

Report Transmission Cover Page

Bill To: AWG International Manufacturing Project:
Report To: AWG International Manufacturing ID:
7721 East Trent Avenue Name: R2500 Cal/Carbon
Spokane, WA, United States Location:
99212-8000 LSD:
Attn: K. White P.O.:
Sampled By: Acct code:
Company:

Lot ID: **1006474**
Control Number:
Date Received: Jun 6, 2014
Date Reported: Jun 11, 2014
Report Number: 1922334

Contact & Affiliation	Address	Delivery Commitments
K. White AWG International Manufacturing	7721 East Trent Avenue Spokane, Washington 99212-8000 Phone: (604) 230-5633 Fax: null Email: keith@awginternational.com	On [Report Approval] send (Test Report) by Email - Single Report On [Lot Approval and Final Test Report Approval] send (Invoice) by Email - Single Report On [Lot Creation] send (COR) by Email - Single Report

Notes To Clients:

- Temperature of sample 1006474-1 on arrival was 3.5 °C.
- The analysis of water sample 1006474-1 is below Maximum Acceptable Concentrations for the chemical and bacteriological health related guidelines specified by the August 2012 Guidelines for Canadian Drinking Water Quality for the parameters tested.
- Sample 1006474-1; 4759886 pH analysis was performed past the recommended holding time of 15 minutes from sample collection.

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Analytical Report

Bill To: AWG International Manufacturing Project:
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 Spokane, WA, United States Location:
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Lot ID: **1006474**
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Reference Number 1006474-1
 Sample Date June 06, 2014
 Sample Time 10:18
 Sample Location
 Sample Description R2500 Cal/Carbon
 Sample Matrix Drinking Water

Analyte		Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
Metals Extractable						
Aluminum	Extractable	mg/L	0.008	0.005	0.1	Below OG
Antimony	Extractable	mg/L	0.0005	0.0002	0.006	Below MAC
Arsenic	Extractable	mg/L	0.0062	0.0002	0.010	Below MAC
Barium	Extractable	mg/L	0.004	0.001	1	Below MAC
Boron	Extractable	mg/L	0.012	0.005	5	Below MAC
Cadmium	Extractable	mg/L	<0.00007	0.00007	0.005	Below MAC
Chromium	Extractable	mg/L	<0.0005	0.0005	0.05	Below MAC
Copper	Extractable	mg/L	<0.001	0.001	1.0	Below AO
Lead	Extractable	mg/L	<0.0001	0.0001	0.01	Below MAC
Selenium	Extractable	mg/L	<0.0006	0.0006	0.01	Below MAC
Uranium	Extractable	mg/L	<0.0005	0.0005	0.02	Below MAC
Vanadium	Extractable	mg/L	0.0001	0.0001		
Zinc	Extractable	mg/L	<0.001	0.001	5.0	Below AO
Microbiological Analysis						
Total Coliforms	Enzyme Substrate Test	MPN/100 mL	<1.0	1.0	0 per 100 mL	Below MAC
Escherichia coli	Enzyme Substrate Test	MPN/100 mL	<1.0	1.0	0 per 100 mL	Below MAC
Physical and Aggregate Properties						
Colour	Apparent	Colour units	12	5		
Turbidity		NTU	1.6	0.02		
Routine Water						
pH	at 25 °C		7.61		6.5-8.5	Within AO
Electrical Conductivity		µS/cm at 25 C	114	1		
Calcium	Extractable	mg/L	20.3	0.1		
Iron	Extractable	mg/L	<0.005	0.005	0.3	Below AO
Magnesium	Extractable	mg/L	0.61	0.1		
Manganese	Extractable	mg/L	0.001	0.001	0.05	Below AO
Potassium	Extractable	mg/L	0.3	0.1		
Silicon	Extractable	mg/L	0.55	0.05		
Sodium	Extractable	mg/L	1.7	0.1	200	Below AO
T-Alkalinity	as CaCO3	mg/L	55	5		
Chloride	Dissolved	mg/L	0.74	0.05	250	Below AO
Fluoride	Dissolved	mg/L	0.02	0.01	1.5	Below MAC
Nitrate - N	Dissolved	mg/L	<0.01	0.01	10	Below MAC
Nitrite - N	Dissolved	mg/L	<0.01	0.01	1	Below MAC

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Reference Number 1006474-1
Sample Date June 06, 2014
Sample Time 10:18
Sample Location
Sample Description R2500 Cal/Carbon
Sample Matrix Drinking Water

Analyte		Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
Routine Water - Continued						
Sulfate (SO4)	Dissolved	mg/L	<0.5	0.5	500	Below AO
Hardness	as CaCO3	mg/L	53	1		
Total Dissolved Solids	Extractable	mg/L	58	1		

Approved by: 
Mathieu Simoneau
Operations Manager

Data have been validated by Analytical Quality Control and Exova's Integrated Data Validation System (IDVS).

Generation and distribution of the report, and approval by the digitized signature above, are performed through a secure and controlled automatic process.

Methodology and Notes

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Method of Analysis

Method Name	Reference	Method	Date Analysis Started	Location
Alk, pH, EC, Turb in water (Surrey)	APHA	* Alkalinity - Titration Method, 2320 B	06-Jun-14	Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	* Conductivity, 2510 B	06-Jun-14	Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	* pH - Electrometric Method, 4500-H+ B	06-Jun-14	Exova Surrey
Anions by IEC in water (Surrey)	APHA	* Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	09-Jun-14	Exova Surrey
Apparent Color (Surrey)	APHA	* Spectrophotometric - Single Wavelength Method, 2120 C	07-Jun-14	Exova Surrey
Metals SemiTrace (Extractable) in water (Surrey)	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	09-Jun-14	Exova Surrey
Total and E-Coli - Colilert - DW (Surrey)	APHA	Enzyme Substrate Test, APHA 9223 B	06-Jun-14	Exova Surrey
Trace Metals (extractable) in Water (Surrey)	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	09-Jun-14	Exova Surrey
Turbidity - Water (Surrey)	APHA	* Turbidity - Nephelometric Method, 2130 B	07-Jun-14	Exova Surrey

* Reference Method Modified

References

APHA Standard Methods for the Examination of Water and Wastewater
US EPA US Environmental Protection Agency Test Methods

Guidelines

Guideline Description Health Canada GCDWQ
Guideline Source Guidelines for Canadian Drinking Water Quality, Health Canada, August 2012
Guideline Comments MAC = Maximum Acceptable Concentration
AO = Aesthetic Objective
OG = Operational Guideline for Water Treatment Plants
Refer to Health Canada GCDWQ for complete guidelines and additional drinking water information at www.hc-sc.gc.ca

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	99212-8000	LSD:	
Attn:	K. White	P.O.:	
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Comments:

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The comparison of test results to guideline limits is provided for information purposes only. This is not to be taken as a statement of conformance / nonconformance to any guideline, regulation or limit. The data user is responsible for all conclusions drawn with respect to the data and is advised to consult official regulatory references when evaluating compliance.

Please direct any inquiries regarding this report to our Client Services group.

Results relate only to samples as submitted.

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