



Date: 18-OCT-17

PO No.: 0000132962

WO No.: L2000335

LSD:

Project Ref:

Sample ID: GIAD B112 DF

Sampled By:

Date Collected: 29-SEP-17

Lab Sample ID: L2000335-1

Matrix: WATER


VANCOUVER SCHOOL BOARD
Maintenance and Construction
1549 Clark Drive
Vancouver BC V5L 3L4

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.000291		mg/L	0.01		07-OCT-17
<p>CDWQG = Health Canada Guideline Limits updated DECEMBER 2015</p> <p>* CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. If present as Nitrate then the limit is 10mg/L < or N.D. = less than detection limit. * Turbidity guideline based on membrane filtration. For guidelines on conventional treatment and slow sand or diatomaceous earth filtration please see Summary Table of Guidelines for Canadian Drinking Water Quality - A blank entry designates no known limit. - A shaded value in the Results column exceeds CDWQG MAC and/ or Aesthetic Objective.</p>						
<p>Approved by <u><i>H McKenzie</i></u> Heather McKenzie Account Manager</p>						



Date: 18-OCT-17
PO No.: 0000132962
WO No.: L2000335
LSD:
Project Ref:
Sample ID: GIAD E114 DF
Sampled By:
Date Collected: 29-SEP-17
Lab Sample ID: L2000335-2
Matrix: WATER

VANCOUVER SCHOOL BOARD
Maintenance and Construction
1549 Clark Drive
Vancouver BC V5L 3L4

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.00117		mg/L	0.01		07-OCT-17
CDWQG = Health Canada Guideline Limits updated DECEMBER 2015 * CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. If present as Nitrate then the limit is 10mg/L < or N.D. = less than detection limit. * Turbidity guideline based on membrane filtration. For guidelines on conventional treatment and slow sand or diatomaceous earth filtration please see Summary Table of Guidelines for Canadian Drinking Water Quality - A blank entry designates no known limit. - A shaded value in the Results column exceeds CDWQG MAC and/ or Aesthetic Objective.						
Approved by <u></u> Heather McKenzie Account Manager						



Date: 18-OCT-17
PO No.: 0000132962
WO No.: L2000335
LSD:
Project Ref:
Sample ID: GIAD E207 DF
Sampled By:
Date Collected: 29-SEP-17
Lab Sample ID: L2000335-3
Matrix: WATER

VANCOUVER SCHOOL BOARD
Maintenance and Construction
1549 Clark Drive
Vancouver BC V5L 3L4

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.00294		mg/L	0.01		07-OCT-17
CDWQG = Health Canada Guideline Limits updated DECEMBER 2015 * CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. If present as Nitrate then the limit is 10mg/L < or N.D. = less than detection limit. * Turbidity guideline based on membrane filtration. For guidelines on conventional treatment and slow sand or diatomaceous earth filtration please see Summary Table of Guidelines for Canadian Drinking Water Quality - A blank entry designates no known limit. - A shaded value in the Results column exceeds CDWQG MAC and/ or Aesthetic Objective.						
Approved by <u>Heather McKenzie</u> Heather McKenzie Account Manager						



Date: 18-OCT-17
PO No.: 0000132962
WO No.: L2000335
LSD:
Project Ref:
Sample ID: GIAD E007 DF
Sampled By:
Date Collected: 29-SEP-17
Lab Sample ID: L2000335-4
Matrix: WATER

VANCOUVER SCHOOL BOARD
Maintenance and Construction
1549 Clark Drive
Vancouver BC V5L 3L4

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.00162		mg/L	0.01		07-OCT-17
CDWQG = Health Canada Guideline Limits updated DECEMBER 2015 * CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. If present as Nitrate then the limit is 10mg/L < or N.D. = less than detection limit. * Turbidity guideline based on membrane filtration. For guidelines on conventional treatment and slow sand or diatomaceous earth filtration please see Summary Table of Guidelines for Canadian Drinking Water Quality - A blank entry designates no known limit. - A shaded value in the Results column exceeds CDWQG MAC and/ or Aesthetic Objective.						
Approved by <u>Heather McKenzie</u> Heather McKenzie Account Manager						



Date: 18-OCT-17

PO No.: 0000132962

WO No.: L2000335

LSD:

Project Ref:

Sample ID: GIAD E013 FS

Sampled By:

Date Collected: 29-SEP-17

Lab Sample ID: L2000335-5

Matrix: WATER

VANCOUVER SCHOOL BOARD
Maintenance and Construction
1549 Clark Drive
Vancouver BC V5L 3L4

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.000401		mg/L	0.01		07-OCT-17
<p>CDWQG = Health Canada Guideline Limits updated DECEMBER 2015</p> <p>* CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. If present as Nitrate then the limit is 10mg/L < or N.D. = less than detection limit. * Turbidity guideline based on membrane filtration. For guidelines on conventional treatment and slow sand or diatomaceous earth filtration please see Summary Table of Guidelines for Canadian Drinking Water Quality - A blank entry designates no known limit. - A shaded value in the Results column exceeds CDWQG MAC and/ or Aesthetic Objective.</p>						
<p>Approved by <u><i>H McKenzie</i></u> Heather McKenzie Account Manager</p>						



Date: 18-OCT-17

PO No.: 0000132962

WO No.: L2000335

LSD:

Project Ref:

Sample ID: GIAD B003 DF

Sampled By:

Date Collected: 29-SEP-17

Lab Sample ID: L2000335-6

Matrix: WATER

VANCOUVER SCHOOL BOARD
 Maintenance and Construction
 1549 Clark Drive
 Vancouver BC V5L 3L4

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.000697		mg/L	0.01		07-OCT-17
<p>CDWQG = Health Canada Guideline Limits updated DECEMBER 2015</p> <p>* CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. If present as Nitrate then the limit is 10mg/L < or N.D. = less than detection limit. * Turbidity guideline based on membrane filtration. For guidelines on conventional treatment and slow sand or diatomaceous earth filtration please see Summary Table of Guidelines for Canadian Drinking Water Quality - A blank entry designates no known limit. - A shaded value in the Results column exceeds CDWQG MAC and/ or Aesthetic Objective.</p>						
<p>Approved by <u><i>H McKenzie</i></u> Heather McKenzie Account Manager</p>						



Date: 18-OCT-17

PO No.: 0000132962

WO No.: L2000335

LSD:

Project Ref:

Sample ID: GIAD C103 DF

Sampled By:

Date Collected: 29-SEP-17

Lab Sample ID: L2000335-7

Matrix: WATER

VANCOUVER SCHOOL BOARD
Maintenance and Construction
1549 Clark Drive
Vancouver BC V5L 3L4

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.00159		mg/L	0.01		07-OCT-17
<p>CDWQG = Health Canada Guideline Limits updated DECEMBER 2015</p> <p>* CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. If present as Nitrate then the limit is 10mg/L < or N.D. = less than detection limit. * Turbidity guideline based on membrane filtration. For guidelines on conventional treatment and slow sand or diatomaceous earth filtration please see Summary Table of Guidelines for Canadian Drinking Water Quality - A blank entry designates no known limit. - A shaded value in the Results column exceeds CDWQG MAC and/ or Aesthetic Objective.</p>						
<p>Approved by <u><i>H McKenzie</i></u> Heather McKenzie Account Manager</p>						



Date: 18-OCT-17

PO No.: 0000132962

WO No.: L2000335

LSD:

Project Ref:

Sample ID: GIAD D113 FS

Sampled By:

Date Collected: 29-SEP-17

Lab Sample ID: L2000335-8

Matrix: WATER

VANCOUVER SCHOOL BOARD
Maintenance and Construction
1549 Clark Drive
Vancouver BC V5L 3L4

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.000693		mg/L	0.01		07-OCT-17
<p>CDWQG = Health Canada Guideline Limits updated DECEMBER 2015</p> <p>* CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. If present as Nitrate then the limit is 10mg/L < or N.D. = less than detection limit. * Turbidity guideline based on membrane filtration. For guidelines on conventional treatment and slow sand or diatomaceous earth filtration please see Summary Table of Guidelines for Canadian Drinking Water Quality - A blank entry designates no known limit. - A shaded value in the Results column exceeds CDWQG MAC and/ or Aesthetic Objective.</p>						
<p>Approved by <u><i>H McKenzie</i></u> Heather McKenzie Account Manager</p>						



Date: 18-OCT-17

PO No.: 0000132962

WO No.: L2000335

LSD:

Project Ref:

Sample ID: GIAD D103 DF

Sampled By:

Date Collected: 29-SEP-17

Lab Sample ID: L2000335-9

Matrix: WATER

VANCOUVER SCHOOL BOARD
Maintenance and Construction
1549 Clark Drive
Vancouver BC V5L 3L4

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.00124		mg/L	0.01		07-OCT-17
<p>CDWQG = Health Canada Guideline Limits updated DECEMBER 2015</p> <p>* CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. If present as Nitrate then the limit is 10mg/L < or N.D. = less than detection limit. * Turbidity guideline based on membrane filtration. For guidelines on conventional treatment and slow sand or diatomaceous earth filtration please see Summary Table of Guidelines for Canadian Drinking Water Quality - A blank entry designates no known limit. - A shaded value in the Results column exceeds CDWQG MAC and/ or Aesthetic Objective.</p>						
<p>Approved by <u><i>H McKenzie</i></u> Heather McKenzie Account Manager</p>						



Date: 18-OCT-17

PO No.: 0000132962

WO No.: L2000335

LSD:

Project Ref:

Sample ID: GIAD D103 BUB

Sampled By:

Date Collected: 29-SEP-17

Lab Sample ID: L2000335-10

Matrix: WATER

VANCOUVER SCHOOL BOARD
Maintenance and Construction
1549 Clark Drive
Vancouver BC V5L 3L4

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.00445		mg/L	0.01		07-OCT-17
<p>CDWQG = Health Canada Guideline Limits updated DECEMBER 2015</p> <p>* CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. If present as Nitrate then the limit is 10mg/L < or N.D. = less than detection limit. * Turbidity guideline based on membrane filtration. For guidelines on conventional treatment and slow sand or diatomaceous earth filtration please see Summary Table of Guidelines for Canadian Drinking Water Quality - A blank entry designates no known limit. - A shaded value in the Results column exceeds CDWQG MAC and/ or Aesthetic Objective.</p>						
<p>Approved by <u><i>H McKenzie</i></u> Heather McKenzie Account Manager</p>						



Date: 18-OCT-17
PO No.: 0000132962
WO No.: L2000335
LSD:
Project Ref:
Sample ID: GIAD B210 BUB
Sampled By:
Date Collected: 29-SEP-17
Lab Sample ID: L2000335-11
Matrix: WATER

VANCOUVER SCHOOL BOARD
Maintenance and Construction
1549 Clark Drive
Vancouver BC V5L 3L4

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.00211		mg/L	0.01		07-OCT-17
CDWQG = Health Canada Guideline Limits updated DECEMBER 2015 * CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. If present as Nitrate then the limit is 10mg/L < or N.D. = less than detection limit. * Turbidity guideline based on membrane filtration. For guidelines on conventional treatment and slow sand or diatomaceous earth filtration please see Summary Table of Guidelines for Canadian Drinking Water Quality - A blank entry designates no known limit. - A shaded value in the Results column exceeds CDWQG MAC and/ or Aesthetic Objective.						
Approved by <u>Heather McKenzie</u> Heather McKenzie Account Manager						



Date: 18-OCT-17
PO No.: 0000132962
WO No.: L2000335
LSD:
Project Ref:
Sample ID: GIAD B205 DF
Sampled By:
Date Collected: 29-SEP-17
Lab Sample ID: L2000335-12
Matrix: WATER

VANCOUVER SCHOOL BOARD
Maintenance and Construction
1549 Clark Drive
Vancouver BC V5L 3L4

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.00213		mg/L	0.01		07-OCT-17
CDWQG = Health Canada Guideline Limits updated DECEMBER 2015 * CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. If present as Nitrate then the limit is 10mg/L < or N.D. = less than detection limit. * Turbidity guideline based on membrane filtration. For guidelines on conventional treatment and slow sand or diatomaceous earth filtration please see Summary Table of Guidelines for Canadian Drinking Water Quality - A blank entry designates no known limit. - A shaded value in the Results column exceeds CDWQG MAC and/ or Aesthetic Objective.						
Approved by <u>Heather McKenzie</u> Heather McKenzie Account Manager						



Date: 18-OCT-17
PO No.: 0000132962
WO No.: L2000335
LSD:
Project Ref:
Sample ID: GIAD B100 DF
Sampled By:
Date Collected: 29-SEP-17
Lab Sample ID: L2000335-13
Matrix: WATER

VANCOUVER SCHOOL BOARD
Maintenance and Construction
1549 Clark Drive
Vancouver BC V5L 3L4

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.000969		mg/L	0.01		07-OCT-17
CDWQG = Health Canada Guideline Limits updated DECEMBER 2015 * CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. If present as Nitrate then the limit is 10mg/L < or N.D. = less than detection limit. * Turbidity guideline based on membrane filtration. For guidelines on conventional treatment and slow sand or diatomaceous earth filtration please see Summary Table of Guidelines for Canadian Drinking Water Quality - A blank entry designates no known limit. - A shaded value in the Results column exceeds CDWQG MAC and/ or Aesthetic Objective.						
Approved by <u><i>H McKenzie</i></u> Heather McKenzie Account Manager						



Date: 18-OCT-17
PO No.: 0000132962
WO No.: L2000335
LSD:
Project Ref:
Sample ID: GIAD 102A FS
Sampled By:
Date Collected: 29-SEP-17
Lab Sample ID: L2000335-14
Matrix: WATER

VANCOUVER SCHOOL BOARD
Maintenance and Construction
1549 Clark Drive
Vancouver BC V5L 3L4

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.000137		mg/L	0.01		12-OCT-17
CDWQG = Health Canada Guideline Limits updated DECEMBER 2015 * CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. If present as Nitrate then the limit is 10mg/L < or N.D. = less than detection limit. * Turbidity guideline based on membrane filtration. For guidelines on conventional treatment and slow sand or diatomaceous earth filtration please see Summary Table of Guidelines for Canadian Drinking Water Quality - A blank entry designates no known limit. - A shaded value in the Results column exceeds CDWQG MAC and/ or Aesthetic Objective.						
Approved by <u>Heather McKenzie</u> Heather McKenzie Account Manager						



Date: 18-OCT-17
PO No.: 0000132962
WO No.: L2000335
LSD:
Project Ref:
Sample ID: GIAD A110 DF
Sampled By:
Date Collected: 29-SEP-17
Lab Sample ID: L2000335-15
Matrix: WATER

VANCOUVER SCHOOL BOARD
Maintenance and Construction
1549 Clark Drive
Vancouver BC V5L 3L4

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.00211		mg/L	0.01		12-OCT-17
CDWQG = Health Canada Guideline Limits updated DECEMBER 2015 * CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. If present as Nitrate then the limit is 10mg/L < or N.D. = less than detection limit. * Turbidity guideline based on membrane filtration. For guidelines on conventional treatment and slow sand or diatomaceous earth filtration please see Summary Table of Guidelines for Canadian Drinking Water Quality - A blank entry designates no known limit. - A shaded value in the Results column exceeds CDWQG MAC and/ or Aesthetic Objective.						
Approved by <u><i>H McKenzie</i></u> Heather McKenzie Account Manager						



Date: 18-OCT-17
PO No.: 0000132962
WO No.: L2000335
LSD:
Project Ref:
Sample ID: GIAD A122 DF
Sampled By:
Date Collected: 29-SEP-17
Lab Sample ID: L2000335-16
Matrix: WATER

VANCOUVER SCHOOL BOARD
Maintenance and Construction
1549 Clark Drive
Vancouver BC V5L 3L4

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.00227		mg/L	0.01		12-OCT-17
CDWQG = Health Canada Guideline Limits updated DECEMBER 2015 * CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. If present as Nitrate then the limit is 10mg/L < or N.D. = less than detection limit. * Turbidity guideline based on membrane filtration. For guidelines on conventional treatment and slow sand or diatomaceous earth filtration please see Summary Table of Guidelines for Canadian Drinking Water Quality - A blank entry designates no known limit. - A shaded value in the Results column exceeds CDWQG MAC and/ or Aesthetic Objective.						
Approved by <u><i>H McKenzie</i></u> Heather McKenzie Account Manager						



Date: 18-OCT-17
PO No.: 0000132962
WO No.: L2000335
LSD:
Project Ref:
Sample ID: GIAD A125 DF
Sampled By:
Date Collected: 29-SEP-17
Lab Sample ID: L2000335-17
Matrix: WATER

VANCOUVER SCHOOL BOARD
Maintenance and Construction
1549 Clark Drive
Vancouver BC V5L 3L4

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.00418		mg/L	0.01		12-OCT-17
CDWQG = Health Canada Guideline Limits updated DECEMBER 2015 * CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. If present as Nitrate then the limit is 10mg/L < or N.D. = less than detection limit. * Turbidity guideline based on membrane filtration. For guidelines on conventional treatment and slow sand or diatomaceous earth filtration please see Summary Table of Guidelines for Canadian Drinking Water Quality - A blank entry designates no known limit. - A shaded value in the Results column exceeds CDWQG MAC and/ or Aesthetic Objective.						
Approved by <u>Heather McKenzie</u> Heather McKenzie Account Manager						



Date: 18-OCT-17

PO No.: 0000132962

WO No.: L2000335

LSD:

Project Ref:

Sample ID: GIAD V109 BUB

Sampled By:

Date Collected: 29-SEP-17

Lab Sample ID: L2000335-18

Matrix: WATER

VANCOUVER SCHOOL BOARD
Maintenance and Construction
1549 Clark Drive
Vancouver BC V5L 3L4

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.00155		mg/L	0.01		12-OCT-17
<p>CDWQG = Health Canada Guideline Limits updated DECEMBER 2015</p> <p>* CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. If present as Nitrate then the limit is 10mg/L < or N.D. = less than detection limit. * Turbidity guideline based on membrane filtration. For guidelines on conventional treatment and slow sand or diatomaceous earth filtration please see Summary Table of Guidelines for Canadian Drinking Water Quality - A blank entry designates no known limit. - A shaded value in the Results column exceeds CDWQG MAC and/ or Aesthetic Objective.</p>						
<p>Approved by <u><i>H McKenzie</i></u> Heather McKenzie Account Manager</p>						

ADDRESS: 8081 Lougheed Hwy, Suite 100, Burnaby, BC V5A 1W9 Canada | Phone: +1 604 253 4188 | Fax: +1 604 253 6700

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Date: 18-OCT-17
PO No.: 0000132962
WO No.: L2000335
LSD:
Project Ref:
Sample ID: GIAD V107 BUB
Sampled By:
Date Collected: 29-SEP-17
Lab Sample ID: L2000335-19
Matrix: WATER

VANCOUVER SCHOOL BOARD
Maintenance and Construction
1549 Clark Drive
Vancouver BC V5L 3L4

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.00764		mg/L	0.01		12-OCT-17
CDWQG = Health Canada Guideline Limits updated DECEMBER 2015 * CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. If present as Nitrate then the limit is 10mg/L < or N.D. = less than detection limit. * Turbidity guideline based on membrane filtration. For guidelines on conventional treatment and slow sand or diatomaceous earth filtration please see Summary Table of Guidelines for Canadian Drinking Water Quality - A blank entry designates no known limit. - A shaded value in the Results column exceeds CDWQG MAC and/ or Aesthetic Objective.						
Approved by <u>Heather McKenzie</u> Heather McKenzie Account Manager						



Date: 18-OCT-17

PO No.: 0000132962

WO No.: L2000335

LSD:

Project Ref:

Sample ID: GIAD V105 BUB

Sampled By:

Date Collected: 29-SEP-17

Lab Sample ID: L2000335-20

Matrix: WATER

VANCOUVER SCHOOL BOARD
Maintenance and Construction
1549 Clark Drive
Vancouver BC V5L 3L4

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.000946		mg/L	0.01		12-OCT-17
<p>CDWQG = Health Canada Guideline Limits updated DECEMBER 2015</p> <p>* CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. If present as Nitrate then the limit is 10mg/L < or N.D. = less than detection limit. * Turbidity guideline based on membrane filtration. For guidelines on conventional treatment and slow sand or diatomaceous earth filtration please see Summary Table of Guidelines for Canadian Drinking Water Quality - A blank entry designates no known limit. - A shaded value in the Results column exceeds CDWQG MAC and/ or Aesthetic Objective.</p>						
<p>Approved by <u><i>H McKenzie</i></u> Heather McKenzie Account Manager</p>						



Date: 18-OCT-17

PO No.: 0000132962

WO No.: L2000335

LSD:

Project Ref:

Sample ID: GIAD V103 BUB

Sampled By:

Date Collected: 29-SEP-17

Lab Sample ID: L2000335-21

Matrix: WATER

VANCOUVER SCHOOL BOARD
 Maintenance and Construction
 1549 Clark Drive
 Vancouver BC V5L 3L4

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.00118		mg/L	0.01		12-OCT-17
<p>CDWQG = Health Canada Guideline Limits updated DECEMBER 2015</p> <p>* CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. If present as Nitrate then the limit is 10mg/L < or N.D. = less than detection limit. * Turbidity guideline based on membrane filtration. For guidelines on conventional treatment and slow sand or diatomaceous earth filtration please see Summary Table of Guidelines for Canadian Drinking Water Quality - A blank entry designates no known limit. - A shaded value in the Results column exceeds CDWQG MAC and/ or Aesthetic Objective.</p>						
<p>Approved by <u><i>H McKenzie</i></u> Heather McKenzie Account Manager</p>						



Date: 18-OCT-17
PO No.: 0000132962
WO No.: L2000335
LSD:
Project Ref:
Sample ID: GIAD E105 DF
Sampled By:
Date Collected: 29-SEP-17
Lab Sample ID: L2000335-22
Matrix: WATER

VANCOUVER SCHOOL BOARD
Maintenance and Construction
1549 Clark Drive
Vancouver BC V5L 3L4

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.00344		mg/L	0.01		12-OCT-17
CDWQG = Health Canada Guideline Limits updated DECEMBER 2015 * CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. If present as Nitrate then the limit is 10mg/L < or N.D. = less than detection limit. * Turbidity guideline based on membrane filtration. For guidelines on conventional treatment and slow sand or diatomaceous earth filtration please see Summary Table of Guidelines for Canadian Drinking Water Quality - A blank entry designates no known limit. - A shaded value in the Results column exceeds CDWQG MAC and/ or Aesthetic Objective.						
Approved by <u>Heather McKenzie</u> Heather McKenzie Account Manager						



Date: 18-OCT-17
PO No.: 0000132962
WO No.: L2000335
LSD:
Project Ref:
Sample ID: GIAD A204 DF
Sampled By:
Date Collected: 29-SEP-17
Lab Sample ID: L2000335-23
Matrix: WATER

VANCOUVER SCHOOL BOARD
Maintenance and Construction
1549 Clark Drive
Vancouver BC V5L 3L4

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	<0.000050		mg/L	0.01		12-OCT-17
CDWQG = Health Canada Guideline Limits updated DECEMBER 2015 * CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. If present as Nitrate then the limit is 10mg/L < or N.D. = less than detection limit. * Turbidity guideline based on membrane filtration. For guidelines on conventional treatment and slow sand or diatomaceous earth filtration please see Summary Table of Guidelines for Canadian Drinking Water Quality - A blank entry designates no known limit. - A shaded value in the Results column exceeds CDWQG MAC and/ or Aesthetic Objective.						
Approved by <u>Heather McKenzie</u> Heather McKenzie Account Manager						

Guidelines & Objectives

Health Canada MAC Health Related Criteria Limits

Nitrate/Nitrite-N*	Criteria limit is 10 mg/L (1.0 mg/L if present as all Nitrite-N). High concentrations may contribute to blue baby syndrome in infants.
Lead*	A cumulative body poison, uncommon in naturally occurring hard waters.
Fluoride*	Present in fluoridated water supplies at 0.8 mg/L to reduce dental caries. Elevated levels causes fluorosis (mottling of teeth).
Total Coliforms*	Criteria is 0 CFU/100mL. Adverse health effects.
E. Coli*	Criteria is 0 CFU/100 mL. Certain E. Coli bacteria can be life threatening.

*Health Canada Canadian Drinking Water Quality Guidelines (MAC limit)

Aesthetic Objective Concentration Levels

Alkalinity	Acid neutralizing capacity. Usually a measure of carbonate and bicarbonates and calculated and reported as calcium carbonate.
Balance	Quality control parameter ratioing cations to anions
Bicarbonate	See Alkalinity. Report as the anion HCO ₃ -1
Carbonate	See Alkalinity. Reported at the anion CO ₃ -2
Calcium	See Hardness. Common major cation of water chemistry.
Chloride	Common major anion of water chemistry.
Conductance	Physical test measuring water salinity (dissolved ions or solids)
Hardness	Classical measure or capacity of water to precipitate soap (chiefly calcium and magnesium ions). Causes scaling tendency in water if carbonates/bicarbonates are present (if >200 mg/L). For drinking water purposes waters with results <200 mg/L are considered acceptable, results >200 mg/L are considered poor but can be tolerated. Results >500 mg/L are unacceptable.
Hydroxide	See alkalinity
Magnesium	See hardness. Common major cation of water chemistry. Elevated levels (>125 mg/L) may exert a cathartic or diuretic action.
pH	Measure of water acidity/alkalinity. Normal range is 7.0-8.5.
Potassium	Common major cation of water chemistry.
Sodium	Common major cation of water chemistry. Measure of salinity (saltiness).
Sulphate	Common major anion of water chemistry. Elevated levels may exert a cathartic or diuretic action.
Total Dissolved Solids	A measure of water salinity.
Iron	Causes staining to laundry and porcelain and astringent taste. Oxidizes to red-brown precipitate on exposure to air.
Manganese	Elevated levels may cause staining of laundry and porcelain.
Heterotrophic Plate Count	Criteria is 500 cfu/mL Measure of heterotrophic bacteria present.

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

L2000335-COFC



COC Number: 15 - 604489

Page 1 of 2

Select Service Level Below - Please confirm all E&P TATs with your AM - surcharges will apply

Regular [R] Standard TAT if received by 3 pm - business days - no surcharges apply
 4 day [P4] 1 Business day [E1]
 3 day [P3] Same Day, Weekend or Statutory holiday [E0]
 2 day [P2]

EMERGENCY

Date and Time Required for all E&P TATs: _____

For tests that can not be performed according to the service level selected, you will be contacted.

Analysis Request

Indicate Filled (F), Preserved (P) or Filtered and Preserved (FP) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mm-yy)	Time (hh:mm)	Sample Type	Number of Containers
GIAD B1R2	DF	29-09-17	15:55	WATER	
GIAD E114	DF		16:00		
GIAD E207	DF		16:08		
GIAD E007	DF		16:10		
GLAD E013	FS		16:15		
GIAD B003	DF		16:16		
GIAD C103	DF		16:22		
GIAD D113	FS		16:25		
GIAD D103	DF		16:30		
GIAD B210	BSUB		16:35		
GIAD B205	DF		16:40		
			16:45		

ALS Contact: P.NA77 Date: 29-09-17 Sampler: S. Thawrot

AF/ECost Center: _____ PO# _____
 Major/Minor Code: _____ Routing Code: _____
 Requisitioner: _____ Location: _____

ALS Lab Work Order # (lab use only)

Report Format / Distribution
 Select Report Format: PDF EXCEL EDD (DIGITAL)
 Quality Control (QC) Report with Report YES NO
 Compare Results to Criteria on Report - provide details below if box checked
 Select Distribution: EMAIL MAIL FAX
 Email 1 or Fax: Ssthomas@us6.6c.c9
 Email 2 _____
 Email 3 _____

Invoice Distribution
 Select Invoice Distribution: EMAIL MAIL FAX
 Email 1 or Fax _____
 Email 2 _____

Oil and Gas Required Fields (client use)
 Project Information
 ALS Account # / Quote #: _____ PO# _____
 Job #: _____ Major/Minor Code: _____
 PO /AFE: _____ Routing Code: _____
 LSD: _____ Location: _____

Shipping and Receipt Information
 SHIPMENT RELEASE (client use)
 Released by: _____ Date: _____ Time: _____
 INITIAL SHIPMENT RECEPTION (lab use only)
 Received by: ALPX Date: 30/9/2017 Time: 10:40
 FINAL SHIPMENT RECEPTION (lab use only)
 Received by: _____ Date: _____ Time: _____

Drinking Water (DW) Samples (client use)
 Are samples taken from a Regulated DW System? YES NO
 Are samples for human drinking water use? YES NO

Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)

Sample Condition AS RECEIVED (lab use only)
 Frozen SIF Observations Yes No
 Ice Packs Ice Cubes Custody seal intact Yes No
 Cooling Initiated
 INITIAL COOLER TEMPERATURES °C: _____ FINAL COOLER TEMPERATURES °C: _____

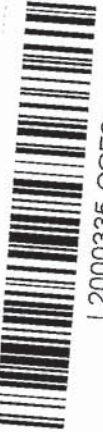
Refer to BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION
 Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.
 1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.



Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

www.alsglobal.com



L2000335-COFC

COC Number: 15 - 604490

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Report To: **Company:** VANCOUVER SCHOOL BOARD
Contact: STATHOME
Phone: 604 273-5632
Street: 1549 CLARK DR
City/Province: VANCOUVER BC
Postal Code: V5L 3L7

Invoice To: Same as Report To YES NO
 Copy of Invoice with Report YES NO

Company: **Contact:**

ALS Account # / Quote #:

Job #:

PO / AFE:

LSD:

Project Information

ALS Lab Work Order # (lab use only)

ALS Sample # (lab use only)

Sample Identification and/or Coordinates
 (This description will appear on the report)

ALS Sample # (lab use only)	Sample Identification and/or Coordinates	Date (dd-mm-yy)	Time (hh:mm)	Sample Type	Sampler:
GIAD B100 DF	FS	29-09-17	16:50	WATER	S.T.
GIAD A102A DF	DF		16:55		
GIAD A110 DF	DF		16:58		
GIAD A122 DF	DF		17:00		
GIAD A125 DF	DF		17:05		
GIAD V109 BUB	BUB		17:10		
GIAD V107 BUB	BUB		17:12		
GIAD V105 BUB	BUB		17:25		
GIAD V103 BUB	BUB		17:30		
GIAD E105 DF	DF		16:05		
GIAD A204 DF	DF		17:35		

ALS Contact: DWATT

AFE/Cost Center:

Major/Minor Code:

Requisitioner:

Location:

Oil and Gas Required Fields (client use)

PO#:

Routing Code:

Report Format / Distribution

Select Report Format: PDF EXCEL EDD (DIGITAL)

Quality Control (QC) Report with Report: YES NO

Compare Results to Criteria on Report - provide details below if box checked

Select Distribution: EMAIL MAIL FAX

Email 1 or Fax: Ssthome@us6.bc.ca

Email 2:

Email 3:

Invoice Distribution: EMAIL MAIL FAX

Select Invoice Distribution: EMAIL MAIL FAX

Email 1 or Fax:

Email 2:

Email 3:

Regular [R]: 4 day [P4] 3 day [P3] 2 day [P2]

EMERGENCY: 1 Business day [E1] Same Day, Weekend or Statutory holiday [E0]

Date and Time Required for all E&P TATs:

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (FP) below

ALS Sample # (lab use only)	Filtered (F)	Preserved (P)	Filtered and Preserved (FP)	Number of Containers
GIAD B100 DF				
GIAD A102A DF				
GIAD A110 DF				
GIAD A122 DF				
GIAD A125 DF				
GIAD V109 BUB				
GIAD V107 BUB				
GIAD V105 BUB				
GIAD V103 BUB				
GIAD E105 DF				
GIAD A204 DF				

Drinking Water (DW) Samples (client use)

Are samples taken from a Regulated DW System? YES NO

Are samples for human drinking water use? YES NO

SHIPMENT RELEASE (client use)

Released by: Alex
Date: 30/9/2017
Time: 10:40

SHIPMENT RECEPTION (lab use only)

Received by: Alex
Date: 30/9/2017
Time: 10:40

Drinking Water (DW) Samples (client use)

Are samples taken from a Regulated DW System? YES NO

Are samples for human drinking water use? YES NO

SHIPMENT RECEPTION (lab use only)

Received by: Alex
Date: 30/9/2017
Time: 10:40

Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)

Sample Condition AS RECEIVED (lab use only)

Frozen SIF Observations Yes No

Ice Packs Ice Cubes Custody seal intact Yes No

Cooling Initiated

INITIAL COOLER TEMPERATURES °C: 7.4
 FINAL COOLER TEMPERATURES °C: