

**United States Department of Agriculture
Agricultural Marketing Service, Science & Technology
Pesticide Data Program**

SOP No.: PDP-QC-13AB-NY		Page 1 of 9
Title: Specific Requirements for New York Finished Drinking Water		
Revision: 2	Replaces: 10/01/01	Effective: 04/01/02

1. Purpose:

To provide a listing of PDP identified required compounds for finished drinking water.

2. Scope:

This standard operating procedure (SOP) shall be followed by the New York Department of Agriculture and Markets laboratory analyzing finished drinking water samples for PDP.

3. Outline of Procedure:

- 5.1 Compounds Required for New York Finished Drinking Water Multiresidue Screen
- 5.2 Marker Pesticides for New York Finished Drinking Water Multiresidue Screen
- 5.3 Process Control Compounds for New York Finished Drinking Water Multiresidue Screening

4. References:

- New York Department of Agriculture and Markets Comparison Between Extracting Filtered vs. Unfiltered Water for Three Methods, December 18, 2001
 - New York Department of Agriculture and Markets Finished Drinking Water LC Methods (Two) Validation, July 10, 2001
 - New York Department of Agriculture and Markets Finished Drinking Water GC Method Validation, June 6, 2001
 - USDA/AMS-EPA Planning Meeting, March 14, 2001
 - USDA/AMS PDP Quality Assurance (QA)/Technical Meeting, February 21-22, 2001
 - PDP Program Plan January – June 2001
 - Memo from Cathy Eiden, EPA/OPP/HED, to Tom Gilding, ACPA, Follow-up to October 28, 1998, Work Group Meeting
 - PDP/Drinking Water Monitoring Work Group Meeting, October 28, 1998
 - PDP/Drinking Water Monitoring Work Group Meeting, September 8, 1998
 - USGS NAWQA Program Constituents (Occurrence Based)
-
-

**United States Department of Agriculture
Agricultural Marketing Service, Science & Technology
Pesticide Data Program**

SOP No.: PDP-QC-13AB-NY		Page 2 of 9
Title: Specific Requirements for New York Finished Drinking Water		
Revision: 2	Replaces: 10/01/01	Effective: 04/01/02

- US EPA OGWDW/OW, Regulated Contaminants
- US EPA OGWDW/OW, Pesticides Considered Occurrence Priorities under the Candidate Contaminant List (CCL)
- US EPA OGWDW/OW, Pesticides under Unregulated Contaminants Monitoring
- US EPA OPP Potential PDP List, Scheduled REDs

5. Specific Procedures:

This standard operating procedure (SOP) represents minimum PDP requirements and is presented as a general guideline. Each laboratory shall have written procedures that provide specific details concerning how the procedure has been implemented in that laboratory.

5.1 Compounds Required for New York Finished Drinking Water Multi Residue Screen

Finished Drinking Water Compound	Pest Code
2,4,5-T	312
3-hydroxycarbofuran	512
Acetochlor	807
Acetochlor oxanilic acid (OA)	ABO
Alachlor	227
Alachlor oxanilic acid (OA)	ABQ
Atrazine	305
Desethyl atrazine	964
Azinphos methyl	042
Bendiocarb	658
Bromoxynil	729
Butachlor	806
Carbaryl	102
Carbofuran	180
Carbophenothion	202
Chlordane cis	173
Chlordane trans	172
Chlorfenvinphos Z	617

**United States Department of Agriculture
Agricultural Marketing Service, Science & Technology
Pesticide Data Program**

SOP No.: PDP-QC-13AB-NY		Page 3 of 9
Title: Specific Requirements for New York Finished Drinking Water		
Revision: 2	Replaces: 10/01/01	Effective: 04/01/02

Finished Drinking Water Compound	Pest Code
Chlorpyrifos	160
Chlorpyrifos methyl	235
Clopyralid	ABT
Coumaphos	124
Cyanazine	228
DCPA (dacthal)	134
DDD o,p'	909
DDD p,p'	908
DDE p,p'	910
DDT o,p'	907
DDT p,p'	906
DEF (tribufos)	217
Desisopropyl atrazine	785
Diazinon	024
Diazinon O-analog	395
Dichlobenil	324
Dicloran	144
Dicofol p,p'	254
Dieldrin	028
Dimethoate	171
Diphenamid	330
Disulfoton	117
Disulfoton sulfone	216
Endosulfan I	900
Endosulfan II	901
Endosulfan sulfate	902
Endrin	034
Ethalfluralin	721
Ethion	107
Ethion mono oxon	AAX
Ethoprop	175
Fenamiphos	236
Fenarimol	271
Fenitrothion	391

**United States Department of Agriculture
Agricultural Marketing Service, Science & Technology
Pesticide Data Program**

SOP No.: PDP-QC-13AB-NY		Page 4 of 9
Title: Specific Requirements for New York Finished Drinking Water		
Revision: 2	Replaces: 10/01/01	Effective: 04/01/02

Finished Drinking Water Compound	Pest Code
Fenthion	177
Fenthion O-analog	691
Fludioxonil	B23
Fonofos	163
Fonofos O-analog	692
Heptachlor epoxide	143
Imazapyr	ACB
Iprodione	626
Isofenphos	258
Lindane	050
Linuron	129
MCPA	318
Malathion	052
Metalaxyl	607
Methidathion	197
Methidathion O-analog	ACE
Methoxychlor	055
Methoxychlor olefin	276
Metolachlor	283
Metolachlor oxanilic acid (OA)	ACH
Metribuzin	181
Mevinphos E	579
Molinate	778
Myclobutanil	679
Napropamide	594
Norflurazon	596
Norflurazon desmethyl	720
Oxadiazon	625
Oxadixyl	A46
Oxychlorane	349
Oxyfluorfen	713
Parathion	065
Parathion methyl	057
Parathion methyl O-analog	779

**United States Department of Agriculture
Agricultural Marketing Service, Science & Technology
Pesticide Data Program**

SOP No.: PDP-QC-13AB-NY		Page 5 of 9
Title: Specific Requirements for New York Finished Drinking Water		
Revision: 2	Replaces: 10/01/01	Effective: 04/01/02

Finished Drinking Water Compound	Pest Code
Pendimethalin	230
Phenthoate	377
Phorate	148
Phorate O-analog	928
Phorate sulfone	189
Phorate sulfoxide	190
Phosalone	166
Phosphamidon	203
Picloram	329
Piperonyl butoxide	070
Pirimicarb	580
Pirimiphos methyl	562
Profenofos	224
Prometon	942
Pronamide	540
Propachlor	675
Propanil	341
Propargite	623
Propetamphos	636
Propham	310
Propiconazole	264
Propoxur	162
Quintozene (PCNB)	304
Simazine	149
Sulfotep	311
Sulprofos	609
Tebuconazole	A58
Tebupirimphos	A59
Tebupirimphos O-analog	ACR
Tebuthiuron	780
Terbacil	152
Terbufos O-analog	A60
Terbufos sulfone	963
Tetrachlorvinphos	176

**United States Department of Agriculture
Agricultural Marketing Service, Science & Technology
Pesticide Data Program**

SOP No.: PDP-QC-13AB-NY		Page 6 of 9
Title: Specific Requirements for New York Finished Drinking Water		
Revision: 2	Replaces: 10/01/01	Effective: 04/01/02

Finished Drinking Water Compound	Pest Code
Tetradifon	108
Thiobencarb	726
Triadimefon	608
Triallate	621
Triclopyr	731

5.2 Marker Pesticides for New York Finished Drinking Water Multiresidue Screening

All reported compounds shall be spiked on a rotating basis so that each extraction/detection system is adequately represented within a given data set.



**United States Department of Agriculture
Agricultural Marketing Service, Science & Technology
Pesticide Data Program**

SOP No.: PDP-QC-13AB-NY		Page 7 of 9
Title: Specific Requirements for New York Finished Drinking Water		
Revision: 2	Replaces: 10/01/01	Effective: 04/01/02

**5.3 Process Control Compounds for New York Finished Drinking Water
Multiresidue Screening**

- a. GC (FPD, MS/MS): tolclofos methyl
- b. LC/MS: propoxur
- c. LC/MS (chloroacetanilide metabolites): propoxur



**United States Department of Agriculture
Agricultural Marketing Service, Science & Technology
Pesticide Data Program**

SOP No.: PDP-QC-13AB-NY		Page 8 of 9
Title: Specific Requirements for New York Finished Drinking Water		
Revision: 2	Replaces: 10/01/01	Effective: 04/01/02

Frances M. Gross *03/13/02*

Reviewed By: Frances M. Gross Date
Presiding Member of PDP QA Committee
New York Department of Agriculture and Markets
Food Laboratory
State Office Campus, Building 7
Albany, New York 12235
(518) 457-5734

Diana Haynes *03/15/02*

Reviewed By: Diana Haynes Date
Quality Assurance Officer, PDP
8609 Sudley Road, Suite 206
Manassas, VA 20110
(703) 330-2300

Martha Lamont *03/15/02*

Approved By: Martha Lamont Date
Director, Monitoring Programs Office
8609 Sudley Road, Suite 206
Manassas, VA 20110
(703) 330-2300

**United States Department of Agriculture
Agricultural Marketing Service, Science & Technology
Pesticide Data Program**

SOP No.: PDP-QC-13AB-NY		Page 9 of 9
Title: Specific Requirements for New York Finished Drinking Water		
Revision: 2	Replaces: 10/01/01	Effective: 04/01/02

Revision 2

January 2002

Monitoring Programs Office

- Removed compounds based on results of method modification (removal of filtration step) evaluation/validation study: DDVP (dichlorvos), malathion O-analog, and parathion O-analog; acetochlor, alachlor, and metolachlor ethanesulfonic acids (ESAs); benomyl, bentazon, bromacil, DCPA monoacid, dichlorprop, fenuron, imazamox, imazapic, imidacloprid, monuron, nicosulfuron, and siduron
 - Added statement regarding marker pesticides to subsection 5.2
-
-