

NORTH DAKOTA STATE DEPARTMENT OF HEALTH RECOGNITION OF CERTIFICATION OR ACCREDITATION

The North Dakota State Department of Health recognizes the certification or accreditation of

PEL, a division of Spectrum Analytical - 8405 Benjamin Road, Suite A - Tampa, FL

by

State of Florida Department of Health, Bureau of Laboratories

for

All Resource Conservation and Recovery Act

chemical parameters by the methods on the accompanying list of certified parameters for this laboratory

Certification Number: R-178

Date of Issue: August 04, 2009

Expiration Date: June 30, 2010

Covers: 7/1/2009 - 6/30/2010

This certificate remains the property of the North Dakota State Department of Health and may be recalled, for cause, at any time, by the Department. Recognition of a laboratory's certification or accreditation from another state's certification or accreditation program by the North Dakota State Department of Health is neither an endorsement of the results reported by the laboratory nor a guarantee of the validity or accuracy of the results reported by the laboratory.

Myna Koss
Director, Division of Chemistry

Emel Dickson
Certification Officer

***Certified Parameters for
PEL, a division of Spectrum Analytical
8405 Benjaimin Road, Suite A, Tampa, FL***

***Issued by
North Dakota Department of Health
Laboratory Services Division - Chemistry***

August 04, 2009

Certification Period: July 01, 2009 through June 30, 2010

Lab Certification No: R-178

Based on Certificate No: E84207-16

From the State of Florida Department of Health, Bureau of Laboratories

<i>Program</i>	<i>Parameter</i>	<i>Method</i>	<i>Source #</i>	<i>Status</i>
<i>Resource Conservation and Recovery Act</i>				
	Arsenic	SW846 6010	69	Certified
	Barium	SW846 6010	69	Certified
	Cadmium	SW846 6010	69	Certified
	Chromium	SW846 6010	69	Certified
	Lead	SW846 6010	69	Certified
	Selenium	SW846 6010	69	Certified
	Silver	SW846 6010	69	Certified
	Mercury	SW846 7470	69	Certified
	Mercury	SW846 7471	69	Certified
	1,1,1,2-Tetrachloroethane	SW846 8260	69	Certified
	1,1,1-Trichloroethane	SW846 8260	69	Certified
	1,1,2,2-Tetrachloroethane	SW846 8260	69	Certified
	1,1-Dichloroethane	SW846 8260	69	Certified
	1,1-Dichloroethene	SW846 8260	69	Certified
	1,1-Dichloropropene	SW846 8260	69	Certified
	1,2,3-Trichlorobenzene	SW846 8260	69	Certified
	1,2,3-Trichloropropane	SW846 8260	69	Certified
	1,2,4-Trichlorobenzene	SW846 8260	69	Certified
	1,2,4-Trimethylbenzene	SW846 8260	69	Certified
	1,2-Dibromo-3-Chloropropane (DBCP)	SW846 8260	69	Certified
	1,2-Dibromoethane	SW846 8260	69	Certified
	1,2-Dichlorobenzene	SW846 8260	69	Certified
	1,2-Dichloroethane	SW846 8260	69	Certified
	1,2-Dichloropropane	SW846 8260	69	Certified
	1,3,5-Trimethylbenzene	SW846 8260	69	Certified
	1,3-Dichlorobenzene	SW846 8260	69	Certified
	1,3-Dichloropropane	SW846 8260	69	Certified
	1,4-Dichlorobenzene	SW846 8260	69	Certified
	1,4-Dioxane	SW846 8260	69	Certified
	1-Chlorohexane	SW846 8260	69	Certified
	2,2-Dichloropropane	SW846 8260	69	Certified
	2-Chlorotoluene	SW846 8260	69	Certified

<i>Program</i>	<i>Parameter</i>	<i>Method</i>	<i>Source #</i>	<i>Status</i>
<i>Resource Conservation and Recovery Act</i>				
	2-hexanone	SW846 8260	69	Certified
	4-Chlorotoluene	SW846 8260	69	Certified
	4-methyl 2-pentanone (MIBK)	SW846 8260	69	Certified
	Acetone	SW846 8260	69	Certified
	Acetonitrile	SW846 8260	69	Certified
	Acrolein	SW846 8260	69	Certified
	Acrylonitrile	SW846 8260	69	Certified
	Benzene	SW846 8260	69	Certified
	Bromobenzene	SW846 8260	69	Certified
	Bromochloromethane	SW846 8260	69	Certified
	Bromodichloromethane	SW846 8260	69	Certified
	Bromoform	SW846 8260	69	Certified
	Bromomethane	SW846 8260	69	Certified
	Carbon Disulfide	SW846 8260	69	Certified
	Carbon Tetrachloride	SW846 8260	69	Certified
	Chlorobenzene	SW846 8260	69	Certified
	Chloroethane	SW846 8260	69	Certified
	Chloroform	SW846 8260	69	Certified
	Chloromethane	SW846 8260	69	Certified
	Chloroprene	SW846 8260	69	Certified
	Cis-1,2-Dichloroethene	SW846 8260	69	Certified
	Cis-1,3-Dichloropropene	SW846 8260	69	Certified
	Dibromomethane	SW846 8260	69	Certified
	Dichlorodifluoromethane	SW846 8260	69	Certified
	Ethyl Methacrylate	SW846 8260	69	Certified
	Ethylbenzene	SW846 8260	69	Certified
	Hexachlorobutadiene	SW846 8260	69	Certified
	Iodomethane	SW846 8260	69	Certified
	Isobutyl Alcohol	SW846 8260	69	Certified
	Isopropylbenzene	SW846 8260	69	Certified
	Methacrylonitrile	SW846 8260	69	Certified
	Methyl ethyl ketone (MEK)	SW846 8260	69	Certified
	Methyl methacrylate	SW846 8260	69	Certified
	Methyl tert butyl ether	SW846 8260	69	Certified
	Methylene chloride	SW846 8260	69	Certified
	Naphthalene	SW846 8260	69	Certified
	n-Butylbenzene	SW846 8260	69	Certified
	N-Propylbenzene	SW846 8260	69	Certified
	Propionitrile	SW846 8260	69	Certified
	sec-Butylbenzene	SW846 8260	69	Certified
	Styrene	SW846 8260	69	Certified
	Tert-Butylbenzene	SW846 8260	69	Certified
	Tetrachloroethene	SW846 8260	69	Certified
	Toluene	SW846 8260	69	Certified
	Trans-1,2-Dichloroethene	SW846 8260	69	Certified
	Trans-1,3-Dichloropropene	SW846 8260	69	Certified
	Trichloroethene	SW846 8260	69	Certified
	Trichlorofluoromethane	SW846 8260	69	Certified
	Vinyl Acetate	SW846 8260	69	Certified

<i>Program</i>	<i>Parameter</i>	<i>Method</i>	<i>Source #</i>	<i>Status</i>
<i>Resource Conservation and Recovery Act</i>				
	Vinyl chloride (chloroethene)	SW846 8260	69	Certified
	Xylenes (Total)	SW846 8260	69	Certified
	1,2,4,5-Tetrachlorobenzene	SW846 8270	69	Certified
	1,2,4-Trichlorobenzene	SW846 8270	69	Certified
	1,2-Dichlorobenzene	SW846 8270	69	Certified
	1,3,5-Trinitrobenzene	SW846 8270	69	Certified
	1,3-Dichlorobenzene	SW846 8270	69	Certified
	1,3-Dinitrobenzene	SW846 8270	69	Certified
	1,4-Dichlorobenzene	SW846 8270	69	Certified
	1,4-Naphthoquinone	SW846 8270	69	Certified
	1-Naphthylamine	SW846 8270	69	Certified
	2,3,4,6-Tetrachlorophenol	SW846 8270	69	Certified
	2,4,5-Trichlorophenol	SW846 8270	69	Certified
	2,4,6-Trichlorophenol	SW846 8270	69	Certified
	2,4-Dichlorophenol	SW846 8270	69	Certified
	2,4-Dimethylphenol	SW846 8270	69	Certified
	2,4-Dinitrophenol	SW846 8270	69	Certified
	2,4-Dinitrotoluene	SW846 8270	69	Certified
	2,6-Dichlorophenol	SW846 8270	69	Certified
	2,6-Dinitrotoluene	SW846 8270	69	Certified
	2-Acetylaminofluorene	SW846 8270	69	Certified
	2-Chloronaphthalene	SW846 8270	69	Certified
	2-Chlorophenol	SW846 8270	69	Certified
	2-Methylnaphthalene	SW846 8270	69	Certified
	2-Methylphenol (o-Cresol)	SW846 8270	69	Certified
	2-Nitroaniline	SW846 8270	69	Certified
	2-Nitrophenol	SW846 8270	69	Certified
	2-Picoline	SW846 8270	69	Certified
	3,3'-Dichlorobenzidine	SW846 8270	69	Certified
	3-Methylcholanthrene	SW846 8270	69	Certified
	3-Nitroaniline	SW846 8270	69	Certified
	4,6-Dinitro-2-methylphenol	SW846 8270	69	Certified
	4-Aminobiphenyl	SW846 8270	69	Certified
	4-Bromophenyl Phenyl Ether	SW846 8270	69	Certified
	4-Chloro-3-methylphenol	SW846 8270	69	Certified
	4-Chloroaniline	SW846 8270	69	Certified
	4-Chlorophenyl Phenyl Ether	SW846 8270	69	Certified
	4-Methylphenol (p-Cresol)	SW846 8270	69	Certified
	4-Nitroaniline	SW846 8270	69	Certified
	4-Nitrophenol	SW846 8270	69	Certified
	5-Nitro-o-toluidine	SW846 8270	69	Certified
	7,12-Dimethylbenz(a)anthracene	SW846 8270	69	Certified
	Acenaphthene	SW846 8270	69	Certified
	Acenaphthylene	SW846 8270	69	Certified
	Acetophenone	SW846 8270	69	Certified
	alpha,alpha-Dimethylphenethylamine	SW846 8270	69	Certified
	Aniline	SW846 8270	69	Certified
	Anthracene	SW846 8270	69	Certified
	Aramite	SW846 8270	69	Certified

<i>Program</i>	<i>Parameter</i>	<i>Method</i>	<i>Source #</i>	<i>Status</i>
<i>Resource Conservation and Recovery Act</i>				
	Benzidine	SW846 8270	69	Certified
	Benzo(a)anthracene	SW846 8270	69	Certified
	Benzo(a)pyrene	SW846 8270	69	Certified
	Benzo(b)fluoranthene	SW846 8270	69	Certified
	Benzo(g,h,i)perylene	SW846 8270	69	Certified
	Benzo(k)fluoranthene	SW846 8270	69	Certified
	Benzoic Acid	SW846 8270	69	Certified
	Benzyl Alcohol	SW846 8270	69	Certified
	bis(2-chloroethoxy)methane	SW846 8270	69	Certified
	bis(2-Chloroethyl)ether	SW846 8270	69	Certified
	bis(2-Chloroisopropyl)ether	SW846 8270	69	Certified
	bis(2-Ethylhexyl)phthalate	SW846 8270	69	Certified
	Butyl benzyl phthalate	SW846 8270	69	Certified
	Chlorobenzilate	SW846 8270	69	Certified
	Chrysene	SW846 8270	69	Certified
	Diallate	SW846 8270	69	Certified
	Dibenzo(a,h)anthracene	SW846 8270	69	Certified
	Dibenzo(a,j)acridine	SW846 8270	69	Certified
	Dibenzofuran	SW846 8270	69	Certified
	Diethyl phthalate	SW846 8270	69	Certified
	Dimethyl phthalate	SW846 8270	69	Certified
	Di-n-butyl phthalate	SW846 8270	69	Certified
	Di-n-octyl phthalate	SW846 8270	69	Certified
	Dinoseb	SW846 8270	69	Certified
	Ethyl methane sulfonate	SW846 8270	69	Certified
	Fluoranthene	SW846 8270	69	Certified
	Fluorene	SW846 8270	69	Certified
	Hexachlorobenzene	SW846 8270	69	Certified
	Hexachlorobutadiene	SW846 8270	69	Certified
	Hexachlorocyclopentadiene	SW846 8270	69	Certified
	Hexachloroethane	SW846 8270	69	Certified
	Hexachloropropene	SW846 8270	69	Certified
	Indeno(1,2,3-cd)pyrene	SW846 8270	69	Certified
	Isodrin	SW846 8270	69	Certified
	Isophorone	SW846 8270	69	Certified
	Isosafrole	SW846 8270	69	Certified
	Kepone	SW846 8270	69	Certified
	Methapyrilene	SW846 8270	69	Certified
	Methyl methanesulfonate	SW846 8270	69	Certified
	Naphthalene	SW846 8270	69	Certified
	Nitrobenzene	SW846 8270	69	Certified
	n-Nitrosodiethylamine	SW846 8270	69	Certified
	N-Nitrosodimethylamine	SW846 8270	69	Certified
	N-Nitroso-di-n-butylamine	SW846 8270	69	Certified
	N-Nitrosodi-n-propylamine	SW846 8270	69	Certified
	N-Nitrosodiphenylamine	SW846 8270	69	Certified
	N-Nitrosomethylethylamine	SW846 8270	69	Certified
	n-Nitrosomorpholine	SW846 8270	69	Certified
	N-Nitrosopiperidine	SW846 8270	69	Certified

<i>Program</i>	<i>Parameter</i>	<i>Method</i>	<i>Source #</i>	<i>Status</i>
<i>Resource Conservation and Recovery Act</i>				
	N-Nitrosopyrrolidine	SW846 8270	69	Certified
	o,o,o-Triethyl Phosphorothioate	SW846 8270	69	Certified
	o-Toluidine	SW846 8270	69	Certified
	Pentachlorobenzene	SW846 8270	69	Certified
	Pentachloronitrobenzene	SW846 8270	69	Certified
	Pentachlorophenol	SW846 8270	69	Certified
	Phenacetin	SW846 8270	69	Certified
	Phenanthrene	SW846 8270	69	Certified
	Phenol	SW846 8270	69	Certified
	Pyrene	SW846 8270	69	Certified
	Pyridine	SW846 8270	69	Certified
	Safrole	SW846 8270	69	Certified

Source Reference

- 69 Test Methods for Evaluating Solid Waste Physical Chemical Methods (SW846) Third Edition, EPA-SW-846-03-03B, EPA Office of Solid Waste and Emergency Response