PDC Laboratories, Inc.

PROFESSIONAL • DEPENDABLE • COMMITTED

November 17, 2015

Toni Paulus
Alton Steel, Inc.
5 Cut St
Alton, IL 62002

Dear Toni Paulus:

Please find enclosed the analytical results for the sample(s) the laboratory received on **11/5/15 2:15 pm** and logged in under work order **5111306**. All testing is performed according to our current TNI certifications unless otherwise noted. This report cannot be reproduced, except in full, without the written permission of PDC Laboratories, Inc.

If you have any questions regarding your report, please contact your project manager. Quality and timely data is of the utmost importance to us.

PDC Laboratories, Inc. appreciates the opportunity to provide you with analytical expertise. We are always trying to improve our customer service and we welcome you to contact the Vice President, John LaPayne with any feedback you have about your experience with our laboratory.

Sincerely,

Roxann Shull

Roxann Shull
Client Services Supervisor
(314) 432-0550
rshull@pdclab.com

NELAP ACCREDITED TNI LABORATORY

PDC Laboratories, Inc.
3278 North Highway 67
Florissant, MO 63033
(800) 333-3278

ANALYTICAL RESULTS

Sample: 5111306-01
Name: WWTP Sludge Lagoon
Matrix: Solid

Sampled: 11/05/15 11:35
Received: 11/05/15 14:15
PO #: NR 27349

Parameter	Result	Unit	Qualifier	Prepared	Analyzed	Analyst	Method
General Chemistry - PIA							
Solids - total solids (TS)	47	%		11/10/15 09:29	11/10/15 10:00	KMN	SM 2540G*
General Chemistry - STL							
Paint Filter	Pass			11/10/15 10:31	11/10/15 10:31	KMN	SW 9095
pH	8.84	pH Units	H	11/10/15 14:31	11/10/15 16:04	KMN	SW 9045
Polychlorinated Biphenyls (PCBs) - STL							
Aroclor 1016	< 710	ug/kg dry		11/13/15 08:57	11/13/15 19:08	BP	SW 8082*
Aroclor 1221	< 710	ug/kg dry		11/13/15 08:57	11/13/15 19:08	BP	SW 8082*
Aroclor 1232	< 710	ug/kg dry		11/13/15 08:57	11/13/15 19:08	BP	SW 8082*
Aroclor 1242	< 710	ug/kg dry		11/13/15 08:57	11/13/15 19:08	BP	SW 8082*
Aroclor 1248	< 710	ug/kg dry		11/13/15 08:57	11/13/15 19:08	BP	SW 8082*
Aroclor 1254	< 710	ug/kg dry		11/13/15 08:57	11/13/15 19:08	BP	SW 8082*
Aroclor 1260	< 710	ug/kg dry		11/13/15 08:57	11/13/15 19:08	BP	SW 8082*
Aroclors - Total	< 710	ug/kg dry		11/13/15 08:57	11/13/15 19:08	BP	SW 8082*
Surrogate: Decachlorobiphenyl	*441 %*	*10-172*	*S*	*11/13/15 08:57*	*11/13/15 19:08*	*BP*	*SW 8082**
Surrogate: TCMX	*107 %*	*10-173*	*S*	*11/13/15 08:57*	*11/13/15 19:08*	*BP*	*SW 8082**
Semivolatile Organics - STL							
1,2,4-Trichlorobenzene	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
1,2-Dichlorobenzene	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
1,3-Dichlorobenzene	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
1,4-Dichlorobenzene	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
2,4,5-Trichlorophenol	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
Surrogate: 2,4,6-Tribromophenol	*64 %*	*10-95.9*		*11/11/15 07:30*	*11/13/15 21:35*	*BP*	*SW 8270C**
2,4,6-Trichlorophenol	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
2,4-Dichlorophenol	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
2,4-Dimethylphenol	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
2,4-Dinitrophenol	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
2,4-Dinitrotoluene	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
2,6-Dimethylaniline	< 3630	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C*
2,6-Dinitrotoluene	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
2-Chloronaphthalene	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
2-Chlorophenol	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
Surrogate: 2-Fluorobiphenyl	*73 %*	*10-113*		*11/11/15 07:30*	*11/13/15 21:35*	*BP*	*SW 8270C**
Surrogate: 2-Fluorophenol	*96 %*	*10-95.1*		*11/11/15 07:30*	*11/13/15 21:35*	*BP*	*SW 8270C**
2-Methylnaphthalene	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
2-Methylphenol	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
2-Nitroaniline	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
2-Nitrophenol	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
3- & 4-Methylphenol	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
3,3'-Dichlorobenzidine	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C

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Matrix: Solid

Sampled: 11/05/15 11:35
Received: 11/05/15 14:15
PO #: NR 27349

Parameter	Result	Unit	Qualifier	Prepared	Analyzed	Analyst	Method
3-Nitroaniline	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
4,6-Dinitro-2-methylphenol	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
4-Bromophenyl phenyl ether	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
4-Chloro-3-methylphenol	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
4-Chloroaniline	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
4-Chlorophenylphenyl ether	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
4-Nitroaniline	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
4-Nitrophenol	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
Acenaphthene	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
Acenaphthylene	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
Aniline	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
Anthracene	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
Azobenzene	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C*
Benzidine	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C*
Benzo(a)anthracene	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
Benzo(a)pyrene	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
Benzo(b)fluoranthene	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
Benzo(g,h,i)perylene	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
Benzo(k)fluoranthene	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
Benzoic Acid	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
Benzyl alcohol	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
Bis(2-chloroethoxy) methane	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
Bis(2-chloroethyl) ether	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
Bis(2-chloroisopropyl) ether	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C*
Bis(2-ethylhexyl) phthalate	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
Butyl benzyl phthalate	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
Carbazole	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C*
Chrysene	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
Dibenzo(a,h)anthracene	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
Dibenzofuran	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
Diethyl phthalate	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
Dimethyl phthalate	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
Di-n-butyl phthalate	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
Di-n-octyl phthalate	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
Diphenylamine	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
Fluoranthene	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
Fluorene	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
Hexachlorobenzene	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
Hexachlorobutadiene	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
Hexachlorocyclopentadiene	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
Hexachloroethane	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
Indeno(1,2,3-cd)pyrene	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
Isophorone	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C

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Received: 11/05/15 14:15
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Naphthalene	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
Nitrobenzene	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
Surrogate: Nitrobenzene-d5	*83 %*	*11.6-107*		*11/11/15 07:30*	*11/13/15 21:35*	*BP*	*SW 8270C**
N-Nitrosodimethylamine	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
N-Nitrosodi-n-propylamine	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
Pentachlorophenol	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
Phenanthrene	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
Phenol	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
Surrogate: Phenol- d5	*90 %*	*10-100*		*11/11/15 07:30*	*11/13/15 21:35*	*BP*	*SW 8270C**
Surrogate: p-Terphenyl-d14	*75 %*	*12.9-114*		*11/11/15 07:30*	*11/13/15 21:35*	*BP*	*SW 8270C**
Pyrene	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
Pyridine	< 7040	ug/kg dry		11/11/15 07:30	11/13/15 21:35	BP	SW 8270C
TCLP Metals - STL							
Arsenic	< 0.30	mg/L		11/11/15 14:49	11/12/15 12:25	WPS	SW 6010
Barium	0.85	mg/L		11/11/15 14:49	11/12/15 12:25	WPS	SW 6010
Cadmium	< 0.040	mg/L		11/11/15 14:49	11/12/15 12:25	WPS	SW 6010
Chromium	< 0.040	mg/L		11/11/15 14:49	11/12/15 12:25	WPS	SW 6010
Final pH	6.1			11/10/15 13:30	11/11/15 10:43	KMN	SW 1311
Lead	< 0.20	mg/L		11/11/15 14:49	11/12/15 12:25	WPS	SW 6010
Mercury	< 0.0020	mg/L		11/12/15 07:23	11/12/15 11:10	WPS	SW 7470
Selenium	< 0.20	mg/L		11/11/15 14:49	11/12/15 12:25	WPS	SW 6010
Silver	< 0.030	mg/L		11/11/15 14:49	11/12/15 12:25	WPS	SW 6010
Volatile Organics - STL							
1,1,1,2-Tetrachloroethane	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
1,1,1-Trichloroethane	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
1,1,2,2-Tetrachloroethane	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon)	< 49	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B*
1,1,2-Trichloroethane	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
1,1-Dichloroethane	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
1,1-Dichloroethene	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
1,1-Dichloropropene	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
1,2,3-Trichlorobenzene	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
1,2,3-Trichloropropane	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
1,2,4-Trichlorobenzene	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
1,2,4-Trimethylbenzene	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
1,2-Dibromo-3-chloropropane	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B*
1,2-Dibromoethane	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
1,2-Dichlorobenzene	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
1,2-Dichloroethane	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
Surrogate: 1,2-Dichloroethane-d4	*77 %*	*67.7-135*		*11/13/15 13:52*	*11/13/15 20:09*	*BP*	*SW 8260B**
1,2-Dichloroethene- Total	< 49	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B*

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1,2-Dichloropropane	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
1,3,5-Trimethylbenzene	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
1,3-Dichlorobenzene	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
1,3-Dichloropropane	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
1,3-Dichloropropene - Total	< 49	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B*
1,4-Dichlorobenzene	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
1,4-Dioxane	< 240	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B*
2,2-Dichloropropane	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
2-Butanone	< 49	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
2-Chloroethylvinyl ether	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
2-Chlorotoluene	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
2-Hexanone	< 49	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
2-Nitropropane	< 49	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
4-Chlorotoluene	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
4-Methyl-2-pentanone (MIBK)	< 49	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
Acetone	< 49	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
Acetonitrile	< 240	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
Acrolein	< 240	ug/kg dry	Q3	11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
Acrylonitrile	< 49	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
Allyl Chloride	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
Benzene	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
Bromobenzene	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
Bromochloromethane	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
Bromodichloromethane	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
Surrogate: Bromofluorobenzene	*89 %*	*64.5-133*		*11/13/15 13:52*	*11/13/15 20:09*	*BP*	*SW 8260B**
Bromoform	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
Bromomethane	< 49	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
Carbon disulfide	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
Carbon tetrachloride	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
Chlorobenzene	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
Chloroethane	< 49	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
Chloroform	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
Chloromethane	< 49	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
cis-1,2-Dichloroethene	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
cis-1,3-Dichloropropene	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
Dibromochloromethane	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
Dibromomethane	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
Dichlorodifluoromethane	< 49	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
Ethyl methacrylate	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B*
Ethylbenzene	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
Hexachlorobutadiene	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
Iodomethane	< 49	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
Isobutanol	< 240	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B*

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Received: 11/05/15 14:15
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Isopropylbenzene	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
m,p-Xylene	< 49	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
Methacrylonitrile	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B*
Methyl methacrylate	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
Methylene chloride	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
MTBE	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
Naphthalene	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
n-Butylbenzene	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
n-Propylbenzene	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
o-Xylene	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
p-Isopropyl toluene	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
Propionitrile	< 49	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
sec-Butylbenzene	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
Styrene	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
tert-Butylbenzene	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
Tetrachloroethene	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
Toluene	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
Surrogate: Toluene-d8	*86 %*	*69.3-125*		*11/13/15 13:52*	*11/13/15 20:09*	*BP*	*SW 8260B**
trans-1,2-Dichloroethene	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
trans-1,3-Dichloropropene	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
trans-1,4-Dichloro-2-butene	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B*
Trichloroethene	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
Trichlorofluoromethane	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
Vinyl acetate	< 49	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
Vinyl chloride	< 24	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B
Xylenes- Total	< 73	ug/kg dry		11/13/15 13:52	11/13/15 20:09	BP	SW 8260B*

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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B518653 - 04 SW 3550 (625/8270) - SW 8270C									
Blank (B518653-BLK1)				Prepared: 11/11/15 Analyzed: 11/12/15					
1,2,4-Trichlorobenzene	< 330	ug/kg wet							
1,2-Dichlorobenzene	< 330	ug/kg wet							
1,3-Dichlorobenzene	< 330	ug/kg wet							
1,4-Dichlorobenzene	< 330	ug/kg wet							
2,4,5-Trichlorophenol	< 330	ug/kg wet							
2,4,6-Trichlorophenol	< 330	ug/kg wet							
2,4-Dichlorophenol	< 330	ug/kg wet							
2,4-Dimethylphenol	< 330	ug/kg wet							
2,4-Dinitrophenol	< 330	ug/kg wet							
2,4-Dinitrotoluene	< 330	ug/kg wet							
2,6-Dimethylaniline	< 170	ug/kg wet							
2,6-Dinitrotoluene	< 330	ug/kg wet							
2-Chloronaphthalene	< 330	ug/kg wet							
2-Chlorophenol	< 330	ug/kg wet							
2-Methylnaphthalene	< 330	ug/kg wet							
2-Methylphenol	< 330	ug/kg wet							
2-Nitroaniline	< 330	ug/kg wet							
2-Nitrophenol	< 330	ug/kg wet							
3- & 4-Methylphenol	< 330	ug/kg wet							
3,3'-Dichlorobenzidine	< 330	ug/kg wet							
3-Nitroaniline	< 330	ug/kg wet							
4,6-Dinitro-2-methylphenol	< 330	ug/kg wet							
4-Bromophenyl phenyl ether	< 330	ug/kg wet							
4-Chloro-3-methylphenol	< 330	ug/kg wet							
4-Chloroaniline	< 330	ug/kg wet							
4-Chlorophenylphenyl ether	< 330	ug/kg wet							
4-Nitroaniline	< 330	ug/kg wet							
4-Nitrophenol	< 330	ug/kg wet							
Acenaphthene	< 330	ug/kg wet							
Acenaphthylene	< 330	ug/kg wet							
Aniline	< 330	ug/kg wet							
Anthracene	< 330	ug/kg wet							
Azobenzene	< 330	ug/kg wet							
Benzidine	< 330	ug/kg wet							
Benzo(a)anthracene	< 330	ug/kg wet							
Benzo(a)pyrene	< 330	ug/kg wet							
Benzo(b)fluoranthene	< 330	ug/kg wet							
Benzo(g,h,i)perylene	< 330	ug/kg wet							
Benzo(k)fluoranthene	< 330	ug/kg wet							
Benzoic Acid	< 330	ug/kg wet							
Benzyl alcohol	< 330	ug/kg wet							
Bis(2-chloroethoxy) methane	< 330	ug/kg wet							
Bis(2-chloroethyl) ether	< 330	ug/kg wet							
Bis(2-chloroisopropyl) ether	< 330	ug/kg wet							
Bis(2-ethylhexyl) phthalate	< 330	ug/kg wet							

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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B518653 - 04 SW 3550 (625/8270) - SW 8270C									
Blank (B518653-BLK1)				Prepared: 11/11/15 Analyzed: 11/12/15					
Butyl benzyl phthalate	< 330	ug/kg wet							
Carbazole	< 330	ug/kg wet							
Chrysene	< 330	ug/kg wet							
Dibenzo(a,h)anthracene	< 330	ug/kg wet							
Dibenzofuran	< 330	ug/kg wet							
Diethyl phthalate	< 330	ug/kg wet							
Dimethyl phthalate	< 330	ug/kg wet							
Di-n-butyl phthalate	< 330	ug/kg wet							
Di-n-octyl phthalate	< 330	ug/kg wet							
Diphenylamine	< 330	ug/kg wet							
Fluoranthene	< 330	ug/kg wet							
Fluorene	< 330	ug/kg wet							
Hexachlorobenzene	< 330	ug/kg wet							
Hexachlorobutadiene	< 330	ug/kg wet							
Hexachlorocyclopentadiene	< 330	ug/kg wet							
Hexachloroethane	< 330	ug/kg wet							
Indeno(1,2,3-cd)pyrene	< 330	ug/kg wet							
Isophorone	< 330	ug/kg wet							
Naphthalene	< 330	ug/kg wet							
Nitrobenzene	< 330	ug/kg wet							
N-Nitrosodimethylamine	< 330	ug/kg wet							
N-Nitrosodi-n-propylamine	< 330	ug/kg wet							
Pentachlorophenol	< 330	ug/kg wet							
Phenanthrene	< 330	ug/kg wet							
Phenol	< 330	ug/kg wet							
Pyrene	< 330	ug/kg wet							
Pyridine	< 330	ug/kg wet							
Surrogate: 2-Fluorophenol	*2100*	*ug/kg wet*		*2667*		*80*	*10-95.1*		
Surrogate: Phenol- d5	*2000*	*ug/kg wet*		*2667*		*73*	*10-100*		
Surrogate: Nitrobenzene-d5	*1700*	*ug/kg wet*		*2667*		*64*	*11.6-107*		
Surrogate: 2-Fluorobiphenyl	*1700*	*ug/kg wet*		*2667*		*62*	*10-113*		
Surrogate: 2,4,6-Tribromophenol	*1600*	*ug/kg wet*		*2667*		*60*	*10-95.9*		
Surrogate: p-Terphenyl-d14	*1800*	*ug/kg wet*		*2667*		*67*	*12.9-114*		
LCS (B518653-BS1)				Prepared & Analyzed: 11/11/15					
1,2,4-Trichlorobenzene	1480	ug/kg wet		2667		55	27.8-100		
1,2-Dichlorobenzene	1670	ug/kg wet		2667		63	34.2-97		
1,3-Dichlorobenzene	1650	ug/kg wet		2667		62	32.6-98.9		
1,4-Dichlorobenzene	1650	ug/kg wet		2667		62	33.4-95.5		
2,4,5-Trichlorophenol	1690	ug/kg wet		2667		63	27.8-121		
2,4,6-Trichlorophenol	1580	ug/kg wet		2667		59	30.9-116		
2,4-Dichlorophenol	1600	ug/kg wet		2667		60	36.3-102		
2,4-Dimethylphenol	1720	ug/kg wet		2667		64	35.7-105		
2,4-Dinitrophenol	1710	ug/kg wet		2667		64	24.1-112		
2,4-Dinitrotoluene	1700	ug/kg wet		2667		64	37.7-97.8		
2,6-Dinitrotoluene	1630	ug/kg wet		2667		61	34.8-94.8		

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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B518653 - 04 SW 3550 (625/8270) - SW 8270C									
LCS (B518653-BS1)				Prepared & Analyzed: 11/11/15					
2-Chloronaphthalene	1720	ug/kg wet		2667		65	33.9-98.9		
2-Chlorophenol	1950	ug/kg wet		2667		73	34.8-106		
2-Methylphenol	2050	ug/kg wet		2667		77	39.7-113		
2-Nitrophenol	1850	ug/kg wet		2667		69	35.9-108		
3- & 4-Methylphenol	2270	ug/kg wet		2667		85	25.7-143		
3,3'-Dichlorobenzidine	1210	ug/kg wet		2667		45	11-106		
4,6-Dinitro-2-methylphenol	1730	ug/kg wet		2667		65	29.2-111		
4-Bromophenyl phenyl ether	1520	ug/kg wet		2667		57	32.5-96.7		
4-Chloro-3-methylphenol	1740	ug/kg wet		2667		65	36.9-105		
4-Chlorophenylphenyl ether	1420	ug/kg wet		2667		53	33.7-97.3		
4-Nitrophenol	2150	ug/kg wet		2667		81	29.6-125		
Acenaphthene	1750	ug/kg wet		2667		66	34.6-99.4		
Acenaphthylene	1610	ug/kg wet		2667		60	35-93.7		
Anthracene	1700	ug/kg wet		2667		64	36-100		
Azobenzene	1790	ug/kg wet		2667		67	39.8-104		
Benzidine	323	ug/kg wet		2667		12	10-47.4		
Benzo(a)anthracene	1530	ug/kg wet		2667		58	31.5-99		
Benzo(a)pyrene	1760	ug/kg wet		2667		66	39.7-95.5		
Benzo(b)fluoranthene	1800	ug/kg wet		2667		68	40.7-97.4		
Benzo(g,h,i)perylene	1840	ug/kg wet		2667		69	38.6-106		
Benzo(k)fluoranthene	1640	ug/kg wet		2667		62	38.9-97.5		
Benzoic Acid	1670	ug/kg wet		2667		62	29.1-123		
Bis(2-chloroethoxy) methane	1880	ug/kg wet		2667		71	38.1-96.7		
Bis(2-chloroethyl) ether	1950	ug/kg wet		2667		73	36.9-95.9		
Bis(2-chloroisopropyl) ether	1790	ug/kg wet		2667		67	32-98.6		
Bis(2-ethylhexyl) phthalate	1990	ug/kg wet		2667		75	32.8-102		
Butyl benzyl phthalate	2050	ug/kg wet		2667		77	35.7-102		
Chrysene	1750	ug/kg wet		2667		66	33.8-101		
Dibenzo(a,h)anthracene	1770	ug/kg wet		2667		67	41-99.6		
Diethyl phthalate	1760	ug/kg wet		2667		66	38.4-95.9		
Dimethyl phthalate	1600	ug/kg wet		2667		60	34.5-93.6		
Di-n-butyl phthalate	1910	ug/kg wet		2667		71	36.6-100		
Di-n-octyl phthalate	1980	ug/kg wet		2667		74	37.3-103		
Diphenylamine	1350	ug/kg wet		2667		51	10-116		
Fluoranthene	1560	ug/kg wet		2667		59	33.4-103		
Fluorene	1630	ug/kg wet		2667		61	38.2-99.1		
Hexachlorobenzene	1480	ug/kg wet		2667		56	36-100		
Hexachlorobutadiene	1310	ug/kg wet		2667		49	31.9-102		
Hexachlorocyclopentadiene	1070	ug/kg wet		2667		40	13.1-90.7		
Hexachloroethane	1700	ug/kg wet		2667		64	38.5-97.8		
Indeno(1,2,3-cd)pyrene	1880	ug/kg wet		2667		70	40.8-94.8		
Isophorone	1450	ug/kg wet		2667		54	32.7-83.1		
Naphthalene	1780	ug/kg wet		2667		67	37.6-96.6		
Nitrobenzene	1590	ug/kg wet		2667		60	41.4-98.1		
N-Nitrosodimethylamine	1750	ug/kg wet		2667		66	22-114		

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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B518653 - 04 SW 3550 (625/8270) - SW 8270C									
LCS (B518653-BS1)				Prepared & Analyzed: 11/11/15					
N-Nitrosodi-n-propylamine	1740	ug/kg wet		2667		65	34.9-98.6		
Pentachlorophenol	1830	ug/kg wet		2667		68	22.5-125		
Phenanthrene	1730	ug/kg wet		2667		65	36-103		
Phenol	1980	ug/kg wet		2667		74	36.6-106		
Pyrene	1620	ug/kg wet		2667		61	34.2-96.6		
2,6-Dichlorophenol	1530	ug/kg wet					0-200		
Surrogate: 2-Fluorophenol	*2100*	*ug/kg wet*		*2667*		*80*	*10-95.1*		
Surrogate: Phenol- d5	*2200*	*ug/kg wet*		*2667*		*82*	*10-100*		
Surrogate: Nitrobenzene-d5	*1700*	*ug/kg wet*		*2667*		*63*	*11.6-107*		
Surrogate: 2-Fluorobiphenyl	*1600*	*ug/kg wet*		*2667*		*62*	*10-113*		
Surrogate: 2,4,6-Tribromophenol	*1700*	*ug/kg wet*		*2667*		*65*	*10-95.9*		
Surrogate: p-Terphenyl-d14	*1700*	*ug/kg wet*		*2667*		*63*	*12.9-114*		
Batch B518657 - 04 SW 3550 (8081/8082) - SW 8082									
Blank (B518657-BLK1)				Prepared & Analyzed: 11/13/15					
Aroclor 1016	< 17	ug/kg wet							
Aroclor 1221	< 17	ug/kg wet							
Aroclor 1232	< 17	ug/kg wet							
Aroclor 1242	< 17	ug/kg wet							
Aroclor 1248	< 17	ug/kg wet							
Aroclor 1254	< 17	ug/kg wet							
Aroclor 1260	< 17	ug/kg wet							
Aroclors - Total	< 17	ug/kg wet							
Surrogate: TCMX	*5.9*	*ug/kg wet*		*6.667*		*89*	*10-173*		
Surrogate: Decachlorobiphenyl	*6.8*	*ug/kg wet*		*6.667*		*103*	*10-172*		
LCS (B518657-BS1)				Prepared & Analyzed: 11/13/15					
Aroclor 1016	131	ug/kg wet		166.7		79	46.6-121		
Aroclor 1260	113	ug/kg wet		166.7		68	43.7-125		
Surrogate: TCMX	*5.4*	*ug/kg wet*		*6.667*		*81*	*10-173*		
Surrogate: Decachlorobiphenyl	*6.0*	*ug/kg wet*		*6.667*		*90*	*10-172*		
Matrix Spike (B518657-MS1)	**Sample: 5111200-01**			Prepared & Analyzed: 11/13/15					
Aroclor 1016	292	ug/kg wet	Q4	166.7	ND	175	10-181		
Aroclor 1260	7190	ug/kg wet	Q4	166.7	6300	533	42-122		
Surrogate: TCMX	*2.2*	*ug/kg wet*		*6.667*		*32*	*10-173*		
Surrogate: Decachlorobiphenyl	*7.1*	*ug/kg wet*		*6.667*		*107*	*10-172*		
Matrix Spike Dup (B518657-MSD1)	**Sample: 5111200-01**			Prepared & Analyzed: 11/13/15					
Aroclor 1016	160	ug/kg wet	Q4	166.7	ND	96	10-181	58	40
Aroclor 1260	4360	ug/kg wet	Q4	166.7	6300	NR	42-122	49	40
Surrogate: TCMX	*2.1*	*ug/kg wet*		*6.667*		*32*	*10-173*		
Surrogate: Decachlorobiphenyl	*8.2*	*ug/kg wet*		*6.667*		*123*	*10-172*		
Batch B518937 - No Prep - SM 2540G									
Blank (B518937-BLK1)				Prepared & Analyzed: 11/10/15					
Solids - total solids (TS)	< 0.050	%							
Duplicate (B518937-DUP1)	**Sample: 5111306-01**			Prepared & Analyzed: 11/10/15					

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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B518937 - No Prep - SM 2540G									
Duplicate (B518937-DUP1)	**Sample: 5111306-01**			Prepared & Analyzed: 11/10/15					
Solids - total solids (TS)	44.6	%			46.8			5	5
Batch B518946 - 04-No Prep WC Solid - SW 9095									
Duplicate (B518946-DUP1)	**Sample: 5111306-01**			Prepared & Analyzed: 11/10/15					
Paint Filter	Pass	[blank]			ND				20
Batch B518980 - 04-SW 1311 - TCLP - SW 1311									
Blank (B518980-BLK2)				Prepared: 11/10/15 Analyzed: 11/11/15					
Final pH	0.00	[blank]							
Batch B518989 - 04-No Prep WC Solid - SW 9045									
Calibration Check (B518989-CCV1)				Prepared & Analyzed: 11/10/15					
pH	7.01	pH Units		7.000		100	0-200		
Duplicate (B518989-DUP1)	**Sample: 5111306-01**			Prepared & Analyzed: 11/10/15					
pH	8.86	pH Units	H		8.84			0.2	10
Batch B519081 - 04 SW 3010A TCLP - SW 6010									
Blank (B519081-BLK1)				Prepared: 11/11/15 Analyzed: 11/12/15					
Arsenic	< 0.030	mg/L							
Barium	< 0.020	mg/L							
Cadmium	< 0.0040	mg/L							
Chromium	< 0.0040	mg/L							
Lead	< 0.020	mg/L							
Selenium	< 0.020	mg/L							
Silver	< 0.0030	mg/L							
LCS (B519081-BS1)				Prepared: 11/11/15 Analyzed: 11/12/15					
Arsenic	0.191	mg/L		0.2000		95	80-120		
Barium	0.216	mg/L		0.2000		108	80-120		
Cadmium	0.200	mg/L		0.2000		100	80-120		
Chromium	0.199	mg/L		0.2000		100	80-120		
Lead	0.198	mg/L		0.2000		99	80-120		
Selenium	0.189	mg/L		0.2000		94	80-120		
Silver	0.0480	mg/L		0.05000		96	80-120		
Matrix Spike (B519081-MS1)	**Sample: 5111306-01**			Prepared: 11/11/15 Analyzed: 11/12/15					
Arsenic	50.2	mg/L		50.00	ND	100	50-150		
Barium	266	mg/L		250.0	0.848	106	50-150		
Cadmium	10.0	mg/L		10.00	ND	100	50-150		
Chromium	49.9	mg/L		50.00	ND	100	50-150		
Lead	47.9	mg/L		50.00	ND	96	50-150		
Selenium	10.1	mg/L		10.00	ND	101	50-150		
Silver	4.91	mg/L		5.000	ND	98	50-150		
Matrix Spike Dup (B519081-MSD1)	**Sample: 5111306-01**			Prepared: 11/11/15 Analyzed: 11/12/15					
Arsenic	48.9	mg/L		50.00	ND	98	50-150	3	20
Barium	259	mg/L		250.0	0.848	103	50-150	3	20
Cadmium	9.74	mg/L		10.00	ND	97	50-150	3	20

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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B519081 - 04 SW 3010A TCLP - SW 6010									
Matrix Spike Dup (B519081-MSD1)	**Sample: 5111306-01**			Prepared: 11/11/15 Analyzed: 11/12/15					
Chromium	48.6	mg/L		50.00	ND	97	50-150	3	20
Lead	46.7	mg/L		50.00	ND	93	50-150	3	20
Selenium	9.83	mg/L		10.00	ND	98	50-150	3	20
Silver	4.78	mg/L		5.000	ND	96	50-150	3	20
Batch B519099 - 04-SW 7470A/245.1 - SW 7470									
Blank (B519099-BLK1)				Prepared & Analyzed: 11/12/15					
Mercury	< 0.0002	mg/L							
LCS (B519099-BS1)				Prepared & Analyzed: 11/12/15					
Mercury	0.00197	mg/L		0.002000		98	85-115		
Matrix Spike (B519099-MS1)	**Sample: 5110751-12**			Prepared & Analyzed: 11/12/15					
Mercury	0.00212	mg/L		0.002000	ND	106	50-150		
Matrix Spike (B519099-MS2)	**Sample: 5111306-01**			Prepared & Analyzed: 11/12/15					
Mercury	0.0225	mg/L		0.02000	ND	112	50-150		
Matrix Spike Dup (B519099-MSD1)	**Sample: 5110751-12**			Prepared & Analyzed: 11/12/15					
Mercury	0.00223	mg/L		0.002000	ND	112	50-150	5	20
Matrix Spike Dup (B519099-MSD2)	**Sample: 5111306-01**			Prepared & Analyzed: 11/12/15					
Mercury	0.0213	mg/L		0.02000	ND	106	50-150	5	20
Batch B519225 - 04-No Prep VOA - SW 8260B									
Blank (B519225-BLK1)				Prepared & Analyzed: 11/13/15					
1,1,1,2-Tetrachloroethane	< 5.0	ug/kg wet							
1,1,1-Trichloroethane	< 5.0	ug/kg wet							
1,1,2,2-Tetrachloroethane	< 5.0	ug/kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon)	< 10	ug/kg wet							
1,1,2-Trichloroethane	< 5.0	ug/kg wet							
1,1-Dichloroethane	< 5.0	ug/kg wet							
1,1-Dichloroethene	< 5.0	ug/kg wet							
1,1-Dichloropropene	< 5.0	ug/kg wet							
1,2,3-Trichlorobenzene	< 5.0	ug/kg wet							
1,2,3-Trichloropropane	< 5.0	ug/kg wet							
1,2,4-Trichlorobenzene	< 5.0	ug/kg wet							
1,2,4-Trimethylbenzene	< 5.0	ug/kg wet							
1,2-Dibromo-3-chloropropane	< 5.0	ug/kg wet							
1,2-Dibromoethane	< 5.0	ug/kg wet							
1,2-Dichloroethene- Total	< 10	ug/kg wet							
1,2-Dichlorobenzene	< 5.0	ug/kg wet							
1,2-Dichloroethane	< 5.0	ug/kg wet							
1,2-Dichloropropane	< 5.0	ug/kg wet							
1,3,5-Trimethylbenzene	< 5.0	ug/kg wet							
1,3-Dichlorobenzene	< 5.0	ug/kg wet							
1,3-Dichloropropane	< 5.0	ug/kg wet							
1,3-Dichloropropene - Total	< 10	ug/kg wet							
1,4-Dichlorobenzene	< 5.0	ug/kg wet							
1,4-Dioxane	< 50	ug/kg wet							

PDC Laboratories, Inc.
3278 North Highway 67
Florissant, MO 63033
(800) 333-3278

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B519225 - 04-No Prep VOA - SW 8260B									
Blank (B519225-BLK1)				Prepared & Analyzed: 11/13/15					
2,2-Dichloropropane	< 5.0	ug/kg wet							
2-Butanone	< 10	ug/kg wet							
2-Chloroethylvinyl ether	< 5.0	ug/kg wet							
2-Chlorotoluene	< 5.0	ug/kg wet							
2-Hexanone	< 10	ug/kg wet							
2-Nitropropane	< 10	ug/kg wet							
4-Chlorotoluene	< 5.0	ug/kg wet							
4-Methyl-2-pentanone (MIBK)	< 10	ug/kg wet							
Acetone	< 10	ug/kg wet							
Acetonitrile	< 50	ug/kg wet							
Acrolein	< 50	ug/kg wet							
Acrylonitrile	< 10	ug/kg wet							
Allyl Chloride	< 5.0	ug/kg wet							
Benzene	< 5.0	ug/kg wet							
Bromobenzene	< 5.0	ug/kg wet							
Bromochloromethane	< 5.0	ug/kg wet							
Bromodichloromethane	< 5.0	ug/kg wet							
Bromoform	< 5.0	ug/kg wet							
Bromomethane	< 10	ug/kg wet							
Carbon disulfide	< 5.0	ug/kg wet							
Carbon tetrachloride	< 5.0	ug/kg wet							
Chlorobenzene	< 5.0	ug/kg wet							
Chloroethane	< 10	ug/kg wet							
Chloroform	< 5.0	ug/kg wet							
Chloromethane	< 10	ug/kg wet							
cis-1,2-Dichloroethene	< 5.0	ug/kg wet							
cis-1,3-Dichloropropene	< 5.0	ug/kg wet							
Dibromochloromethane	< 5.0	ug/kg wet							
Dibromomethane	< 5.0	ug/kg wet							
Dichlorodifluoromethane	< 10	ug/kg wet							
Ethyl methacrylate	< 5.0	ug/kg wet							
Ethylbenzene	< 5.0	ug/kg wet							
Hexachlorobutadiene	< 5.0	ug/kg wet							
Iodomethane	< 10	ug/kg wet							
Isobutanol	< 50	ug/kg wet							
Isopropylbenzene	< 5.0	ug/kg wet							
m,p-Xylene	< 10	ug/kg wet							
Methacrylonitrile	< 5.0	ug/kg wet							
Methyl methacrylate	< 5.0	ug/kg wet							
Methylene chloride	< 5.0	ug/kg wet							
MTBE	< 5.0	ug/kg wet							
Naphthalene	< 5.0	ug/kg wet	B1						
n-Butylbenzene	< 5.0	ug/kg wet							
n-Propylbenzene	< 5.0	ug/kg wet							
o-Xylene	< 5.0	ug/kg wet							

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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B519225 - 04-No Prep VOA - SW 8260B									
Blank (B519225-BLK1)				Prepared & Analyzed: 11/13/15					
p-Isopropyl toluene	< 5.0	ug/kg wet							
Propionitrile	< 10	ug/kg wet							
sec-Butylbenzene	< 5.0	ug/kg wet							
Styrene	< 5.0	ug/kg wet							
tert-Butylbenzene	< 5.0	ug/kg wet							
Tetrachloroethene	< 5.0	ug/kg wet							
Toluene	< 5.0	ug/kg wet							
trans-1,2-Dichloroethene	< 5.0	ug/kg wet							
trans-1,3-Dichloropropene	< 5.0	ug/kg wet							
trans-1,4-Dichloro-2-butene	< 5.0	ug/kg wet							
Trichloroethene	< 5.0	ug/kg wet							
Trichlorofluoromethane	< 5.0	ug/kg wet							
Vinyl acetate	< 10	ug/kg wet							
Vinyl chloride	< 5.0	ug/kg wet							
Xylenes- Total	< 15	ug/kg wet							
Surrogate: 1,2-Dichloroethane-d4	*25*	*ug/L*		*30.00*		*84*	*67.7-135*		
Surrogate: Toluene-d8	*29*	*ug/L*		*30.00*		*95*	*69.3-125*		
Surrogate: Bromofluorobenzene	*29*	*ug/L*		*30.00*		*95*	*64.5-133*		
LCS (B519225-BS1)				Prepared & Analyzed: 11/13/15					
1,1,1-Trichloroethane	19	ug/kg wet		20.00		94	74-121		
1,1,2,2-Tetrachloroethane	17	ug/kg wet		20.00		83	72-124		
1,1,2-Trichloroethane	19	ug/kg wet		20.00		93	82-121		
1,1-Dichloroethane	18	ug/kg wet		20.00		89	70-139		
1,1-Dichloroethene	18	ug/kg wet		20.00		88	65-120		
1,2-Dichlorobenzene	18	ug/kg wet		20.00		92	64-137		
1,2-Dichloroethane	17	ug/kg wet		20.00		85	77-129		
1,2-Dichloropropane	19	ug/kg wet		20.00		93	78-123		
1,3-Dichlorobenzene	20	ug/kg wet		20.00		98	63-140		
1,4-Dichlorobenzene	19	ug/kg wet		20.00		93	73-135		
2-Chloroethylvinyl ether	18	ug/kg wet		20.00		89	47-164		
Acrolein	164	ug/kg wet		200.0		82	26-133		
Acrylonitrile	16	ug/kg wet		20.00		80	48-123		
Benzene	17	ug/kg wet		20.00		87	74-122		
Bromodichloromethane	18	ug/kg wet		20.00		91	76-118		
Bromoform	20	ug/kg wet		20.00		98	75-153		
Bromomethane	17	ug/kg wet		20.00		84	38-145		
Carbon tetrachloride	18	ug/kg wet		20.00		92	70-133		
Chlorobenzene	21	ug/kg wet		20.00		104	73-133		
Chloroethane	14	ug/kg wet		20.00		70	63-141		
Chloroform	19	ug/kg wet		20.00		93	64-139		
Chloromethane	18	ug/kg wet		20.00		88	42-130		
cis-1,3-Dichloropropene	18	ug/kg wet		20.00		89	67-117		
Dibromochloromethane	20	ug/kg wet		20.00		99	83-116		
Ethylbenzene	19	ug/kg wet		20.00		96	74-133		
m,p-Xylene	38	ug/kg wet		40.00		95	71-130		

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(800) 333-3278

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B519225 - 04-No Prep VOA - SW 8260B									
LCS (B519225-BS1)				Prepared & Analyzed: 11/13/15					
Methylene chloride	16	ug/kg wet		20.00		82	36-152		
o-Xylene	20	ug/kg wet		20.00		100	73-129		
Tetrachloroethene	19	ug/kg wet		20.00		96	76-133		
Toluene	19	ug/kg wet		20.00		94	60-149		
trans-1,2-Dichloroethene	17	ug/kg wet		20.00		83	69-120		
trans-1,3-Dichloropropene	19	ug/kg wet		20.00		94	76-130		
Trichloroethene	18	ug/kg wet		20.00		89	71-119		
Trichlorofluoromethane	19	ug/kg wet		20.00		93	75-130		
Vinyl chloride	19	ug/kg wet		20.00		94	58-134		
Surrogate: 1,2-Dichloroethane-d4	*23*	*ug/L*		*30.00*		*77*	*67.7-135*		
Surrogate: Toluene-d8	*29*	*ug/L*		*30.00*		*96*	*69.3-125*		
Surrogate: Bromofluorobenzene	*33*	*ug/L*		*30.00*		*111*	*64.5-133*		
Matrix Spike (B519225-MS1)	**Sample: 5111306-01**			Prepared & Analyzed: 11/13/15					
1,1,1-Trichloroethane	90	ug/kg dry		105.2	ND	85	14-147		
1,1,2,2-Tetrachloroethane	111	ug/kg dry		105.2	ND	106	28-165		
1,1,2-Trichloroethane	94	ug/kg dry		105.2	ND	90	35-142		
1,1-Dichloroethane	87	ug/kg dry		105.2	ND	83	16-158		
1,1-Dichloroethene	84	ug/kg dry		105.2	ND	80	22-132		
1,2-Dichlorobenzene	69	ug/kg dry		105.2	ND	65	16-139		
1,2-Dichloroethane	90	ug/kg dry		105.2	ND	86	36-135		
1,2-Dichloropropane	97	ug/kg dry		105.2	ND	92	25-144		
1,3-Dichlorobenzene	77	ug/kg dry		105.2	ND	74	26-135		
1,4-Dichlorobenzene	71	ug/kg dry		105.2	ND	67	18-143		
2-Chloroethylvinyl ether	90	ug/kg dry		105.2	ND	86	10-175		
Acrolein	< 260	ug/kg dry	Q3	1052	ND		10-108		
Acrylonitrile	57	ug/kg dry		105.2	ND	54	10-145		
Benzene	86	ug/kg dry		105.2	ND	82	25-134		
Bromodichloromethane	77	ug/kg dry		105.2	ND	73	17-137		
Bromoform	68	ug/kg dry		105.2	ND	65	10-174		
Bromomethane	79	ug/kg dry		105.2	ND	75	18-114		
Carbon tetrachloride	82	ug/kg dry		105.2	ND	78	17-148		
Chlorobenzene	91	ug/kg dry		105.2	ND	86	26-141		
Chloroethane	69	ug/kg dry		105.2	ND	66	18-146		
Chloroform	90	ug/kg dry		105.2	ND	85	22-148		
Chloromethane	77	ug/kg dry		105.2	ND	73	17-115		
cis-1,3-Dichloropropene	65	ug/kg dry		105.2	ND	62	10-141		
Dibromochloromethane	77	ug/kg dry		105.2	ND	73	16-147		
Ethylbenzene	82	ug/kg dry		105.2	ND	78	34-132		
m,p-Xylene	147	ug/kg dry		210.3	ND	70	14-143		
Methylene chloride	85	ug/kg dry		105.2	ND	81	16-139		
o-Xylene	81	ug/kg dry		105.2	ND	77	22-135		
Tetrachloroethene	79	ug/kg dry		105.2	ND	75	31-141		
Toluene	95	ug/kg dry		105.2	13	78	40-135		
trans-1,2-Dichloroethene	83	ug/kg dry		105.2	ND	79	16-137		
trans-1,3-Dichloropropene	78	ug/kg dry		105.2	ND	74	10-149		

PDC Laboratories, Inc.
3278 North Highway 67
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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B519225 - 04-No Prep VOA - SW 8260B									
Matrix Spike (B519225-MS1)	**Sample: 5111306-01**			Prepared & Analyzed: 11/13/15					
Trichloroethene	88	ug/kg dry		105.2	ND	83	24-130		
Trichlorofluoromethane	92	ug/kg dry		105.2	ND	88	35-134		
Vinyl chloride	84	ug/kg dry		105.2	ND	80	23-127		
Surrogate: 1,2-Dichloroethane-d4	*21*	*ug/L*		*30.00*		*69*	*67.7-135*		
Surrogate: Toluene-d8	*25*	*ug/L*		*30.00*		*84*	*69.3-125*		
Surrogate: Bromofluorobenzene	*25*	*ug/L*		*30.00*		*83*	*64.5-133*		
Matrix Spike Dup (B519225-MSD1)	**Sample: 5111306-01**			Prepared & Analyzed: 11/13/15					
1,1,1-Trichloroethane	92	ug/kg dry		101.7	ND	90	14-147	2	40
1,1,2,2-Tetrachloroethane	102	ug/kg dry		101.7	ND	100	28-165	9	40
1,1,2-Trichloroethane	87	ug/kg dry		101.7	ND	86	35-142	7	40
1,1-Dichloroethane	90	ug/kg dry		101.7	ND	88	16-158	3	40
1,1-Dichloroethene	86	ug/kg dry		101.7	ND	85	22-132	2	40
1,2-Dichlorobenzene	63	ug/kg dry		101.7	ND	62	16-139	8	40
1,2-Dichloroethane	86	ug/kg dry		101.7	ND	84	36-135	5	40
1,2-Dichloropropane	91	ug/kg dry		101.7	ND	89	25-144	7	40
1,3-Dichlorobenzene	75	ug/kg dry		101.7	ND	73	26-135	4	40
1,4-Dichlorobenzene	73	ug/kg dry		101.7	ND	72	18-143	3	40
2-Chloroethylvinyl ether	81	ug/kg dry		101.7	ND	80	10-175	11	40
Acrolein	< 250	ug/kg dry	Q3	1017	ND		10-108		40
Acrylonitrile	49	ug/kg dry		101.7	ND	48	10-145	15	40
Benzene	84	ug/kg dry		101.7	ND	82	25-134	3	40
Bromodichloromethane	73	ug/kg dry		101.7	ND	72	17-137	5	40
Bromoform	61	ug/kg dry		101.7	ND	60	10-174	12	40
Bromomethane	82	ug/kg dry		101.7	ND	81	18-114	5	40
Carbon tetrachloride	81	ug/kg dry		101.7	ND	80	17-148	0.7	40
Chlorobenzene	83	ug/kg dry		101.7	ND	81	26-141	9	40
Chloroethane	68	ug/kg dry		101.7	ND	67	18-146	1	40
Chloroform	87	ug/kg dry		101.7	ND	86	22-148	3	40
Chloromethane	84	ug/kg dry		101.7	ND	83	17-115	9	40
cis-1,3-Dichloropropene	57	ug/kg dry		101.7	ND	56	10-141	14	40
Dibromochloromethane	68	ug/kg dry		101.7	ND	67	16-147	12	40
Ethylbenzene	73	ug/kg dry		101.7	ND	72	34-132	12	40
m,p-Xylene	138	ug/kg dry		203.3	ND	68	14-143	6	40
Methylene chloride	88	ug/kg dry		101.7	ND	87	16-139	3	40
o-Xylene	73	ug/kg dry		101.7	ND	72	22-135	9	40
Tetrachloroethene	77	ug/kg dry		101.7	ND	75	31-141	3	40
Toluene	90	ug/kg dry		101.7	13	76	40-135	6	40
trans-1,2-Dichloroethene	81	ug/kg dry		101.7	ND	80	16-137	2	40
trans-1,3-Dichloropropene	67	ug/kg dry		101.7	ND	65	10-149	15	40
Trichloroethene	84	ug/kg dry		101.7	ND	82	24-130	5	40
Trichlorofluoromethane	96	ug/kg dry		101.7	ND	94	35-134	4	40
Vinyl chloride	92	ug/kg dry		101.7	ND	91	23-127	9	40
Surrogate: 1,2-Dichloroethane-d4	*21*	*ug/L*		*30.00*		*70*	*67.7-135*		
Surrogate: Toluene-d8	*26*	*ug/L*		*30.00*		*85*	*69.3-125*		
Surrogate: Bromofluorobenzene	*23*	*ug/L*		*30.00*		*76*	*64.5-133*		

PDC Laboratories, Inc.
3278 North Highway 67
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NOTES

Specific method revisions used for analysis are available upon request.

Certifications

PIA - Peoria, IL
- TNI Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230
- Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553
- Missouri Department of Natural Resources Certificate of Approval for Microbiological Laboratory Service No. 870
- Drinking Water Certifications: Iowa (240); Kansas (E-10338); Missouri (870)
- Wastewater Certifications: Arkansas (88-0677); Iowa (240); Kansas (E-10338)
- Hazardous/Solid Waste Certifications: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

SPMO - Springfield, MO
- USEPA DMR-QA Program

STL - St. Louis, MO
- TNI Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing through KS Lab No. E-10389
- Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 171050
- Drinking Water Certifications: Missouri (1050)
- Missouri Department of Natural Resources

* Not a TNI accredited analyte

Qualifiers

B1	Blank contamination suspected and the sample result is less than Method Reporting Limit.
H	Test performed after the expiration of the appropriate regulatory/advisory maximum allowable hold time.
Q3	Matrix Spike/Matrix Spike Duplicate both failed % Recovery
Q4	The matrix spike recovery result is unusable since the analyte concentration in the sample is greater than four times the spike level. The associated blank spike was acceptable.
S	Surrogate compound diluted below a reliable quantitation level.

Roxann Shull

Certified by: Roxann Shull, Client Services Supervisor

PDC Laboratories, Inc.
3278 N. Highway 67
Florissant, MO 63033

CHAIN OF CUSTODY RECORD

State where samples were collected IL

Phone: (800) 333-3278
Fax: (314) 432-4977
www.pdclab.com

ALL HIGHLIGHTED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

1 CLIENT: Alton Steel
PROJECT NUMBER: —
P.O. NUMBER: on file
MEANS SHIPPED: courier
ADDRESS: 5 Cut St.
PHONE NUMBER: (618) 374-3570
FAX NUMBER:
DATE SHIPPED: 11.5.15
CITY: Alton | STATE: IL | ZIP: 62002
SAMPLER (PLEASE PRINT): Toni Paulus
CONTACT PERSON: Toni Paulus
SAMPLER'S SIGNATURE:

MATRIX TYPES:
WW - WASTE WATER
DW - DRINKING WATER
GW - GROUND WATER
WWSL - SLUDGE
NAS - SOLID
LCHT - LEACHATE
OTHER: ____

3 ANALYSIS REQUESTED

4 WORK ORDER (FOR LAB USE ONLY)
LOGIN #: 5111306
LOGGED BY: HE
PROJECT: ____
PROJ MGR: ____

2 SAMPLE DESCRIPTION AS YOU WANT TO REPORT	DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE GRAB	SAMPLE TYPE COMP	MATRIX TYPE	BOTTLE COUNT	PCBs (total)	VOC's Meth 8260	Semi VOC's Meth 8270	RCRA TCLP Metals (includes Hg)		Paint Filter	pH	REMARKS
WWTP Sludge Lagoon	11.5.15	11:35a	✓		~~NAS~~ WWSL	4	X	X	X	X		X	X	

5 TURNAROUND TIME REQUESTED (RUSH TAT IS SUBJECT TO APPROVAL AND SURCHARGE) ☐ NORMAL ☑ RUSH
DATE RESULTS NEEDED: 11/11/15

6 The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that we notify you before proceeding with analysis if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. ____

7	DATE	TIME		DATE	TIME
RELINQUISHED BY (SIGNATURE): Toni Paulus	11.5.15	11:44a	RECEIVED BY (SIGNATURE): [signature]	11-5-15	11:44
RELINQUISHED BY (SIGNATURE): [signature]	11/5/15	14:15	RECEIVED BY (SIGNATURE): Heather Gaulart	11/5/15	14:15
RELINQUISHED BY (SIGNATURE):			RECEIVED BY (SIGNATURE):		

8 COMMENTS (FOR LAB USE ONLY)

SAMPLE TEMPERATURE UPON RECEIPT: 8.8 °C
CHILL PROCESS STARTED PRIOR TO RECEIPT: Y OR N
SAMPLE(S) RECEIVED ON ICE: Y OR N
PROPER BOTTLES RECEIVED IN GOOD CONDITION: Y OR N
BOTTLES FILLED WITH ADEQUATE VOLUME: Y OR N
SAMPLES RECEIVED WITHIN HOLD TIME(S) (EXCLUDES TYPICAL FIELD PARAMETERS): Y OR N
DATE AND TIME TAKEN FROM SAMPLE BOTTLE: ____