrobenzene-d5</i>	89.21	5.0	100	0	89.2	41-120	0			
<i>Surr: Phenol-d6</i>	75.1	5.0	100	0	75.1	20-120	0			

LCS		Sample ID: <b>SLCST1-100707-44322</b>			Units: <b>µg/L</b>		Analysis Date: <b>7/7/2010 06:39 PM</b>			
Client ID:		Run ID: <b>SV-5_100708A</b>			SeqNo: <b>2021970</b>		Prep Date: <b>7/7/2010</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	89.19	5.0	100	0	89.2	52-115	0			
2,4,6-Trichlorophenol	88.23	5.0	100	0	88.2	53-115	0			
2,4-Dinitrotoluene	48.54	5.0	50	0	97.1	56-115	0			
Cresols, Total	208.4	15	250	0	83.3	35-115	0			
Hexachlorobenzene	44.86	5.0	50	0	89.7	54-115	0			
Hexachlorobutadiene	41.38	5.0	50	0	82.8	51-115	0			
Hexachloroethane	40.84	5.0	50	0	81.7	54-115	0			
Nitrobenzene	42	5.0	50	0	84	40-124	0			
Pentachlorophenol	93.57	5.0	100	0	93.6	45-125	0			
Pyridine	30.84	5.0	50	0	61.7	34-115	0			
<i>Surr: 2,4,6-Tribromophenol</i>	86.85	5.0	100	0	86.8	42-124	0			
<i>Surr: 2-Fluorobiphenyl</i>	87.97	5.0	100	0	88	48-120	0			
<i>Surr: 2-Fluorophenol</i>	75.01	5.0	100	0	75	20-120	0			
<i>Surr: 4-Terphenyl-d14</i>	82.37	5.0	100	0	82.4	51-135	0			
<i>Surr: Nitrobenzene-d5</i>	79.82	5.0	100	0	79.8	41-120	0			
<i>Surr: Phenol-d6</i>	75.4	5.0	100	0	75.4	20-120	0			

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

**Client:** Pastor, Behling & Wheeler, LLC  
**Work Order:** 1007064  
**Project:** Waste Characterization

# QC BATCH REPORT

Batch ID: **44322**      Instrument ID **SV-5**      Method: **SW1311/8270**

LCSD		Sample ID: <b>SLCSDT1-100707-44322</b>			Units: <b>µg/L</b>		Analysis Date: <b>7/7/2010 07:01 PM</b>			
Client ID:		Run ID: <b>SV-5_100708A</b>			SeqNo: <b>2021971</b>		Prep Date: <b>7/7/2010</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	88.53	5.0	100	0	88.5	52-115	89.19	0.746	25	
2,4,6-Trichlorophenol	87.73	5.0	100	0	87.7	53-115	88.23	0.56	25	
2,4-Dinitrotoluene	46.72	5.0	50	0	93.4	56-115	48.54	3.82	25	
Cresols, Total	198.4	15	250	0	79.3	35-115	208.4	4.92	25	
Hexachlorobenzene	46.12	5.0	50	0	92.2	54-115	44.86	2.77	25	
Hexachlorobutadiene	40.91	5.0	50	0	81.8	51-115	41.38	1.14	25	
Hexachloroethane	38.59	5.0	50	0	77.2	54-115	40.84	5.67	25	
Nitrobenzene	41.6	5.0	50	0	83.2	40-124	42	0.963	25	
Pentachlorophenol	95.44	5.0	100	0	95.4	45-125	93.57	1.98	25	
Pyridine	31.79	5.0	50	0	63.6	34-115	30.84	3.04	25	
<i>Surr: 2,4,6-Tribromophenol</i>	<i>87.17</i>	<i>5.0</i>	<i>100</i>	<i>0</i>	<i>87.2</i>	<i>42-124</i>	<i>86.85</i>	<i>0.371</i>	<i>25</i>	
<i>Surr: 2-Fluorobiphenyl</i>	<i>84.37</i>	<i>5.0</i>	<i>100</i>	<i>0</i>	<i>84.4</i>	<i>48-120</i>	<i>87.97</i>	<i>4.18</i>	<i>25</i>	
<i>Surr: 2-Fluorophenol</i>	<i>73.74</i>	<i>5.0</i>	<i>100</i>	<i>0</i>	<i>73.7</i>	<i>20-120</i>	<i>75.01</i>	<i>1.71</i>	<i>25</i>	
<i>Surr: 4-Terphenyl-d14</i>	<i>84.24</i>	<i>5.0</i>	<i>100</i>	<i>0</i>	<i>84.2</i>	<i>51-135</i>	<i>82.37</i>	<i>2.25</i>	<i>25</i>	
<i>Surr: Nitrobenzene-d5</i>	<i>76.98</i>	<i>5.0</i>	<i>100</i>	<i>0</i>	<i>77</i>	<i>41-120</i>	<i>79.82</i>	<i>3.62</i>	<i>25</i>	
<i>Surr: Phenol-d6</i>	<i>71.19</i>	<i>5.0</i>	<i>100</i>	<i>0</i>	<i>71.2</i>	<i>20-120</i>	<i>75.4</i>	<i>5.75</i>	<i>25</i>	

The following samples were analyzed in this batch:

1007064-01D	1007064-02D
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.



**Client:** Pastor, Behling & Wheeler, LLC  
**Work Order:** 1007064  
**Project:** Waste Characterization

## QC BATCH REPORT

Batch ID: **R93737**      Instrument ID **WetChem**      Method: **SW9045B**

**LCS**      Sample ID: **LCS-070710-R93737**      Units: **pH Units**      Analysis Date: **7/7/2010 05:30 PM**

Client ID:      Run ID: **WETCHEM\_100707F**      SeqNo: **2020039**      Prep Date:      DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	6.03	0.10	6	0	100	90-110	0			

**DUP**      Sample ID: **1007037-10BDUP**      Units: **pH Units**      Analysis Date: **7/7/2010 05:30 PM**

Client ID:      Run ID: **WETCHEM\_100707F**      SeqNo: **2020057**      Prep Date:      DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	8.89	0.10	0	0	0	0-0	8.93	0.449	20	

The following samples were analyzed in this batch:

1007064-01D	1007064-02D
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Pastor, Behling & Wheeler, LLC  
**Work Order:** 1007064  
**Project:** Waste Characterization

# QC BATCH REPORT

Batch ID: **R93922**      Instrument ID **WetChem**      Method: **SW1030**

**DUP**      Sample ID: **1007064-01DDUP**      Units: **no unit**      Analysis Date: **7/12/2010**

Client ID: **HWPW-DC-1**      Run ID: **WETCHEM\_100712I**      SeqNo: **2024673**      Prep Date:      DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ignitability, Solid	U	0	0	0	0		0	0		

**DUP**      Sample ID: **1007142-02CDUP**      Units: **no unit**      Analysis Date: **7/12/2010**

Client ID:      Run ID: **WETCHEM\_100712I**      SeqNo: **2024674**      Prep Date:      DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ignitability, Solid	U	0	0	0	0		0	0		

The following samples were analyzed in this batch:

1007064-01D	1007064-02D
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Pastor, Behling & Wheeler, LLC  
**Project:** Waste Characterization  
**WorkOrder:** 1007064

**QUALIFIERS,  
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	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

<u>Acronym</u>	<u>Description</u>
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

<u>Units Reported</u>	<u>Description</u>
µg/Kg	Micrograms per Kilogram
µg/L	Micrograms per Liter
mg/Kg	Milligrams per Kilogram
no unit	
pH Units	



Sample Receipt Checklist

Client Name: **PBW**

Date/Time Received: **01-Jul-10 13:36**

Work Order: **1007064**

Received by: **RSZ**

Checklist completed by Robert D. Harris 01-Jul-10  
eSignature Date

Reviewed by: R. Kevin Given 20-Jul-10  
eSignature Date

Matrices: soils

Carrier name: Client

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>2.6c</u> <u>002</u>		
Cooler(s)/Kit(s):	<u>3478</u>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:	<u>-</u>		

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

[Empty text box for comments]

CorrectiveAction:

[Empty text box for corrective action]

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**Client:** ALS Laboratory Group  
**Project:** 1007064  
**Work Order:** 1007084

**Work Order Sample Summary**

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<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1007084-01	1007064-01E	Soil		7/1/2010 06:30	7/3/2010 10:25	<input type="checkbox"/>
1007084-02	1007064-02E	Soil		7/1/2010 06:10	7/3/2010 10:25	<input type="checkbox"/>
1007084-03	1007064-03E	Soil		7/1/2010 06:20	7/3/2010 10:25	<input type="checkbox"/>

**Client:** ALS Laboratory Group  
**Project:** 1007064  
**WorkOrder:** 1007084

**QUALIFIERS,  
ACRONYMS, UNITS**

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<u>Qualifier</u>	<u>Description</u>
*	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
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

<u>Acronym</u>	<u>Description</u>
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

<u>Units Reported</u>	<u>Description</u>
mg/Kg	Milligrams per Kilogram

# ALS Laboratory Group

Date: 09-Jul-10

**Client:** ALS Laboratory Group  
**Project:** 1007064  
**Sample ID:** 1007064-01E  
**Collection Date:** 7/1/2010 06:30 AM

**Work Order:** 1007084  
**Lab ID:** 1007084-01  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>CYANIDE, REACTIVE</b> Cyanide, Reactive	ND		<b>SW7.3.3.2</b> 40.0	mg/Kg	1	Analyst: <b>EE</b> 7/9/2010 09:00 AM
<b>SULFIDE, REACTIVE</b> Sulfide, Reactive	ND		<b>SW7.3.4.2</b> 40.0	mg/Kg	1	Analyst: <b>EE</b> 7/9/2010 09:00 AM

**Note:** See Qualifiers page for a list of qualifiers and their definitions.



# ALS Laboratory Group

Date: 09-Jul-10

Client: ALS Laboratory Group

Project: 1007064

Work Order: 1007084

Sample ID: 1007064-02E

Lab ID: 1007084-02

Collection Date: 7/1/2010 06:10 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>CYANIDE, REACTIVE</b>			<b>SW7.3.3.2</b>			Analyst: <b>EE</b>
Cyanide, Reactive	ND		40.0	mg/Kg	1	7/9/2010 09:00 AM
<b>SULFIDE, REACTIVE</b>			<b>SW7.3.4.2</b>			Analyst: <b>EE</b>
Sulfide, Reactive	ND		40.0	mg/Kg	1	7/9/2010 09:00 AM

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

ALS Laboratory Group

Date: 09-Jul-10

Client: ALS Laboratory Group  
Work Order: 1007084  
Project: 1007064

**QC BATCH REPORT**

Batch ID: **R78916** Instrument ID **WETCHEM** Method: **SW7.3.4.2**

<b>MBLK</b>	Sample ID: <b>WBLKW1-070710-R78916</b>	Units: <b>mg/Kg</b>	Analysis Date: <b>7/7/2010 09:00 AM</b>							
Client ID:	Run ID: <b>WETCHEM_100707D</b>	SeqNo: <b>1363419</b>	Prep Date:	DF: <b>1</b>						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide, Reactive	ND	40								

The following samples were analyzed in this batch: 

1007084-01A	1007084-02A	1007084-03A
-------------	-------------	-------------

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

Client: ALS Laboratory Group

# QC BATCH REPORT

Work Order: 1007084

Project: 1007064

Batch ID: R78917

Instrument ID WETCHEM

Method: SW7.3.3.2

**MBLK** Sample ID: **WBLKW1-070710-R78917** Units: **mg/Kg** Analysis Date: **7/7/2010 09:00 AM**

Client ID: Run ID: **WETCHEM\_100707E** SeqNo: **1363431** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	ND	40								

**LCS** Sample ID: **WLCSW1-070710-R78917** Units: **mg/Kg** Analysis Date: **7/7/2010 09:00 AM**

Client ID: Run ID: **WETCHEM\_100707E** SeqNo: **1363432** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	205.5	40	250	0	82.2	75-125	0			

**LCSD** Sample ID: **WLCSDW1-070710-R78917** Units: **mg/Kg** Analysis Date: **7/7/2010 09:00 AM**

Client ID: Run ID: **WETCHEM\_100707E** SeqNo: **1363446** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	234.9	40	250	0	94	75-125	205.5	13.3	35	

**MS** Sample ID: **1006726-03A MS** Units: **mg/Kg** Analysis Date: **7/7/2010 09:00 AM**

Client ID: Run ID: **WETCHEM\_100707E** SeqNo: **1363436** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	249.6	40	250	0	99.8	50-150	0			

**MSD** Sample ID: **1006726-03A MSD** Units: **mg/Kg** Analysis Date: **7/7/2010 09:00 AM**

Client ID: Run ID: **WETCHEM\_100707E** SeqNo: **1363437** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	249.6	40	250	0	99.8	50-150	249.6	0	35	

The following samples were analyzed in this batch:

1007084-01A	1007084-02A	1007084-03A
-------------	-------------	-------------

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



Sample Receipt Checklist

Client Name: **ALS - HOUSTON**

Date/Time Received: **03-Jul-10 10:25**

Work Order: **1007084**

Received by: **JR**

Checklist completed by Diane Shaw 06-Jul-10  
eSignature Date

Reviewed by: Ann Preston 06-Jul-10  
eSignature Date

Matrices: Soil  
Carrier name: FedEx

- 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
- 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): 3.8 c

Cooler(s)/Kit(s):

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:

CorrectiveAction:

ORIGIN ID: JGQA (281) 530-5656  
SHIPPING DEPT  
ALS LABORATORY GROUP  
10450 STANCLIFF  
SUITE 210  
HOUSTON, TX 77099  
UNITED STATES US

Ship Date: 02JUL10  
ActWgt: 32.5 LB  
CAD: 300130/CAFE2453

**TO RECEIVING**  
**ALS LABORATORY**  
**3352 128TH AVE.**

(616) 399-6070

**FedEx**  
Express

**HOLLAND, MI 49424**

(US)



J0920091130223

Trk# 4340 2160 2062

**PRIORITY OVERNIGHT**



**3352 128TH AVE.**

Part # 166148-434 NFRT V3 12-09

**PLACE THIS LABEL ON PACKAGE  
NEXT TO THE SHIPPING LABEL**

**Kevin Given**

---

**From:** Eric C. Matzner [eric.matzner@pbwllc.com]  
**Sent:** Monday, July 19, 2010 7:32 AM  
**To:** Kevin Given  
**Subject:** RE: 1007064 Waste Characterization

Kevin,  
Can we break out the VC-DC-1 sample into a separate report? That sample is for a different site (UPRR United Creosote).

Thanks,

Eric C. Matzner, P.G.  
Pastor, Behling & Wheeler, LLC  
512-671-3434

**From:** Kevin Given [mailto:Kevin.Given@ALSGlobal.com]  
**Sent:** Friday, July 16, 2010 4:26 PM  
**To:** Eric C. Matzner  
**Cc:** UPRR-SysDat@craworld.com  
**Subject:** 1007064 Waste Characterization

Attached you will find the Final report for the above work order/project. No hardcopy version will be sent. Let me know if you have any questions.

Thanks for your patronage.

Regards,

R. Kevin Given  
ALS Laboratory Group  
10450 Stancliff Rd, Suite 210  
Houston, Texas 77099-4338  
(281) 530-5656  
<http://www.alsglobal.com>

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