



**CLIENT NAME: GENIVAR INC
SUITE, 301 1091 GORHAM STREET
NEWMARKET, ON L3Y8X7**

ATTENTION TO: Eric Taylor

PROJECT NO: 111-26648-00

AGAT WORK ORDER: 11T563079

WATER ANALYSIS REVIEWED BY: Mike Muneswar, BSc (Chem), Senior Inorganic Analyst

DATE REPORTED: Jan 06, 2012

PAGES (INCLUDING COVER): 5

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

***NOTES**

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.



Certificate of Analysis

AGAT WORK ORDER: 11T563079

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5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
<http://www.agatlabs.com>

CLIENT NAME: GENIVAR INC

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Durham - Groundwater - Group D Parameters

DATE SAMPLED: Dec 28, 2011

DATE RECEIVED: Dec 30, 2011

DATE REPORTED: Jan 06, 2012

SAMPLE TYPE: Water

Parameter	Unit	G / S	RDL	MW1	MW2A	MW2B	MW3A	MW3B	MW4
				3043392	3043393	3043399	3043402	3043405	3043411
Chloride	mg/L	(250)	0.10	14.9	4.72	13.5	22.7	10.8	12.3
Sulphate	mg/L	(500)	0.10	152	72.9	98.8	125	102	50.8
Carbonate (as CaCO ₃)	mg/L		5	<5	<5	<5	<5	<5	<5
Bicarbonate (as CaCO ₃)	mg/L		5	240	221	235	181	247	300
Calcium	mg/L		0.05	83.0	48.3	58.7	76.9	78.4	42.7
Magnesium	mg/L		0.05	46.2	32.0	34.8	11.5	22.4	51.5
Potassium	mg/L		0.05	2.99	2.31	1.09	1.79	2.00	4.39
Sodium	mg/L	20 (200)	0.05	10.3	23.5	29.1	47.5	35.5	22.0
Boron	mg/L	5	0.010	0.019	0.088	0.076	0.129	0.071	0.057
Cadmium	mg/L	0.005	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L		0.001	0.002	0.001	0.001	0.001	<0.001	0.002
Lead	mg/L	0.01	0.002	<0.002	<0.002	<0.002	0.003	<0.002	<0.002
Mercury	mg/L	0.001	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to O.Reg.169/03

Certified By:





Guideline Violation

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SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	GUIDEVALUE	RESULT
3043393	MW2A	O.Reg.169/03	Durham - Groundwater - Group D Parameters	Sodium	20 (200)	23.5
3043399	MW2B	O.Reg.169/03	Durham - Groundwater - Group D Parameters	Sodium	20 (200)	29.1
3043402	MW3A	O.Reg.169/03	Durham - Groundwater - Group D Parameters	Sodium	20 (200)	47.5
3043405	MW3B	O.Reg.169/03	Durham - Groundwater - Group D Parameters	Sodium	20 (200)	35.5
3043411	MW4	O.Reg.169/03	Durham - Groundwater - Group D Parameters	Sodium	20 (200)	22.0

Quality Assurance

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 PROJECT NO: 111-26648-00

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Water Analysis																
RPT Date: Jan 06, 2012			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	

Durham - Groundwater - Group D Parameters

Chloride	1		87.3	93.0	6.3%	< 0.10	90%	90%	110%	91%	90%	110%	105%	80%	120%
Sulphate	1		7.75	8.11	4.5%	< 0.10	93%	90%	110%	93%	90%	110%	104%	80%	120%
Calcium	1		139	140	0.7%	< 0.05	99%	90%	110%	99%	90%	110%	106%	70%	130%
Magnesium	1		27.3	27.6	1.1%	< 0.05	100%	90%	110%	100%	90%	110%	105%	70%	130%
Potassium	1		7.68	7.84	2.1%	< 0.05	99%	90%	110%	98%	90%	110%	100%	70%	130%
Sodium	1		176	179	1.7%	< 0.05	102%	90%	110%	101%	90%	110%	104%	70%	130%
Boron	1	3043411	0.057	0.054	5.4%	< 0.010	100%	90%	110%	106%	90%	110%	99%	70%	130%
Cadmium	1	3043411	< 0.002	< 0.002	0.0%	< 0.002	98%	90%	110%	98%	90%	110%	100%	70%	130%
Cobalt	1	3043411	0.002	0.002	0.0%	< 0.001	97%	90%	110%	99%	90%	110%	91%	70%	130%
Lead	1	3043411	< 0.002	< 0.002	0.0%	< 0.002	108%	90%	110%	109%	90%	110%	101%	70%	130%
Mercury	1	3043405	< 0.0001	< 0.0001	0.0%	< 0.0001	104%	90%	110%	99%	90%	110%	96%	80%	120%

Certified By:


Method Summary

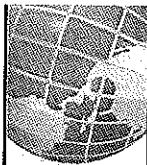
CLIENT NAME: GENIVAR INC

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PROJECT NO: 111-26648-00

ATTENTION TO: Eric Taylor

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Water Analysis			
Chloride	INOR-93-6004	SM 4110 B	ION CHROMATOGRAPH
Sulphate	INOR-93-6004	SM 4110 B	ION CHROMATOGRAPH
Carbonate (as CaCO ₃)	INOR-93-6000	SM 2320 B	PC TITRATE
Bicarbonate (as CaCO ₃)	INOR-93-6000	SM 2320 B	PC TITRATE
Calcium	MET-93-6105	EPA SW-846 6010C & 200.7	ICP/OES
Magnesium	MET-93-6105	EPA SW-846 6010C & 200.7	ICP/OES
Potassium	MET-93-6105	EPA SW-846 6010C & 200.7	ICP/OES
Sodium	MET-93-6105	EPA SW-846 6010C & 200.7	ICP/OES
Boron	MET-93-6103	EPA SW 846 6020A & 200.8	ICP-MS
Cadmium	MET-93-6103	EPA SW 846 6020A & 200.8	ICP-MS
Cobalt	MET-93-6103	EPA SW 846 6020A & 200.8	ICP-MS
Lead	MET-93-6103	EPA SW 846 6020A & 200.8	ICP-MS
Mercury	MET-93-6100	EPA SW-846 7470 & 245.1	CVAAS



AGAT

Laboratories

l med blue

Chain of Custody Record

5835 Coopers Avenue
Mississauga, Ontario
L4Z 1Y2
www.agatlabs.com • webeath.agatlabs.com
Ph.: 905.712.5100 • Fax: 905.712.5122 • Toll Free: 800.856.6261

Laboratory Use Only

Arrival Temperature: 6.2

AGAT WO #: 117563039

Lab Temperature: _____

Notes: _____

Client Information:

Company: Genivas

Contact: Eric Taylor

Address: 1091 Goshawk St. Ste 301
Newmarket, ON L3Y8X7

Phone: 905-853-3303 Fax: _____

Project: 111-26048-00 PO: _____

AGAT Quotation #: 565-2009

Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice To:

Company: _____ Same: Yes No

Contact: _____

Address: _____

Legend Matrix

GW Ground Water 0 Oil

SW Surface Water P Paint

SD Sediment S Soil

Report Information - reports to be sent to:

1. Name: Eric Taylor
Email: Eric.Taylor@genivas.com

2. Name: Steve Iazsak
Email: Stephen.Iazsak@genivas.com

Regulatory Requirements:

Regulation 153/09 (reg. 511 Amend.)

Sewer Use

Regulation 558

CCME

Other (Specify) COOLAS

Prov. Water Quality Objectives (PMQO)

None

Is this a drinking water sample? (potable water intended for human consumption)

Yes No

If "Yes", please use the Drinking Water Chain of Custody Form

Is this submission for a Record of Site Condition?

Yes No

Turnaround Time Required (TAT) Required*

Regular TAT

5 to 7 Working Days

Rush TAT (please provide prior notification)

Rush Surcharges Apply

3 Working Days

2 Working Days

1 Working Day

OR

Date Required (Rush surcharges may apply): _____

*TAT is exclusive of weekends and statutory holidays

Sample Identification	Date Sampled	Time Sampled	Sample Matrix	# of Containers	Comments	Metals and Inorganics	Metal Scan	Hydride Forming Metals	Client Custom Metals	Nutrients	VOC	CCME Fractions 1 to 4	ABNs	PAHs	Chlorophenols	PCBs	Organochlorine Pesticides	TCLP Metals/Inorganics	TCLP	Sewer Use	
MW1	Dec 28/11	2:45pm	GW	3																	
MW2A		3:45pm																			
MW2B		3:46pm																			
MW3A		1:56pm																			
MW3B		1:56pm																			
MW4		2:24pm																			

XXXXXXXX GW-D

Samples Relinquished by (Print name & sign): Eric Taylor Date/Time: Dec 28/11 9:30am

Samples Relinquished by (Print name & sign): Steve Iazsak Date/Time: Dec 30/2011 8:30

Samples Received by (Print name & sign): _____ Date/Time: _____

White Copy - AGAT

Pink Copy - Client

Yellow + Golden Copy - AGAT

Page 1 of 1

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