

Client: R & D Innovative Solution

Ottawa, ON

Attention: Dr. Rabinski

Report Number:

Date:

Date Submitted:

1002820

2010-02-12

2010-02-11

Project:

MAXIMUM PERMISSIBLE LIMITS
Water

Chain of Custody Number: 109929

Resolution of Lab Equipment

Results of Analysis

Matrix:

LAB ID:
Sample Date:
Sample ID:

776462
2010-02-10
Inno1

GUIDELINE

MAXIMUM PERMISSIBLE LIMITS
ODWSOG

PARAMETER	UNITS	MRL				TYPE	LIMIT	UNITS
Total Coliforms	CFU/100mL		0			MAC	0	CFU/100mL
Escherichia Coli	CFU/100mL		0			MAC	0	CFU/100mL
Heterotrophic Plate Count								
Chain of Custody Number: 109929					Matrix:	GUIDELINE ODWSOG	Water	
LAB ID:			776470					
Sample ID:			Inno 1					
PARAMETER	UNITS	MRL				TYPE	LIMIT	UNITS
TABLE B COMPOUNDS (VOCs)								
1,1-dichloroethylene	ug/L	0.5	<0.5			MAC	14	ug/L
1,2-dichlorobenzene	ug/L	0.4	<0.4			MAC	200	ug/L
1,2-dichloroethane	ug/L	0.5	<0.5			IMAC	5	ug/L
1,4-dichlorobenzene	ug/L	0.4	<0.4			MAC	5	ug/L
Benzene	ug/L	0.5	<0.5			MAC	5	ug/L
Carbon Tetrachloride	ug/L	0.5	<0.5			MAC	5	ug/L
Dichloromethane	ug/L	10	<10.0			MAC	50	ug/L
Monochlorobenzene	ug/L	0.2	<0.2			MAC	80	ug/L
Tetrachloroethylene	ug/L	0.3	<0.3			MAC	30	ug/L
Trichloroethylene	ug/L	0.3	<0.3			MAC	5	ug/L
Vinyl Chloride	ug/L	0.2	<0.2			MAC	2	ug/L
Bromodichloromethane	ug/L	0.3	<0.3					
Bromoform	ug/L	0.4	<0.4					
Chloroform	ug/L	0.5	<0.5					
Dibromochloromethane	ug/L	0.3	<0.3					
Trihalomethanes (total)	ug/L	1.5	<1.5			MAC	100	ug/L
Trihalomethanes - running annual average								
TABLE B SURROGATES								
Toluene-d8	%		109					
4-bromofluorobenzene	%		96					
1,2-dichloroethane-d4	%		109					

ve OG = Operational Guideline MAC = Maximum Allowable Concentration IMAC = Interim Maximum Allowable Concentration

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Water

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GUIDELINE
ODWSOG

PARAMETER
Alkalinity as CaCO3
Fluoride
N-NO2 (Nitrite)
N-NO3 (Nitrate)
Sodium
Antimony
Arsenic
Barium
Boron
Cadmium
Chromium
Mercury
Selenium
Uranium

UNITS	MRL			TYPE	LIMIT	UNITS
mg/L	5	15		OG	500	mg/L
mg/L	0.1	0.16		MAC	1.5	mg/L
mg/L	0.1	<0.10		MAC	1	mg/L
mg/L	0.1	<0.10		MAC	10	mg/L
mg/L	2	3		AO	200	mg/L
mg/L	0.0001	0.0002		IMAC	0.006	mg/L
mg/L	0.001	<0.001		IMAC	0.025	mg/L
mg/L	0.01	0.01		MAC	1	mg/L
mg/L	0.01	0.01		IMAC	5	mg/L
mg/L	0.0001	<0.0001		MAC	0.005	mg/L
mg/L	0.001	<0.001		MAC	0.05	mg/L
mg/L	0.0001	<0.0001		MAC	0.001	mg/L
mg/L	0.001	<0.001		MAC	0.01	mg/L
mg/L	0.001	<0.001		MAC	0.02	mg/L

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Chain of Custody Number: 109929

Matrix:

Water

LAB ID: 776470
Sample Date: 2/10/2010
Sample ID: Inno 1

GUIDELINE
ODWSOG

PARAMETER
Organochlorine Pesticides (OCPs) & PCBs
Aldrin
Dieldrin
Aldrin + Dieldrin
a-chlordane
g-chlordane
Oxychlordane
Chlordane (Total)

UNITS	MRL			TYPE	LIMIT	UNITS
ug/L	0.006	<0.006				
ug/L	0.006	<0.006				
ug/L	0.012	<0.012		MAC	0.7	ug/L
ug/L	0.006	<0.006				
ug/L	0.006	<0.006				
ug/L	0.006	<0.006				
ug/L	0.018	<0.018		MAC	7	ug/L

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Resolution of Lab Equipment	Results of Analysis
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Matrix:

Parameter	Resolution of Lab Equipment	Results of Analysis	Matrix	MAC	Limit	Units
op-DDT	ug/L 0.006	<0.006				
pp-DDD	ug/L 0.006	<0.006				
pp-DDE	ug/L 0.006	<0.006				
pp-DDT	ug/L 0.006	<0.006				
Dichlorodiphenyltrichloroethane (DDT) + Metabolites	ug/L 0.024	<0.024	MAC	30	ug/L	
Heptachlor	ug/L 0.006	<0.006				
Heptachlor epoxide	ug/L 0.006	<0.006				
Heptachlor + Heptachlor Epoxide	ug/L 0.012	<0.012	MAC	3	ug/L	
Lindane (Total)	ug/L 0.005	<0.005	MAC	4	ug/L	
Methoxychlor	ug/L 0.024	<0.024	MAC	900	ug/L	
Polychlorinated Biphenyls (PCBs)	ug/L 0.1	<0.1	IMAC	3	ug/L	
CHLOROPHENOLS						
2,3,4,6-tetrachlorophenol	ug/L 0.5	<0.5	MAC	100	ug/L	
2,4,6-trichlorophenol	ug/L 0.5	<0.5	MAC	5	ug/L	
2,4-dichlorophenol	ug/L 0.5	<0.5	MAC	900	ug/L	
Pentachlorophenol	ug/L 0.5	<0.5	MAC	60	ug/L	
PHENOXYACID HERBICIDES						
2,4,5-trichlorophenoxyacetic acid (2,4,5-T)	ug/L 1	<1	MAC	280	ug/L	
2,4-dichlorophenoxyacetic acid (2,4-D)	ug/L 1	<1	IMAC	100	ug/L	
Bromoxynil	ug/L 0.5	<0.5	IMAC	5	ug/L	
Dicamba	ug/L 1	<1	MAC	120	ug/L	
Dinoseb	ug/L 1	<1	MAC	10	ug/L	

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Comment:

APPROVAL:

Charlie Qu

Organic Lab Team Leader

LAB ID: 776470

Sample Date: 2/10/2010

Sample ID: Inno 1

GUIDELINE

ODWSOG

PARAMETER	UNITS	MRL	TYPE	LIMIT	UNITS
Picloram	ug/L	5	IMAC	190	ug/L
CARBAMATES					
Aldicarb	ug/L	5	MAC	9	ug/L
Bendiocarb	ug/L	2	MAC	40	ug/L
Carbaryl	ug/L	5	MAC	90	ug/L
Carbofuran	ug/L	5	MAC	90	ug/L
TRIAZINE & RELATED HERBICIDES					
Alachlor	ug/L	0.5	IMAC	5	ug/L

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Resolution of Lab Equipment	Results of Analysis
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Matrix:

Parameter	Unit	Resolution of Lab Equipment	Results of Analysis	Matrix	Method	Limit	Unit
Atrazine	ug/L	0.2	<0.2				
De-ethylated atrazine	ug/L	0.5	<0.5				
Atrazine + N-dealkylated metabolites	ug/L	0.2	<0.2		IMAC	5	ug/L
Cyanazine	ug/L	1	<1		IMAC	10	ug/L
Metolachlor	ug/L	0.5	<0.5		IMAC	50	ug/L
Metribuzin	ug/L	5	<5		MAC	80	ug/L
Prometryne	ug/L	0.25	<0.25		IMAC	1	ug/L
Simazine	ug/L	1	<1		IMAC	10	ug/L
ORGANOPHOSPHOROUS PESTICIDES							
Azinphos-methyl	ug/L	2	<2		MAC	20	ug/L
Chlorpyrifos	ug/L	1	<1		MAC	90	ug/L
Diazinon	ug/L	1	<1		MAC	20	ug/L
Diclofop-methyl	ug/L	0.9	<0.9		MAC	9	ug/L
Dimethoate	ug/L	2.5	<2.5		IMAC	20	ug/L
Malathion	ug/L	5	<5		MAC	190	ug/L
Parathion	ug/L	1	<1		MAC	50	ug/L
Phorate	ug/L	0.5	<0.5		IMAC	2	ug/L
Temephos	ug/L	10	<10		IMAC	280	ug/L
Terbufos	ug/L	0.4	<0.4		IMAC	1	ug/L
Triallate	ug/L	1	<1		MAC	230	ug/L
Trifluralin	ug/L	0.4	<0.4		IMAC	45	ug/L

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Organic Lab Team Leader

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GUIDELINE
ODWSOG

PARAMETER
DIURON & GLYPHOSATE
Diuron
Glyphosate
DIQUAT & PARAQUAT
Diquat
Paraquat
BENZO (a) PYRENE
Benzo(a)pyrene

PARAMETER	UNITS	MRL	TYPE	LIMIT	UNITS
Diuron	ug/L	10	MAC	150	ug/L
Glyphosate	ug/L	10	IMAC	280	ug/L
Diquat	ug/L	7	MAC	70	ug/L
Paraquat	ug/L	1	IMAC	10	ug/L
Benzo(a)pyrene	ug/L	0.01	MAC	0.01	ug/L

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