

Pre-approved Commercial Laboratories: Fixed Base and Mobile

Guidance Document 23

The laboratories listed below have submitted information requested on Minnesota Department of Agriculture (MDA) guidance document [GD24 Fixed Base Laboratory Quality Assurance/Quality Control Plans](#). The information has been reviewed and these labs can be used by contractors to perform analysis without submitting additional laboratory information. Pre-approved commercial laboratories have Quality Assurance/Quality Control Plans and methods on file with the MDA.

The pre-approved laboratories must use the methods that are approved and on file with the MDA. We have noted on the listing if a laboratory's reporting limit does not meet the program reporting limits (RL) required at most MDA agricultural chemical sites. This list will be updated periodically.

If a contractor is considering using a laboratory not on the pre-approved list, the laboratory should submit the information required on MDA guidance document [GD24 Fixed Base Laboratory Quality Assurance/Quality Control Plans](#) at least two (2) months prior to analysis to allow MDA staff to review and approve the method.

The current MDA Lists 1 and 2 Pesticides and Nutrients are listed below. It is the responsibility of the contractor to ensure that the correct compound list is analyzed, and the site-specific target compound reporting limits are met. The pre-approved commercial laboratory program is not a certification program, nor does MDA endorse any particular laboratory. The MDA pesticide programs operate under Environmental Protection Agency Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) guidelines.

The MDA also pre-approves mobile field methods for use on agricultural chemical incident investigations and cleanups. Field or mobile laboratories interested in becoming pre-approved must submit the information outlined in MDA guidance document [GD25 Mobile Laboratory Quality Assurance/Quality Control Plans](#), which can be found on the MDA website.

<u>MDA List 1 Pesticides</u>	<u>Soils RL</u>	<u>Water RL</u>	<u>MDA List 2 Pesticides</u>	<u>Soils RL</u>	<u>Water RL</u>
	<u>(mg/Kg)</u>	<u>(µg/L)</u>		<u>(mg/Kg)</u>	<u>(µg/L)</u>
Acetochlor (Harness/Surpass)	0.05	0.5	2,4-D	0.1	0.5
Alachlor (Lasso)	0.05	0.5	2,4-DB (Butyrac)	0.1	0.5
Atrazine (Aatrex)	0.05	0.5	2,4,5-T	0.1	0.5
Deethylatrazine	0.05	0.5	2,4,5-TP (Silvex)	0.1	0.5
Deisopropylatrazine	0.05	0.5	Bentazon (Basagran)	0.1	0.5
Dimethenamid (Frontier)	0.05	0.5	Dicamba (Banvel)	0.1	0.5
Chlorpyrifos (Lorsban)	0.05	0.5	MCPA	0.1	0.3
Cyanazine (Bladex)	0.05	0.2	Picloram (Tordon)	0.1	0.5
EPTC (Eptam/Eradicane)	0.05	0.5	Triclopyr (Garlon)	0.1	0.5
Ethalfuralin (Sonalan)	0.05	0.5			
Fonofos (Dyfonate)	0.05	0.5	<u>Nutrients</u>	<u>Soils RL</u>	<u>Water RL</u>
Metolachlor (Dual)	0.05	0.5		<u>(mg/Kg)</u>	<u>(mg/L)</u>
Metribuzin (Lexone/Sencor)	0.05	0.5	Ammonia – N	20	0.05
Pendimethalin (Prowl)	0.05	0.5	Nitrate + Nitrite – N	NA	1.0
Phorate (Thimet)	0.05	0.3	Nitrate – N	10	NA
Prometon (Pramitol)	0.05	0.5	Total Kjeldahl Nitrogen	150	1.0
Propachlor (Ramrod)	0.05	0.5			
Propazine (Milogard)	0.05	0.5			
Simazine (Princep)	0.05	0.5			
Terbufos (Counter)	0.05	0.2			
Triallate (Far-go)	0.05	0.5			
Trifluralin (Treflan)	0.05	0.5			

NA = Not Applicable

Pre-Approved Commercial Laboratories and Methods:
Fixed Base and Mobile

ALS Environmental – Holland Facility <i>Fixed Base</i> 3352 128 th Avenue Holland, MI 49424 (616) 399-6070	Pre-approved Analytical Methods: Status – Current <u>Soils</u> Ammonia Nitrate Total Kjeldahl Nitrogen	
ECCS, a division of Pace Analytical Services, Inc. <i>Fixed Base and Mobile Lab*</i> 2525 Advance Road Madison, WI 53718 (608)221-8700	Pre-approved Analytical Methods: Status – Current <u>Soils</u> MDA List 1 MDA List 2 Ammonia Nitrate	<u>Water</u> Ammonia Nitrate + Nitrite Ammonia
Keystone Laboratories, Inc. <i>Fixed Base</i> 600 E 17 th St. S. Newton, IA 50208 (641)792-8451	Pre-approved Analytical Methods: Status – Current <u>Soil</u> Ammonia Nitrate	<u>Water</u> Ammonia Nitrate + Nitrite
Legend Technical Services <i>Fixed Base</i> 88 Empire Drive St. Paul, MN 55103 (651) 642-1150	Pre-approved Analytical Methods: Status – Current <u>Soil</u> MDA List 1 Nitrate	<u>Water</u> MDA List 1 Nitrate + Nitrite
Midwest Laboratories, Inc. <i>Fixed Base</i> 13611 B Street Omaha, NE 68114 (402) 334-7770	Pre-approved Analytical Methods: Status – Current <u>Soil</u> MDA List 1	<u>Water</u> MDA List 1
Minnesota Valley Testing Laboratories <i>Fixed Base</i> 1126 North Front St. New Ulm, MN 56073 (507)354-8517	Pre-approved Analytical Methods: Status – Current <u>Soil</u> MDA List 1 Ammonia Nitrate Total Kjeldahl Nitrogen	<u>Water</u> MDA List 1 Ammonia Nitrate + Nitrite Total Kjeldahl Nitrogen

Pre-Approved Commercial Laboratories and Methods:

Fixed Base and Mobile (continued)

Pace Analytical Services – Duluth, MN <i>Fixed Base</i>		
4730 Oneota Street Duluth, MN 55807 (218) 336-2115	<u>Soil</u> Ammonia Nitrate Total Kjeldahl Nitrogen	<u>Water</u> Ammonia Nitrate + Nitrite Total Kjeldahl Nitrogen Nitrate
Pace Analytical Services – Minneapolis, MN <i>Fixed Base</i>		
1700 Elm Street Suite 200 New Ulm, MN 56073 (507)354-8517	<u>Water</u> MDA List 1 Ammonia Nitrate + Nitrite Total Kjeldahl Nitrogen	
South Dakota Agricultural Laboratories <i>Fixed Base</i>		
1335 Western Ave Brookings, SD 57006 (605) 692-7325	<u>Soil</u> MDA List 2	<u>Water</u> MDA List 2

Status: Information in the laboratory's file is current for calendar year unless noted.

*The mobile laboratory is not approved for all situations and must be pre-approved by MDA staff prior to use:

- Mobile laboratories equipped with gas chromatography and mass spectrometry (GC/MS) may be used for initial site sample analysis of pesticides.
- Mobile laboratories equipped with alternative detectors such as electron capture (ECD) or flame ionization (FID) require at least 10% of the samples to be collected in duplicate at the same time as the initial samples. The duplicate samples must be analyzed by an independent fixed base GC/MS laboratory.
- Subsequent site sample analyses by mobile laboratories with ECD or FID detectors may be allowed by MDA, if it has been shown that there are no other analytes of concern.
- Excavated soils must be analyzed by GC/MS to meet disposition evaluation requirements, before off-site disposal, land application or other treatment or disposal.