

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. The MDA understands that when new analytes were added to MDA Lists 1, 2, 3 and 4, it became challenging for laboratories to meet all the program RLs. For a few analytes, the MDA may grant laboratories an exception to the program RLs which will be evaluated annually. The exceptions will be evaluated based on number of capable labs, changes in drinking water standards, and changes in pesticide label rates, among other factors. The exceptions may be removed at any time. Labs will be notified when exceptions are removed or modified.

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, 2, 3 and 4 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.

| MDA List 1 Pesticides | Soils RL (mg/Kg) | Water RL (µg/L) |
|--------------------------------|-----------------------------|----------------------------|
| Acetochlor (Surpass) | 0.05 | 0.5 |
| Alachlor (Lasso) | 0.05 | 0.5 |
| Atrazine (Aatrex) | 0.04 | 0.5 |
| Bifenthrin (Capture LFR) | 0.05 | 0.5 |
| Chlorpyrifos (Lorsban) | 0.05 | 0.5 |
| Cyanazine (Bladex) | 0.09 | 0.2 |
| Deethylatrazine | 0.05 | 0.5 |
| Deisopropylatrazine | 0.05 | 0.5 |
| Dimethenamid (Frontier) | 0.05 | 0.5 |
| EPTC (Eradicane) | 0.05 | 0.5 |
| Ethalfuralin (Sonalan) | 0.05 | 0.5 |
| Fonofos (Dyfonate) | 0.03 | 0.5 |
| Lambda-cyhalothrin (Lamcap II) | 0.08 | 0.1 |
| Metolachlor (Dual) | 0.05 | 0.5 |
| Metribuzin (Sencore) | 0.05 | 0.5 |
| Pendimethalin (Prowl) | 0.05 | 0.5 |
| Phorate (Thimet) | 0.05 | 0.3 |
| Prometon (Pramitol) | 0.05 | 0.5 |
| Propachlor (Ramrod) | 0.03 | 0.5 |

| MDA List 1 Pesticides cont. | Soils RL (mg/Kg) | Water RL (µg/L) |
|------------------------------------|-----------------------------|----------------------------|
| Propazine (Milogard) | 0.05 | 0.5 |
| Simazine (Princep) | 0.05 | 0.5 |
| Triallate (Far-go) | 0.05 | 0.5 |
| Trifluralin (Treflan) | 0.05 | 0.5 |
| MDA List 2 Pesticides | Soils RL (mg/Kg) | Water RL (µg/L) |
| 2,4,5-T | 0.05 | 0.5 |
| 2,4,5-TP (Silvex) | 0.1 | 0.5 |
| 2,4-D (Enlist One) | 0.1 | 0.5 |
| 2,4-DB (Agrisolutions 2,4-DB 200) | 0.05 | 0.5 |
| Bentazon (Basagran) | 0.1 | 0.5 |
| Clopyralid (Stinger) | 0.09 | 0.5 |
| Dicamba (Diflexx) | 0.1 | 0.5 |
| MCPA | 0.05 | 0.3 |
| Picloram (Tordon 22K) | 0.05 | 0.5 |
| Triclopyr (Garlon 4 Ultra) | 0.1 | 0.5 |
| MDA List 3 Pesticides | Soils RL (mg/Kg) | Water RL (µg/L) |
| AMPA | 0.1 | 1 |
| Glyphosate (Round up) | 0.1 | 1 |

| MDA List 4 Pesticides | Soils RL (mg/Kg) | Water RL (µg/L) |
|------------------------------|-----------------------------|----------------------------|
| Flumetsulam (Accolade) | 0.02 | 0.5 |
| Fomesafen (Flexstar) | 0.05 | 0.5 |
| Imazethapyr (Pursuit) | 0.02 | 0.5 |
| Mesotrione (Callisto) | 0.03 | 0.5 |
| Sulfentrazone (Authority) | 0.05 | 0.5 |
| Tembotrione (Laudis) | 0.005 | 0.5 |

| Nutrients | Soils RL (mg/Kg) | Water RL (mg/L) |
|-------------------------|-----------------------------|----------------------------|
| Nitrate + Nitrite – N | NA | 1.0 |
| Nitrate – N | 10 | NA |
| Total Kjeldahl Nitrogen | 150 | 1.0 |

NA = Not Applicable
mg/Kg = milligrams per kilogram
ug/L = micrograms per liter

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

ALS Environmental – Holland Facility *Fixed Base*

3352 128th Avenue
Holland, MI 49424
(616) 399-6070

Pre-approved Analytical Methods: Status – Current

Soils

Ammonia
Nitrate
Total Kjeldahl Nitrogen

Water

Ammonia
Nitrate + Nitrite
Total Kjeldahl Nitrogen

Keystone Laboratories, Inc. *Fixed Base*

600 E 17th St. S.
Newton, IA 50208
(641) 792-8451

Pre-approved Analytical Methods: Status – Current

Soil

Ammonia
Nitrate

Water

Ammonia
Nitrate + Nitrite

Legend Technical Services *Fixed Base*

88 Empire Drive
St. Paul, MN 55103
(651) 642-1150

Pre-approved Analytical Methods: Status – Current

Soil

Nitrate

Water

Nitrate + Nitrite

Microbac Laboratories, Inc.- Arcata *Fixed Base*

5680 West End Road
Arcata, CA 95521
(707) 822-4649

Pre-approved Analytical Methods: Status – Current

Soil

MDA List 3

Water

MDA List 3

Minnesota Valley Testing Laboratories *Fixed Base*

1126 North Front St.
New Ulm, MN 56073
(507) 354-8517

Pre-approved Analytical Methods: Status – Current

Soil

MDA List 1
Ammonia
Nitrate
Total Kjeldahl Nitrogen

Water

MDA List 1
Ammonia
Nitrate + Nitrite
Total Kjeldahl Nitrogen

Pace Analytical Services – Duluth *Fixed Base*

4730 Oneota Street
Duluth, MN 55807
(218) 336-2115

Pre-approved Analytical Methods: Status – Current

Soil

Ammonia
Nitrate
Total Kjeldahl Nitrogen

Water

Ammonia
Nitrate + Nitrite
Total Kjeldahl Nitrogen

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

Pace Analytical Services – Minneapolis *Fixed Base*

1700 Elm Street Suite 200
 Minneapolis, MN 55414
 (612) 607-6352

Pre-approved Analytical Methods: Status – Current

Soil

Ammonia
 Nitrate
 Total Kjeldahl Nitrogen

Water

Ammonia
 Nitrate + Nitrite
 Total Kjeldahl Nitrogen

Pace Analytical Services – Green Bay *Fixed Base*

1241 Bellevue Street
 Green Bay, WI 54302
 (902) 321-9426

Pre-approved Analytical Methods: Status – Current

Soil

MDA List 1
 Ammonia
 Nitrate
 Total Kjeldahl Nitrogen

Water

MDA List 1
 Ammonia
 Nitrate + Nitrite
 Total Kjeldahl Nitrogen

South Dakota Agricultural Laboratories *Fixed Base*

1335 Western Avenue
 Brookings, SD 57006
 (605)-692-7325

Pre-approved Analytical Methods: Status – Current

Soil

MDA List 2

Water

MDA List 2