



IDAHO DEPARTMENT OF  
**HEALTH & WELFARE**

C.L. "BUTCH" OTTER – GOVERNOR  
RUSSELL S. BARRON – DIRECTOR

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Under section 56-1003, Idaho Code, the Idaho Legislature has delegated to the Board of Health and Welfare (Board) the authority to set standards for laboratories in the State of Idaho. The Idaho Department of Health and Welfare Bureau of Laboratories (IBL) works in partnership with the Idaho Department of Environmental Quality Drinking Water Program to enforce the Safe Drinking Water Act of 1977 on behalf of the U.S. Environmental Protection Agency in Region 10. The Bureau of Laboratories serves as both the Principal State Laboratory for the Drinking Water Program and has been delegated authority by the Board to certify or grant reciprocity to drinking water laboratories according to the rules outlined in IDAPA 16.02.13, "State of Idaho Drinking Water Laboratory Certification Program".

Laboratories seeking certification or reciprocity to become a certified drinking water laboratory in Idaho must submit a departmentally approved application (enclosed) with the requested discipline specific supporting materials to the appropriate Certification Officer(s) at IBL. The materials will be reviewed for compliance and certification will be granted if they are found to be acceptable.

Sincerely,

Christopher L. Ball, Ph.D., HCLD (ABB)  
Certification Authority for the State of Idaho

Enclosure

**IDAHO DEPARTMENT OF HEALTH AND WELFARE  
Bureau of Laboratories**

**Application for  
Certification of Laboratory to Perform Testing  
Procedures on Public Drinking Water Supplies**

**For -**

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Authorized Representative: \_\_\_\_\_

Owner(s) of Record: (include entity, subsidiary information, major stockholders, etc.)

\_\_\_\_\_

Telephone Number: \_\_\_\_\_ Facsimile Number: \_\_\_\_\_

EPA Laboratory ID: \_\_\_\_\_ Application Type :  New  Renewal

E-mail Address (if applicable): \_\_\_\_\_

Please ensure the following items are enclosed in your application packet. Applications will not be processed unless all information is included in the application packet.

- ✓ Completed cover page (this page)
- ✓ Parameter request page
- ✓ Method Detection Limit Worksheet
- ✓ Personnel Qualifications Disclosure Worksheet
- ✓ Instrument Specifications Worksheet
- ✓ Laboratory Quality Assurance Plan (Manual)- identified with the year of submission {in electronic format if possible}.
- ✓ Acceptable Performance Evaluation Results for each method and analyte requested for certification (If not previously received by the Bureau of Laboratories directly from the PE Provider)

The above mentioned laboratory has hereby given notice of their intent to pursue Drinking Water Laboratory Certification in the State of Idaho. The above mentioned laboratory has compiled the necessary information as requested in this application packet and requests evaluation of the material and scheduling of an on-site facilities inspection. The laboratory agrees to abide by the requirements of the Safe Drinking Water Act (SDWA, 1977) and subsequent amendments, the Manual for the Certification of Laboratories Analyzing Drinking Water (U.S. EPA), data reporting requirements of the Idaho Department of Environmental Quality, and the laboratory certification policies of the Idaho Department of Health and Welfare, Bureau of Laboratories. Failure to comply with the requirements listed in any of these sources is grounds for denial or revocation of Drinking Water Certifications.

Signed: \_\_\_\_\_ Date: \_\_\_\_\_

(Authorized Representative)

**PARAMETER REQUEST (Required to process application. Check each method you wish to receive certification for.)**

**Primary Inorganic Chemicals including Lead and Copper Rule**

Contaminant	Method	EPA	ASTM	Standard M.	Other (Specify)
Antimony	ICP (axially viewed)	200.5			
	ICP-MS	200.8			
	AA-Platform	200.9			
	Hydride-AA		D3697-92		
	AA-Furnace			3113B	
Arsenic	ICP (axially viewed)	200.5			
	ICP-MS	200.8			
	AA-Platform	200.9			
	AA-Furnace		D2972-97C	3113B	
	Hydride-AA		D2972-97B	3114B	
Asbestos	TEM	100.1			
	TEM	100.2			
Barium	ICP (axially viewed)	200.5			
	ICP (radially or axially viewed)	200.7		3120B	
	ICP-MS	200.8			
	AA-Direct			3111D	
	AA-Furnace			3113B	
Beryllium	ICP (axially viewed)	200.5			
	ICP (radially or axially viewed)	200.7		3120B	
	ICP-MS	200.8			
	AA-Platform	200.9			
	AA-Furnace		D3645-97B	3113B	
Cadmium	ICP (axially viewed)	200.5			
	ICP (radially or axially viewed)	200.7			
	ICP-MS	200.8			
	AA-Platform	200.9			
	AA-Furnace			3113B	
Chromium	ICP (axially viewed)	200.5			
	ICP (radially or axially viewed)	200.7		3120B	
	ICP-MS	200.8			
	AA-Platform	200.9			
	AA-Furnace			3113B	
Copper	ICP (axially viewed)	200.5			
	ICP (radially or axially viewed)	200.7		3120B	
	ICP-MS	200.8			
	AA-Platform	200.9			
	AA-Direct		D1688-95A	3111B	
	AA-Furnace		D1688-95C	3113B	
Cyanide	Man. Distillation followed ...			4500-CN C	
	... Spec. (amenable to chlorination).		D2036-98A+B	4500-CN G+E	
	... Spec. Manual .....		D2036-98A	4500-CN E	
	Semi-auto	335.4			
	Free CN, GC/MS Headspace				ME355.01
	Ligand Exch. & Free CN, Ion Sel. Elec.(ISE)		D6888-04	4500-CN F	
Fluoride	Ion Chromatography	300.0	D4327-97	4110B	EPA300.1
	Manual Distill. SPADNS			4500-F B+D	
	Manual ISE		D1179-93B	4500-F C	
	Automated ISE				380-75WE
	Auto. Alizarin			4500-F E	
	Capillary Ion Electrophoresis		D6508-00		

**PARAMETER REQUEST (Continued)**  
**Primary Inorganic Chemicals including Lead and Copper Rule**

Contaminant	Method	EPA	ASTM	Standard M.	Other (Specify)
Lead	ICP (axially viewed)	200.5			
	ICP-MS	200.8			
	AA-Platform	200.9			
	AA-Furnace		D3559-96D	3113B	
Mercury	AA-Manual Cold Vapor	245.1	D3223-97	3112B	
	AA-Automated Cold Vapor	245.2			
	ICP-MS	200.8			
Nickel	ICP (axially viewed)	200.5			
	ICP (radially or axially viewed)	200.7		3120B	
	ICP-MS	200.8			
	AA-Platform	200.9			
	AA-Furnace			3113B	
	AA-Direct			3111B	
Nitrate	Ion Chromatography	300.0	D4327-97	4110B	
	Ion Chromatography	300.1			
	Auto Cd Reduction	353.2	D3867-90A	4500-NO <sub>3</sub> F	
	Man Cd Reduction		D3867-90B	4500-NO <sub>3</sub> E	
	Ion Selective Elec.			4500-NO <sub>3</sub> D	
	Capillary Ion Electrophoresis		D6508-00		
Nitrite	Ion Chromatography	300.0	D4327-97	4110B	
	Ion Chromatography	300.1			
	Auto Cd Reduction	353.2	D3867-90A	4500-NO <sub>3</sub> F	
	Man Cd Reduction		D3867-90B	4500-NO <sub>3</sub> E	
	Capillary Ion Electrophoresis		D6508-00		
	Spectrophotometric			4500-NO <sub>2</sub> B	
Selenium	ICP (axially viewed)	200.5			
	ICP-MS	200.8			
	AA-Platform	200.9			
	AA-Furnace		D3859-98B	3113B	
	Hydride-AA		D3859-98A	3114B	
Sodium	ICP (axially viewed)	200.5			
	ICP (radially or axially viewed)	200.7			
	AA-Direct			3111B	
	Ion Chromatography		D6919-03		
Thallium	ICP-MS	200.8			
	AA-Platform	200.9			
Turbidity	Nephelometric	180.1		2130B	

### Disinfectants and Disinfection Byproducts

Contaminant	Method	EPA	ASTM	Standard M.	Other (Specify)	MRL
Bromate	IC	300.1	D6581-00	ASTM D6581-08A	ASTM D6581-08B	5 µg/L
	IC with PCR	317.0				1 µg/L
	IC with PCR	326.0				
	IC/ICP/MS	321.8				
	2-D IC	302.0				
	IC/EIS/MS/MS	557				
Chlorite	IC	300.0				50 µg/L
	IC	300.1	D6581-00	ASTM D6581-08A	ASTM D6581-08B	
	IC with PCR	317.0				
	IC with PCR	326.0				
Haloacetic Acids (HAA5)		552.1	EPA 552.2	6251B	EPA 552.3	
Total Trihalomethanes (TTHMs)		502.2	EPA 524.2	EPA 524.3	EPA 551.1	

### Radionuclides (specify each method you wish to receive certification for.)

Contaminant	Method		
Gross Alpha			
Gross Beta			
Radium 226			
Radium 228			
Uranium			

**PARAMETER REQUEST (Continued)**  
**Volatile Organic Compounds**

Contaminant	Method			
	502.2	524.2	524.3	
Benzene	502.2	524.2	524.3	
Carbon tetrachloride	502.2	524.2	524.3	551.1
Chlorobenzene	502.2	524.2	524.3	
1,2-Dichlorobenzene	502.2	524.2	524.3	
1,4-Dichlorobenzene	502.2	524.2	524.3	
1,2-Dichloroethane	502.2	524.2	524.3	
cis-1,2-Dichloroethylene	502.2	524.2	524.3	
trans-1,2-Dichloroethylene	502.2	524.2	524.3	
Dichloromethane	502.2	524.2	524.3	
1,2-Dichloropropane	502.2	524.2	524.3	
Ethylbenzene	502.2	524.2	524.3	
Styrene	502.2	524.2	524.3	
Tetrachloroethylene	502.2	524.2	524.3	551.1
1,1,1-Trichloroethane	502.2	524.2	524.3	551.1
Trichloroethylene	502.2	524.2	524.3	551.1
Toluene	502.2	524.2	524.3	
1,2,4-Trichlorobenzene	502.2	524.2	524.3	
1,1-Dichloroethylene	502.2	524.2	524.3	
1,1,2-Trichloroethane	502.2	524.2	524.3	551.1
Vinyl chloride	502.2	524.2	524.3	
Xylenes (total)	502.2	524.2	524.3	

**PARAMETER REQUEST (Continued)**  
**Synthetic Organic Compounds**

<b>Contaminant</b>	<b>Method</b>				
2,4-D	515.1	515.2	515.3	515.4	555
	ASTM D5317-93		ASTM D5317-98		SM 6640B
Alachlor	505	507	508.1	525.2	551.1
Atrazine	505	507	508.1	525.2	551.1
	Syngenta AG-625				
Benzo(a)pyrene	525.2		550	550.1	
Carbofuran	531.1		531.2		SM 6610 B
Chlordane	505		508	508.1	525.2
Dalapon	515.1	515.3	515.4	552.1	552.2
	552.3		557		SM 6640 B
Di(2-ethylhexyl)adipate	506			525.2	
Di(2-ethylhexyl)phthalate	506			525.2	
Dibromochloropropane (DBCP)	504.1		524.3		551.1
Dinoseb	515.1	515.2	515.3	515.4	555
	SM 6640 B				
Dioxin (2,3,7,8-TCDD)	1613				
Diquat	549.2				
Endothall	548.1				
Endrin	505	508	508.1	525.2	551.1
Ethylene Dibromide (EDB)	504.1		524.3		551.1
Glyphosate	547		SM 6651		SM 6651B
Heptachlor	505	508	508.1	525.2	551.1
Heptachlor Epoxide	505	508	508.1	525.2	551.1
Hexachlorobenzene	505	508	508.1	525.2	551.1
Hexachlorocyclopentadiene	505	508	508.1	525.2	551.1
Lindane	505	508	508.1	525.2	551.1
Methoxychlor	505	508	508.1	525.2	551.1
Oxamyl	531.1		531.2		SM 6610 B
PCBs (as decachlorobiphenyl)	508A				
PCBs (screen only)	505		508	508.1	525.2
Pentachlorophenol	515.1	515.2	515.3	515.4	525.2
	ASTM D5317-93		ASTM D5317-98		SM 6640 B
Picloram	515.1	515.2	515.3	515.4	555
	ASTM D5317-93		ASTM D5317-98		SM 6640 B
Simazine	505	507	508.1	525.2	551.1
2,4,5-TP (Silvex)	515.1	515.2	515.3	515.4	555
	ASTM D5317-93		ASTM D5317-98		SM 6640 B
Toxaphene	505		508	508.1	525.2

**METHOD DETECTION LIMIT WORKSHEET**  
 (Make additional copies if multiple methods are employed for any analytes)

Inorganics	Method	Required Method Detection Limit (mg/L)*	MDL Required to Composite (mg/L)	Lab MDL (40CFR 136)	Low Level Quantitation (mg/L)**
Antimony		0.006	0.001		
Arsenic		0.01	0.002		
Asbestos		7.00 MFL	1.40 MFL		
Barium		2.00	0.40		
Beryllium		0.0040	0.0008		
Bromate		0.010	N/A		
Cadmium		0.005	0.001		
Chlorite		1.00	NA		
Chromium		0.10	0.02		
Copper		1.30	0.001 0.02 (for direct aspiration AA)		
Cyanide		0.20	0.04		
Fluoride		4.00	0.80		
Lead		0.015	0.001		
Mercury		0.0020	0.0004		
Nickel		0.10	N/A		
Nitrate		5.0	1.00		
Nitrite		0.5	0.10		
Selenium		0.05	0.01		
Sodium		N/A	N/A		
Thallium		0.0004	0.0004		
Turbidity		N/A	N/A		

\*The monitoring trigger for inorganics is the MCL except for nitrate and nitrite, which are ½ the MCL.

\*\*Low level quantitation reference is found in 5<sup>th</sup> Edition Manual for the Certification of Laboratories Analyzing Drinking Water [Chapter IV 7.2.12].

Radionuclides	Method	Required MDL (pCi/L)	Lab MDL or alternate procedure (40CFR 136)
Gross Alpha			
Gross Beta			
Radium 226			
Radium 228			
Uranium		µg/L	



**METHOD DETECTION LIMIT WORKSHEET**  
 (Make additional copies if multiple methods are employed for any analytes)

Volatile Organics	Method	Required MDL (µg/L) *	Lab MDL (40CFR 136) (µg/L)	Low Level Quantitation ** (µg/L)
Benzene		0.50		
Carbon tetrachloride		0.50		
Chlorobenzene		0.50		
o-Dichlorobenzene		0.50		
p-Dichlorobenzene		0.50		
1,2-Dichloroethane		0.50		
1,1-Dichloroethylene		0.50		
c-1,2-Dichloroethylene		0.50		
t-1,2-Dichloroethylene		0.50		
Dichloromethane		0.50		
1,2-Dichloropropane		0.50		
Ethylbenzene		0.50		
Styrene		0.50		
Tetrachloroethylene		0.50		
Toluene		0.50		
1,2,4-Trichlorobenzene		0.50		
1,1,1-Trichloroethane		0.50		
1,1,2-Trichloroethane		0.50		
Trichloroethylene		0.50		
Vinyl chloride		0.50		
Xylenes		0.50		
Trihalomethanes (Individually)		0.50		
-THM, Bromoform		N/A		
-THM, Bromodichloromethane		N/A		
-THM, Chloroform		N/A		
-THM, Dibromochloromethane		N/A		

\*A laboratory must be able to achieve the MDL listed to be certified to analyze samples for compliance monitoring [§141.24(f)(17)(i)(E) and (ii)(C)]. This is also the monitoring trigger for VOCs [§141.24(f)(11)].

\*\*Low level quantitation reference is found in 5<sup>th</sup> Edition Manual for the Certification of Laboratories Analyzing Drinking Water [Chapter IV 7.2.12].

**METHOD DETECTION LIMIT WORKSHEET**  
 (Make additional copies if multiple methods are employed for any analytes)

SOCs	Method	MCL (µg/L)	Required MDL * (µg/L)	Lab MDL (40CFR 136) (µg/L)	Low Level Quantitation** (µg/L)
2,4-D		70.0	0.1		
2,4,5-TP (Silvex)		50.0	0.2		
Alachlor		2.00	0.2		
Atrazine		3.00	0.1		
Benzo(a)pyrene		0.20	0.02		
Carbofuran		40.0	0.9		
Chlordane		2.00	0.2		
Dalapon		200.0	1.0		
Dibromochloropropane		0.20	0.02		
Dinoseb		7.00	0.2		
Dioxin (2,3,7,8-TCDD)		0.0003	0.000011		
Diquat		20.0	0.4		
Di(2-ethylhexyl)adipate		400.0	0.6		
Di(2-ethylhexyl)phthalate		6.00	0.6		
Endothall		100.0	9		
Endrin		2.00	0.01		
Ethylenedibromide (EDB)		0.05	0.01		
Glyphosate		700.0	6		
Haloacetic Acids (HAA5)		60.0	N/A		
-Monochloroacetic Acid		-----	N/A		
-Monobromoacetic Acid		-----	N/A		
-Dichloroacetic Acid		-----	N/A		
-Dibromoacetic Acid		-----	N/A		
-Trichloroacetic Acid		-----	N/A		
Heptachlor		0.40	0.04		
Heptachlor Epoxide		0.20	0.02		
Hexachlorobenzene		1.00	0.1		
Hexachlorocyclopentadiene		50.0	0.1		
Lindane		0.20	0.02		
Methoxychlor		40.0	0.1		
Oxamyl		200.0	2		
PCBs (as decachlorobiphenyl)		0.50	0.1		
Pentachlorophenol		1.00	0.04		
Picloram		500.0	0.1		
Simazine		4.00	0.07		
Toxaphene		3.00	1.0		

\* For SOC's, a method detection limit of 1/5 of the MCL must be attained for compositing [CFR 141.23(a)(4)] and [CFR 141.24(f)(10)].

\*\*Low level quantitation reference is found in 5<sup>th</sup> Edition Manual for the Certification of Laboratories Analyzing Drinking Water [Chapter IV 7.2.12].

**PERSONNEL QUALIFICATIONS DISCLOSURE**  
**(Resumes may not be substituted)**

Position/ Title	Name	Education Level Degree/Major*	Years Experience in Drinking Water Testing
Laboratory Director			
Laboratory Manager			
Supervisor – Inorganic Chemistry			
Supervisor – Organic Chemistry			
Quality Assurance Officer			

Position/ Title	Name	Education Level Degree/Major*	Specialized Training Received (Relating to specialty)	Years Experience in Drinking Water Testing	Responsibilities (List tests)
Instrument Operators					
AA – Furnace or Direct Aspiration					
Inductively Coupled Plasma - AES					
Inductively Coupled Plasma – MS					
Ion Chromatograph					
Flow Injection / Segmented Flow Analyzer					
Gas Chromatograph					
Gas Chrom. / Mass Specific Detector					
High Performance Liquid Chromatograph					
Other analysts					

\*If the major is not in chemistry, list hours of college level courses in chemistry.

