



# OREGON

## Environmental Laboratory Accreditation Program



NELAP Recognized

**Kuo Testing Labs**

**4084**

337 1st Ave S  
Othello, WA 99344

IS GRANTED APPROVAL BY ORELAP UNDER THE 2009 TNI STANDARDS, TO PERFORM ANALYSES ON ENVIRONMENTAL SAMPLES IN MATRICES AS LISTED BELOW :

Air	Drinking Water	Non Potable Water	Solids and Chem. Waste	Tissue
	Chemistry Microbiology	Chemistry Microbiology	Chemistry	

AND AS RECORDED IN THE LIST OF APPROVED ANALYTES, METHODS, ANALYTICAL TECHNIQUES, AND FIELDS OF TESTING ISSUED CONCURRENTLY WITH THIS CERTIFICATE AND REVISED AS NECESSARY.

ACCREDITED STATUS DEPENDS ON SUCCESSFUL ONGOING PARTICIPATION IN THE PROGRAM AND CONTINUED COMPLIANCE WITH THE STANDARDS.

CUSTOMERS ARE URGED TO VERIFY THE LABORATORY'S CURRENT ACCREDITATION STATUS IN OREGON.

Alia D. Servin, Ph.D.  
Oregon State Public Health Laboratory  
ORELAP Program Manager  
7202 NE Evergreen Parkway, Suite 100  
Hillsboro, OR 97124



EFFECTIVE DATE : 08/30/2019

EXPIRATION DATE : 02/14/2020

Certificate No : 4084 - 006



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## Environmental Laboratory Accreditation Program



### ORELAP Fields of Accreditation

ORELAP ID: 4084

Kuo Testing Labs

EPA CODE: WA00060

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Othello, WA 99344

Issue Date: 8/30/2019 Expiration Date: 2/14/2020

As of 8/30/2019 this list supersedes all previous lists for this certificate number.

MATRIX	Reference	Code	Analyte	Code	Description	
Drinking Water	EPA 200.5 4.2			10213975	Determination of Trace Elements in Drinking Water by Axially Viewed ICP - AES	
		1000	Aluminum			
		1010	Arsenic			
		1015	Barium			
		1020	Beryllium			
		1030	Cadmium			
		1035	Calcium			
		1040	Chromium			
		1055	Copper			
		1070	Iron			
		1090	Manganese			
		1105	Nickel			
		1190	Zinc			
		EPA 200.7 4.4			10013806	ICP - metals
			1910	Phosphorus, total		
EPA 200.7 5			10014003	ICP - metals		
	1000	Aluminum				
	1005	Antimony				
	1010	Arsenic				
	1015	Barium				
	1020	Beryllium				
	1030	Cadmium				
	1035	Calcium				
	1040	Chromium				
	1055	Copper				
	1760	Hardness (calc.)				
	1070	Iron				
	1075	Lead				
	1085	Magnesium				
	1090	Manganese				
	1100	Molybdenum				
	1105	Nickel				
	1910	Phosphorus, total				
	1125	Potassium				
	1140	Selenium				
	1155	Sodium				
	1165	Thallium				
	1190	Zinc				





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### Drinking Water

SM 2120 B-2001 online	20039309	Color by Visual Comparison
1605 Color		
SM 2130 B 21st ED	20042608	Turbidity by Nephelometric Method
2055 Turbidity		
SM 2320 B-97 1997	20045607	Alkalinity by Titration Method
1505 Alkalinity as CaCO <sub>3</sub>		
SM 2510 B-97 1997	20048606	Conductivity by Probe
1610 Conductivity		
SM 2540 B-97 1997	20049405	Total Solids Dried at 103 - 105C
1950 Residue-total		
SM 2540 C-97 1997	20050402	Total Dissolved Solids Dried at 180C
1955 Residue-filterable (TDS)		
SM 2540 E-1997	20051585	Fixed & Volatile Solids Ignited at 550 C
1970 Residue-volatile		
SM 4500-Cl B 21st ED	20078200	Chloride by Iodometric Method I
1575 Chloride		
SM 4500-Cl E 21st ED	20080200	Chloride by Low-Level Amperometric Titration Method
1575 Chloride		
SM 4500-F <sup>-</sup> C-97 online	20102403	Fluoride by Ion-Selective Electrode Method
1730 Fluoride		
SM 4500-H <sup>+</sup> B 18th ED	20022406	pH by Electrometric Method
1900 pH		
SM 4500-NH <sub>3</sub> D-97 online	20109404	Ammonia by Ammonia-Selective Electrode Method .
1515 Ammonia as N		
SM 4500-NO <sub>3</sub> <sup>-</sup> F 21st ED	20116409	Nitrate by Automated Cadmium Reduction Method
1810 Nitrate as N		
1820 Nitrate-nitrite		
1840 Nitrite as N		
SM 4500-P E-97 online	20124203	Phosphorus by Ascorbic Acid Method
1870 Orthophosphate as P		
SM 4500-SO <sub>4</sub> <sup>-</sup> E 20th ED	20132803	Sulfate by Turbidity
2000 Sulfate		
SM 9223 B (Colilert Quanti-Tray)-2004 22nd Ed	20211614	Enzyme Substrate Coliform Test (Colilert Quanti-Tray)
2525 Escherichia coli		
2500 Total coliforms		



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Field	Method	Parameter	Method ID	Test Name
Drinking Water	SM 9223 B (Colilert) 22nd Ed	2525	20212413	Enzyme Substrate Coliform Test (Colilert) P/A
		2500		
		2530	20212208	
Non-Potable Water	EPA 200.5 4.2	1000	10213975	Determination of Trace Elements in Drinking Water by Axially Viewed ICP - AES
		1010		
Non-Potable Water	EPA 200.7 5	1015		ICP - metals
		1020		
		1030		
		1035		
		1040		
		1055		
		1070		
		1090		
		1105		
		1190		
		1760		
		1070		
		1075		
		1085		
		1090		
		1100		
		1105		
1910				
1125				
1140				
1155				



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#### Non-Potable Water

EPA 200.7 5	1165	Thallium		
	1190	Zinc		
EPA 351.2 2			10065404	Total Kjeldahl Nitrogen - Block Digest, Phenate
	1795	Kjeldahl nitrogen - total		
SM 2120 B-2001 online			20039309	Color by Visual Comparison
	1605	Color		
SM 2130 B 21st ED			20042608	Turbidity by Nephelometric Method
	2055	Turbidity		
SM 2320 B-97 1997			20045607	Alkalinity by Titration Method
	1505	Alkalinity as CaCO <sub>3</sub>		
SM 2510 B-97 1997			20048606	Conductivity by Probe
	1610	Conductivity		
SM 2540 B-97 1997			20049405	Total Solids Dried at 103 - 105C
	1950	Residue-total		
SM 2540 C-97 1997			20050402	Total Dissolved Solids Dried at 180C
	1955	Residue-filterable (TDS)		
SM 2540 D-97 1997			20051201	Total Suspended Solids Dried at 103 - 105C
	1960	Residue-nonfilterable (TSS)		
SM 2540 E-1997			20051585	Fixed & Volatile Solids Ignited at 550 C
	1970	Residue-volatile		
SM 4500-Cl B 21st ED			20078200	Chloride by Iodometric Method I
	1575	Chloride		
SM 4500-Cl E 21st ED			20080200	Chloride by Low-Level Amperometric Titration Method
	1575	Chloride		
SM 4500-F <sup>-</sup> C-97 online			20102403	Fluoride by Ion-Selective Electrode Method
	1730	Fluoride		
SM 4500-H <sup>+</sup> B 18th ED			20022406	pH by Electrometric Method
	1900	pH		
SM 4500-NH <sub>3</sub> D-97 online			20109404	Ammonia by Ammonia-Selective Electrode Method .
	1515	Ammonia as N		
SM 4500-NO <sub>3</sub> <sup>-</sup> F 21st ED			20116409	Nitrate by Automated Cadmium Reduction Method
	1810	Nitrate as N		
	1820	Nitrate-nitrite		
	1840	Nitrite as N		



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### Non-Potable Water

SM 4500-P E-97 online			20124203	Phosphorus by Ascorbic Acid Method
	1870	Orthophosphate as P		
	1910	Phosphorus, total		
SM 4500-SO4 <sup>-</sup> E 20th ED			20132803	Sulfate by Turbidity
	2000	Sulfate		
SM 5220 D-97 online			20136805	COD by Closed Reflux, Colorimetric Method
	1565	Chemical oxygen demand		
SM 9223 B (Colilert Quanti-Tray)-2004 SM 9223 B (Colilert Quanti-Tray)-2004			20211614	Enzyme Substrate Coliform Test (Colilert Quanti-Tray)
	2525	Escherichia coli		
	2500	Total coliforms		
SM 9223 B (Colilert) 22nd Ed			20212413	Enzyme Substrate Coliform Test (Colilert) P/A
	2525	Escherichia coli		
	2500	Total coliforms		
SM 9223 B (Colilert®) 20th ED			20212208	Chromogenic/Fluorogenic Qualitative (Colilert®): Total Coliform and E. coli
	2530	Fecal coliforms		
SM 9223 B (Colilert®-18 Quanti-Tray®) 18th ED			20212800	Chromogenic/Fluorogenic Quantitative (Colilert®-18): Total Coliform and E. coli
	2530	Fecal coliforms		

### Solids

EPA 6010C 3			10155905	Inductively Coupled Plasma - Atomic Emission Spectrometry
	1010	Arsenic		
	1030	Cadmium		
	1040	Chromium		
	1050	Cobalt		
	1055	Copper		
	1075	Lead		
	1100	Molybdenum		
	1105	Nickel		
	1140	Selenium		
	1190	Zinc		