22-Jul-2010

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

Tel: (512) 671-3434
Fax: (512) 671-3446

Re: Waste Characterization Work Order: **1007401**

Dear Eric,

ALS Laboratory Group received 1 sample on 13-Jul-2010 06:25 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 26.

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

Sincerely,

R. Kevin Given

Electronically approved by: R. Kevin Given

R. Kevin Given
Project Manager

Certificate No: TX: T104704231-10-3

ALS Laboratory Group

Date: 22-Jul-10

Client: Pastor, Behling & Wheeler, LLC
Project: Waste Characterization
Work Order: **1007401**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1007401-01	WG-1620-V150-20100713	Water		7/13/2010 17:20	7/13/2010 18:25	☐

Client: Pastor, Behling & Wheeler, LLC
Project: Waste Characterization
Work Order: 1007401

Case Narrative

Batch R94066, Corrosivity: Sample WG-1620-V150-20100713 was received outside of method holding time. The results and associated QC are flagged with an H as appropiate.

ALS Laboratory Group

Date: *22-Jul-10*

Client: Pastor, Behling & Wheeler, LLC
Project: Waste Characterization
Work Order: 1007401
Sample ID: WG-1620-V150-20100713
Lab ID: 1007401-01
Collection Date: 7/13/2010 05:20 PM
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
LOW-LEVEL TEXAS TPH			**TX1005**		Prep Date: **7/15/2010**	Analyst: **SE**
nC6 to nC12	U		0.47	mg/L	1	7/16/2010 11:45 AM
>nC12 to nC28	U		0.47	mg/L	1	7/16/2010 11:45 AM
>nC28 to nC35	U		0.47	mg/L	1	7/16/2010 11:45 AM
Total Petroleum Hydrocarbon	U		0.47	mg/L	1	7/16/2010 11:45 AM
Surr: 2-Fluorobiphenyl	*111*		*70-130*	*%REC*	1	7/16/2010 11:45 AM
Surr: Trifluoromethyl benzene	*107*		*70-130*	*%REC*	1	7/16/2010 11:45 AM
BTEX			**SW8021B**			Analyst: **KKP**
Benzene	U		1.0	µg/L	1	7/16/2010 02:11 AM
Toluene	U		1.0	µg/L	1	7/16/2010 02:11 AM
Ethylbenzene	**0.72**	J	**1.0**	**µg/L**	1	7/16/2010 02:11 AM
Xylenes, Total	**3.9**		**3.0**	**µg/L**	1	7/16/2010 02:11 AM
Surr: 4-Bromofluorobenzene	*106*		*77-129*	*%REC*	1	7/16/2010 02:11 AM
Surr: Trifluorotoluene	*114*		*75-130*	*%REC*	1	7/16/2010 02:11 AM
TCLP SEMIVOLATILES			**SW1311/8270**		Prep Date: **7/20/2010**	Analyst: **KMB**
2,4,5-Trichlorophenol	U		5.0	µg/L	1	7/20/2010 05:12 PM
2,4,6-Trichlorophenol	U		5.0	µg/L	1	7/20/2010 05:12 PM
2,4-Dinitrotoluene	U		5.0	µg/L	1	7/20/2010 05:12 PM
Cresols, Total	U		15	µg/L	1	7/20/2010 05:12 PM
Hexachlorobenzene	U		5.0	µg/L	1	7/20/2010 05:12 PM
Hexachlorobutadiene	U		5.0	µg/L	1	7/20/2010 05:12 PM
Hexachloroethane	U		5.0	µg/L	1	7/20/2010 05:12 PM
Nitrobenzene	U		5.0	µg/L	1	7/20/2010 05:12 PM
Pentachlorophenol	U		5.0	µg/L	1	7/20/2010 05:12 PM
Pyridine	U		5.0	µg/L	1	7/20/2010 05:12 PM
Surr: 2,4,6-Tribromophenol	*74.2*		*42-124*	*%REC*	1	7/20/2010 05:12 PM
Surr: 2-Fluorobiphenyl	*60.1*		*48-120*	*%REC*	1	7/20/2010 05:12 PM
Surr: 2-Fluorophenol	*55.4*		*20-120*	*%REC*	1	7/20/2010 05:12 PM
Surr: 4-Terphenyl-d14	*75.4*		*51-135*	*%REC*	1	7/20/2010 05:12 PM
Surr: Nitrobenzene-d5	*66.9*		*41-120*	*%REC*	1	7/20/2010 05:12 PM
Surr: Phenol-d6	*67.0*		*20-120*	*%REC*	1	7/20/2010 05:12 PM
LOW-LEVEL SEMIVOLATILES			**SW8270**		Prep Date: **7/20/2010**	Analyst: **LG**
1,2-Diphenylhydrazine	U		0.20	µg/L	1	7/21/2010 06:18 PM
2,4-Dimethylphenol	U		0.20	µg/L	1	7/21/2010 06:18 PM
2,4-Dinitrotoluene	U		0.20	µg/L	1	7/21/2010 06:18 PM
2,6-Dinitrotoluene	U		0.20	µg/L	1	7/21/2010 06:18 PM
2-Chloronaphthalene	U		0.20	µg/L	1	7/21/2010 06:18 PM
2-Methylnaphthalene	U		0.20	µg/L	1	7/21/2010 06:18 PM

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

ALS Laboratory Group

Date: *22-Jul-10*

Client: Pastor, Behling & Wheeler, LLC
Project: Waste Characterization
Work Order: 1007401
Sample ID: WG-1620-V150-20100713
Lab ID: 1007401-01
Collection Date: 7/13/2010 05:20 PM
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4,6-Dinitro-2-methylphenol	U		0.20	µg/L	1	7/21/2010 06:18 PM
4-Nitrophenol	U		1.0	µg/L	1	7/21/2010 06:18 PM
Acenaphthene	U		0.20	µg/L	1	7/21/2010 06:18 PM
Acenaphthylene	U		0.20	µg/L	1	7/21/2010 06:18 PM
Anthracene	U		0.20	µg/L	1	7/21/2010 06:18 PM
Benz(a)anthracene	U		0.20	µg/L	1	7/21/2010 06:18 PM
Benzo(a)pyrene	U		0.20	µg/L	1	7/21/2010 06:18 PM
Bis(2-chloroethoxy)methane	U		0.20	µg/L	1	7/21/2010 06:18 PM
Bis(2-ethylhexyl)phthalate	**1.5**		**0.20**	**µg/L**	1	7/21/2010 06:18 PM
Chrysene	U		0.20	µg/L	1	7/21/2010 06:18 PM
Di-n-butyl phthalate	U		0.20	µg/L	1	7/21/2010 06:18 PM
Dibenzofuran	U		0.20	µg/L	1	7/21/2010 06:18 PM
Fluoranthene	U		0.20	µg/L	1	7/21/2010 06:18 PM
Fluorene	U		0.20	µg/L	1	7/21/2010 06:18 PM
N-Nitrosodiphenylamine	U		0.20	µg/L	1	7/21/2010 06:18 PM
Naphthalene	U		0.20	µg/L	1	7/21/2010 06:18 PM
Nitrobenzene	U		0.20	µg/L	1	7/21/2010 06:18 PM
Pentachlorophenol	U		0.20	µg/L	1	7/21/2010 06:18 PM
Phenanthrene	U		0.20	µg/L	1	7/21/2010 06:18 PM
Phenol	**0.17**	J	**0.20**	**µg/L**	1	7/21/2010 06:18 PM
Pyrene	U		0.20	µg/L	1	7/21/2010 06:18 PM
Surr: 2,4,6-Tribromophenol	*65.2*		*34-129*	*%REC*	1	7/21/2010 06:18 PM
Surr: 2-Fluorobiphenyl	*55.6*		*40-125*	*%REC*	1	7/21/2010 06:18 PM
Surr: 2-Fluorophenol	*46.1*		*20-120*	*%REC*	1	7/21/2010 06:18 PM
Surr: 4-Terphenyl-d14	*57.4*		*40-135*	*%REC*	1	7/21/2010 06:18 PM
Surr: Nitrobenzene-d5	*54.3*		*41-120*	*%REC*	1	7/21/2010 06:18 PM
Surr: Phenol-d6	*57.0*		*20-120*	*%REC*	1	7/21/2010 06:18 PM
REACTIVE CYANIDE			**SW-846**			Analyst: **HN**
Reactive Cyanide	U	n	40.0	mg/Kg	1	7/15/2010 12:00 PM
REACTIVE SULFIDE			**SW-846**			Analyst: **HN**
Reactive Sulfide	U	n	40.0	mg/Kg	1	7/15/2010 12:00 PM
IGNITIBILITY			**SW1010**			Analyst: **JLC**
Ignitability	*> 212*		50.0	°F	1	7/15/2010
PH			**SM4500H+ B**			Analyst: **JLC**
pH	**6.57**	H	**0.100**	**pH units**	1	7/15/2010

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

Batch ID: **44539** Instrument ID **FID-10** Method: **TX1005**

MBLK Sample ID: **FBLKW1-100715-44539** Units: **mg/L** Analysis Date: **7/16/2010 10:10 AM**

Client ID: Run ID: **FID-10_100715A** SeqNo: **2030670** Prep Date: **7/15/2010** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	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	*2.221*	0	*2.5*	0	*88.8*	*70-130*	0			
Surr: Trifluoromethyl benzene	*2.167*	0	*2.5*	0	*86.7*	*70-130*	0			

LCS Sample ID: **FLCSW1-100715-44539** Units: **mg/L** Analysis Date: **7/16/2010 10:42 AM**

Client ID: Run ID: **FID-10_100715A** SeqNo: **2030673** Prep Date: **7/15/2010** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	20	0.50	25	0	80	75-125	0			
>nC12 to nC28	23.44	0.50	25	0	93.7	75-125	0			
Surr: 2-Fluorobiphenyl	*3.196*	0	*2.5*	0	*128*	*70-130*	0			
Surr: Trifluoromethyl benzene	*2.645*	0	*2.5*	0	*106*	*70-130*	0			

LCSD Sample ID: **FLCSDW1-100715-44539** Units: **mg/L** Analysis Date: **7/16/2010 11:13 AM**

Client ID: Run ID: **FID-10_100715A** SeqNo: **2030675** Prep Date: **7/15/2010** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	20.46	0.50	25	0	81.8	75-125	20	2.31	20	
>nC12 to nC28	22.96	0.50	25	0	91.9	75-125	23.44	2.04	20	
Surr: 2-Fluorobiphenyl	*3.226*	0	*2.5*	0	*129*	*70-130*	3.196	*0.921*	*20*	
Surr: Trifluoromethyl benzene	*2.681*	0	*2.5*	0	*107*	*70-130*	2.645	*1.38*	*20*	

MS Sample ID: **1007401-01BMS** Units: **mg/L** Analysis Date: **7/16/2010 12:16 PM**

Client ID: **WG-1620-V150-20100713** Run ID: **FID-10_100715A** SeqNo: **2030677** Prep Date: **7/15/2010** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	18.43	0.48	24.04	0	76.7	75-125	0			
>nC12 to nC28	19.03	0.48	24.04	0	79.2	75-125	0			
Surr: 2-Fluorobiphenyl	*3.016*	0	*2.404*	0	*125*	*70-130*	0			
Surr: Trifluoromethyl benzene	*2.428*	0	*2.404*	0	*101*	*70-130*	0			

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

Client: Pastor, Behling & Wheeler, LLC
Work Order: 1007401
Project: Waste Characterization

QC BATCH REPORT

Batch ID: **44539** Instrument ID **FID-10** Method: **TX1005**

MSD Sample ID: **1007401-01BMSD** Units: **mg/L** Analysis Date: **7/16/2010 12:48 PM**

Client ID: **WG-1620-V150-20100713** Run ID: **FID-10_100715A** SeqNo: **2030678** Prep Date: **7/15/2010** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	18.77	0.49	24.37	0	77	75-125	18.43	1.81	20	
>nC12 to nC28	20.89	0.49	24.37	0	85.7	75-125	19.03	9.34	20	
Surr: 2-Fluorobiphenyl	*2.904*	0	*2.437*	0	*119*	*70-130*	3.016	*3.8*	*20*	
Surr: Trifluoromethyl benzene	*2.443*	0	*2.437*	0	*100*	*70-130*	2.428	*0.63*	*20*	

The following samples were analyzed in this batch: 1007401-01B

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

Client: Pastor, Behling & Wheeler, LLC
Work Order: 1007401
Project: Waste Characterization

QC BATCH REPORT

Batch ID: **R94162** Instrument ID **BTEX3** Method: **SW8021B**

MBLK Sample ID: **BBLKW1-071510-R94162** Units: **µg/L** Analysis Date: **7/15/2010 09:25 PM**
Client ID: Run ID: **BTEX3_100715B** SeqNo: **2030241** Prep Date: DF: **1**

Analyte	Result	MQL	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								
Surr: 4-Bromofluorobenzene	*31.21*	1.0	*30*	0	*104*	*77-129*	0			
Surr: Trifluorotoluene	*28.03*	1.0	*30*	0	*93.4*	*75-130*	0			

LCS Sample ID: **BLCSW1-071510-R94162** Units: **µg/L** Analysis Date: **7/15/2010 08:41 PM**
Client ID: Run ID: **BTEX3_100715B** SeqNo: **2030239** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	17.89	1.0	20	0	89.5	77-126	0			
Toluene	18.13	1.0	20	0	90.7	80-124	0			
Ethylbenzene	17.55	1.0	20	0	87.8	76-125	0			
Xylenes, Total	52.71	3.0	60	0	87.8	79-124	0			
Surr: 4-Bromofluorobenzene	*31.58*	1.0	*30*	0	*105*	*77-129*	0			
Surr: Trifluorotoluene	*28.3*	1.0	*30*	0	*94.3*	*75-130*	0			

MS Sample ID: **1007383-04AMS** Units: **µg/L** Analysis Date: **7/16/2010 05:09 AM**
Client ID: Run ID: **BTEX3_100715B** SeqNo: **2030263** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	22.39	1.0	20	0	112	77-126	0			
Toluene	22.47	1.0	20	0.2496	111	80-124	0			
Ethylbenzene	20.72	1.0	20	0	104	76-125	0			
Xylenes, Total	63.36	3.0	60	0	106	79-124	0			
Surr: 4-Bromofluorobenzene	*34.24*	1.0	*30*	0	*114*	*77-129*	0			
Surr: Trifluorotoluene	*31.74*	1.0	*30*	0	*106*	*75-130*	0			

MSD Sample ID: **1007383-04AMSD** Units: **µg/L** Analysis Date: **7/16/2010 05:29 AM**
Client ID: Run ID: **BTEX3_100715B** SeqNo: **2030264** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	22.26	1.0	20	0	111	77-126	22.39	0.584	20	
Toluene	22.27	1.0	20	0.2496	110	80-124	22.47	0.909	20	
Ethylbenzene	20.53	1.0	20	0	103	76-125	20.72	0.897	20	
Xylenes, Total	62.66	3.0	60	0	104	79-124	63.36	1.1	20	
Surr: 4-Bromofluorobenzene	*34.46*	1.0	*30*	0	*115*	*77-129*	34.24	*0.616*	*20*	
Surr: Trifluorotoluene	*31.83*	1.0	*30*	0	*106*	*75-130*	31.74	*0.271*	*20*	

The following samples were analyzed in this batch: 1007401-01A

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

Client: Pastor, Behling & Wheeler, LLC
Work Order: 1007401
Project: Waste Characterization

QC BATCH REPORT

Batch ID: **44640** Instrument ID **SV-5** Method: **SW1311/8270**

MBLK Sample ID: **SBLKT1-100720-44640** Units: **µg/L** Analysis Date: **7/20/2010 01:03 PM**

Client ID: Run ID: **SV-5_100720A** SeqNo: **2033993** Prep Date: **7/20/2010** DF: **1**

Analyte	Result	MQL	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								
Surr: 2,4,6-Tribromophenol	*63.37*	5.0	*100*	0	*63.4*	*42-124*	0			
Surr: 2-Fluorobiphenyl	*61.65*	5.0	*100*	0	*61.6*	*48-120*	0			
Surr: 2-Fluorophenol	*49.69*	5.0	*100*	0	*49.7*	*20-120*	0			
Surr: 4-Terphenyl-d14	*77.87*	5.0	*100*	0	*77.9*	*51-135*	0			
Surr: Nitrobenzene-d5	*66.99*	5.0	*100*	0	*67*	*41-120*	0			
Surr: Phenol-d6	*55.08*	5.0	*100*	0	*55.1*	*20-120*	0			

LCS Sample ID: **SLCST1-100720-44640** Units: **µg/L** Analysis Date: **7/20/2010 03:41 PM**

Client ID: Run ID: **SV-5_100720A** SeqNo: **2033999** Prep Date: **7/20/2010** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	74.95	5.0	100	0	74.9	52-115	0			
2,4,6-Trichlorophenol	73.12	5.0	100	0	73.1	53-115	0			
2,4-Dinitrotoluene	40.74	5.0	50	0	81.5	56-115	0			
Cresols, Total	214.6	15	250	0	85.9	35-115	0			
Hexachlorobenzene	36.39	5.0	50	0	72.8	54-115	0			
Hexachlorobutadiene	33.99	5.0	50	0	68	51-115	0			
Hexachloroethane	37.64	5.0	50	0	75.3	54-115	0			
Nitrobenzene	40.37	5.0	50	0	80.7	40-124	0			
Pentachlorophenol	64.6	5.0	100	0	64.6	45-125	0			
Pyridine	25.58	5.0	50	0	51.2	34-115	0			
Surr: 2,4,6-Tribromophenol	*71.02*	5.0	*100*	0	*71*	*42-124*	0			
Surr: 2-Fluorobiphenyl	*70.97*	5.0	*100*	0	*71*	*48-120*	0			
Surr: 2-Fluorophenol	*70.58*	5.0	*100*	0	*70.6*	*20-120*	0			
Surr: 4-Terphenyl-d14	*79.69*	5.0	*100*	0	*79.7*	*51-135*	0			
Surr: Nitrobenzene-d5	*73.68*	5.0	*100*	0	*73.7*	*41-120*	0			
Surr: Phenol-d6	*75.88*	5.0	*100*	0	*75.9*	*20-120*	0			

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

Client: Pastor, Behling & Wheeler, LLC
Work Order: 1007401
Project: Waste Characterization

QC BATCH REPORT

Batch ID: **44640** Instrument ID **SV-5** Method: **SW1311/8270**

LCSD Sample ID: **SLCSDT1-100720-44640** Units: **µg/L** Analysis Date: **7/20/2010 02:56 PM**

Client ID: Run ID: **SV-5_100720A** SeqNo: **2033997** Prep Date: **7/20/2010** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	73.8	5.0	100	0	73.8	52-115	74.95	1.55	25	
2,4,6-Trichlorophenol	71.09	5.0	100	0	71.1	53-115	73.12	2.82	25	
2,4-Dinitrotoluene	40.63	5.0	50	0	81.3	56-115	40.74	0.266	25	
Cresols, Total	173.5	15	250	0	69.4	35-115	214.6	21.2	25	
Hexachlorobenzene	35.31	5.0	50	0	70.6	54-115	36.39	3.01	25	
Hexachlorobutadiene	37.44	5.0	50	0	74.9	51-115	33.99	9.64	25	
Hexachloroethane	37.98	5.0	50	0	76	54-115	37.64	0.882	25	
Nitrobenzene	39.29	5.0	50	0	78.6	40-124	40.37	2.72	25	
Pentachlorophenol	54.25	5.0	100	0	54.2	45-125	64.6	17.4	25	
Pyridine	30.32	5.0	50	0	60.6	34-115	25.58	16.9	25	
Surr: 2,4,6-Tribromophenol	*62.84*	5.0	*100*	0	*62.8*	*42-124*	71.02	*12.2*	*25*	
Surr: 2-Fluorobiphenyl	*72.2*	5.0	*100*	0	*72.2*	*48-120*	70.97	*1.71*	*25*	
Surr: 2-Fluorophenol	*66.32*	5.0	*100*	0	*66.3*	*20-120*	70.58	*6.23*	*25*	
Surr: 4-Terphenyl-d14	*70.48*	5.0	*100*	0	*70.5*	*51-135*	79.69	*12.3*	*25*	
Surr: Nitrobenzene-d5	*74.55*	5.0	*100*	0	*74.6*	*41-120*	73.68	*1.18*	*25*	
Surr: Phenol-d6	*65.24*	5.0	*100*	0	*65.2*	*20-120*	75.88	*15.1*	*25*	

The following samples were analyzed in this batch: 1007401-01E

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

Client: Pastor, Behling & Wheeler, LLC
Work Order: 1007401
Project: Waste Characterization

QC BATCH REPORT

Batch ID: **44654** Instrument ID **SV-4** Method: **SW8270**

MBLK Sample ID: **SBLKW2-100720-44654** Units: **µg/L** Analysis Date: **7/21/2010 04:16 PM**

Client ID: Run ID: **SV-4_100721A** SeqNo: **2036006** Prep Date: **7/20/2010** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Diphenylhydrazine	U	0.20								
2,4-Dimethylphenol	U	0.20								
2,4-Dinitrotoluene	U	0.20								
2,6-Dinitrotoluene	U	0.20								
2-Chloronaphthalene	U	0.20								
2-Methylnaphthalene	U	0.20								
4,6-Dinitro-2-methylphenol	U	0.20								
4-Nitrophenol	U	1.0								
Acenaphthene	U	0.20								
Acenaphthylene	U	0.20								
Anthracene	U	0.20								
Benz(a)anthracene	U	0.20								
Benzo(a)pyrene	U	0.20								
Bis(2-chloroethoxy)methane	U	0.20								
Bis(2-ethylhexyl)phthalate	U	0.20								
Chrysene	U	0.20								
Di-n-butyl phthalate	U	0.20								
Dibenzofuran	U	0.20								
Fluoranthene	U	0.20								
Fluorene	U	0.20								
N-Nitrosodiphenylamine	U	0.20								
Naphthalene	U	0.20								
Nitrobenzene	U	0.20								
Pentachlorophenol	U	0.20								
Phenanthrene	U	0.20								
Phenol	U	0.20								
Pyrene	U	0.20								
Surr: 2,4,6-Tribromophenol	*3.489*	0.20	*5*	0	*69.8*	*34-129*	0			
Surr: 2-Fluorobiphenyl	*2.683*	0.20	*5*	0	*53.7*	*40-125*	0			
Surr: 2-Fluorophenol	*3.042*	0.20	*5*	0	*60.8*	*20-120*	0			
Surr: 4-Terphenyl-d14	*3.2*	0.20	*5*	0	*64*	*40-135*	0			
Surr: Nitrobenzene-d5	*3.757*	0.20	*5*	0	*75.1*	*41-120*	0			
Surr: Phenol-d6	*3.32*	0.20	*5*	0	*66.4*	*20-120*	0			

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

Client: Pastor, Behling & Wheeler, LLC
Work Order: 1007401
Project: Waste Characterization

QC BATCH REPORT

Batch ID: **44654** Instrument ID **SV-4** Method: **SW8270**

LCS Sample ID: **SLCSW2-100720-44654** Units: **µg/L** Analysis Date: **7/21/2010 04:37 PM**

Client ID: Run ID: **SV-4_100721A** SeqNo: **2036007** Prep Date: **7/20/2010** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Diphenylhydrazine	2.734	0.20	5	0	54.7	39-127	0			
2,4-Dimethylphenol	3.165	0.20	5	0	63.3	35-120	0			
2,4-Dinitrotoluene	3.788	0.20	5	0	75.8	50-122	0			
2,6-Dinitrotoluene	3.921	0.20	5	0	78.4	50-120	0			
2-Chloronaphthalene	3.744	0.20	5	0	74.9	50-120	0			
2-Methylnaphthalene	3.446	0.20	5	0	68.9	50-120	0			
4,6-Dinitro-2-methylphenol	3.313	0.20	5	0	66.3	25-121	0			
4-Nitrophenol	3.814	1.0	5	0	76.3	30-130	0			
Acenaphthene	3.082	0.20	5	0	61.6	45-120	0			
Acenaphthylene	3.362	0.20	5	0	67.2	47-120	0			
Anthracene	3.52	0.20	5	0	70.4	45-120	0			
Benz(a)anthracene	3.582	0.20	5	0	71.6	40-120	0			
Benzo(a)pyrene	3.494	0.20	5	0	69.9	45-120	0			
Bis(2-chloroethoxy)methane	3.221	0.20	5	0	64.4	45-120	0			
Bis(2-ethylhexyl)phthalate	3.916	0.20	5	0	78.3	40-139	0			
Chrysene	3.518	0.20	5	0	70.4	43-120	0			
Di-n-butyl phthalate	3.784	0.20	5	0	75.7	45-123	0			
Dibenzofuran	3.417	0.20	5	0	68.3	50-120	0			
Fluoranthene	3.832	0.20	5	0	76.6	45-125	0			
Fluorene	3.337	0.20	5	0	66.7	49-120	0			
N-Nitrosodiphenylamine	2.7	0.20	5	0	54	40-125	0			
Naphthalene	3.356	0.20	5	0	67.1	45-120	0			
Nitrobenzene	3.281	0.20	5	0	65.6	44-120	0			
Pentachlorophenol	2.059	0.20	5	0	41.2	19-121	0			
Phenanthrene	3.46	0.20	5	0	69.2	45-121	0			
Phenol	3.182	0.20	5	0	63.6	20-124	0			
Pyrene	3.469	0.20	5	0	69.4	40-130	0			
Surr: 2,4,6-Tribromophenol	*3.344*	0.20	*5*	0	*66.9*	*34-129*	0			
Surr: 2-Fluorobiphenyl	*3.164*	0.20	*5*	0	*63.3*	*40-125*	0			
Surr: 2-Fluorophenol	*2.586*	0.20	*5*	0	*51.7*	*20-120*	0			
Surr: 4-Terphenyl-d14	*2.846*	0.20	*5*	0	*56.9*	*40-135*	0			
Surr: Nitrobenzene-d5	*3.138*	0.20	*5*	0	*62.8*	*41-120*	0			
Surr: Phenol-d6	*3.086*	0.20	*5*	0	*61.7*	*20-120*	0			

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

Client: Pastor, Behling & Wheeler, LLC
Work Order: 1007401
Project: Waste Characterization

QC BATCH REPORT

Batch ID: **44654** Instrument ID **SV-4** Method: **SW8270**

LCSD Sample ID: **SLCSDW2-100720-44654** Units: **µg/L** Analysis Date: **7/21/2010 04:57 PM**

Client ID: Run ID: **SV-4_100721A** SeqNo: **2036008** Prep Date: **7/20/2010** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Diphenylhydrazine	2.382	0.20	5	0	47.6	39-127	2.734	13.8	20	
2,4-Dimethylphenol	3.043	0.20	5	0	60.9	35-120	3.165	3.91	20	
2,4-Dinitrotoluene	3.457	0.20	5	0	69.1	50-122	3.788	9.14	20	
2,6-Dinitrotoluene	3.636	0.20	5	0	72.7	50-120	3.921	7.56	20	
2-Chloronaphthalene	4.214	0.20	5	0	84.3	50-120	3.744	11.8	20	
2-Methylnaphthalene	3.294	0.20	5	0	65.9	50-120	3.446	4.51	20	
4,6-Dinitro-2-methylphenol	2.733	0.20	5	0	54.7	25-121	3.313	19.2	20	
4-Nitrophenol	4.294	1.0	5	0	85.9	30-130	3.814	11.8	20	
Acenaphthene	2.831	0.20	5	0	56.6	45-120	3.082	8.49	20	
Acenaphthylene	3.236	0.20	5	0	64.7	47-120	3.362	3.82	20	
Anthracene	3.347	0.20	5	0	66.9	45-120	3.52	5.02	20	
Benz(a)anthracene	3.32	0.20	5	0	66.4	40-120	3.582	7.59	20	
Benzo(a)pyrene	3.607	0.20	5	0	72.1	45-120	3.494	3.19	20	
Bis(2-chloroethoxy)methane	3.012	0.20	5	0	60.2	45-120	3.221	6.72	20	
Bis(2-ethylhexyl)phthalate	3.626	0.20	5	0	72.5	40-139	3.916	7.69	20	
Chrysene	3.276	0.20	5	0	65.5	43-120	3.518	7.13	20	
Di-n-butyl phthalate	3.654	0.20	5	0	73.1	45-123	3.784	3.49	20	
Dibenzofuran	3.153	0.20	5	0	63.1	50-120	3.417	8.05	20	
Fluoranthene	3.539	0.20	5	0	70.8	45-125	3.832	7.95	20	
Fluorene	3.709	0.20	5	0	74.2	49-120	3.337	10.6	20	
N-Nitrosodiphenylamine	2.37	0.20	5	0	47.4	40-125	2.7	13	20	
Naphthalene	3.183	0.20	5	0	63.7	45-120	3.356	5.3	20	
Nitrobenzene	3.12	0.20	5	0	62.4	44-120	3.281	5.04	20	
Pentachlorophenol	1.98	0.20	5	0	39.6	19-121	2.059	3.94	20	
Phenanthrene	3.21	0.20	5	0	64.2	45-121	3.46	7.49	20	
Phenol	2.875	0.20	5	0	57.5	20-124	3.182	10.1	20	
Pyrene	4.236	0.20	5	0	84.7	40-130	3.469	19.9	20	
Surr: 2,4,6-Tribromophenol	*3.702*	0.20	*5*	0	*74*	*34-129*	3.344	*10.2*	*20*	
Surr: 2-Fluorobiphenyl	*3.482*	0.20	*5*	0	*69.6*	*40-125*	3.164	*9.56*	*20*	
Surr: 2-Fluorophenol	*2.213*	0.20	*5*	0	*44.3*	*20-120*	2.586	*15.5*	*20*	
Surr: 4-Terphenyl-d14	*3.985*	0.20	*5*	0	*79.7*	*40-135*	2.846	*33.4*	*20*	*R*
Surr: Nitrobenzene-d5	*3.082*	0.20	*5*	0	*61.6*	*41-120*	3.138	*1.81*	*20*	
Surr: Phenol-d6	*2.927*	0.20	*5*	0	*58.5*	*20-120*	3.086	*5.28*	*20*	

The following samples were analyzed in this batch: 1007401-01D

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

Client: Pastor, Behling & Wheeler, LLC
Work Order: 1007401
Project: Waste Characterization

QC BATCH REPORT

Batch ID: **R94066** Instrument ID **WetChem** Method: **SM4500H+ B**

LCS Sample ID: **WLCS-071510-R94066** Units: **pH units** Analysis Date: **7/15/2010**
Client ID: Run ID: **WETCHEM_100715A** SeqNo: **2028108** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	6.01	0.10	6	0	100	90-110	0			

DUP Sample ID: **1007359-01BDUP** Units: **pH units** Analysis Date: **7/15/2010**
Client ID: Run ID: **WETCHEM_100715A** SeqNo: **2028112** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	7.96	0.10	0	0	0	0-0	7.98	0.251	20	H

The following samples were analyzed in this batch: 1007401-01C

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

Client: Pastor, Behling & Wheeler, LLC
Work Order: 1007401
Project: Waste Characterization

QC BATCH REPORT

Batch ID: **R94101** Instrument ID **WetChem** Method: **SW1010**

LCS Sample ID: **WLCS-071510-R94101** Units: **°F** Analysis Date: **7/15/2010**
Client ID: Run ID: **WETCHEM_100715C** SeqNo: **2028899** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ignitability	83	50	83	0	100	80-120	0			

DUP Sample ID: **1007356-01ADUP** Units: **°F** Analysis Date: **7/15/2010**
Client ID: Run ID: **WETCHEM_100715C** SeqNo: **2028903** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ignitability	U	50	0	0	0	0-0	0	0	25	

The following samples were analyzed in this batch: 1007401-01C

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

Client: Pastor, Behling & Wheeler, LLC
Project: Waste Characterization
WorkOrder: **1007401**

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

Acronym	Description
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 Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Units Reported	Description
°F	Farenheit degrees
µg/L	Micrograms per Liter
mg/Kg	Milligrams per Kilogram
mg/L	Milligrams per Liter
pH units	

ALS Laboratory Group
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

Chain of Custody Form

Page 1 of 1

ALS Laboratory Group
3352 128th Ave.
Holland, MI 49424-9263
Tel: +1 616 399 6070
Fax: +1 616 399 6185

ALS Project Manager: | **ALS Work Order #:** 10150

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	Waste Characterization	A	BTEX (8021)
Work Order		Project Number	1620	B	TPH (TX 1005)
Company Name	Pastor, Behling & Wheeler, LLC	Bill To Company	Union Pacific Railroad	C	LOW SVOC (8270) Select
Send Report To	Eric Matzner	Invoice Attn		D	RCI Profile
Address	2201 Double Creek Drive Suite 4004	Address	1400 Douglas Street Stop 0750	E	TCLP SVOC (SW-846)
				F	
City/State/Zip	Round Rock, TX 78664	City/State/Zip	Omaha, NE 681790750	G	
Phone	(512) 671-3434	Phone		H	
Fax	(512) 671-3446	Fax		I	
e-Mail Address		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-V150-20100713	7-13-10	1720			10	X	X	X	X	X						
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: JOHN BRAATEN

Shipment Method: HAND DELIVERED

Required Turnaround Time: (Check Box) ☐ Other ☐ Std 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 1 Wk Days ☐ 24 Hour

Results Due Date:

Relinquished by: John Braaten	Date: 7-13-10	Time: 18:25	Received by:	Notes:
Relinquished by:	Date:	Time:	Received by (Laboratory): 7/13/10 15:25	Cooler ID / Cooler Temp.
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	

QC Package: (Check One Box Below)
- ☐ Level II Std QC
- ☐ Level III Std QC/Raw Data
- ☐ Level IV SW846/CLP
- ☐ Other / EDD _____
- ☐ TRRP CheckList
- ☐ TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note:
1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.
2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group 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.

ALS Laboratory Group

Sample Receipt Checklist

Client Name: **PBW** Date/Time Received: **13-Jul-10 18:25**

Work Order: **1007401** Received by: **RNG**

Checklist completed by Richard Sanchez (eSignature) 14-Jul-10 (Date) Reviewed by: R. Kevin Given (eSignature) 15-Jul-10 (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 ☐	
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):	2.3c	002	
Cooler(s)/Kit(s):	1608		
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:

ALS Laboratory Group

Date: 17-Jul-10

Client: ALS Laboratory Group
Project: 1007401
Work Order: **1007328**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1007328-01	1007401-01F	Water		7/13/2010 17:20	7/15/2010 10:15	☐

ALS Laboratory Group

Date: 17-Jul-10

Client: ALS Laboratory Group
Project: 1007401
WorkOrder: **1007328**

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
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

Acronym	Description
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

Units Reported	Description
mg/Kg	Milligrams per Kilogram

ALS Laboratory Group

Date: *17-Jul-10*

Client: ALS Laboratory Group
Project: 1007401
Work Order: 1007328
Sample ID: 1007401-01F
Lab ID: 1007328-01
Collection Date: 7/13/2010 05:20 PM
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
CYANIDE, REACTIVE			**SW7.3.3.2**			Analyst: **EE**
Cyanide, Reactive	ND		40.0	mg/Kg	1	7/15/2010 12:00 PM
SULFIDE, REACTIVE			**SW7.3.4.2**			Analyst: **EE**
Sulfide, Reactive	ND		40.0	mg/Kg	1	7/15/2010 12:00 PM

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

Client: ALS Laboratory Group

Work Order: 1007328

Project: 1007401

QC BATCH REPORT

Batch ID: **R79137** Instrument ID **WETCHEM** Method: **SW7.3.4.2**

MBLK Sample ID: **WBLKW1-071510-R79137** Units: **mg/Kg** Analysis Date: **7/15/2010 12:00 PM**

Client ID: Run ID: **WETCHEM_100715B** SeqNo: **1367608** Prep Date: DF: **1**

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: 1007328-01A

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

Client: ALS Laboratory Group
Work Order: 1007328
Project: 1007401

QC BATCH REPORT

Batch ID: **R79138** Instrument ID **WETCHEM** Method: **SW7.3.3.2**

MBLK Sample ID: **WBLKW1-071510-R79138** Units: **mg/Kg** Analysis Date: **7/15/2010 12:00 PM**
Client ID: Run ID: **WETCHEM_100715C** SeqNo: **1367612** 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: **WLCSW1-071510-R79138** Units: **mg/Kg** Analysis Date: **7/15/2010 12:00 PM**
Client ID: Run ID: **WETCHEM_100715C** SeqNo: **1367613** 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	0			

LCSD Sample ID: **WLCSDW1-071510-R79138** Units: **mg/Kg** Analysis Date: **7/15/2010 12:00 PM**
Client ID: Run ID: **WETCHEM_100715C** SeqNo: **1367619** 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	75-125	234.9	6.06	35	

MS Sample ID: **1007328-01A MS** Units: **mg/Kg** Analysis Date: **7/15/2010 12:00 PM**
Client ID: **1007401-01F** Run ID: **WETCHEM_100715C** SeqNo: **1367617** 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: **1007328-01A MSD** Units: **mg/Kg** Analysis Date: **7/15/2010 12:00 PM**
Client ID: **1007401-01F** Run ID: **WETCHEM_100715C** SeqNo: **1367618** 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	50-150	249.6	6.06	35	

The following samples were analyzed in this batch: 1007328-01A

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

1007328

Subcontractor:
ALS Laboratory Group
3352 128th Ave.
Holland, MI 49424

TEL: (616) 399-6070
FAX: (616) 399-6185
Acct #:

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Date: 14-Jul-10
COC ID: 9078
Due Date 22-Jul-10

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	1007401	A	Reactive Cyanide (SW-846)
Work Order		Project Number		B	Reactive Sulfide (SW-846)
Company Name	ALS Group USA, Corp.	Bill To Company	ALS Group USA, Corp.	C	
Send Report To	R. Kevin Given	Inv Attn	Accounts Payable	D	
Address	10450 Stancliff Rd, Suite 210	Address	10450 Stancliff Rd, Suite 210	E	
				F	
City/State/Zip	Houston, Texas 77099-4338	City/State/Zip	Houston, Texas 77099-4338	G	
Phone	(281) 530-5656	Phone	(281) 530-5656	H	
Fax	(281) 530-5887	Fax	(281) 530-5887	I	
eMail Address	kevin.given@alsenviro.com	eMail CC	glenda.ramos@alsenviro.com	J	

Sample ID	Matrix	Collection Date 24hr	Bottle	A	B	C	D	E	F	G	H	I	J
1007401-01F (WG-1620-V150-201007	Water	7/13/2010 17:20	1) 1LPNAOH/C6H8O6	X	X								

Comments:

Relinquished by:	Date/Time	Received by:	Date/Time	Cooler IDs	Report/QC Level
					Std
Relinquished by:	Date/Time	Received by:	Date/Time		
	7-14-10		7/15/10 1015	2.6°C	

ALS Laboratory Group

Sample Receipt Checklist

Client Name: **ALS - HOUSTON** Date/Time Received: **15-Jul-10 10:15**

Work Order: **1007328** Received by: **DS**

Checklist completed by Diane Shaw (eSignature) 15-Jul-10 (Date) Reviewed by: Ann Preston (eSignature) 15-Jul-10 (Date)

Matrices: Water
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):	2.6 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:

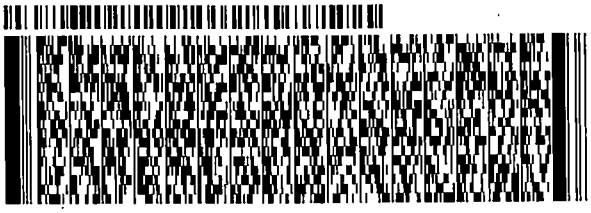
ORIGIN ID: JGQA (281) 530-5656
SHIPPING DEPT
ALS LABORATORY GROUP
10450 STANCLIFF
SUITE 210
HOUSTON, TX 77099
UNITED STATES US

SHIP DATE: 14JUL10
ACTWGT: 31.4 LB
CAD: 300130/CAFE2453

BILL SENDER

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

HOLLAND MI 49424
(616) 399-6070
REF: SUB CONTRACT



FedEx
Express

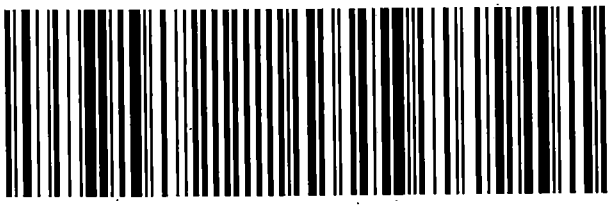
J892008911302223

THU - 15JUL A4
PRIORITY OVERNIGHT

TRK# 0201 **4340 2160 3676**

49424
MI-US
GRR

NI GRRA



Part # 156148-434 NRIT V3 12-09