Environment Canada -Laboratories
Pacific Environmental Science Centre
2645 Dollarton Hwy.
North Vancouver, B.C.
V7H 1V2 (604)924-2500

Lab Reference #
9 7 1 3 6 4

00:54 17-Apr-97

F I N A L R E P O R T

Identification: OUTSELL WELL

Type of Sample: Fresh Water (General)

Submitted by: WYETH,M
NANAIMO
ENV SEC NANAIMO
EP NANAIMO
BCMELP VAN. IS.

Submission RefId: 10028695

Logged in: 20-Mar-97 (1 sample)

Completed: 15-Apr-97 (85 results)

Charged to: 7001-16
+CA WASTE - VAN ISLAND

Analyzed for: INORGANICS, METALS, FIELD DATA

Authorized by: Richard Strub
QA Officer

Notes:

[1] -"anions/ic" are analyses performed by ion chromatography. Nitrate and nitrite concentrations are expressed as nitrogen.

RESULTS FOR OUTSELL WELL SAMPLE

Parameter Analyzed		Units	971364-001
ALKALINITY		mg/l	159
ANIONS/IC - BROMIDE		mg/l	<0.05
CHLORIDE		mg/l	8.7
FLUORIDE		mg/l	0.13
NITRATE-NITROGEN		mg/l	0.027
NITRITE-NITROGEN		mg/l	<0.005
SULPHATE		mg/l	10
CONDUCTIVITY		uS/cm	332
METALS/DISS.(WATER-ICP SCAN)	AG	mg/l	<.01
	AL	mg/l	<.05
	AS	mg/l	<.05
	B	mg/l	.04
	BA	mg/l	.001
	BE	mg/l	<.001
	CA	mg/l	40.9
	CD	mg/l	<.005
	CO	mg/l	.011
	CR	mg/l	<.005
	CU	mg/l	<.005
	FE	mg/l	.016
	K	mg/l	.3
	MG	mg/l	9.3
	MN	mg/l	.003
	MO	mg/l	<.01
	NA	mg/l	19.5
	NI	mg/l	<.02
	P	mg/l	<.1
	PB	mg/l	<.05
	S	mg/l	3.49
	SB	mg/l	<.05
	SE	mg/l	<.05
	SI	mg/l	12.3
	SN	mg/l	<.05
	SR	mg/l	.093
	TI	mg/l	<.002
	V	mg/l	<.01
	ZN	mg/l	.008
.HARDNESS/CA+MG	HC	mg/l	140
/TOTAL	HT	mg/l	140
/TOTAL (WATER-ICP)	AG	mg/l	<.01
	AL	mg/l	<.06
	AS	mg/l	<.06
	B	mg/l	.04
	BA	mg/l	<.001
	BE	mg/l	<.001
	CA	mg/l	40.2
	CD	mg/l	<.006
	CO	mg/l	<.006
	CR	mg/l	<.006
	CU	mg/l	<.006
	FE	mg/l	.633
	K	mg/l	.2
	MG	mg/l	9.2

RESULTS FOR OUTSELL WELL SAMPLE

Parameter Analyzed		Units	971364-001
METALS/TOTAL (WATER-ICP)	MN	mg/l	.019
	MO	mg/l	<.01
	NA	mg/l	19.6
	NI	mg/l	<.02
	P	mg/l	<.1
	PB	mg/l	<.06
	S	mg/l	3.37
	SB	mg/l	<.06
	SE	mg/l	<.06
	SI	mg/l	12.5
	SN	mg/l	<.06
	SR	mg/l	.092
	TI	mg/l	<.002
	V	mg/l	<.01
	ZN	mg/l	.006
NITROGEN/AMMONIA		mg/l	<.002
/TOTAL		mg/l	.08
OXYGEN DEMAND/CHEMICAL		mg/l	<10
PH		Rel.U.	7.25
PHOSPHORUS/O-PO4		mg/l	.003
RESIDUE/FILTERABLE		mg/l	220
/TOTAL		mg/l	200
BC SAMPLING AGENCY		EMScode	10
COLLECTION START DATE		y/m/d	97/03/18
TIME		hhmm	0945
UPPER DEPTH		metres	0.5
TEMPERATURE ON ARRIVAL		deg.C	6

Environment Canada -Laboratories
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Lab Reference #
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00:53 17-Apr-97

F I N A L R E P O R T

Identification: OUTSELL POND

Type of Sample: Fresh Water (General)

Submitted by: WYETH,M
NANAIMO
ENV SEC NANAIMO
EP NANAIMO
BCMELP VAN. IS.

Submission RefId: 10028694

Logged in: 20-Mar-97 (1 sample)

Completed: 15-Apr-97 (85 results)

Charged to: 7001-16
+CA WASTE - VAN ISLAND

Analyzed for: INORGANICS, METALS, FIELD DATA

Authorized by: Richard Strub
Richard Strub
QA Officer

Notes:

[1] -"anions/ic" are analyses performed by ion chromatography. Nitrate and nitrite concentrations are expressed as nitrogen.

RESULTS FOR OUTSELL POND SAMPLE

Parameter Analyzed		Units	971363-001
ALKALINITY		mg/l	22.3
ANIONS/IC - BROMIDE		mg/l	<0.05
CHLORIDE		mg/l	6.27
FLUORIDE		mg/l	0.06
NITRATE-NITROGEN		mg/l	0.276
NITRITE-NITROGEN		mg/l	<0.005
SULPHATE		mg/l	19.0
CONDUCTIVITY		uS/cm	116
METALS/DISS.(WATER-ICP SCAN)	AG	mg/l	<.01
	AL	mg/l	.11
	AS	mg/l	<.05
	B	mg/l	.02
	BA	mg/l	.004
	BE	mg/l	<.001
	CA	mg/l	10.2
	CD	mg/l	<.005
	CO	mg/l	<.005
	CR	mg/l	<.005
	CU	mg/l	<.005
	FE	mg/l	.108
	K	mg/l	.6
	MG	mg/l	3
	MN	mg/l	.026
	MO	mg/l	<.01
	NA	mg/l	7.4
	NI	mg/l	<.02
	P	mg/l	<.1
	PB	mg/l	<.05
	S	mg/l	6.35
	SB	mg/l	<.05
	SE	mg/l	<.05
	SI	mg/l	7.64
	SN	mg/l	<.05
	SR	mg/l	.069
	TI	mg/l	.007
	V	mg/l	<.01
	ZN	mg/l	.008
.HARDNESS/CA+MG	HC	mg/l	37.7
/TOTAL	HT	mg/l	38.4
/TOTAL (WATER-ICP)	AG	mg/l	<.01
	AL	mg/l	1.19
	AS	mg/l	<.06
	B	mg/l	.01
	BA	mg/l	.005
	BE	mg/l	<.001
	CA	mg/l	10
	CD	mg/l	<.006
	CO	mg/l	<.006
	CR	mg/l	<.006
	CU	mg/l	<.006
	FE	mg/l	.67
	K	mg/l	.5
	MG	mg/l	3

RESU TS FOR OUTSELL POND SI PLE

Parameter Analyzed		Units	971363-001
METALS/TOTAL (WATER-ICP)	MN	mg/l	.034
	MO	mg/l	<.01
	NA	mg/l	7.4
	NI	mg/l	<.02
	P	mg/l	<.1
	PB	mg/l	<.06
	S	mg/l	6.32
	SB	mg/l	<.06
	SE	mg/l	<.06
	SI	mg/l	9.5
	SN	mg/l	<.06
	SR	mg/l	.07
	TI	mg/l	.05
	V	mg/l	<.01
	ZN	mg/l	.006
NITROGEN/AMMONIA		mg/l	.008
/TOTAL		mg/l	.52
OXYGEN DEMAND/CHEMICAL		mg/l	203
PH		Rel.U.	6.98
PHOSPHORUS/O-PO4		mg/l	<.001
RESIDUE/FILTERABLE		mg/l	110
/TOTAL		mg/l	100
BC SAMPLING AGENCY		EMScode	10
COLLECTION START DATE		y/m/d	97/03/18
TIME		hhmm	0955
UPPER DEPTH		metres	0.5
TEMPERATURE ON ARRIVAL		deg.C	6

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Lab Reference #
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04:36 18-Apr-97

F I N A L R E P O R T

Identification: BELLHOUSE POND

Type of Sample: Fresh Water (General)

Submitted by: WYETH,M
NANAIMO
ENV SEC NANAIMO
EP NANAIMO
BCMELP VAN. IS.

Submission RefId: 10028697

Logged in: 20-Mar-97 (1 sample)

Completed: 17-Apr-97 (85 results)

Charged to: 7001-16
+CA WASTE - VAN ISLAND

Analyzed for: INORGANICS, METALS, FIELD DATA

Authorized by: Richard Strub

Richard Strub
CHEMIST

Notes:

[1] -"anions/ic" are analyses performed by ion chromatography. Nitrate and nitrite concentrations are expressed as nitrogen.

RESULTS FOR BELLHOUSE POND SAMPLE

Parameter Analyzed		Units	971366-001
ALKALINITY		mg/l	49.8
ANIONS/IC - BROMIDE		mg/l	<0.05
CHLORIDE		mg/l	16
FLUORIDE		mg/l	0.06
NITRATE-NITROGEN		mg/l	1.06
NITRITE-NITROGEN		mg/l	<0.005
SULPHATE		mg/l	8.8
CONDUCTIVITY		uS/cm	143
METALS/DISS.(WATER-ICP SCAN)	AG	mg/l	<.01
	AL	mg/l	.15
	AS	mg/l	<.05
	B	mg/l	.01
	BA	mg/l	.005
	BE	mg/l	<.001
	CA	mg/l	9.7
	CD	mg/l	<.005
	CO	mg/l	.005
	CR	mg/l	.009
	CU	mg/l	<.005
	FE	mg/l	.109
	K	mg/l	1.7
	MG	mg/l	3.2
	MN	mg/l	.011
	MO	mg/l	<.01
	NA	mg/l	11.8
	NI	mg/l	<.02
	P	mg/l	.2
	PB	mg/l	<.05
	S	mg/l	2.95
	SB	mg/l	<.05
	SE	mg/l	<.05
	SI	mg/l	7.97
	SN	mg/l	<.05
	SR	mg/l	.069
	TI	mg/l	.003
	V	mg/l	<.01
	ZN	mg/l	.005
.HARDNESS/CA+MG	HC	mg/l	37.4
/TOTAL	HT	mg/l	38.3
/TOTAL (WATER-ICP)	AG	mg/l	<.01
	AL	mg/l	1.61
	AS	mg/l	<.06
	B	mg/l	.01
	BA	mg/l	.01
	BE	mg/l	<.001
	CA	mg/l	9.8
	CD	mg/l	<.006
	CO	mg/l	<.006
	CR	mg/l	<.006
	CU	mg/l	<.006
	FE	mg/l	1.03
	K	mg/l	1.8
	MG	mg/l	3.4

RESUL S FOR BELLHOUSE POND . MPLE

Parameter Analyzed		Units	971366-001
METALS/TOTAL (WATER-ICP)	MN	mg/l	.032
	MO	mg/l	<.01
	NA	mg/l	11.9
	NI	mg/l	<.02
	P	mg/l	.3
	PB	mg/l	<.06
	S	mg/l	3.06
	SB	mg/l	<.06
	SE	mg/l	<.06
	SI	mg/l	10.2
	SN	mg/l	<.06
	SR	mg/l	.072
	TI	mg/l	.067
	V	mg/l	<.01
	ZN	mg/l	.008
NITROGEN/AMMONIA		mg/l	.11
/TOTAL		mg/l	1.9
OXYGEN DEMAND/CHEMICAL		mg/l	57
PH		Rel.U.	7.06
PHOSPHORUS/O-PO4		mg/l	.163
RESIDUE/FILTERABLE		mg/l	140
/TOTAL		mg/l	140
BC SAMPLING AGENCY		EMScode	10
COLLECTION START DATE		y/m/d	97/03/18
TIME		hhmm	0850
UPPER DEPTH		metres	0.5
TEMPERATURE ON ARRIVAL		deg.C	6

Environment Canada -Labora' ›ries
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V7H 1V2 (604)924-2500

Lab Reference #
9 7 1 3 6 4

04:34 18-Apr-97

F I N A L R E P O R T

Identification: OUTSELL WELL

Type of Sample: Fresh Water (General)

Submitted by: WYETH,M
NANAIMO
ENV SEC NANAIMO
EP NANAIMO
BCMELP VAN. IS.

Submission RefId: 10028695

Logged in: 20-Mar-97 (1 sample)

Completed: 15-Apr-97 (85 results)

Charged to: 7001-16
+CA WASTE - VAN ISLAND

Analyzed for: INORGANICS, METALS, FIELD DATA

Authorized by: _____

Notes:

[1] -"anions/ic" are analyses performed by ion chromatography. Nitrate and nitrite concentrations are expressed as nitrogen.

RESULTS FOR OUTSELL WELL SAMPLE

Parameter Analyzed		Units	971364-001
ALKALINITY		mg/l	159
ANIONS/IC - BROMIDE		mg/l	<0.05
CHLORIDE		mg/l	8.7
FLUORIDE		mg/l	0.13
NITRATE-NITROGEN		mg/l	0.027
NITRITE-NITROGEN		mg/l	<0.005
SULPHATE		mg/l	10
CONDUCTIVITY		uS/cm	332
METALS/DISS.(WATER-ICP SCAN)	AG	mg/l	<.01
	AL	mg/l	<.05
	AS	mg/l	<.05
	B	mg/l	.04
	BA	mg/l	.001
	BE	mg/l	<.001
	CA	mg/l	40.9
	CD	mg/l	<.005
	CO	mg/l	.011
	CR	mg/l	<.005
	CU	mg/l	<.005
	FE	mg/l	.016
	K	mg/l	.3
	MG	mg/l	9.3
	MN	mg/l	.003
	MO	mg/l	<.01
	NA	mg/l	19.5
	NI	mg/l	<.02
	P	mg/l	<.1
	PB	mg/l	<.05
	S	mg/l	3.49
	SB	mg/l	<.05
	SE	mg/l	<.05
	SI	mg/l	12.3
	SN	mg/l	<.05
	SR	mg/l	.093
	TI	mg/l	<.002
	V	mg/l	<.01
	ZN	mg/l	.008
.HARDNESS/CA+MG	HC	mg/l	140
/TOTAL	HT	mg/l	140
/TOTAL (WATER-ICP)	AG	mg/l	<.01
	AL	mg/l	<.06
	AS	mg/l	<.06
	B	mg/l	.04
	BA	mg/l	<.001
	BE	mg/l	<.001
	CA	mg/l	40.2
	CD	mg/l	<.006
	CO	mg/l	<.006
	CR	mg/l	<.006
	CU	mg/l	<.006
	FE	mg/l	.633
	K	mg/l	.2
	MG	mg/l	9.2

RESU :S FOR OUTSELL WELL SA PLE

Parameter Analyzed		Units	971364-001
METALS/TOTAL (WATER-ICP)	MN	mg/l	.019
	MO	mg/l	<.01
	NA	mg/l	19.6
	NI	mg/l	<.02
	P	mg/l	<.1
	PB	mg/l	<.06
	S	mg/l	3.37
	SB	mg/l	<.06
	SE	mg/l	<.06
	SI	mg/l	12.5
	SN	mg/l	<.06
	SR	mg/l	.092
	TI	mg/l	<.002
	V	mg/l	<.01
	ZN	mg/l	.006
NITROGEN/AMMONIA		mg/l	<.002
/TOTAL		mg/l	.08
OXYGEN DEMAND/CHEMICAL		mg/l	<10
PH		Rel.U.	7.25
PHOSPHORUS/O-PO4		mg/l	.003
RESIDUE/FILTERABLE		mg/l	220
/TOTAL		mg/l	200
BC SAMPLING AGENCY		EMScode	10
COLLECTION START DATE		y/m/d	97/03/18
TIME		hhmm	0945
UPPER DEPTH		metres	0.5
TEMPERATURE ON ARRIVAL		deg.C	6

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Lab Reference #
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04:34 18-Apr-97

F I N A L R E P O R T

Identification: OUTSELL POND

Type of Sample: Fresh Water (General)

Submitted by: WYETH,M
NANAIMO
ENV SEC NANAIMO
EP NANAIMO
BCMELP VAN. IS.

Submission RefId: 10028694

Logged in: 20-Mar-97 (1 sample)

Completed: 15-Apr-97 (85 results)

Charged to: 7001-16
+CA WASTE - VAN ISLAND

Analyzed for: INORGANICS, METALS, FIELD DATA

Authorized by: _____

Richard Strut
QA Officer

Notes:

[1] -"anions/ic" are analyses performed by ion chromatography. Nitrate and nitrite concentrations are expressed as nitrogen.

RESULTS FOR OUTSELL POND SAMPLE

Parameter Analyzed		Units	971363-001
ALKALINITY		mg/l	22.3
ANIONS/IC - BROMIDE		mg/l	<0.05
CHLORIDE		mg/l	6.27
FLUORIDE		mg/l	0.06
NITRATE-NITROGEN		mg/l	0.276
NITRITE-NITROGEN		mg/l	<0.005
SULPHATE		mg/l	19.0
CONDUCTIVITY		uS/cm	116
METALS/DISS.(WATER-ICP SCAN)	AG	mg/l	<.01
	AL	mg/l	.11
	AS	mg/l	<.05
	B	mg/l	.02
	BA	mg/l	.004
	BE	mg/l	<.001
	CA	mg/l	10.2
	CD	mg/l	<.005
	CO	mg/l	<.005
	CR	mg/l	<.005
	CU	mg/l	<.005
	FE	mg/l	.108
	K	mg/l	.6
	MG	mg/l	3
	MN	mg/l	.026
	MO	mg/l	<.01
	NA	mg/l	7.4
	NI	mg/l	<.02
	P	mg/l	<.1
	PB	mg/l	<.05
	S	mg/l	6.35
	SB	mg/l	<.05
	SE	mg/l	<.05
	SI	mg/l	7.64
	SN	mg/l	<.05
	SR	mg/l	.069
	TI	mg/l	.007
	V	mg/l	<.01
	ZN	mg/l	.008
.HARDNESS/CA+MG	HC	mg/l	37.7
/TOTAL	HT	mg/l	38.4
/TOTAL (WATER-ICP)	AG	mg/l	<.01
	AL	mg/l	1.19
	AS	mg/l	<.06
	B	mg/l	.01
	BA	mg/l	.005
	BE	mg/l	<.001
	CA	mg/l	10
	CD	mg/l	<.006
	CO	mg/l	<.006
	CR	mg/l	<.006
	CU	mg/l	<.006
	FE	mg/l	.67
	K	mg/l	.5
	MG	mg/l	3

RESU fS FOR OUTSELL POND SI PLE

Parameter Analyzed		Units	971363-001
METALS/TOTAL (WATER-ICP)	MN	mg/l	.034
	MO	mg/l	<.01
	NA	mg/l	7.4
	NI	mg/l	<.02
	P	mg/l	<.1
	PB	mg/l	<.06
	S	mg/l	6.32
	SB	mg/l	<.06
	SE	mg/l	<.06
	SI	mg/l	9.5
	SN	mg/l	<.06
	SR	mg/l	.07
	TI	mg/l	.05
	V	mg/l	<.01
	ZN	mg/l	.006
NITROGEN/AMMONIA		mg/l	.008
/TOTAL		mg/l	.52
OXYGEN DEMAND/CHEMICAL		mg/l	203
PH		Rel.U.	6.98
PHOSPHORUS/O-PO4		mg/l	<.001
RESIDUE/FILTERABLE		mg/l	110
/TOTAL		mg/l	100
BC SAMPLING AGENCY		EMScode	10
COLLECTION START DATE		y/m/d	97/03/18
TIME		hhmm	0955
UPPER DEPTH		metres	0.5
TEMPERATURE ON ARRIVAL		deg.C	6

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Pacific Environmental Science Centre
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V7H 1V2 (604)924-2500

Lab Reference #
9 7 1 3 6 5

04:35 18-Apr-97

F I N A L R E P O R T

Identification: BURDGE WELL

Type of Sample: Fresh Water (General)

Submitted by: WYETH,M
NANAIMO
ENV SEC NANAIMO
EP NANAIMO
BCMELP VAN. IS.

Submission RefId: 10028696

Logged in: 20-Mar-97 (1 sample)

Completed: 16-Apr-97 (85 results)

Charged to: 7001-16
+CA WASTE - VAN ISLAND

Analyzed for: INORGANICS, METALS, FIELD DATA

Authorized by: Richard Strub
Microbiologist
QA Officer

Notes:

[1] -"anions/ic" are analyses performed by ion chromatography. Nitrate and nitrite concentrations are expressed as nitrogen.

RESULTS FOR BURDGE WELL SAMPLE

Parameter Analyzed		Units	971365-001
ALKALINITY		mg/l	170
ANIONS/IC - BROMIDE		mg/l	0.06
CHLORIDE		mg/l	9.7
FLUORIDE		mg/l	0.09
NITRATE-NITROGEN		mg/l	<0.002
NITRITE-NITROGEN		mg/l	<0.005
SULPHATE		mg/l	10
CONDUCTIVITY		uS/cm	357
METALS/DISS.(WATER-ICP SCAN)	AG	mg/l	<.01
	AL	mg/l	<.05
	AS	mg/l	<.05
	B	mg/l	.05
	BA	mg/l	<.001
	BE	mg/l	<.001
	CA	mg/l	53.8
	CD	mg/l	<.005
	CO	mg/l	<.005
	CR	mg/l	<.005
	CU	mg/l	<.005
	FE	mg/l	.056
	K	mg/l	.2
	MG	mg/l	4.8
	MN	mg/l	.116
	MO	mg/l	<.01
	NA	mg/l	19.6
	NI	mg/l	<.02
	P	mg/l	<.1
	PB	mg/l	<.05
	S	mg/l	3.44
	SB	mg/l	<.05
	SE	mg/l	<.05
	SI	mg/l	12
	SN	mg/l	<.05
	SR	mg/l	.083
	TI	mg/l	<.002
	V	mg/l	<.01
	ZN	mg/l	.041
.HARDNESS/CA+MG	HC	mg/l	154
/TOTAL	HT	mg/l	154
/TOTAL (WATER-ICP)	AG	mg/l	<.01
	AL	mg/l	<.06
	AS	mg/l	<.06
	B	mg/l	.05
	BA	mg/l	<.001
	BE	mg/l	<.001
	CA	mg/l	52.3
	CD	mg/l	<.006
	CO	mg/l	<.006
	CR	mg/l	<.006
	CU	mg/l	.023
	FE	mg/l	.1
	K	mg/l	<.1
	MG	mg/l	4.8

RES .TS FOR BURDGE WELL SA LE

Parameter Analyzed		Units	971365-001
METALS/TOTAL (WATER-ICP)	MN	mg/l	.118
	MO	mg/l	<.01
	NA	mg/l	19.2
	NI	mg/l	<.02
	P	mg/l	<.1
	PB	mg/l	<.06
	S	mg/l	3.36
	SB	mg/l	<.06
	SE	mg/l	<.06
	SI	mg/l	11.9
	SN	mg/l	<.06
	SR	mg/l	.083
	TI	mg/l	<.002
	V	mg/l	<.01
	ZN	mg/l	.036
NITROGEN/AMMONIA		mg/l	.017
/TOTAL		mg/l	.03
OXYGEN DEMAND/CHEMICAL		mg/l	23
PH		Rel.U.	7.69
PHOSPHORUS/O-PO4		mg/l	.002
RESIDUE/FILTERABLE		mg/l	240
/TOTAL		mg/l	230
BC SAMPLING AGENCY		EMScode	10
COLLECTION START DATE		y/m/d	97/03/18
TIME		hhmm	0925
UPPER DEPTH		metres	0.5
TEMPERATURE ON ARRIVAL		deg.C	6

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Pacific Environmental Science Centre
2645 Dollarton Hwy.
North Vancouver, B.C.
V7H 1V2 (604)924-2500

Lab Reference #
9 7 1 3 6 7

01:11 02-May-97

File
PR5559
Monitoring
Study.

F I N A L R E P O R T

Identification: BELLHOUSE WELL

Type of Sample: Fresh Water (General)

Submitted by: WYETH,M
NANAIMO
ENV SEC NANAIMO
EP NANAIMO
BCMELP VAN. IS.

Submission RefId: 10028698

Logged in: 20-Mar-97 (1 sample)

Completed: 01-May-97 (85 results)

Charged to: 7001-16
+CA WASTE - VAN ISLAND

Analyzed for: INORGANICS, METALS, FIELD DATA

Authorized by: Richard Strub
Richard Strub
QA Officer

Notes:

[1] -"anions/ic" are analyses performed by ion chromatography. Nitrate and nitrite concentrations are expressed as nitrogen.

RESU S FOR BELLHOUSE WELL AMPLE

Parameter Analyzed		Units	971367-001
ALKALINITY		mg/l	27.5
ANIONS/IC - BROMIDE		mg/l	<0.05
CHLORIDE		mg/l	3.4
FLUORIDE		mg/l	0.04
NITRATE-NITROGEN		mg/l	0.607
NITRITE-NITROGEN		mg/l	<0.005
SULPHATE		mg/l	4.3
CONDUCTIVITY		uS/cm	86
METALS/DISS.(WATER-ICP SCAN)	AG	mg/l	<.01
	AL	mg/l	.29
	AS	mg/l	<.05
	B	mg/l	.01
	BA	mg/l	.003
	BE	mg/l	<.001
	CA	mg/l	7.5
	CD	mg/l	<.005
	CO	mg/l	.007
	CR	mg/l	.008
	CU	mg/l	.38
	FE	mg/l	.124
	K	mg/l	.5
	MG	mg/l	2.5
	MN	mg/l	.003
	MO	mg/l	<.01
	NA	mg/l	6
	NI	mg/l	<.02
	P	mg/l	<.1
	PB	mg/l	<.05
	S	mg/l	1.46
	SB	mg/l	<.05
	SE	mg/l	<.05
	SI	mg/l	10.3
	SN	mg/l	<.05
	SR	mg/l	.046
	TI	mg/l	.008
	V	mg/l	<.01
	ZN	mg/l	.037
.HARDNESS/CA+MG	HC	mg/l	29
/TOTAL	HT	mg/l	31
/TOTAL (WATER-ICP)	AG	mg/l	<.01
	AL	mg/l	1.32
	AS	mg/l	<.06
	B	mg/l	<.01
	BA	mg/l	.016
	BE	mg/l	<.001
	CA	mg/l	7.3
	CD	mg/l	<.006
	CO	mg/l	<.006
	CR	mg/l	<.006
	CU	mg/l	.395
	FE	mg/l	.442
	K	mg/l	.4
	MG	mg/l	2.5

RESULTS FOR BELLHOUSE WELL SAMPLE

Parameter Analyzed		Units	971367-001
METALS/TOTAL (WATER-ICP)	MN	mg/l	.006
	MO	mg/l	<.01
	NA	mg/l	6
	NI	mg/l	<.02
	P	mg/l	<.1
	PB	mg/l	<.06
	S	mg/l	1.53
	SB	mg/l	<.06
	SE	mg/l	<.06
	SI	mg/l	11.4
	SN	mg/l	<.06
	SR	mg/l	.047
	TI	mg/l	.05
	V	mg/l	<.01
	ZN	mg/l	.034
NITROGEN/AMMONIA		mg/l	.014
/TOTAL		mg/l	1.1
OXYGEN DEMAND/CHEMICAL		mg/l	207
PH		Rel.U.	6.40
PHOSPHORUS/O-PO4		mg/l	.004
RESIDUE/FILTERABLE		mg/l	100
/TOTAL		mg/l	90
BC SAMPLING AGENCY		EMScode	10
COLLECTION START DATE		y/m/d	97/03/18
TIME		hhmm	0840
UPPER DEPTH		metres	0.5
TEMPERATURE ON ARRIVAL		deg.C	5

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2645 Dollarton Hwy.
North Vancouver, B.C.
V7H 1V2 (604)924-2500

Lab Reference #
9 7 1 3 6 6

02:00 22-Apr-97

F I N A L R E P O R T

Identification: BELLHOUSE POND

Type of Sample: Fresh Water (General)

Submitted by: WYETH,M
NANAIMO
ENV SEC NANAIMO
EP NANAIMO
BCMELP VAN. IS.

Submission RefId: 10028697

Logged in: 20-Mar-97 (1 sample)

Completed: 17-Apr-97 (85 results)

Charged to: 7001-16
+CA WASTE - VAN ISLAND

Analyzed for: INORGANICS, METALS, FIELD DATA

Authorized by: Richard Strub
QA Officer

Notes:

[1] -"anions/ic" are analyses performed by ion chromatography. Nitrate and nitrite concentrations are expressed as nitrogen.

RESU 'S FOR BELLHOUSE POND ' AMPLE

Parameter Analyzed		Units	971366-001
ALKALINITY		mg/l	49.8
ANIONS/IC - BROMIDE		mg/l	<0.05
CHLORIDE		mg/l	16
FLUORIDE		mg/l	0.06
NITRATE-NITROGEN		mg/l	1.06
NITRITE-NITROGEN		mg/l	<0.005
SULPHATE		mg/l	8.8
CONDUCTIVITY		uS/cm	143
METALS/DISS.(WATER-ICP SCAN)	AG	mg/l	<.01
	AL	mg/l	.15
	AS	mg/l	<.05
	B	mg/l	.01
	BA	mg/l	.005
	BE	mg/l	<.001
	CA	mg/l	9.7
	CD	mg/l	<.005
	CO	mg/l	.005
	CR	mg/l	.009
	CU	mg/l	<.005
	FE	mg/l	.109
	K	mg/l	1.7
	MG	mg/l	3.2
	MN	mg/l	.011
	MO	mg/l	<.01
	NA	mg/l	11.8
	NI	mg/l	<.02
	P	mg/l	.2
	PB	mg/l	<.05
	S	mg/l	2.95
	SB	mg/l	<.05
	SE	mg/l	<.05
	SI	mg/l	7.97
	SN	mg/l	<.05
	SR	mg/l	.069
	TI	mg/l	.003
	V	mg/l	<.01
	ZN	mg/l	.005
.HARDNESS/CA+MG	HC	mg/l	37.4
/TOTAL	HT	mg/l	38.3
/TOTAL (WATER-ICP)	AG	mg/l	<.01
	AL	mg/l	1.61
	AS	mg/l	<.06
	B	mg/l	.01
	BA	mg/l	.01
	BE	mg/l	<.001
	CA	mg/l	9.8
	CD	mg/l	<.006
	CO	mg/l	<.006
	CR	mg/l	<.006
	CU	mg/l	<.006
	FE	mg/l	1.03
	K	mg/l	1.8
	MG	mg/l	3.4

RESUL S FOR BELLHOUSE POND . MPLE

Parameter Analyzed		Units	971366-001
METALS/TOTAL (WATER-ICP)	MN	mg/l	.032
	MO	mg/l	<.01
	NA	mg/l	11.9
	NI	mg/l	<.02
	P	mg/l	.3
	PB	mg/l	<.06
	S	mg/l	3.06
	SB	mg/l	<.06
	SE	mg/l	<.06
	SI	mg/l	10.2
	SN	mg/l	<.06
	SR	mg/l	.072
	TI	mg/l	.067
	V	mg/l	<.01
	ZN	mg/l	.008
NITROGEN/AMMONIA		mg/l	.11
/TOTAL		mg/l	1.9
OXYGEN DEMAND/CHEMICAL		mg/l	57
PH		Rel.U.	7.06
PHOSPHORUS/O-PO4		mg/l	.163
RESIDUE/FILTERABLE		mg/l	140
/TOTAL		mg/l	140
BC SAMPLING AGENCY		EMScode	10
COLLECTION START DATE		y/m/d	97/03/18
TIME		hhmm	0850
UPPER DEPTH		metres	0.5
TEMPERATURE ON ARRIVAL		deg.C	6

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Lab Reference #
9 7 1 3 6 6

02:27 23-Apr-97

F I N A L R E P O R T

Identification: BELLHOUSE POND

Type of Sample: Fresh Water (General)

Submitted by: WYETH,M
NANAIMO
ENV SEC NANAIMO
EP NANAIMO
BCMELP VAN. IS.

Submission RefId: 10028697

Logged in: 20-Mar-97 (1 sample)

Completed: 17-Apr-97 (85 results)

Charged to: 7001-16
+CA WASTE - VAN ISLAND

Analyzed for: INORGANICS, METALS, FIELD DATA

Authorized by: Richard Strub
QA Officer

Notes:

[1] -"anions/ic" are analyses performed by ion chromatography. Nitrate and nitrite concentrations are expressed as nitrogen.

RESU 'S FOR BELLHOUSE POND (AMPLE

Parameter Analyzed		Units	971366-001
ALKALINITY		mg/l	49.8
ANIONS/IC - BROMIDE		mg/l	<0.05
CHLORIDE		mg/l	16
FLUORIDE		mg/l	0.06
NITRATE-NITROGEN		mg/l	1.06
NITRITE-NITROGEN		mg/l	<0.005
SULPHATE		mg/l	8.8
CONDUCTIVITY		uS/cm	143
METALS/DISS.(WATER-ICP SCAN)	AG	mg/l	<.01
	AL	mg/l	.15
	AS	mg/l	<.05
	B	mg/l	.01
	BA	mg/l	.005
	BE	mg/l	<.001
	CA	mg/l	9.7
	CD	mg/l	<.005
	CO	mg/l	.005
	CR	mg/l	.009
	CU	mg/l	<.005
	FE	mg/l	.109
	K	mg/l	1.7
	MG	mg/l	3.2
	MN	mg/l	.011
	MO	mg/l	<.01
	NA	mg/l	11.8
	NI	mg/l	<.02
	P	mg/l	.2
	PB	mg/l	<.05
	S	mg/l	2.95
	SB	mg/l	<.05
	SE	mg/l	<.05
	SI	mg/l	7.97
	SN	mg/l	<.05
	SR	mg/l	.069
	TI	mg/l	.003
	V	mg/l	<.01
	ZN	mg/l	.005
.HARDNESS/CA+MG	HC	mg/l	37.4
/TOTAL	HT	mg/l	38.3
/TOTAL (WATER-ICP)	AG	mg/l	<.01
	AL	mg/l	1.61
	AS	mg/l	<.06
	B	mg/l	.01
	BA	mg/l	.01
	BE	mg/l	<.001
	CA	mg/l	9.8
	CD	mg/l	<.006
	CO	mg/l	<.006
	CR	mg/l	<.006
	CU	mg/l	<.006
	FE	mg/l	1.03
	K	mg/l	1.8
	MG	mg/l	3.4

RESUL S FOR BELLHOUSE POND ! MPLE

Parameter Analyzed		Units	971366-001
METALS/TOTAL (WATER-ICP)	MN	mg/l	.032
	MO	mg/l	<.01
	NA	mg/l	11.9
	NI	mg/l	<.02
	P	mg/l	.3
	PB	mg/l	<.06
	S	mg/l	3.06
	SB	mg/l	<.06
	SE	mg/l	<.06
	SI	mg/l	10.2
	SN	mg/l	<.06
	SR	mg/l	.072
	TI	mg/l	.067
	V	mg/l	<.01
	ZN	mg/l	.008
NITROGEN/AMMONIA		mg/l	.11
/TOTAL		mg/l	1.9
OXYGEN DEMAND/CHEMICAL		mg/l	57
PH		Rel.U.	7.06
PHOSPHORUS/O-PO4		mg/l	.163
RESIDUE/FILTERABLE		mg/l	140
/TOTAL		mg/l	140
BC SAMPLING AGENCY		EMScode	10
COLLECTION START DATE		y/m/d	97/03/18
TIME		hhmm	0850
UPPER DEPTH		metres	0.5
TEMPERATURE ON ARRIVAL		deg.C	6

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Lab Reference #
9 7 1 3 6 6

03:39 24-Apr-97

F I N A L R E P O R T

Identification: BELLHOUSE POND

Type of Sample: Fresh Water (General)

Submitted by: WYETH,M
NANAIMO
ENV SEC NANAIMO
EP NANAIMO
BCMELP VAN. IS.

Submission RefId: 10028697

Logged in: 20-Mar-97 (1 sample)

Completed: 17-Apr-97 (85 results)

Charged to: 7001-16
+CA WASTE - VAN ISLAND

Analyzed for: INORGANICS, METALS, FIELD DATA

Authorized by: Richard Stub
Richard Stub
QA Officer

Notes:

[1] -"anions/ic" are analyses performed by ion chromatography. Nitrate and nitrite concentrations are expressed as nitrogen.

RESULTS FOR BELLHOUSE POND SAMPLE

Parameter Analyzed		Units	971366-001
ALKALINITY		mg/l	49.8
ANIONS/IC - BROMIDE		mg/l	<0.05
CHLORIDE		mg/l	16
FLUORIDE		mg/l	0.06
NITRATE-NITROGEN		mg/l	1.06
NITRITE-NITROGEN		mg/l	<0.005
SULPHATE		mg/l	8.8
CONDUCTIVITY		uS/cm	143
METALS/DISS.(WATER-ICP SCAN)	AG	mg/l	<.01
	AL	mg/l	.15
	AS	mg/l	<.05
	B	mg/l	.01
	BA	mg/l	.005
	BE	mg/l	<.001
	CA	mg/l	9.7
	CD	mg/l	<.005
	CO	mg/l	.005
	CR	mg/l	.009
	CU	mg/l	<.005
	FE	mg/l	.109
	K	mg/l	1.7
	MG	mg/l	3.2
	MN	mg/l	.011
	MO	mg/l	<.01
	NA	mg/l	11.8
	NI	mg/l	<.02
	P	mg/l	.2
	PB	mg/l	<.05
	S	mg/l	2.95
	SB	mg/l	<.05
	SE	mg/l	<.05
	SI	mg/l	7.97
	SN	mg/l	<.05
	SR	mg/l	.069
	TI	mg/l	.003
	V	mg/l	<.01
	ZN	mg/l	.005
.HARDNESS/CA+MG	HC	mg/l	37.4
/TOTAL	HT	mg/l	38.3
/TOTAL (WATER-ICP)	AG	mg/l	<.01
	AL	mg/l	1.61
	AS	mg/l	<.06
	B	mg/l	.01
	BA	mg/l	.01
	BE	mg/l	<.001
	CA	mg/l	9.8
	CD	mg/l	<.006
	CO	mg/l	<.006
	CR	mg/l	<.006
	CU	mg/l	<.006
	FE	mg/l	1.03
	K	mg/l	1.8
	MG	mg/l	3.4

RESUL S FOR BELLHOUSE POND . .MPLE

Parameter Analyzed		Units	971366-001
METALS/TOTAL (WATER-ICP)	MN	mg/l	.032
	MO	mg/l	<.01
	NA	mg/l	11.9
	NI	mg/l	<.02
	P	mg/l	.3
	PB	mg/l	<.06
	S	mg/l	3.06
	SB	mg/l	<.06
	SE	mg/l	<.06
	SI	mg/l	10.2
	SN	mg/l	<.06
	SR	mg/l	.072
	TI	mg/l	.067
	V	mg/l	<.01
	ZN	mg/l	.008
NITROGEN/AMMONIA		mg/l	.11
/TOTAL		mg/l	1.9
OXYGEN DEMAND/CHEMICAL		mg/l	57
PH		Rel.U.	7.06
PHOSPHORUS/O-PO4		mg/l	.163
RESIDUE/FILTERABLE		mg/l	140
/TOTAL		mg/l	140
BC SAMPLING AGENCY		EMScode	10
COLLECTION START DATE		y/m/d	97/03/18
TIME		hhmm	0850
UPPER DEPTH		metres	0.5
TEMPERATURE ON ARRIVAL		deg.C	6

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2645 Dollarton Hwy.
North Vancouver, B.C.
V7H 1V2 (604)924-2500

Lab Reference #
9 7 1 3 6 5

01:59 22-Apr-97

F I N A L R E P O R T

Identification: BURDGE WELL

Type of Sample: Fresh Water (General)

Submitted by: WYETH,M
NANAIMO
ENV SEC NANAIMO
EP NANAIMO
BCMELP VAN. IS.

Submission RefId: 10028696

Logged in: 20-Mar-97 (1 sample)

Completed: 16-Apr-97 (85 results)

Charged to: 7001-16
+CA WASTE - VAN ISLAND

Analyzed for: INORGANICS, METALS, FIELD DATA

Authorized by: _____

Richard Strub
QA Officer

Notes:

[1] -"anions/ic" are analyses performed by ion chromatography. Nitrate and nitrite concentrations are expressed as nitrogen.

RESULTS FOR BURDGE WELL SAMPLE

Parameter Analyzed		Units	971365-001
ALKALINITY		mg/l	170
ANIONS/IC - BROMIDE		mg/l	0.06
CHLORIDE		mg/l	9.7
FLUORIDE		mg/l	0.09
NITRATE-NITROGEN		mg/l	<0.002
NITRITE-NITROGEN		mg/l	<0.005
SULPHATE		mg/l	10
CONDUCTIVITY		uS/cm	357
METALS/DISS.(WATER-ICP SCAN)	AG	mg/l	<.01
	AL	mg/l	<.05
	AS	mg/l	<.05
	B	mg/l	.05
	BA	mg/l	<.001
	BE	mg/l	<.001
	CA	mg/l	53.8
	CD	mg/l	<.005
	CO	mg/l	<.005
	CR	mg/l	<.005
	CU	mg/l	<.005
	FE	mg/l	.056
	K	mg/l	.2
	MG	mg/l	4.8
	MN	mg/l	.116
	MO	mg/l	<.01
	NA	mg/l	19.6
	NI	mg/l	<.02
	P	mg/l	<.1
	PB	mg/l	<.05
	S	mg/l	3.44
	SB	mg/l	<.05
	SE	mg/l	<.05
	SI	mg/l	12
	SN	mg/l	<.05
	SR	mg/l	.083
	TI	mg/l	<.002
	V	mg/l	<.01
	ZN	mg/l	.041
.HARDNESS/CA+MG	HC	mg/l	154
/TOTAL	HT	mg/l	154
/TOTAL (WATER-ICP)	AG	mg/l	<.01
	AL	mg/l	<.06
	AS	mg/l	<.06
	B	mg/l	.05
	BA	mg/l	<.001
	BE	mg/l	<.001
	CA	mg/l	52.3
	CD	mg/l	<.006
	CO	mg/l	<.006
	CR	mg/l	<.006
	CU	mg/l	.023
	FE	mg/l	.1
	K	mg/l	<.1
	MG	mg/l	4.8

RESULTS FOR BURDGE WELL SAMPLE

Parameter Analyzed		Units	971365-001
METALS/TOTAL (WATER-ICP)	MN	mg/l	.118
	MO	mg/l	<.01
	NA	mg/l	19.2
	NI	mg/l	<.02
	P	mg/l	<.1
	PB	mg/l	<.06
	S	mg/l	3.36
	SB	mg/l	<.06
	SE	mg/l	<.06
	SI	mg/l	11.9
	SN	mg/l	<.06
	SR	mg/l	.083
	TI	mg/l	<.002
	V	mg/l	<.01
	ZN	mg/l	.036
NITROGEN/AMMONIA		mg/l	.017
/TOTAL		mg/l	.03
OXYGEN DEMAND/CHEMICAL		mg/l	23
PH		Rel.U.	7.69
PHOSPHORUS/O-PO4		mg/l	.002
RESIDUE/FILTERABLE		mg/l	240
/TOTAL		mg/l	230
BC SAMPLING AGENCY		EMScode	10
COLLECTION START DATE		y/m/d	97/03/18
TIME		hhmm	0925
UPPER DEPTH		metres	0.5
TEMPERATURE ON ARRIVAL		deg.C	6

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North Vancouver, B.C.
V7H 1V2 (604)924-2500

Lab Reference #
9 7 1 3 6 5

02:26 23-Apr-97

F I N A L R E P O R T

Identification: BURDGE WELL

Type of Sample: Fresh Water (General)

Submitted by: WYETH,M
NANAIMO
ENV SEC NANAIMO
EP NANAIMO
BCMELP VAN. IS.

Submission RefId: 10028696

Logged in: 20-Mar-97 (1 sample)

Completed: 16-Apr-97 (85 results)

Charged to: 7001-16
+CA WASTE - VAN ISLAND

Analyzed for: INORGANICS, METALS, FIELD DATA

Authorized by: Richard Strub

Richard Strub
QA Officer

Notes:

[1] -"anions/ic" are analyses performed by ion chromatography. Nitrate and nitrite concentrations are expressed as nitrogen.

RE LTS FOR BURDGE WELL S PLE

Parameter Analyzed		Units	971365-001
ALKALINITY		mg/l	170
ANIONS/IC - BROMIDE		mg/l	0.06
CHLORIDE		mg/l	9.7
FLUORIDE		mg/l	0.09
NITRATE-NITROGEN		mg/l	<0.002
NITRITE-NITROGEN		mg/l	<0.005
SULPHATE		mg/l	10
CONDUCTIVITY		uS/cm	357
METALS/DISS.(WATER-ICP SCAN)	AG	mg/l	<.01
	AL	mg/l	<.05
	AS	mg/l	<.05
	B	mg/l	.05
	BA	mg/l	<.001
	BE	mg/l	<.001
	CA	mg/l	53.8
	CD	mg/l	<.005
	CO	mg/l	<.005
	CR	mg/l	<.005
	CU	mg/l	<.005
	FE	mg/l	.056
	K	mg/l	.2
	MG	mg/l	4.8
	MN	mg/l	.116
	MO	mg/l	<.01
	NA	mg/l	19.6
	NI	mg/l	<.02
	P	mg/l	<.1
	PB	mg/l	<.05
	S	mg/l	3.44
	SB	mg/l	<.05
	SE	mg/l	<.05
	SI	mg/l	12
	SN	mg/l	<.05
	SR	mg/l	.083
	TI	mg/l	<.002
	V	mg/l	<.01
	ZN	mg/l	.041
.HARDNESS/CA+MG	HC	mg/l	154
/TOTAL	HT	mg/l	154
/TOTAL (WATER-ICP)	AG	mg/l	<.01
	AL	mg/l	<.06
	AS	mg/l	<.06
	B	mg/l	.05
	BA	mg/l	<.001
	BE	mg/l	<.001
	CA	mg/l	52.3
	CD	mg/l	<.006
	CO	mg/l	<.006
	CR	mg/l	<.006
	CU	mg/l	.023
	FE	mg/l	.1
	K	mg/l	<.1
	MG	mg/l	4.8

RESULTS FOR BURDGE WELL SAMPLE

Parameter Analyzed		Units	971365-001
METALS/TOTAL (WATER-ICP)	MN	mg/l	.118
	MO	mg/l	<.01
	NA	mg/l	19.2
	NI	mg/l	<.02
	P	mg/l	<.1
	PB	mg/l	<.06
	S	mg/l	3.36
	SB	mg/l	<.06
	SE	mg/l	<.06
	SI	mg/l	11.9
	SN	mg/l	<.06
	SR	mg/l	.083
	TI	mg/l	<.002
	V	mg/l	<.01
	ZN	mg/l	.036
NITROGEN/AMMONIA		mg/l	.017
/TOTAL		mg/l	.03
OXYGEN DEMAND/CHEMICAL		mg/l	23
PH		Rel.U.	7.69
PHOSPHORUS/O-PO4		mg/l	.002
RESIDUE/FILTERABLE		mg/l	240
/TOTAL		mg/l	230
BC SAMPLING AGENCY		EMScode	10
COLLECTION START DATE		y/m/d	97/03/18
TIME		hhmm	0925
UPPER DEPTH		metres	0.5
TEMPERATURE ON ARRIVAL		deg.C	6

Environment Canada -Labor ories
Pacific Environmental Sci ce Centre
2645 Dollarton Hwy.
North Vancouver, B.C.
V7H 1V2 (604)924-2500

Lab Reference #
9 7 1 3 6 5

03:38 24-Apr-97

F I N A L R E P O R T

Identification: BURDGE WELL

Type of Sample: Fresh Water (General)

Submitted by: WYETH,M
NANAIMO
ENV SEC NANAIMO
EP NANAIMO
BCMELP VAN. IS.

Submission RefId: 10028696

Logged in: 20-Mar-97 (1 sample)

Completed: 16-Apr-97 (85 results)

Charged to: 7001-16
+CA WASTE - VAN ISLAND

Analyzed for: INORGANICS, METALS, FIELD DATA

Authorized by: _____

Richard Strub
QA Officer

Notes:

[1] -"anions/ic" are analyses performed by ion chromatography. Nitrate and nitrite concentrations are expressed as nitrogen.

RESULTS FOR BURDGE WELL SAMPLE

Parameter Analyzed		Units	971365-001
ALKALINITY		mg/l	170
ANIONS/IC - BROMIDE		mg/l	0.06
CHLORIDE		mg/l	9.7
FLUORIDE		mg/l	0.09
NITRATE-NITROGEN		mg/l	<0.002
NITRITE-NITROGEN		mg/l	<0.005
SULPHATE		mg/l	10
CONDUCTIVITY		uS/cm	357
METALS/DISS.(WATER-ICP SCAN)	AG	mg/l	<.01
	AL	mg/l	<.05
	AS	mg/l	<.05
	B	mg/l	.05
	BA	mg/l	<.001
	BE	mg/l	<.001
	CA	mg/l	53.8
	CD	mg/l	<.005
	CO	mg/l	<.005
	CR	mg/l	<.005
	CU	mg/l	<.005
	FE	mg/l	.056
	K	mg/l	.2
	MG	mg/l	4.8
	MN	mg/l	.116
	MO	mg/l	<.01
	NA	mg/l	19.6
	NI	mg/l	<.02
	P	mg/l	<.1
	PB	mg/l	<.05
	S	mg/l	3.44
	SB	mg/l	<.05
	SE	mg/l	<.05
	SI	mg/l	12
	SN	mg/l	<.05
	SR	mg/l	.083
	TI	mg/l	<.002
	V	mg/l	<.01
	ZN	mg/l	.041
.HARDNESS/CA+MG	HC	mg/l	154
/TOTAL	HT	mg/l	154
/TOTAL (WATER-ICP)	AG	mg/l	<.01
	AL	mg/l	<.06
	AS	mg/l	<.06
	B	mg/l	.05
	BA	mg/l	<.001
	BE	mg/l	<.001
	CA	mg/l	52.3
	CD	mg/l	<.006
	CO	mg/l	<.006
	CR	mg/l	<.006
	CU	mg/l	.023
	FE	mg/l	.1
	K	mg/l	<.1
	MG	mg/l	4.8

RESULTS FOR BURDGE WELL SAMPLE

Parameter Analyzed		Units	971365-001
METALS/TOTAL (WATER-ICP)	MN	mg/l	.118
	MO	mg/l	<.01
	NA	mg/l	19.2
	NI	mg/l	<.02
	P	mg/l	<.1
	PB	mg/l	<.06
	S	mg/l	3.36
	SB	mg/l	<.06
	SE	mg/l	<.06
	SI	mg/l	11.9
	SN	mg/l	<.06
	SR	mg/l	.083
	TI	mg/l	<.002
	V	mg/l	<.01
	ZN	mg/l	.036
NITROGEN/AMMONIA		mg/l	.017
/TOTAL		mg/l	.03
OXYGEN DEMAND/CHEMICAL		mg/l	23
PH		Rel.U.	7.69
PHOSPHORUS/O-PO4		mg/l	.002
RESIDUE/FILTERABLE		mg/l	240
/TOTAL		mg/l	230
BC SAMPLING AGENCY		EMScode	10
COLLECTION START DATE		y/m/d	97/03/18
TIME		hhmm	0925
UPPER DEPTH		metres	0.5
TEMPERATURE ON ARRIVAL		deg.C	6

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2645 Dollarton Hwy.
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V7H 1V2 (604)924-2500

Lab Reference #
9 7 1 3 6 3

01:58 22-Apr-97

F I N A L R E P O R T

Identification: OUTSELL POND

Type of Sample: Fresh Water (General)

Submitted by: WYETH,M
NANAIMO
ENV SEC NANAIMO
EP NANAIMO
BCMELP VAN. IS.

Submission RefId: 10028694

Logged in: 20-Mar-97 (1 sample)

Completed: 15-Apr-97 (85 results)

Charged to: 7001-16
+CA WASTE - VAN ISLAND

Analyzed for: INORGANICS, METALS, FIELD DATA

Authorized by: Richard Strub
QA Officer

Notes:

[1] -"anions/ic" are analyses performed by ion chromatography. Nitrate and nitrite concentrations are expressed as nitrogen.

RESULTS FOR OUTSELL POND SAMPLE

Parameter Analyzed		Units	971363-001
ALKALINITY		mg/l	22.3
ANIONS/IC - BROMIDE		mg/l	<0.05
CHLORIDE		mg/l	6.27
FLUORIDE		mg/l	0.06
NITRATE-NITROGEN		mg/l	0.276
NITRITE-NITROGEN		mg/l	<0.005
SULPHATE		mg/l	19.0
CONDUCTIVITY		uS/cm	116
METALS/DISS.(WATER-ICP SCAN)	AG	mg/l	<.01
	AL	mg/l	.11
	AS	mg/l	<.05
	B	mg/l	.02
	BA	mg/l	.004
	BE	mg/l	<.001
	CA	mg/l	10.2
	CD	mg/l	<.005
	CO	mg/l	<.005
	CR	mg/l	<.005
	CU	mg/l	<.005
	FE	mg/l	.108
	K	mg/l	.6
	MG	mg/l	3
	MN	mg/l	.026
	MO	mg/l	<.01
	NA	mg/l	7.4
	NI	mg/l	<.02
	P	mg/l	<.1
	PB	mg/l	<.05
	S	mg/l	6.35
	SB	mg/l	<.05
	SE	mg/l	<.05
	SI	mg/l	7.64
	SN	mg/l	<.05
	SR	mg/l	.069
	TI	mg/l	.007
	V	mg/l	<.01
	ZN	mg/l	.008
.HARDNESS/CA+MG	HC	mg/l	37.7
/TOTAL	HT	mg/l	38.4
/TOTAL (WATER-ICP)	AG	mg/l	<.01
	AL	mg/l	1.19
	AS	mg/l	<.06
	B	mg/l	.01
	BA	mg/l	.005
	BE	mg/l	<.001
	CA	mg/l	10
	CD	mg/l	<.006
	CO	mg/l	<.006
	CR	mg/l	<.006
	CU	mg/l	<.006
	FE	mg/l	.67
	K	mg/l	.5
	MG	mg/l	3

RESULTS FOR OUTSELL POND SAMPLE

Parameter Analyzed		Units	971363-001
METALS/TOTAL (WATER-ICP)	MN	mg/l	.034
	MO	mg/l	<.01
	NA	mg/l	7.4
	NI	mg/l	<.02
	P	mg/l	<.1
	PB	mg/l	<.06
	S	mg/l	6.32
	SB	mg/l	<.06
	SE	mg/l	<.06
	SI	mg/l	9.5
	SN	mg/l	<.06
	SR	mg/l	.07
	TI	mg/l	.05
	V	mg/l	<.01
	ZN	mg/l	.006
NITROGEN/AMMONIA		mg/l	.008
/TOTAL		mg/l	.52
OXYGEN DEMAND/CHEMICAL		mg/l	203
PH		Rel.U.	6.98
PHOSPHORUS/O-PO4		mg/l	<.001
RESIDUE/FILTERABLE		mg/l	110
/TOTAL		mg/l	100
BC SAMPLING AGENCY		EMScode	10
COLLECTION START DATE		y/m/d	97/03/18
TIME		hhmm	0955
UPPER DEPTH		metres	0.5
TEMPERATURE ON ARRIVAL		deg.C	6

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2645 Dollarton Hwy.
North Vancouver, B.C.
V7H 1V2 (604)924-2500

Lab Reference #
9 7 1 3 6 3

02:25 23-Apr-97

F I N A L R E P O R T

Identification: OUTSELL POND

Type of Sample: Fresh Water (General)

Submitted by: WYETH,M
NANAIMO
ENV SEC NANAIMO
EP NANAIMO
BCMELP VAN. IS.

Submission RefId: 10028694

Logged in: 20-Mar-97 (1 sample)

Completed: 15-Apr-97 (85 results)

Charged to: 7001-16
+CA WASTE - VAN ISLAND

Analyzed for: INORGANICS, METALS, FIELD DATA

Authorized by: Richard Strub

Richard Strub
QA Officer

Notes:

[1] -"anions/ic" are analyses performed by ion chromatography. Nitrate and nitrite concentrations are expressed as nitrogen.

RE LTS FOR OUTSELL POND MPLE

Parameter Analyzed		Units	971363-001
ALKALINITY		mg/l	22.3
ANIONS/IC - BROMIDE		mg/l	<0.05
CHLORIDE		mg/l	6.27
FLUORIDE		mg/l	0.06
NITRATE-NITROGEN		mg/l	0.276
NITRITE-NITROGEN		mg/l	<0.005
SULPHATE		mg/l	19.0
CONDUCTIVITY		uS/cm	116
METALS/DISS.(WATER-ICP SCAN)	AG	mg/l	<.01
	AL	mg/l	.11
	AS	mg/l	<.05
	B	mg/l	.02
	BA	mg/l	.004
	BE	mg/l	<.001
	CA	mg/l	10.2
	CD	mg/l	<.005
	CO	mg/l	<.005
	CR	mg/l	<.005
	CU	mg/l	<.005
	FE	mg/l	.108
	K	mg/l	.6
	MG	mg/l	3
	MN	mg/l	.026
	MO	mg/l	<.01
	NA	mg/l	7.4
	NI	mg/l	<.02
	P	mg/l	<.1
	PB	mg/l	<.05
	S	mg/l	6.35
	SB	mg/l	<.05
	SE	mg/l	<.05
	SI	mg/l	7.64
	SN	mg/l	<.05
	SR	mg/l	.069
	TI	mg/l	.007
	V	mg/l	<.01
	ZN	mg/l	.008
.HARDNESS/CA+MG	HC	mg/l	37.7
/TOTAL	HT	mg/l	38.4
/TOTAL (WATER-ICP)	AG	mg/l	<.01
	AL	mg/l	1.19
	AS	mg/l	<.06
	B	mg/l	.01
	BA	mg/l	.005
	BE	mg/l	<.001
	CA	mg/l	10
	CD	mg/l	<.006
	CO	mg/l	<.006
	CR	mg/l	<.006
	CU	mg/l	<.006
	FE	mg/l	.67
	K	mg/l	.5
	MG	mg/l	3

RESULTS FOR OUTSELL POND SAMPLE

Parameter Analyzed		Units	971363-001
METALS/TOTAL (WATER-ICP)	MN	mg/l	.034
	MO	mg/l	<.01
	NA	mg/l	7.4
	NI	mg/l	<.02
	P	mg/l	<.1
	PB	mg/l	<.06
	S	mg/l	6.32
	SB	mg/l	<.06
	SE	mg/l	<.06
	SI	mg/l	9.5
	SN	mg/l	<.06
	SR	mg/l	.07
	TI	mg/l	.05
	V	mg/l	<.01
	ZN	mg/l	.006
NITROGEN/AMMONIA		mg/l	.008
/TOTAL		mg/l	.52
OXYGEN DEMAND/CHEMICAL		mg/l	203
PH		Rel.U.	6.98
PHOSPHORUS/O-PO4		mg/l	<.001
RESIDUE/FILTERABLE		mg/l	110
/TOTAL		mg/l	100
BC SAMPLING AGENCY		EMScode	10
COLLECTION START DATE		y/m/d	97/03/18
TIME		hhmm	0955
UPPER DEPTH		metres	0.5
TEMPERATURE ON ARRIVAL		deg.C	6

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Pacific Environmental Science Centre
2645 Dollarton Hwy.
North Vancouver, B.C.
V7H 1V2 (604)924-2500

Lab Reference #
9 7 1 3 6 3

03:36 24-Apr-97

F I N A L R E P O R T

Identification: OUTSELL POND

Type of Sample: Fresh Water (General)

Submitted by: WYETH,M
NANAIMO
ENV SEC NANAIMO
EP NANAIMO
BCMELP VAN. IS.

Submission RefId: 10028694

Logged in: 20-Mar-97 (1 sample)

Completed: 15-Apr-97 (85 results)

Charged to: 7001-16
+CA WASTE - VAN ISLAND

Analyzed for: INORGANICS, METALS, FIELD DATA

Authorized by: Richard Strub
QA Officer

Notes:

[1] -"anions/ic" are analyses performed by ion chromatography. Nitrate and nitrite concentrations are expressed as nitrogen.

RESULTS FOR OUTSELL POND SAMPLE

Parameter Analyzed		Units	971363-001
ALKALINITY		mg/l	22.3
ANIONS/IC - BROMIDE		mg/l	<0.05
CHLORIDE		mg/l	6.27
FLUORIDE		mg/l	0.06
NITRATE-NITROGEN		mg/l	0.276
NITRITE-NITROGEN		mg/l	<0.005
SULPHATE		mg/l	19.0
CONDUCTIVITY		uS/cm	116
METALS/DISS.(WATER-ICP SCAN)	AG	mg/l	<.01
	AL	mg/l	.11
	AS	mg/l	<.05
	B	mg/l	.02
	BA	mg/l	.004
	BE	mg/l	<.001
	CA	mg/l	10.2
	CD	mg/l	<.005
	CO	mg/l	<.005
	CR	mg/l	<.005
	CU	mg/l	<.005
	FE	mg/l	.108
	K	mg/l	.6
	MG	mg/l	3
	MN	mg/l	.026
	MO	mg/l	<.01
	NA	mg/l	7.4
	NI	mg/l	<.02
	P	mg/l	<.1
	PB	mg/l	<.05
	S	mg/l	6.35
	SB	mg/l	<.05
	SE	mg/l	<.05
	SI	mg/l	7.64
	SN	mg/l	<.05
	SR	mg/l	.069
	TI	mg/l	.007
	V	mg/l	<.01
	ZN	mg/l	.008
.HARDNESS/CA+MG	HC	mg/l	37.7
/TOTAL	HT	mg/l	38.4
/TOTAL (WATER-ICP)	AG	mg/l	<.01
	AL	mg/l	1.19
	AS	mg/l	<.06
	B	mg/l	.01
	BA	mg/l	.005
	BE	mg/l	<.001
	CA	mg/l	10
	CD	mg/l	<.006
	CO	mg/l	<.006
	CR	mg/l	<.006
	CU	mg/l	<.006
	FE	mg/l	.67
	K	mg/l	.5
	MG	mg/l	3

RESULTS FOR OUTSELL POND SAMPLE

Parameter Analyzed		Units	971363-001
METALS/TOTAL (WATER-ICP)	MN	mg/l	.034
	MO	mg/l	<.01
	NA	mg/l	7.4
	NI	mg/l	<.02
	P	mg/l	<.1
	PB	mg/l	<.06
	S	mg/l	6.32
	SB	mg/l	<.06
	SE	mg/l	<.06
	SI	mg/l	9.5
	SN	mg/l	<.06
	SR	mg/l	.07
	TI	mg/l	.05
	V	mg/l	<.01
	ZN	mg/l	.006
NITROGEN/AMMONIA		mg/l	.008
/TOTAL		mg/l	.52
OXYGEN DEMAND/CHEMICAL		mg/l	203
PH		Rel.U.	6.98
PHOSPHORUS/O-PO4		mg/l	<.001
RESIDUE/FILTERABLE		mg/l	110
/TOTAL		mg/l	100
BC SAMPLING AGENCY		EMScode	10
COLLECTION START DATE		y/m/d	97/03/18
TIME		hhmm	0955
UPPER DEPTH		metres	0.5
TEMPERATURE ON ARRIVAL		deg.C	6

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2645 Dollarton Hwy.
North Vancouver, B.C.
V7H 1V2 (604)924-2500

Lab Reference #
9 7 1 3 6 4

01:59 22-Apr-97

F I N A L R E P O R T

Identification: OUTSELL WELL

Type of Sample: Fresh Water (General)

Submitted by: WYETH,M
NANAIMO
ENV SEC NANAIMO
EP NANAIMO
BCMELP VAN. IS.

Submission RefId: 10028695

Logged in: 20-Mar-97 (1 sample)

Completed: 15-Apr-97 (85 results)

Charged to: 7001-16
+CA WASTE - VAN ISLAND

Analyzed for: INORGANICS, METALS, FIELD DATA

Authorized by: _____

Richard Strub
QA Officer

Notes:

[1] -"anions/ic" are analyses performed by ion chromatography. Nitrate and nitrite concentrations are expressed as nitrogen.

RESULTS FOR OUTSELL WELL SAMPLE

Parameter Analyzed		Units	971364-001
ALKALINITY		mg/l	159
ANIONS/IC - BROMIDE		mg/l	<0.05
CHLORIDE		mg/l	8.7
FLUORIDE		mg/l	0.13
NITRATE-NITROGEN		mg/l	0.027
NITRITE-NITROGEN		mg/l	<0.005
SULPHATE		mg/l	10
CONDUCTIVITY		uS/cm	332
METALS/DISS.(WATER-ICP SCAN)	AG	mg/l	<.01
	AL	mg/l	<.05
	AS	mg/l	<.05
	B	mg/l	.04
	BA	mg/l	.001
	BE	mg/l	<.001
	CA	mg/l	40.9
	CD	mg/l	<.005
	CO	mg/l	.011
	CR	mg/l	<.005
	CU	mg/l	<.005
	FE	mg/l	.016
	K	mg/l	.3
	MG	mg/l	9.3
	MN	mg/l	.003
	MO	mg/l	<.01
	NA	mg/l	19.5
	NI	mg/l	<.02
	P	mg/l	<.1
	PB	mg/l	<.05
	S	mg/l	3.49
	SB	mg/l	<.05
	SE	mg/l	<.05
	SI	mg/l	12.3
	SN	mg/l	<.05
	SR	mg/l	.093
	TI	mg/l	<.002
	V	mg/l	<.01
	ZN	mg/l	.008
.HARDNESS/CA+MG	HC	mg/l	140
/TOTAL	HT	mg/l	140
/TOTAL (WATER-ICP)	AG	mg/l	<.01
	AL	mg/l	<.06
	AS	mg/l	<.06
	B	mg/l	.04
	BA	mg/l	<.001
	BE	mg/l	<.001
	CA	mg/l	40.2
	CD	mg/l	<.006
	CO	mg/l	<.006
	CR	mg/l	<.006
	CU	mg/l	<.006
	FE	mg/l	.633
	K	mg/l	.2
	MG	mg/l	9.2

RESU .S FOR OUTSELL WELL SA PLE

Parameter Analyzed		Units	971364-001
METALS/TOTAL (WATER-ICP)	MN	mg/l	.019
	MO	mg/l	<.01
	NA	mg/l	19.6
	NI	mg/l	<.02
	P	mg/l	<.1
	PB	mg/l	<.06
	S	mg/l	3.37
	SB	mg/l	<.06
	SE	mg/l	<.06
	SI	mg/l	12.5
	SN	mg/l	<.06
	SR	mg/l	.092
	TI	mg/l	<.002
	V	mg/l	<.01
	ZN	mg/l	.006
NITROGEN/AMMONIA		mg/l	<.002
/TOTAL		mg/l	.08
OXYGEN DEMAND/CHEMICAL		mg/l	<10
PH		Rel.U.	7.25
PHOSPHORUS/O-PO4		mg/l	.003
RESIDUE/FILTERABLE		mg/l	220
/TOTAL		mg/l	200
BC SAMPLING AGENCY		EMScode	10
COLLECTION START DATE		y/m/d	97/03/18
TIME		hhmm	0945
UPPER DEPTH		metres	0.5
TEMPERATURE ON ARRIVAL		deg.C	6

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North Vancouver, B.C.
V7H 1V2 (604)924-2500

Lab Reference #
9 7 1 3 6 4

02:26 23-Apr-97

F I N A L R E P O R T

Identification: OUTSELL WELL

Type of Sample: Fresh Water (General)

Submitted by: WYETH,M
NANAIMO
ENV SEC NANAIMO
EP NANAIMO
BCMELP VAN. IS.

Submission RefId: 10028695

Logged in: 20-Mar-97 (1 sample)

Completed: 15-Apr-97 (85 results)

Charged to: 7001-16
+CA WASTE - VAN ISLAND

Analyzed for: INORGANICS, METALS, FIELD DATA

Authorized by: Richard Strub
QA Officer

Notes:

[1] -"anions/ic" are analyses performed by ion chromatography. Nitrate and nitrite concentrations are expressed as nitrogen.

RESULTS FOR OUTSELL WELL SAMPLE

Parameter Analyzed		Units	971364-001
ALKALINITY		mg/l	159
ANIONS/IC - BROMIDE		mg/l	<0.05
CHLORIDE		mg/l	8.7
FLUORIDE		mg/l	0.13
NITRATE-NITROGEN		mg/l	0.027
NITRITE-NITROGEN		mg/l	<0.005
SULPHATE		mg/l	10
CONDUCTIVITY		uS/cm	332
METALS/DISS.(WATER-ICP SCAN)	AG	mg/l	<.01
	AL	mg/l	<.05
	AS	mg/l	<.05
	B	mg/l	.04
	BA	mg/l	.001
	BE	mg/l	<.001
	CA	mg/l	40.9
	CD	mg/l	<.005
	CO	mg/l	.011
	CR	mg/l	<.005
	CU	mg/l	<.005
	FE	mg/l	.016
	K	mg/l	.3
	MG	mg/l	9.3
	MN	mg/l	.003
	MO	mg/l	<.01
	NA	mg/l	19.5
	NI	mg/l	<.02
	P	mg/l	<.1
	PB	mg/l	<.05
	S	mg/l	3.49
	SB	mg/l	<.05
	SE	mg/l	<.05
	SI	mg/l	12.3
	SN	mg/l	<.05
	SR	mg/l	.093
	TI	mg/l	<.002
	V	mg/l	<.01
	ZN	mg/l	.008
.HARDNESS/CA+MG	HC	mg/l	140
/TOTAL	HT	mg/l	140
/TOTAL (WATER-ICP)	AG	mg/l	<.01
	AL	mg/l	<.06
	AS	mg/l	<.06
	B	mg/l	.04
	BA	mg/l	<.001
	BE	mg/l	<.001
	CA	mg/l	40.2
	CD	mg/l	<.006
	CO	mg/l	<.006
	CR	mg/l	<.006
	CU	mg/l	<.006
	FE	mg/l	.633
	K	mg/l	.2
	MG	mg/l	9.2

RESULTS FOR OUTSELL WELL SAMPLE

Parameter Analyzed		Units	971364-001
METALS/TOTAL (WATER-ICP)	MN	mg/l	.019
	MO	mg/l	<.01
	NA	mg/l	19.6
	NI	mg/l	<.02
	P	mg/l	<.1
	PB	mg/l	<.06
	S	mg/l	3.37
	SB	mg/l	<.06
	SE	mg/l	<.06
	SI	mg/l	12.5
	SN	mg/l	<.06
	SR	mg/l	.092
	TI	mg/l	<.002
	V	mg/l	<.01
	ZN	mg/l	.006
NITROGEN/AMMONIA		mg/l	<.002
/TOTAL		mg/l	.08
OXYGEN DEMAND/CHEMICAL		mg/l	<10
PH		Rel.U.	7.25
PHOSPHORUS/O-PO4		mg/l	.003
RESIDUE/FILTERABLE		mg/l	220
/TOTAL		mg/l	200
BC SAMPLING AGENCY		EMScode	10
COLLECTION START DATE		y/m/d	97/03/18
TIME		hhmm	0945
UPPER DEPTH		metres	0.5
TEMPERATURE ON ARRIVAL		deg.C	6

Environment Canada -Labora ries
Pacific Environmental Scie..e Centre
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North Vancouver, B.C.
V7H 1V2 (604)924-2500

Lab Reference #
9 7 1 3 6 4

03:37 24-Apr-97

File 5559
PR ~~2083~~

Monitoring Study

F I N A L R E P O R T

Identification: OUTSELL WELL

Type of Sample: Fresh Water (General)

Submitted by: WYETH,M
NANAIMO
ENV SEC NANAIMO
EP NANAIMO
BCMELP VAN. IS.

Submission RefId: 10028695

Logged in: 20-Mar-97 (1 sample)

Completed: 15-Apr-97 (85 results)

Charged to: 7001-16
+CA WASTE - VAN ISLAND

Analyzed for: INORGANICS, METALS, FIELD DATA

Authorized by: Richard Strub
Richard Strub
QA Officer

Notes:

[1] -"anions/ic" are analyses performed by ion chromatography. Nitrate and nitrite concentrations are expressed as nitrogen.

RESULTS FOR OUTSELL WELL SAMPLE

Parameter Analyzed		Units	971364-001
ALKALINITY		mg/l	159
ANIONS/IC - BROMIDE		mg/l	<0.05
CHLORIDE		mg/l	8.7
FLUORIDE		mg/l	0.13
NITRATE-NITROGEN		mg/l	0.027
NITRITE-NITROGEN		mg/l	<0.005
SULPHATE		mg/l	10
CONDUCTIVITY		uS/cm	332
METALS/DISS.(WATER-ICP SCAN)	AG	mg/l	<.01
	AL	mg/l	<.05
	AS	mg/l	<.05
	B	mg/l	.04
	BA	mg/l	.001
	BE	mg/l	<.001
	CA	mg/l	40.9
	CD	mg/l	<.005
	CO	mg/l	.011
	CR	mg/l	<.005
	CU	mg/l	<.005
	FE	mg/l	.016
	K	mg/l	.3
	MG	mg/l	9.3
	MN	mg/l	.003
	MO	mg/l	<.01
	NA	mg/l	19.5
	NI	mg/l	<.02
	P	mg/l	<.1
	PB	mg/l	<.05
	S	mg/l	3.49
	SB	mg/l	<.05
	SE	mg/l	<.05
	SI	mg/l	12.3
	SN	mg/l	<.05
	SR	mg/l	.093
	TI	mg/l	<.002
	V	mg/l	<.01
	ZN	mg/l	.008
.HARDNESS/CA+MG	HC	mg/l	140
/TOTAL	HT	mg/l	140
/TOTAL (WATER-ICP)	AG	mg/l	<.01
	AL	mg/l	<.06
	AS	mg/l	<.06
	B	mg/l	.04
	BA	mg/l	<.001
	BE	mg/l	<.001
	CA	mg/l	40.2
	CD	mg/l	<.006
	CO	mg/l	<.006
	CR	mg/l	<.006
	CU	mg/l	<.006
	FE	mg/l	.633
	K	mg/l	.2
	MG	mg/l	9.2

RESULTS FOR OUTSELL WELL SAMPLE

Parameter Analyzed		Units	971364-001
METALS/TOTAL (WATER-ICP)	MN	mg/l	.019
	MO	mg/l	<.01
	NA	mg/l	19.6
	NI	mg/l	<.02
	P	mg/l	<.1
	PB	mg/l	<.06
	S	mg/l	3.37
	SB	mg/l	<.06
	SE	mg/l	<.06
	SI	mg/l	12.5
	SN	mg/l	<.06
	SR	mg/l	.092
	TI	mg/l	<.002
	V	mg/l	<.01
	ZN	mg/l	.006
NITROGEN/AMMONIA		mg/l	<.002
/TOTAL		mg/l	.08
OXYGEN DEMAND/CHEMICAL		mg/l	<10
PH		Rel.U.	7.25
PHOSPHORUS/O-PO4		mg/l	.003
RESIDUE/FILTERABLE		mg/l	220
/TOTAL		mg/l	200
BC SAMPLING AGENCY		EMScode	10
COLLECTION START DATE		y/m/d	97/03/18
TIME		hhmm	0945
UPPER DEPTH		metres	0.5
TEMPERATURE ON ARRIVAL		deg.C	6

Galiano Landfill, Galiano Island PR-5559
(Closed October 31, 1991)

Site 3 Bellhouse Well	Feb-16-94	Jul-13-95	Oct-17-95	Mar-20-96	Nov-19-96		Water Quality Criteria: Drinking Water	Water Quality Criteria: FW Aquatic Life
S3- Conductivity (uS/cm)	160	152	159	121	123		700	
S3- Residue: filterable (mg/L)				118	120		500	
S3- COD (mg/L)				15	<10			
S3- Chloride, dissolved (mg/L)	10.9	20.5	11.4	8.9	5.1		250	
S3- Sodium, dissolved (mg/L)	9.07	10.6	9.15	8.3	8.1		200	
S3- Sulphate (mg/L)				6.9	5.9		500	100
S3- Calcium (mg/L)	13	14.8	13.2	10.4	11			4-8

Site 4 Burdge Well	Feb-16-94	Jul-13-95	Oct-17-95	Mar-20-96	Nov-19-96		Water Quality Criteria: Drinking Water	Water Quality Criteria: FW Aquatic Life
S4- Conductivity (uS/cm)	351	336	374	398	373		700	
S4- Residue: filterable (mg/L)				240	240		500	
S4- COD (mg/L)				11	130			
S4- Chloride, dissolved (mg/L)		10.5	8.8	11.1	10		250	
S4- Sodium, dissolved (mg/L)		18.6	17	20.7	18.9		200	
S4- Sulphate (mg/L)				10.9	11		500	100
S4- Calcium (mg/L)		57	52.8	61.2	55.2			4-8

Site 5 Outsell Well	Feb-16-94	Jul-13-95	Oct-17-95	Mar-20-96	Nov-19-96		Water Quality Criteria: Drinking Water	Water Quality Criteria: FW Aquatic Life
S5- Conductivity (uS/cm)	329	353	398	353	333		700	
S5- Residue: filterable (mg/L)				200	210		500	
S5- COD (mg/L)				<10	<10			
S5- Chloride, dissolved (mg/L)	9.7	9.4	9.7	9.6	8.8		250	
S5- Sodium, dissolved (mg/L)		21	18.2	21.5	19.2		200	
S5- Sulphate (mg/L)				9	10		500	100
S5- Calcium (mg/L)		48.5	48.6	39.7	41.1			4-8

Site 3A Bellhouse Pond			Oct-17-95	Mar-20-96	Nov-19-96		Water Quality Criteria: Drinking Water	Water Quality Criteria: FW Aquatic Life
S3A- Conductivity (uS/cm)			347	163	180		700	
S3A- Residue: filterable (mg/L)				149	150		500	
S3A- COD (mg/L)				21	11			
S3A- Chloride, dissolved (mg/L)			31.4	21.8	25		250	
S3A- Sodium, dissolved (mg/L)			17.3	14.1	14.9		200	
S3A- Sulphate (mg/L)				11	11.7		500	100
S3A- Calcium (mg/L)			34.3	11.9	13.6			4-8

Site 5A Outsell Pond			Oct-17-95	Mar-20-96	Nov-19-96		Water Quality Criteria: Drinking Water	Water Quality Criteria: FW Aquatic Life
S5A- Conductivity (uS/cm)			135	134	159		700	
S5A- Residue: filterable (mg/L)				120	130		500	
S5A- COD (mg/L)				19	171			
S5A- Chloride, dissolved (mg/L)			9.3	10.3	11.3		250	
S5A- Sodium, dissolved (mg/L)			8.39	8.81	9.6		200	
S5A- Sulphate (mg/L)				17	22		500	100
S5A- Calcium (mg/L)			10.9	12.6	14.4			4-8

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V7H 1V2 (604)924-2500

Lab Reference #
966607

23:56 17-Dec-96

FINAL REPORT

Identification: OUTSELL POND

Type of Sample: Fresh Water (General)

Submitted by: SPIDEL,A
NANAIMO
MUN & ENV SAFETY
EP NANAIMO
BCMELP VAN. IS.

Submission RefId: 20000416

Logged in: 21-Nov-96 (1 sample)

Completed: 17-Dec-96 (82 results)

Charged to: 7001-16
+CA WASTE - VAN ISLAND

Analyzed for: INORGANICS, METALS, FIELD DATA

Authorized by: Richard Strub
QA Officer

Notes:

[1] -"anions/ic" are analyses performed by ion chromatography. Nitrate and nitrite concentrations are expressed as nitrogen.

RESULTS FOR OUTSELL POND SAMPLE

Parameter Analyzed		Units	966607-001
ALKALINITY		mg/l	29.4
ANIONS/IC - BROMIDE		mg/l	<0.05
CHLORIDE		mg/l	11.3
FLUORIDE		mg/l	0.06
NITRATE-NITROGEN		mg/l	0.585
NITRITE-NITROGEN		mg/l	<0.005
SULPHATE		mg/l	22
CONDUCTIVITY		uS/cm	159
METALS/DISS.(WATER-ICP SCAN)	AG	mg/l	<.01
	AL	mg/l	<.05
	AS	mg/l	<.05
	B	mg/l	.02
	BA	mg/l	.004
	BE	mg/l	<.001
	CA	mg/l	13
	CD	mg/l	<.005
	CO	mg/l	<.005
	CR	mg/l	<.005
	CU	mg/l	<.005
	FE	mg/l	.103
	K	mg/l	.6
	MG	mg/l	4
	MN	mg/l	.016
	MO	mg/l	<.01
	NA	mg/l	8.5
	NI	mg/l	<.02
	P	mg/l	<.1
	PB	mg/l	<.05
	SB	mg/l	<.05
	SE	mg/l	<.05
	SI	mg/l	7.81
	SN	mg/l	<.05
	SR	mg/l	.087
	TI	mg/l	.002
	V	mg/l	<.01
	ZN	mg/l	.006
.HARDNESS/CA+MG	HC	mg/l	49
/TOTAL	HT	mg/l	49.5
/TOTAL (WATER-ICP)	AG	mg/l	<.01
	AL	mg/l	1.4
	AS	mg/l	<.06
	B	mg/l	<.01
	BA	mg/l	.007
	BE	mg/l	<.001
	CA	mg/l	14.4
	CD	mg/l	<.006
	CO	mg/l	.007
	CR	mg/l	.01
	CU	mg/l	<.006
	FE	mg/l	.821
	K	mg/l	.7
	MG	mg/l	4.4
	MN	mg/l	.025

RESULTS FOR OUTSELL POND SAMPLE

Parameter Analyzed		Units	966607-001
METALS/TOTAL (WATER-ICP)	MO	mg/l	<.01
	NA	mg/l	9.6
	NI	mg/l	<.02
	P	mg/l	<.1
	PB	mg/l	<.06
	SB	mg/l	<.06
	SE	mg/l	<.06
	SI	mg/l	10.5
	SN	mg/l	<.06
	SR	mg/l	.095
	TI	mg/l	.051
	V	mg/l	<.01
	ZN	mg/l	.004
NITROGEN/AMMONIA		mg/l	.01
/TOTAL		mg/l	.86
OXYGEN DEMAND/CHEMICAL		mg/l	171
PH		Rel.U.	6.93
PHOSPHORUS/O-PO4		mg/l	<.001
RESIDUE/FILTERABLE		mg/l	130
/NON-FILTERABLE		mg/l	8
/TOTAL		mg/l	130
BC SAMPLING AGENCY		EMScode	10
COLLECTION START DATE		y/m/d	96/11/19
TIME		hhmm	0751
TEMPERATURE ON ARRIVAL		deg.C	7

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2645 Dollarton Hwy.
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V7H 1V2 (604)924-2500

Lab Reference #
966609

01:22 13-Dec-96

FINAL REPORT

Identification: OUTSELL WELL

Type of Sample: Fresh Water (General)

Submitted by: SPIDEL,A
NANAIMO
MUN & ENV SAFETY
EP NANAIMO
BCMELP VAN. IS.

Submission RefId: 20000418

Logged in: 21-Nov-96 (1 sample)

Completed: 12-Dec-96 (82 results)

Charged to: 7001-16
+CA WASTE - VAN ISLAND

Analyzed for: INORGANICS, METALS, FIELD DATA

Authorized by: Richard Strub

Richard Strub
QA Officer

Notes:

[1] -"anions/ic" are analyses performed by ion chromatography. Nitrate and nitrite concentrations are expressed as nitrogen.

RE. LTS FOR OUTSELL WELL MPLE

Parameter Analyzed		Units	966609-001
ALKALINITY		mg/l	153
ANIONS/IC - BROMIDE		mg/l	<0.05
CHLORIDE		mg/l	8.8
FLUORIDE		mg/l	0.12
NITRATE-NITROGEN		mg/l	0.032
NITRITE-NITROGEN		mg/l	<0.005
SULPHATE		mg/l	10
CONDUCTIVITY		uS/cm	333
METALS/DISS.(WATER-ICP SCAN)	AG	mg/l	<.01
	AL	mg/l	<.05
	AS	mg/l	<.05
	B	mg/l	.04
	BA	mg/l	.002
	BE	mg/l	.001
	CA	mg/l	38.5
	CD	mg/l	<.005
	CO	mg/l	<.005
	CR	mg/l	<.005
	CU	mg/l	<.005
	FE	mg/l	.089
	K	mg/l	.3
	MG	mg/l	9.3
	MN	mg/l	.022
	MO	mg/l	<.01
	NA	mg/l	17.7
	NI	mg/l	<.02
	P	mg/l	<.1
	PB	mg/l	<.05
	SB	mg/l	<.05
	SE	mg/l	<.05
	SI	mg/l	12.5
	SN	mg/l	<.05
	SR	mg/l	.091
	TI	mg/l	<.002
	V	mg/l	<.01
	ZN	mg/l	.009
.HARDNESS/CA+MG	HC	mg/l	134
/TOTAL	HT	mg/l	135
/TOTAL (WATER-ICP)	AG	mg/l	<.01
	AL	mg/l	<.06
	AS	mg/l	<.06
	B	mg/l	.03
	BA	mg/l	<.001
	BE	mg/l	<.001
	CA	mg/l	41.1
	CD	mg/l	<.006
	CO	mg/l	<.006
	CR	mg/l	.015
	CU	mg/l	<.006
	FE	mg/l	.185
	K	mg/l	.3
	MG	mg/l	9.8
	MN	mg/l	.027

RESULT FOR OUTSELL WELL SAMPLE

Parameter Analyzed		Units	966609-001
METALS/TOTAL (WATER-ICP)	MO	mg/l	<.01
	NA	mg/l	19.2
	NI	mg/l	<.02
	P	mg/l	<.1
	PB	mg/l	<.06
	SB	mg/l	<.06
	SE	mg/l	<.06
	SI	mg/l	12.9
	SN	mg/l	<.06
	SR	mg/l	.095
	TI	mg/l	<.002
	V	mg/l	<.01
	ZN	mg/l	.015
NITROGEN/AMMONIA		mg/l	.004
/TOTAL		mg/l	.07
OXYGEN DEMAND/CHEMICAL		mg/l	<10
PH		Rel.U.	7.09
PHOSPHORUS/O-PO4		mg/l	.006
RESIDUE/FILTERABLE		mg/l	210
/NON-FILTERABLE		mg/l	<5
/TOTAL		mg/l	210
BC SAMPLING AGENCY		EMScode	10
COLLECTION START DATE		y/m/d	96/11/19
TIME		hhmm	0840
TEMPERATURE ON ARRIVAL		deg.C	7

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2645 Dollarton Hwy.
North Vancouver, B.C.
V7H 1V2 (604)924-2500

Lab Reference #
966608

01:21 13-Dec-96

FINAL REPORT

Identification: BURGE WELL

Type of Sample: Fresh Water (General)

Submitted by: SPIDEL,A
NANAIMO
MUN & ENV SAFETY
EP NANAIMO
BCMELP VAN. IS.

Submission RefId: 20000417

Logged in: 21-Nov-96 (1 sample)

Completed: 12-Dec-96 (83 results)

Charged to: 7001-16
+CA WASTE - VAN ISLAND

Analyzed for: INORGANICS, METALS, FIELD DATA

Authorized by: Richard Strub

Richard Strub
QA Officer

Notes:

[1] -"anions/ic" are analyses performed by ion chromatography. Nitrate and nitrite concentrations are expressed as nitrogen.

RESULTS FOR BURGE WELL SAMPLE

Parameter Analyzed		Units	966608-001
ALKALINITY		mg/l	174
ANIONS/IC - BROMIDE		mg/l	<0.05
CHLORIDE		mg/l	10
FLUORIDE		mg/l	0.1
NITRATE-NITROGEN		mg/l	<0.002
NITRITE-NITROGEN		mg/l	<0.005
SULPHATE		mg/l	11
CONDUCTIVITY		uS/cm	373
METALS/DISS.(WATER-ICP SCAN)	AG	mg/l	<.01
	AL	mg/l	<.05
	AS	mg/l	<.05
	B	mg/l	.05
	BA	mg/l	<.001
	BE	mg/l	<.001
	CA	mg/l	53.5
	CD	mg/l	<.005
	CO	mg/l	<.005
	CR	mg/l	.005
	CU	mg/l	<.005
	FE	mg/l	.021
	K	mg/l	<.1
	MG	mg/l	4.7
	MN	mg/l	.121
	MO	mg/l	<.01
	NA	mg/l	18
	NI	mg/l	<.02
	P	mg/l	<.1
	PB	mg/l	<.05
	SB	mg/l	<.05
	SE	mg/l	<.05
	SI	mg/l	12.3
	SN	mg/l	<.05
	SR	mg/l	.081
	TI	mg/l	<.002
	V	mg/l	<.01
	ZN	mg/l	.055
.HARDNESS/CA+MG	HC	mg/l	153
/TOTAL	HT	mg/l	153
/TOTAL (WATER-ICP)	AG	mg/l	<.01
	AL	mg/l	<.06
	AS	mg/l	<.06
	B	mg/l	.04
	BA	mg/l	<.001
	BE	mg/l	.001
	CA	mg/l	55.2
	CD	mg/l	<.006
	CO	mg/l	<.006
	CR	mg/l	<.006
	CU	mg/l	<.006
	FE	mg/l	.525
	K	mg/l	<.1
	MG	mg/l	4.8
	MN	mg/l	.13

RESULTS FOR BURGE WELL SAMPLE

Parameter Analyzed		Units	966608-001
METALS/TOTAL (WATER-ICP)	MO	mg/l	<.01
	NA	mg/l	18.9
	NI	mg/l	<.02
	P	mg/l	<.1
	PB	mg/l	<.06
	SB	mg/l	<.06
	SE	mg/l	<.06
	SI	mg/l	12.4
	SN	mg/l	<.06
	SR	mg/l	.082
	TI	mg/l	<.002
	V	mg/l	<.01
	ZN	mg/l	.069
NITROGEN/AMMONIA		mg/l	.024
/TOTAL		mg/l	.03
OXYGEN DEMAND/CHEMICAL		mg/l	130
PH		Rel.U.	7.63
PHOSPHORUS/O-PO4		mg/l	.002
RESIDUE/FILTERABLE		mg/l	240
/NON-FILTERABLE		mg/l	<5
/TOTAL		mg/l	310
BC SAMPLING AGENCY		EMScode	10
COLLECTION START DATE		y/m/d	96/11/19
TIME		hhmm	0812
UPPER DEPTH		metres	0.5
TEMPERATURE ON ARRIVAL		deg.C	7

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Lab Reference #
966605

00:16 14-Dec-96

FINAL REPORT

Identification: BELLHOUSE WELL

Type of Sample: Fresh Water (General)

Submitted by: SPIDEL,A
NANAIMO
MUN & ENV SAFETY
EP NANAIMO
BCMELP VAN. IS.

Submission RefId: 20000414

Logged in: 21-Nov-96 (1 sample)

Completed: 13-Dec-96 (83 results)

Charged to: 7001-16
+CA WASTE - VAN ISLAND

Analyzed for: INORGANICS, METALS, FIELD DATA

Authorized by: Richard Strub
QA Officer

Notes:

[1] -"anions/ic" are analyses performed by ion chromatography. Nitrate and nitrite concentrations are expressed as nitrogen.

RESULTS FOR BELLHOUSE WELL SAMPLE

Parameter Analyzed		Units	966605-001
ALKALINITY		mg/l	38.2
ANIONS/IC - BROMIDE		mg/l	<0.05
CHLORIDE		mg/l	5.1
FLUORIDE		mg/l	0.09
NITRATE-NITROGEN		mg/l	1.38
NITRITE-NITROGEN		mg/l	<0.005
SULPHATE		mg/l	5.9
CONDUCTIVITY		uS/cm	123
METALS/DISS.(WATER-ICP SCAN)	AG	mg/l	<.01
	AL	mg/l	.13
	AS	mg/l	<.05
	B	mg/l	.01
	BA	mg/l	.002
	BE	mg/l	<.001
	CA	mg/l	10.5
	CD	mg/l	<.005
	CO	mg/l	<.005
	CR	mg/l	<.005
	CU	mg/l	.078
	FE	mg/l	.064
	K	mg/l	.4
	MG	mg/l	3.7
	MN	mg/l	.002
	MO	mg/l	<.01
	NA	mg/l	7.3
	NI	mg/l	<.02
	P	mg/l	<.1
	PB	mg/l	<.05
	SB	mg/l	<.05
	SE	mg/l	<.05
	SI	mg/l	11.8
	SN	mg/l	<.05
	SR	mg/l	.06
	TI	mg/l	.005
	V	mg/l	<.01
	ZN	mg/l	.029
.HARDNESS/CA+MG	HC	mg/l	41.2
/TOTAL	HT	mg/l	42
/TOTAL (WATER-ICP)	AG	mg/l	<.01
	AL	mg/l	.56
	AS	mg/l	<.06
	B	mg/l	<.01
	BA	mg/l	<.001
	BE	mg/l	<.001
	CA	mg/l	11
	CD	mg/l	<.006
	CO	mg/l	<.006
	CR	mg/l	.017
	CU	mg/l	.129
	FE	mg/l	.222
	K	mg/l	.5
	MG	mg/l	3.9
	MN	mg/l	.005

RESULT FOR BELLHOUSE WELL SAMPLE

Parameter Analyzed		Units	966605-001
METALS/TOTAL (WATER-ICP)	MO	mg/l	<.01
	NA	mg/l	8.1
	NI	mg/l	<.02
	P	mg/l	<.1
	PB	mg/l	<.06
	SB	mg/l	<.06
	SE	mg/l	<.06
	SI	mg/l	12.6
	SN	mg/l	<.06
	SR	mg/l	.063
	TI	mg/l	.027
	V	mg/l	<.01
	ZN	mg/l	.059
NITROGEN/AMMONIA		mg/l	.004
/TOTAL		mg/l	1.6
OXYGEN DEMAND/CHEMICAL		mg/l	<10
PH		Rel.U.	6.08
PHOSPHORUS/O-PO4		mg/l	.007
RESIDUE/FILTERABLE		mg/l	120
/NON-FILTERABLE		mg/l	<5
/TOTAL		mg/l	120
BC SAMPLING AGENCY		EMScode	10
COLLECTION START DATE		y/m/d	96/11/19
TIME		hhmm	0657
UPPER DEPTH		metres	0.5
TEMPERATURE ON ARRIVAL		deg.C	7

Environment Canada -Laboratories
Pacific Environmental Science Centre
2645 Dollarton Hwy.
North Vancouver, B.C.
V7H 1V2 (604)924-2500

Lab Reference #
966606

00:17 14-Dec-96

FINAL REPORT

File:
PR-5559

Identification: BELLHOUSE POND

Type of Sample: Fresh Water (General)

Submitted by: SPIDEL,A
NANAIMO
MUN & ENV SAFETY
EP NANAIMO
BCMELP VAN. IS.

Submission RefId: 20000415

Logged in: 21-Nov-96 (1 sample)

Completed: 13-Dec-96 (83 results)

Charged to: 7001-16
+CA WASTE - VAN ISLAND

Analyzed for: INORGANICS, METALS, FIELD DATA

Authorized by: Richard Strub
Richard Strub
QA Officer

Notes:

[1] -"anions/ic" are analyses performed by ion chromatography. Nitrate and nitrite concentrations are expressed as nitrogen.

RESULTS FOR BELLHOUSE POND SAMPLE

Parameter Analyzed		Units	966606-001
ALKALINITY		mg/l	27.9
ANIONS/IC - BROMIDE		mg/l	<0.05
CHLORIDE		mg/l	25
FLUORIDE		mg/l	0.04
NITRATE-NITROGEN		mg/l	0.609
NITRITE-NITROGEN		mg/l	<0.005
SULPHATE		mg/l	11.7
CONDUCTIVITY		uS/cm	180
METALS/DISS.(WATER-ICP SCAN)	AG	mg/l	<.01
	AL	mg/l	.22
	AS	mg/l	<.05
	B	mg/l	.01
	BA	mg/l	.006
	BE	mg/l	<.001
	CA	mg/l	12.7
	CD	mg/l	<.005
	CO	mg/l	<.005
	CR	mg/l	<.005
	CU	mg/l	<.005
	FE	mg/l	.184
	K	mg/l	.8
	MG	mg/l	4.1
	MN	mg/l	.018
	MO	mg/l	<.01
	NA	mg/l	14
	NI	mg/l	<.02
	P	mg/l	<.1
	PB	mg/l	<.05
	SB	mg/l	<.05
	SE	mg/l	<.05
	SI	mg/l	9.66
	SN	mg/l	<.05
	SR	mg/l	.088
	TI	mg/l	.009
	V	mg/l	<.01
	ZN	mg/l	.008
.HARDNESS/CA+MG	HC	mg/l	48.4
/TOTAL	HT	mg/l	49.8
/TOTAL (WATER-ICP)	AG	mg/l	<.01
	AL	mg/l	1.2
	AS	mg/l	<.06
	B	mg/l	<.01
	BA	mg/l	.006
	BE	mg/l	<.001
	CA	mg/l	13.6
	CD	mg/l	<.006
	CO	mg/l	.006
	CR	mg/l	<.006
	CU	mg/l	<.006
	FE	mg/l	.72
	K	mg/l	1
	MG	mg/l	4.3
	MN	mg/l	.023

RESULT FOR BELLHOUSE POND SAMPLE

Parameter Analyzed		Units	966606-001
METALS/TOTAL (WATER-ICP)	MO	mg/l	<.01
	NA	mg/l	14.9
	NI	mg/l	<.02
	P	mg/l	<.1
	PB	mg/l	<.06
	SB	mg/l	<.06
	SE	mg/l	<.06
	SI	mg/l	11
	SN	mg/l	<.06
	SR	mg/l	.09
	TI	mg/l	.042
	V	mg/l	<.01
	ZN	mg/l	.009
NITROGEN/AMMONIA		mg/l	.026
/TOTAL		mg/l	1.1
OXYGEN DEMAND/CHEMICAL		mg/l	11
PH		Rel.U.	6.98
PHOSPHORUS/O-PO4		mg/l	.004
RESIDUE/FILTERABLE		mg/l	150
/NON-FILTERABLE		mg/l	<5
/TOTAL		mg/l	150
BC SAMPLING AGENCY		EMScode	10
COLLECTION START DATE		y/m/d	96/11/19
TIME		hhmm	0715
UPPER DEPTH		metres	0.1
TEMPERATURE ON ARRIVAL		deg.C	7

Fulton [illegible] 1159

	G3 G. Bellhouse			Bellhouse Pond 53		G4 Burdge House			G5 Outsell House			Outsell Pond 57
	17-Feb-94	17-Oct-95	Mar-20-96	17-Oct-95	Mar-20-96	17-Feb-94	17-Oct-95	Mar-20-96	17-Feb-94	17-Oct-95	Mar-20-96	Mar-20-96
	6.5	6.6		8		7.7	7.9		7.6	7.7		7.3
Sp. Cond.	160	159		347		351	374		329	398		134
	50.9	51.1		124		167	150		139	166		45.5
		45.2		109			170			180		28.3
Cl	10.9	11.4		31.4		10.1	8.8		9.7	9.7		10.3
		0.22		0.77			<0.06			<0.06		0.31
	0.006	<0.005		0.007		0.115	<0.005		0.008	<0.005		0.015
	0.89	1.14		<0.02		<0.02	<0.02		0.17	<0.02		0.09
	0.89	1.14		<0.02		<0.02	<0.02		0.17	<0.02		0.09
	<0.005	<0.005		<0.005		<0.005	<0.005		<0.005	<0.005		<0.005
	<0.03	<0.03		<0.03		<0.03	<0.03		<0.03	<0.03		<0.03
	0.23	0.13		**0.26**		<0.06	<0.06		<0.06	<0.06		0.1
	<0.04	<0.04		<0.04		<0.04	<0.04		<0.04	<0.04		<0.04
	<0.04	<0.04		<0.04		<0.04	<0.04		<0.04	<0.04		<0.04
	0.002	0.003		0.021		<0.001	<0.001		0.003	0.003		0.004
	<0.001	<0.001		<0.001		<0.001	<0.001		<0.001	<0.001		<0.001
	0.02	<0.02		<0.02		0.02	<0.02		<0.02	<0.02		<0.02
Ca	13	13.2		34.3		59.2	52.8		40.4	48.6		12.6
	<0.002	<0.002		<0.002		<0.002	<0.002		<0.002	<0.002		<0.002
	<0.004	<0.004		<0.004		<0.004	<0.004		<0.004	<0.004		<0.004
	<0.002	<0.002		<0.002		<0.002	<0.002		<0.002	<0.002		<0.002
	0.305	0.21		0.003		0.004	0.005		0.018	0.003		<0.002
	0.14	0.1		**0.63**		**3.16**	>0.05		<0.05	0.06		0.22
	0.5	0.8		2.9		<0.4	>0.4		<0.4	0.6		0.6
	4.47	4.4		9.21		4.7	4.33		9.2	10.8		3.62
	0.005	0.003		**0.246**		**0.18**	**0.136**		0.01	**0.057**		0.046
	G. Bellhouse			Bellhouse Pond		Burdge House			Outsell House			Outsell Pond
	<0.004	<0.004		<0.004		<0.004	>0.004		<0.004	<0.004		<0.004
	8.7	9.2		17.1		18.4	17.1		16.9	19.4		8.8
	<0.01	<0.01		<0.01		<0.01	<0.01		<0.01	<0.01		<0.01
	<0.04	<0.04		**0.05**		**0.06**	<0.04		<0.04	<0.04		<0.04

<0.03	<0.03		<0.03		<0.03	<0.03		<0.03	<0.03		<0.03
2.8	2.5		4.3		5.4	3.2		3.3	3.3		6.8
<0.02	<0.02		<0.02		<0.02	<0.02		<0.02	<0.02		<0.02
<0.03	<0.03		<0.03		<0.03	<0.03		<0.03	<0.03		<0.03
10.8	9.6		5		11.6	10.1		10.3	11.3		6.7
<0.02	<0.02		<0.02		<0.02	<0.02		<0.02	<0.02		<0.02
0.066	0.074		0.165		0.079	0.072		0.081	0.094		0.076
<0.02	<0.02		<0.02		<0.02	<0.02		<0.02	<0.02		<0.02
0.009	0.005		0.005		0.003	<0.003		<0.003	<0.003		0.005
<0.03	<0.03		<0.03		<0.03	<0.03		<0.03	<0.03		<0.03
<0.003	<0.003		<0.003		<0.003	<0.003		<0.003	<0.003		<0.003
0.06	0.14		0.14		0.05	0.13		0.08	0.03		<0.01
<0.003	<0.003		<0.003		<0.003	<0.003		<0.003	<0.003		<0.003
0.7	0.5		0.5		0.5	<0.4		0.7	<0.4		0.6
9.07	9.15		9.15		19.6	17		17.8	18.2		8.81
0	31				0	<1		0	<1		

file

Galiano Club PR-5559

Comparison of Water Sampling Analyses Dated 17 Feb 94 and 17 Oct 95

Site Location			
Site 1	North Side	**Site 4**	Burdge House
Site 2	Northeast Pit	**Site 5**	Outsell House
Site 3	G. Bellhouse	**Site 6**	Lot 17 Well
Site 3A	Bellhouse Pond		

			Site 1		Site 2	Site 3		Site 3A	Site 4		Site 5		Site 6
Parameter	**Unit**	**Criteria for Drinking Water**	17-Feb-94	17-Oct-95	17-Feb-94	17-Feb-94	17-Oct-95	17-Oct-95	17-Feb-94	17-Oct-95	17-Feb-94	17-Oct-95	17-Feb-94
pH	pH units	6.5 - 8.5	7.1	**6.1**	**6.3**	6.5	6.6	8	7.7	7.9	7.6	7.7	8.2
Sp. Conductance	uS/cm	700 - Drinking	17	16	30	160	159	347	351	374	329	398	239
Hardness Total	mg/L CaCO3	100 Acceptable, <200 Tolerable	6.1	11.2	9.4	50.9	51.1	124	167	150	139	166	25
Alkalinity Total 4.5	mg/L CaCO3	no criteria specified		4.1			45.2	109		170		180	
Chloride diss.	mg/L Cl	250	1.8	0.6	2.1	10.9	11.4	31.4	10.1	8.8	9.7	9.7	5.7
Nitrogen Total	mg/L N	no criteria specified		1.24			0.22	0.77		<0.06		<0.06	
Nitrogen Amm. Diss	mg/L N	no criteria specified	0.015	0.006	0.017	0.006	<0.005	0.007	0.115	<0.005	0.008	<0.005	0.009
NO3+NO2	mg/L as N	10	0.06	<0.02	0.15	0.89	1.14	<0.02	<0.02	<0.02	0.17	<0.02	0.02
NO3 Diss (N)	mg/L as N	10	0.05	<0.02	0.15	0.89	1.14	<0.02	<0.02	<0.02	0.17	<0.02	<0.02
NO2 Diss (N)	mg/L as N	1	0.007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.011
Silver	mg/L Ag	no criteria specified	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Aluminum	mg/L Al	0.2	**5.69**	**7.92**	**9.63**	**0.23**	0.13	**0.26**	<0.06	<0.06	<0.06	<0.06	<0.06
Arsenic	mg/L As	.025 (proposed)	**<0.04**	**<0.04**	**<0.04**	**<0.04**	**<0.04**	**<0.04**	**<0.04**	**<0.04**	**<0.04**	**<0.04**	**<0.04**
Boron	mg/L B	5	0.06	0.11	0.06	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.25
Barium	mg/L Ba	1	0.027	0.048	0.042	0.002	0.003	0.021	<0.001	<0.001	0.003	0.003	<0.001
Beryllium	mg/L Be	no criteria specified	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bismuth	mg/L Bi	no criteria specified	<0.02	<0.02	<0.02	0.02	<0.02	<0.02	0.02	<0.02	<0.02	<0.02	<0.02
Calcium	mg/L Ca	20 -100 food processing	1.02	1.63	1.72	13	13.2	34.3	59.2	52.8	40.4	48.6	9.78
Cadmium	mg/L Cd	0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L Co	no criteria specified	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Chromium	mg/L Cr	0.05	0.004	0.01	0.006	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Copper	mg/L Cu	0.5	0.003	0.008	0.005	0.305	0.21	0.003	0.004	0.005	0.018	0.003	<0.002
Iron	mg/L Fe	0.3	**3.49**	**7.35**	**5.47**	0.14	0.1	**0.63**	**3.16**	>0.05	<0.05	0.06	<0.05
Potassium	mg/L K	no criteria specified	1	1.2	0.5	0.5	0.8	2.9	<0.4	>0.4	<0.4	0.6	<0.4
Magnesium	mg/L Mg	>700: laxative effects	0.86	1.72	1.24	4.47	4.4	9.21	4.7	4.33	9.2	10.8	0.14
Manganese	mg/L Mn	0.05	0.025	**0.072**	0.035	0.005	0.003	**0.246**	**0.18**	**0.136**	0.01	**0.057**	<0.002

Parameter	Unit	Criteria	Site 1		Site 2	Site 3		Site 3A	Site 4		Site 5		Site 6
Molybdenum	mg/L Mo	0.25	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	>0.004	<0.004	<0.004	0.006
Sodium	mg/L Na	no criteria specified	1.6	1.8	2.5	8.7	9.2	17.1	18.4	17.1	16.9	19.4	48.1
Nickel	mg/L Ni	0.2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Phosphorus	mg/L P	0.01	**0.06**	**0.16**	**0.1**	**<0.04**	**<0.04**	**0.05**	**0.06**	**<0.04**	**<0.04**	**<0.04**	**<0.04**
Lead	mg/L Pb	0.05	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Sulphur	mg/L S	no criteria specified	0.4	0.5	1	2.8	2.5	4.3	5.4	3.2	3.3	3.3	1.7
Antimony	mg/L Sb	0.006	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**<0.02**
Selenium	mg/L Se	0.01	**<0.03**	**<0.03**	**<0.03**	**<0.03**	**<0.03**	**<0.03**	**<0.03**	**<0.03**	**<0.03**	**<0.03**	**<0.03**
Silicon	mg/L Si	no criteria specified	8.8	10.2	14.8	10.8	9.6	5	11.6	10.1	10.3	11.3	4.8
Tin	mg/L Sn	no criteria specified	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Strontium	mg/L Sr	no criteria specified	0.037	0.057	0.04	0.066	0.074	0.165	0.079	0.072	0.081	0.094	0.021
Tellurium	mg/L Te	no criteria specified	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Titanium	mg/L Ti	0.1	**0.353**	**0.496**	**0.563**	0.009	0.005	0.005	0.003	<0.003	<0.003	<0.003	<0.003
Thallium	mg/L Tl	0.013	**<0.03**	**<0.03**	**<0.03**	**<0.03**	**<0.03**	**<0.03**	**<0.03**	**<0.03**	**<0.03**	**<0.03**	**<0.03**
Vanadium	mg/L V	0.1	0.009	0.019	0.017	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Zinc	mg/L Zn	5	0.02	0.02	0.03	0.06	0.14	0.14	0.05	0.13	0.08	0.03	0.02
Zirconium	mg/L Zr	no criteria specified	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Potassium Dissolved	mg/L K	20	0.6	0.4	0.6	0.7	0.5	0.5	0.5	<0.4	0.7	<0.4	<0.4
Sodium Dissolved	mg/L Na	20 Drinking :restricted diet 200 aesthetic	1.42	1.52	2.52	9.07	9.15	9.15	19.6	17	17.8	18.2	**48.9**
Coliform - Fecal	CFU/100ml	<10 disinfection only <100 partial treatment >100: complete treatment req'd	0	12 500	**10**	0	**31**		0	<1	0	<1	0

All instances of sample readings exceeding criteria are noted in bold script. Some excessive readings due to sampling technique (smallest reading exceeded criteria). Those parameters clearly exceeding criteria for drinking water are noted below.

Aluminum	Manganese	Titanium
Iron	Phosphorus	Fecal Coliforms

While not exceeding limits of tolerability, the Burdge and Outsell well water contains higher than acceptable levels of hardness.

Reference: BC Environment: Approved and Working Criteria for Water Quality, 1995.

PR-5559

23-Apr-96

ZENON ENVIRONMENTAL LABORATORIES
Certificate of Analysis

8577 Commerce Court
Burnaby, B.C.
Canada V5A 4N5
Tel 604 444 4808
Fax 604 444 4511

Reported To :

WASTE - VANCOUVER ISLAND Client Code CA

Waste Management Branch
Vancouver Island Region
2569 Kenworth Road
Nanaimo, BC V9T 4P7

FAX : DEB BOOTH
Phone : 751-3100

Requisition Forms :

	Zenon ID
Form 10010505 received on 22-MAR-1996 completed on 23-APR-1996 containing sample(s)	96006944
	96006945
	96006946
	96006947

From sampling site NOSITE GALIANO ISLAND LANDFILL

Remarks :

- All results are blank corrected except for Hi-Res MS data.
- 'MDC' = Minimum Detectable Concentration
- '<' = Less than MDC
- '---' = Not analyzed
- Solids results are based on dry weight except Volatile Organics, TPH and Biota Analyses.
- Organic analyses are not corrected for surrogate recoveries except for Isotope Dilution methods.

Methods used by Zenon are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', 17th Edition, published by the American Public Health Association, 1015 Fifteenth Street, NW, Washington, DC 20005, or on US EPA protocols found in the 'Test Methods For Evaluating Solid Waste, Physical/Chemical Method, SW846', 3rd Edition. Other procedures are based on methodologies accepted by the B.C. Ministry of Environment.

ANALYTICAL REPORT
Form 10010505

Sampling site : NOSITE GALIANO ISLAND LANDFILL
Submitted by : G. Bellhouse Well

Zenon ID : 96006944

Sparcode	Parameter		Unit	MDC	Media	Workroute
00041220	pH	6.6	pH units	0.1	35/01	Automated pH Meter
00111160	Specific Conductance	121	uS/cm	1	35/01	Cond.Meter Radiometer
00051034	Residue Total	118	mg/L	4	35/01	Grav. 105C - Total Res.
007H1033	Res. Filterable 1.0u	118	mg/L	4	35/01	Grav 1.0 um Filter
0107CALC	Hardness Total -T	40.0	mg/L		--/--	Calculated Result
01021210	Alkalinity Total 4.5	34.3	mg/L	0.5	35/01	Automated Electrometer
01160500	Chemical Oxygen Dem.	15	mg/L	10	04/05	K2Cr2O7 Dig:Titr.
11041330	Chloride Dissolved	8.9	mg/L	0.5	35/01	Auto. mercuric thiocyan.
IonBCALC	Ion Balance	0.8	%		--/--	Calculated Result
0112CALC	Nitrogen Organic-Tot	0.23	mg/L		--/--	Calculated Result
0113136A	Nitrogen Kjel.Tot(N)	0.23	mg/L	0.04	35/01	HgSO4 Dig.Auto.Colour.
0114CALC	Nitrogen Total	1.26	mg/L		--/--	Calculated Result
11081351	Ammonia (N)	< 0.005	mg/L	0.005	35/01	Automated Bertholot meth
11091350	Nitrate+Nitrite (N)	1.03	mg/L	0.02	35/01	Auto. Cadmium Reduction
1110CALC	Nitrogen NO3 Diss(N)	1.03	mg/L		--/--	Calculated Result
11111354	Nitrite-NO2 (N)	< 0.005	mg/L	0.005	35/01	Auto. Diazotization
11181380	Phosphorus Ort.Dis-P	0.017	mg/L	0.003	35/01	Auto.Ascorbic Acid
11211400	Sulfate	6.9	mg/L	1.0	35/01	Auto Methyl Thymol Blue
Ag-T0042	Silver	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
Al-T0042	Aluminum	0.36	mg/L	0.06	05/02	GI HNO3 Dig; ICAP 61E
As-T0042	Arsenic	< 0.04	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
B--T0042	Boron	< 0.04	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
Ba-T0042	Barium	0.002	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E
Be-T0042	Beryllium	< 0.001	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E
Bi-T0042	Bismuth	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Ca-T0042	Calcium	10.4	mg/L	0.05	05/02	GI HNO3 Dig; ICAP 61E
Cd-T0042	Cadmium	< 0.002	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Co-T0042	Cobalt	< 0.004	mg/L	0.004	05/02	GI HNO3 Dig; ICAP 61E
Cr-T0042	Chromium	< 0.002	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Cu-T0042	Copper	0.206	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Fe-T0042	Iron	0.18	mg/L	0.05	05/02	GI HNO3 Dig; ICAP 61E
K__T0042	Potassium	< 0.4 (1)	mg/L	0.4	05/02	GI HNO3 Dig; ICAP 61E
Mg-T0042	Magnesium	3.49 (1)	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Mn-T0042	Manganese	0.003	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Mo-T0042	Molybdenum	< 0.004	mg/L	0.004	05/02	GI HNO3 Dig; ICAP 61E
Na_T0042	Sodium	8.2 (1)	mg/L	0.4	05/02	GI HNO3 Dig; ICAP 61E
Ni-T0042	Nickel	< 0.01	mg/L	0.01	05/02	GI HNO3 Dig; ICAP 61E
P__T0042	Phosphorus	< 0.04	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
Pb-T0042	Lead	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
S__T0042	Sulphur	2.4	mg/L	0.1	05/02	GI HNO3 Dig; ICAP 61E
Sb-T0042	Antimony	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E

Sample State : Fresh Water
Sampled on : 96/03/20 09:00

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23-Apr-96

ANALYTICAL REPORT
Form 10010505

Sampling site : NOSITE GALIANO ISLAND LANDFILL
Submitted by : G. Bellhouse Well

Zenon ID : 96006944

Sparcode	Parameter		Unit	MDC	Media	Workroute
Se-T0042	Selenium	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
Si-T0042	Silicon	11.3	mg/L	0.8	05/02	GI HNO3 Dig; ICAP 61E
Sn-T0042	Tin	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Sr-T0042	Strontium	0.059	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E
Te-T0042	Tellurium	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Ti-T0042	Titanium	0.013	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E
Tl-T0042	Thallium	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
V--T0042	Vanadium	< 0.003	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E
Zn-T0042	Zinc	0.05	mg/L	0.01	05/02	GI HNO3 Dig; ICAP 61E
Zr-T0042	Zirconium	< 0.003	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E
Ca-D0031	Calcium Dissolved	10.2	mg/L	0.01	05/13	ICAP 61E Analysis
K_D0031	Potassium Dissolved	0.5	mg/L	0.4	35/01	ICAP 61E Analysis
Mg-D0031	Magnesium Dissolved	3.54	mg/L	0.02	05/13	ICAP 61E Analysis
Na_D0031	Sodium Dissolved	8.30	mg/L	0.01	35/01	ICAP 61E Analysis

Sample State : Fresh Water
Sampled on : 96/03/20 09:00

Result comments and/or text results :

(1) Diss > Total, within precision of analytical method.

ANALYTICAL REPORT
Form 10010505

Sampling site : NOSITE GALIANO ISLAND LANDFILL
Submitted by : Bellhouse Pond

Zenon ID : 96006945

Sparcode	Parameter		Unit	MDC	Media	Workroute
00041220	pH	7.3	pH units	0.1	35/01	Automated pH Meter
00111160	Specific Conductance	163	uS/cm	1	35/01	Cond.Meter Radiometer
00051034	Residue Total	146	mg/L	4	35/01	Grav. 105C - Total Res.
007H1033	Res. Filterable 1.0u	149	mg/L	4	35/01	Grav 1.0 um Filter
0107CALC	Hardness Total -T	45.1	mg/L		--/--	Calculated Result
01021210	Alkalinity Total 4.5	31.2	mg/L	0.5	35/01	Automated Electrometer
01160500	Chemical Oxygen Dem.	21	mg/L	10	04/05	K2Cr2O7 Dig:Titr.
11041330	Chloride Dissolved	21.8	mg/L	0.5	35/01	Auto. mercuric thiocyan.
IonBCALC	Ion Balance	1.0	%		--/--	Calculated Result
0112CALC	Nitrogen Organic-Tot	0.37	mg/L		--/--	Calculated Result
0113136A	Nitrogen Kjel.Tot(N)	0.37	mg/L	0.04	35/01	HgSO4 Dig.Auto.Colour.
0114CALC	Nitrogen Total	0.81	mg/L		--/--	Calculated Result
11081351	Ammonia (N)	< 0.005	mg/L	0.005	35/01	Automated Bertholot meth
11091350	Nitrate+Nitrite (N)	0.44	mg/L	0.02	35/01	Auto. Cadmium Reduction
1110CALC	Nitrogen NO3 Diss(N)	0.44	mg/L		--/--	Calculated Result
11111354	Nitrite-NO2 (N)	< 0.005	mg/L	0.005	35/01	Auto. Diazotization
11181380	Phosphorus Ort.Dis-P	0.009	mg/L	0.003	35/01	Auto.Ascorbic Acid
11211400	Sulfate	11.0	mg/L	1.0	35/01	Auto Methyl Thymol Blue
Ag-T0042	Silver	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
Al-T0042	Aluminum	0.19	mg/L	0.06	05/02	GI HNO3 Dig; ICAP 61E
As-T0042	Arsenic	< 0.04	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
B--T0042	Boron	< 0.04	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
Ba-T0042	Barium	0.006	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E
Be-T0042	Beryllium	< 0.001	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E
Bi-T0042	Bismuth	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Ca-T0042	Calcium	11.9	mg/L	0.05	05/02	GI HNO3 Dig; ICAP 61E
Cd-T0042	Cadmium	< 0.002	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Co-T0042	Cobalt	< 0.004	mg/L	0.004	05/02	GI HNO3 Dig; ICAP 61E
Cr-T0042	Chromium	< 0.002	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Cu-T0042	Copper	< 0.002	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Fe-T0042	Iron	0.18	mg/L	0.05	05/02	GI HNO3 Dig; ICAP 61E
K__T0042	Potassium	0.7	mg/L	0.4	05/02	GI HNO3 Dig; ICAP 61E
Mg-T0042	Magnesium	3.90 (1)	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Mn-T0042	Manganese	0.013	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Mo-T0042	Molybdenum	< 0.004	mg/L	0.004	05/02	GI HNO3 Dig; ICAP 61E
Na_T0042	Sodium	14.3	mg/L	0.4	05/02	GI HNO3 Dig; ICAP 61E
Ni-T0042	Nickel	< 0.01	mg/L	0.01	05/02	GI HNO3 Dig; ICAP 61E
P__T0042	Phosphorus	< 0.04	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
Pb-T0042	Lead	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
S__T0042	Sulphur	4.3	mg/L	0.1	05/02	GI HNO3 Dig; ICAP 61E
Sb-T0042	Antimony	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E

Sample State : Fresh Water
Sampled on : 96/03/20 09:00

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ANALYTICAL REPORT
Form 10010505

Sampling site : NOSITE GALIANO ISLAND LANDFILL
Submitted by : Bellhouse Pond

Zenon ID : 96006945

Sparcode	Parameter		Unit	MDC	Media	Workroute
Se-T0042	Selenium	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
Si-T0042	Silicon	9.4	mg/L	0.8	05/02	GI HNO3 Dig; ICAP 61E
Sn-T0042	Tin	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Sr-T0042	Strontium	0.077	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E
Te-T0042	Tellurium	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Ti-T0042	Titanium	0.005	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E
Tl-T0042	Thallium	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
V--T0042	Vanadium	< 0.003	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E
Zn-T0042	Zinc	< 0.01	mg/L	0.01	05/02	GI HNO3 Dig; ICAP 61E
Zr-T0042	Zirconium	< 0.003	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E
Ca-D0031	Calcium Dissolved	11.6	mg/L	0.01	05/13	ICAP 61E Analysis
K__D0031	Potassium Dissolved	0.7	mg/L	0.4	35/01	ICAP 61E Analysis
Mg-D0031	Magnesium Dissolved	3.92	mg/L	0.02	05/13	ICAP 61E Analysis
Na_D0031	Sodium Dissolved	14.1	mg/L	0.01	35/01	ICAP 61E Analysis

Sample State : Fresh Water
Sampled on : 96/03/20 09:00

Result comments and/or text results :

(1) Diss > Total, within precision of analytical method.

ANALYTICAL REPORT
Form 10010505

Sampling site : NOSITE GALIANO ISLAND LANDFILL
Submitted by : Burdge House Well

Zenon ID : 96006946

Sparcode	Parameter		Unit	MDC	Media	Workroute
00041220	pH	7.8	pH units	0.1	35/01	Automated pH Meter
00111160	Specific Conductance	398	uS/cm	1	35/01	Cond.Meter Radiometer
00051034	Residue Total	240	mg/L	4	35/01	Grav. 105C - Total Res.
007H1033	Res. Filterable 1.0u	240	mg/L	4	35/01	Grav 1.0 um Filter
0107CALC	Hardness Total -T	177	mg/L		--/--	Calculated Result
01021210	Alkalinity Total 4.5	180	mg/L	0.5	35/01	Automated Electrometer
01160500	Chemical Oxygen Dem.	11	mg/L	10	04/05	K2Cr2O7 Dig:Titr.
11041330	Chloride Dissolved	11.1	mg/L	0.5	35/01	Auto. mercuric thiocyan.
IonBCALC	Ion Balance	3.4	%		--/--	Calculated Result
0112CALC	Nitrogen Organic-Tot	0.08	mg/L		--/--	Calculated Result
0113136A	Nitrogen Kjel.Tot(N)	0.08	mg/L	0.04	35/01	HgSO4 Dig.Auto.Colour.
0114CALC	Nitrogen Total	< 0.10	mg/L		--/--	Calculated Result
11081351	Ammonia (N)	< 0.005	mg/L	0.005	35/01	Automated Bertholot meth
11091350	Nitrate+Nitrite (N)	< 0.02	mg/L	0.02	35/01	Auto. Cadmium Reduction
1110CALC	Nitrogen NO3 Diss(N)	< 0.02	mg/L		--/--	Calculated Result
11111354	Nitrite-NO2 (N)	< 0.005	mg/L	0.005	35/01	Auto. Diazotization
11181380	Phosphorus Ort.Dis-P	0.014	mg/L	0.003	35/01	Auto.Ascorbic Acid
11211400	Sulfate	10.9	mg/L	1.0	35/01	Auto Methyl Thymol Blue
Ag-T0042	Silver	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
Al-T0042	Aluminum	< 0.06	mg/L	0.06	05/02	GI HNO3 Dig; ICAP 61E
As-T0042	Arsenic	< 0.04	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
B--T0042	Boron	0.05	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
Ba-T0042	Barium	< 0.001	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E
Be-T0042	Beryllium	< 0.001	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E
Bi-T0042	Bismuth	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Ca-T0042	Calcium	61.2 (1)	mg/L	0.05	05/02	GI HNO3 Dig; ICAP 61E
Cd-T0042	Cadmium	< 0.002	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Co-T0042	Cobalt	< 0.004	mg/L	0.004	05/02	GI HNO3 Dig; ICAP 61E
Cr-T0042	Chromium	< 0.002	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Cu-T0042	Copper	0.004	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Fe-T0042	Iron	0.05	mg/L	0.05	05/02	GI HNO3 Dig; ICAP 61E
K__T0042	Potassium	< 0.4	mg/L	0.4	05/02	GI HNO3 Dig; ICAP 61E
Mg-T0042	Magnesium	5.08 (1)	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Mn-T0042	Manganese	0.170	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Mo-T0042	Molybdenum	< 0.004	mg/L	0.004	05/02	GI HNO3 Dig; ICAP 61E
Na_T0042	Sodium	19.2	mg/L	0.4	05/02	GI HNO3 Dig; ICAP 61E
Ni-T0042	Nickel	< 0.01	mg/L	0.01	05/02	GI HNO3 Dig; ICAP 61E
P__T0042	Phosphorus	< 0.04	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
Pb-T0042	Lead	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
S__T0042	Sulphur	4.0	mg/L	0.1	05/02	GI HNO3 Dig; ICAP 61E
Sb-T0042	Antimony	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E

Sample State : Fresh Water
Sampled on : 96/03/20 09:20

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ANALYTICAL REPORT
Form 10010505

Sampling site : NOSITE GALIANO ISLAND LANDFILL
Submitted by : Burdge House Well

Zenon ID : 96006946

Sparcode	Parameter		Unit	MDC	Media	Workroute
Se-T0042	Selenium	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
Si-T0042	Silicon	12.0	mg/L	0.8	05/02	GI HNO3 Dig; ICAP 61E
Sn-T0042	Tin	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Sr-T0042	Strontium	0.082	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E
Te-T0042	Tellurium	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Ti-T0042	Titanium	< 0.003	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E
Tl-T0042	Thallium	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
V--T0042	Vanadium	< 0.003	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E
Zn-T0042	Zinc	0.29	mg/L	0.01	05/02	GI HNO3 Dig; ICAP 61E
Zr-T0042	Zirconium	< 0.003	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E
Ca-D0031	Calcium Dissolved	62.0	mg/L	0.01	05/13	ICAP 61E Analysis
K__D0031	Potassium Dissolved	< 0.4	mg/L	0.4	35/01	ICAP 61E Analysis
Mg-D0031	Magnesium Dissolved	5.28	mg/L	0.02	05/13	ICAP 61E Analysis
Na_D0031	Sodium Dissolved	20.7	mg/L	0.01	35/01	ICAP 61E Analysis

Sample State : Fresh Water
Sampled on : 96/03/20 09:20

Result comments and/or text results :

(1) Diss > Total, within precision of analytical method.

ANALYTICAL REPORT
Form 10010505

Sampling site : NOSITE GALIANO ISLAND LANDFILL
Submitted by : Outsell House Well

Zenon ID : 96006947

Sparcode	Parameter		Unit	MDC	Media	Workroute
00041220	pH	7.6	pH units	0.1	35/01	Automated pH Meter
00111160	Specific Conductance	353	uS/cm	1	35/01	Cond.Meter Radiometer
00051034	Residue Total	202	mg/L	4	35/01	Grav. 105C - Total Res.
007H1033	Res. Filterable 1.0u	200	mg/L	4	35/01	Grav 1.0 um Filter
0107CALC	Hardness Total -T	148	mg/L		--/--	Calculated Result
01021210	Alkalinity Total 4.5	158	mg/L	0.5	35/01	Automated Electrometer
01160500	Chemical Oxygen Dem.	< 10	mg/L	10	04/05	K2Cr2O7 Dig:Titr.
11041330	Chloride Dissolved	9.6	mg/L	0.5	35/01	Auto. mercuric thiocyan.
IonBCALC	Ion Balance	3.6	%		--/--	Calculated Result
0112CALC	Nitrogen Organic-Tot	0.06	mg/L		--/--	Calculated Result
0113136A	Nitrogen Kjel.Tot(N)	0.06	mg/L	0.04	35/01	HgSO4 Dig.Auto.Colour.
0114CALC	Nitrogen Total	< 0.08	mg/L		--/--	Calculated Result
11081351	Ammonia (N)	< 0.005	mg/L	0.005	35/01	Automated Bertholot meth
11091350	Nitrate+Nitrite (N)	< 0.02	mg/L	0.02	35/01	Auto. Cadmium Reduction
1110CALC	Nitrogen NO3 Diss(N)	< 0.02	mg/L		--/--	Calculated Result
11111354	Nitrite-NO2 (N)	< 0.005	mg/L	0.005	35/01	Auto. Diazotization
11181380	Phosphorus Ort.Dis-P	0.019	mg/L	0.003	35/01	Auto.Ascorbic Acid
11211400	Sulfate	9.0	mg/L	1.0	35/01	Auto Methyl Thymol Blue
Ag-T0042	Silver	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
Al-T0042	Aluminum	< 0.06	mg/L	0.06	05/02	GI HNO3 Dig; ICAP 61E
As-T0042	Arsenic	< 0.04	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
B--T0042	Boron	< 0.04	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
Ba-T0042	Barium	0.002	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E
Be-T0042	Beryllium	< 0.001	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E
Bi-T0042	Bismuth	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Ca-T0042	Calcium	39.7	mg/L	0.05	05/02	GI HNO3 Dig; ICAP 61E
Cd-T0042	Cadmium	< 0.002	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Co-T0042	Cobalt	< 0.004	mg/L	0.004	05/02	GI HNO3 Dig; ICAP 61E
Cr-T0042	Chromium	< 0.002	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Cu-T0042	Copper	0.003	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Fe-T0042	Iron	0.10	mg/L	0.05	05/02	GI HNO3 Dig; ICAP 61E
K__T0042	Potassium	< 0.4	mg/L	0.4	05/02	GI HNO3 Dig; ICAP 61E
Mg-T0042	Magnesium	9.11 (1)	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Mn-T0042	Manganese	0.052	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Mo-T0042	Molybdenum	< 0.004	mg/L	0.004	05/02	GI HNO3 Dig; ICAP 61E
Na_T0042	Sodium	18.3	mg/L	0.4	05/02	GI HNO3 Dig; ICAP 61E
Ni-T0042	Nickel	< 0.01	mg/L	0.01	05/02	GI HNO3 Dig; ICAP 61E
P__T0042	Phosphorus	< 0.04	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E

Sample State : Fresh Water
Sampled on : 96/03/20 09:10

Sample 96006947 comment :
FILTERING CONTAMINATION SUSPECTED ON DISSOLVED METALS

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ANALYTICAL REPORT
Form 10010505

Sampling site : NOSITE GALIANO ISLAND LANDFILL
Submitted by : Outsell House Well

Zenon ID : 96006947

Sparcode	Parameter		Unit	MDC	Media	Workroute
Pb-T0042	Lead	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
S_T0042	Sulphur	3.7	mg/L	0.1	05/02	GI HNO3 Dig; ICAP 61E
Sb-T0042	Antimony	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Se-T0042	Selenium	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
Si-T0042	Silicon	11.4	mg/L	0.8	05/02	GI HNO3 Dig; ICAP 61E
Sn-T0042	Tin	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Sr-T0042	Strontium	0.082	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E
Te-T0042	Tellurium	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Ti-T0042	Titanium	< 0.003	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E
Tl-T0042	Thallium	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
V--T0042	Vanadium	< 0.003	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E
Zn-T0042	Zinc	0.02	mg/L	0.01	05/02	GI HNO3 Dig; ICAP 61E
Zr-T0042	Zirconium	< 0.003	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E
Ca-D0031	Calcium Dissolved	43.8	mg/L	0.01	05/13	ICAP 61E Analysis
K_D0031	Potassium Dissolved	< 0.4	mg/L	0.4	35/01	ICAP 61E Analysis
Mg-D0031	Magnesium Dissolved	9.38	mg/L	0.02	05/13	ICAP 61E Analysis
Na_D0031	Sodium Dissolved	21.5	mg/L	0.01	35/01	ICAP 61E Analysis

Sample State : Fresh Water
Sampled on : 96/03/20 09:10

Sample 96006947 comment :
FILTERING CONTAMINATION SUSPECTED ON DISSOLVED METALS

Result comments and/or text results :

(1) Diss > Total, within precision of analytical method.

8577 Commerce Court
Burnaby, B.C.
Canada V5A 4N5
Tel 604 444 4808
Fax 604 444 4511

ZENON ENVIRONMENTAL LABORATORIES
Certificate of Analysis

Reported To :

WASTE - VANCOUVER ISLAND Client Code CA

Waste Management Branch
Vancouver Island Region
2569 Kenworth Road
Nanaimo, BC V9T 4P7

APR 16 1996

FAX : DEB BOOTH
Phone : 751-3100

Requisition Forms :

Zenon ID

Form 10010506 received on 22-MAR-1996 completed on 13-APR-1996 containing sample(s) 96006949

From sampling site NOSITE GALIANO ISLAND LANDFILL
Outsell Pond

Remarks :

- All results are blank corrected except for Hi-Res MS data.
- 'MDC' = Minimum Detectable Concentration
- '<' = Less than MDC
- '---' = Not analyzed
- Solids results are based on dry weight except Volatile Organics, TPH and Biota Analyses.
- Organic analyses are not corrected for surrogate recoveries except for Isotope Dilution methods.

Methods used by Zenon are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', 17th Edition, published by the American Public Health Association, 1015 Fifteenth Street, NW, Washington, DC 20005, or on US EPA protocols found in the 'Test Methods For Evaluating Solid Waste, Physical/Chemical Method, SW846', 3rd Edition. Other procedures are based on methodologies accepted by the B.C. Ministry of Environment.

Barry Olsen Zenon
444-4808

ANALYTICAL REPORT
Form 10010506

Sampling site : NOSITE GALIANO ISLAND LANDFILL
Submitted by :

Zenon ID : 96006949
Dutsell Pond

Sparcode	Parameter		Unit	MDC	Media	Workroute
00041220	pH	7.3	pH units	0.1	35/01	Automated pH Meter
00111160	Specific Conductance	134	uS/cm	1	35/01	Cond.Meter Siebold
00051034	Residue Total	96	mg/L	4	35/01	Grav. 105C - Total Res.
007H1033	Res. Filterable 1.0u	120	mg/L	4	35/01	Grav 1.0 um Filter
0107CALC	Hardness Total -T	45.5	mg/L		--/--	Calculated Result
01021210	Alkalinity Total 4.5	28.3	mg/L	0.5	35/01	Automated Electrometer
01160500	Chemical Oxygen Dem.	19	mg/L	10	04/05	K2Cr2O7 Dig:Titr.
11041330	Chloride Dissolved	10.3	mg/L	0.5	35/01	Auto. mercuric thiocyan.
IonBCALC	Ion Balance	3.6	%		--/--	Calculated Result
0112CALC	Nitrogen Organic-Tot	0.20	mg/L		--/--	Calculated Result
0113136A	Nitrogen Kjel.Tot(N)	0.22	mg/L	0.04	35/01	HgSO4 Dig.Auto.Colour.
0114CALC	Nitrogen Total	0.31	mg/L		--/--	Calculated Result
11081351	Ammonia (N)	0.015	mg/L	0.005	35/01	Automated Bertholot meth
11091350	Nitrate+Nitrite (N)	0.09	mg/L	0.02	35/01	Auto. Cadmium Reduction
1110CALC	Nitrogen NO3 Diss(N)	0.09	mg/L		--/--	Calculated Result
11111354	Nitrite-NO2 (N)	< 0.005	mg/L	0.005	35/01	Auto. Diazotization
11181380	Phosphorus Ort.Dis-P	0.005	mg/L	0.003	35/01	Auto.Ascorbic Acid
11211400	Sulfate	17.0	mg/L	1.0	35/01	Auto Methyl Thymol Blue
Ag-T0042	Silver	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
Al-T0042	Aluminum	0.10	mg/L	0.06	05/02	GI HNO3 Dig; ICAP 61E
As-T0042	Arsenic	< 0.04	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
B--T0042	Boron	< 0.04	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
Ba-T0042	Barium	0.004	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E
Be-T0042	Beryllium	< 0.001	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E
Bi-T0042	Bismuth	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Ca-T0042	Calcium	12.6	mg/L	0.05	05/02	GI HNO3 Dig; ICAP 61E
Cd-T0042	Cadmium	< 0.002	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Co-T0042	Cobalt	< 0.004	mg/L	0.004	05/02	GI HNO3 Dig; ICAP 61E
Cr-T0042	Chromium	< 0.002	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Cu-T0042	Copper	< 0.002	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Fe-T0042	Iron	0.22	mg/L	0.05	05/02	GI HNO3 Dig; ICAP 61E
K__T0042	Potassium	0.6 (1)	mg/L	0.4	05/02	GI HNO3 Dig; ICAP 61E
Mg-T0042	Magnesium	3.62 (1)	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Mn-T0042	Manganese	0.046	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Mo-T0042	Molybdenum	< 0.004	mg/L	0.004	05/02	GI HNO3 Dig; ICAP 61E
Na_T0042	Sodium	8.8 (1)	mg/L	0.4	05/02	GI HNO3 Dig; ICAP 61E
Ni-T0042	Nickel	< 0.01	mg/L	0.01	05/02	GI HNO3 Dig; ICAP 61E
P__T0042	Phosphorus	< 0.04	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
Pb-T0042	Lead	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
S__T0042	Sulphur	6.8	mg/L	0.1	05/02	GI HNO3 Dig; ICAP 61E
Sb-T0042	Antimony	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E

Sample State : Fresh Water
Sampled on : 96/03/20 09:10

CONTINUED on page 3

13-Apr-96

ANALYTICAL REPORT
Form 10010506

Sampling site : NOSITE GALIANO ISLAND LANDFILL
Submitted by : Outsell Pond.

Zenon ID : 96006949

Sparcode	Parameter		Unit	MDC	Media	Workroute
Se-T0042	Selenium	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
Si-T0042	Silicon	6.7	mg/L	0.8	05/02	GI HNO3 Dig; ICAP 61E
Sn-T0042	Tin	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Sr-T0042	Strontium	0.076	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E
Te-T0042	Tellurium	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Ti-T0042	Titanium	0.005	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E
Tl-T0042	Thallium	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
V--T0042	Vanadium	< 0.003	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E
Zn-T0042	Zinc	< 0.01	mg/L	0.01	05/02	GI HNO3 Dig; ICAP 61E
Zr-T0042	Zirconium	< 0.003	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E
Ca-D0031	Calcium Dissolved	12.2	mg/L	0.01	05/13	ICAP 61E Analysis
K__D0031	Potassium Dissolved	0.6	mg/L	0.4	35/01	ICAP 61E Analysis
Mg-D0031	Magnesium Dissolved	3.64	mg/L	0.02	05/13	ICAP 61E Analysis
Na_D0031	Sodium Dissolved	8.81	mg/L	0.01	35/01	ICAP 61E Analysis

Sample State : Fresh Water
Sampled on : 96/03/20 09:10

Result comments and/or text results :

(1) Diss > Total, within precision of analytical method.

Galiano Landfill, Galiano Island PR-5559
(Closed October 31, 1991)

Site 3- Bellhouse Well						Water Quality Criteria	
	Feb-16-94	Jul-13-95	Oct-17-95	Mar-20-96		Drinking Water	FW Aquatic Life
S3- Conductivity (uS/cm)	160	152	159	121		700	
S3- Total Dissolved Solids (mg/L)				118		500	
S3- COD (mg/L)				15			
S3- Chloride, dissolved (mg/L)	10.9	20.5	11.4	8.9		250	
S3- Sodium, dissolved (mg/L)	9.07	10.6	9.15	8.3		200	
S3- Sulphate (mg/L)				6.9		500	100
S3- Calcium (mg/L)	13	14.8	13.2	10.4			4-8

Site 4- Burdge Well						Water Quality Criteria	
	Feb-16-94	Jul-13-95	Oct-17-95	Mar-20-96		Drinking Water	FW Aquatic Life
S4- Conductivity (uS/cm)	351	336	374	398		700	
S4- Total Dissolved Solids (mg/L)				240		500	
S4- COD (mg/L)				11			
S4- Chloride, dissolved (mg/L)		10.5	8.8	11.1		250	
S4- Sodium, dissolved (mg/L)		18.6	17	20.7		200	
S4- Sulphate (mg/L)				10.9		500	100
S4- Calcium (mg/L)		57	52.8	61.2			4-8

Site 5- Outsell Well						Water Quality Criteria	
	Feb-16-94	Jul-13-95	Oct-17-95	Mar-20-96		Drinking Water	FW Aquatic Life
S5- Conductivity (uS/cm)	329	353	398	353		700	
S5- Total Dissolved Solids (mg/L)				200		500	
S5- COD (mg/L)				<10			
S5- Chloride, dissolved (mg/L)	9.7	9.4	9.7	9.6		250	
S5- Sodium, dissolved (mg/L)		21	18.2	21.5		200	
S5- Sulphate (mg/L)				9		500	100
S5- Calcium (mg/L)		48.5	48.6	39.7			4-8

Site 3A- Bellhouse Pond						Water Quality Criteria	
			Oct-17-95	Mar-20-96		Drinking Water	FW Aquatic Life
S3A- Conductivity (uS/cm)			347	163		700	
S3A- Total Dissolved Solids (mg/L)				149		500	
S3A- COD (mg/L)				21			
S3A- Chloride, dissolved (mg/L)			31.4	21.8		250	
S3A- Sodium, dissolved (mg/L)			17.3	14.1		200	
S3A- Sulphate (mg/L)				11		500	100
S3A- Calcium (mg/L)			34.3	11.9			4-8

Site 5A- Outsell Pond						Water Quality Criteria	
			Oct-17-95	Mar-20-96		Drinking Water	FW Aquatic Life
S5A- Conductivity (uS/cm)			135	134		700	
S5A- Total Dissolved Solids (mg/L)				120		500	
S5A- COD (mg/L)				19			
S5A- Chloride, dissolved (mg/L)			9.3	10.3		250	
S5A- Sodium, dissolved (mg/L)			8.39	8.81		200	
S5A- Sulphate (mg/L)				17		500	100
S5A- Calcium (mg/L)			10.9	12.6			4-8
Site 6- Lot 17 Well						**Water Quality Criteria**	
	Feb-16-94					Drinking Water	FW Aquatic Life
S6- Conductivity (uS/cm)	239					700	
S6- Total Dissolved Solids (mg/L)	-					500	
S6- COD (mg/L)	-						
S6- Chloride, dissolved (mg/L)	5.7					250	
S6- Sodium, dissolved (mg/L)	48.9					200	
S6- Sulphate (mg/L)	-					500	100
S6- Calcium (mg/L)	9.78						4-8

File PR5559

11-Nov-95

ZENON ENVIRONMENTAL LABORATORIES
Certificate of Analysis

Reported To :

WASTE - VANCOUVER ISLAND Client Code CA

Waste Management Branch
Vancouver Island Region
2569 Kenworth Road
Nanaimo, BC V9T 4P7

Submitted By : SPIDEL A W
Phone : 751-3192

Requisition Forms :

	Zenon ID
Form 11031212 received on 19-OCT-1995 completed on 11-NOV-1995 containing sample(s)	95030070
	95030071
	95030072
	95030073
	95030074
	95030075

From sampling site NOSITE GALIANO LANDFILL

Remarks :

- All results are blank corrected except for Hi-Res MS data.
- 'MDC' = Minimum Detectable Concentration
- '<' = Less than MDC
- '---' = Not analyzed
- Solids results are based on dry weight except Volatile Organics, TPH and Biota Analyses.
- Organic analyses are not corrected for surrogate recoveries except for Isotope Dilution methods.

Methods used by Zenon are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', 17th Edition, published by the American Public Health Association, 1015 Fifteenth Street, NW, Washington, DC 20005, or on US EPA protocols found in the 'Test Methods For Evaluating Solid Waste, Physical/Chemical Method, SW846', 3rd Edition. Other procedures are based on methodologies accepted by the B.C. Ministry of Environment.

ANALYTICAL REPORT
Form 11031212

Sampling site : NOSITE GALIANO LANDFILL
Submitted by : SPIDEL A W

Zenon ID : 95030070

Sparcode	Parameter		Unit	MDC	Media	Workroute
00041220	pH	6.1	pH units	0.1	35/01	Automated pH Meter
00111160	Specific Conductance	16	uS/cm	1	35/01	Cond.Meter Siebold
0107CALC	Hardness Total	11.2	mg/L		--/--	Calculated Result
01021210	Alkalinity Total 4.5	4.1	mg/L	0.5	35/01	Automated Electrometer
11041330	Chloride Dissolved	0.6	mg/L	0.5	35/01	Auto. mercuric thiocyan.
0112CALC	Nitrogen Organic-Tot	1.23	mg/L		--/--	Calculated Result
0113136A	Nitrogen Kjel.Tot(N)	1.24	mg/L	0.04	35/01	HgSO4 Dig.Auto.Colour.
0114CALC	Nitrogen Total	1.24	mg/L		--/--	Calculated Result
11081351	Nitrogen Amm.Diss(N)	0.006	mg/L	0.005	35/01	Automated Bertholot meth
11091350	Nitro NO3+NO2 D	< 0.02	mg/L	0.02	35/01	Auto. Cadmium Reduction
1110CALC	Nitrogen NO3 Diss(N)	< 0.02	mg/L		--/--	Calculated Result
11111354	Nitrogen NO2 Diss(N)	< 0.005	mg/L	0.005	35/01	Auto. Diazotization
Ag-T0042	Silver	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
Al-T0042	Aluminum	7.92	mg/L	0.06	05/02	GI HNO3 Dig; ICAP 61E
As-T0042	Arsenic	< 0.04	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
B--T0042	Boron	0.11	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
Ba-T0042	Barium	0.048	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E
Be-T0042	Beryllium	< 0.001	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E
Bi-T0042	Bismuth	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Ca-T0042	Calcium	1.63	mg/L	0.05	05/02	GI HNO3 Dig; ICAP 61E
Cd-T0042	Cadmium	< 0.002	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Co-T0042	Cobalt	< 0.004	mg/L	0.004	05/02	GI HNO3 Dig; ICAP 61E
Cr-T0042	Chromium	0.010	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Cu-T0042	Copper	0.008	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Fe-T0042	Iron	7.35	mg/L	0.05	05/02	GI HNO3 Dig; ICAP 61E
K__T0042	Potassium	1.2	mg/L	0.4	05/02	GI HNO3 Dig; ICAP 61E
Mg-T0042	Magnesium	1.72	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Mn-T0042	Manganese	0.072	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Mo-T0042	Molybdenum	< 0.004	mg/L	0.004	05/02	GI HNO3 Dig; ICAP 61E
Na_T0042	Sodium	1.8	mg/L	0.4	05/02	GI HNO3 Dig; ICAP 61E
Ni-T0042	Nickel	< 0.01	mg/L	0.01	05/02	GI HNO3 Dig; ICAP 61E
P__T0042	Phosphorus	0.16	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
Pb-T0042	Lead	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
S__T0042	Sulphur	0.5	mg/L	0.1	05/02	GI HNO3 Dig; ICAP 61E
Sb-T0042	Antimony	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Se-T0042	Selenium	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
Si-T0042	Silicon	10.2	mg/L	0.8	05/02	GI HNO3 Dig; ICAP 61E
Sn-T0042	Tin	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Sr-T0042	Strontium	0.057	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E

Sample State : Fresh Water
Sampled on : 95/10/17 07:40

Sample 95030070 comment : SITE 1 LANDFILL POND

CONTINUED on page 3

ANALYTICAL REPORT
Form 11031212

Sampling site : NOSITE GALIANO LANDFILL
Submitted by : SPIDEL A W

Zenon ID : 95030070

Sparcode	Parameter		Unit	MDC	Media	Workroute
Te-T0042	Tellurium	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Ti-T0042	Titanium	0.496	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E
Tl-T0042	Thallium	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
V--T0042	Vanadium	0.019	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E
Zn-T0042	Zinc	0.02	mg/L	0.01	05/02	GI HNO3 Dig; ICAP 61E
Zr-T0042	Zirconium	< 0.003	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E
K__D0031	Potassium Dissolved	0.4	mg/L	0.4	35/01	ICAP 61E Analysis
Na_D0031	Sodium Dissolved	1.52	mg/L	0.01	35/01	ICAP 61E Analysis

Sample State : Fresh Water
Sampled on : 95/10/17 07:40

Sample 95030070 comment : SITE 1 LANDFILL POND

ANALYTICAL REPORT
Form 11031212

Sampling site : NOSITE GALIANO LANDFILL
Submitted by : SPIDEL A W

Zenon ID : 95030071

Sparcode	Parameter		Unit	MDC	Media	Workroute
00041220	pH	6.6	pH units	0.1	35/01	Automated pH Meter
00111160	Specific Conductance	159	uS/cm	1	35/01	Cond.Meter Siebold
0107CALC	Hardness Total	51.1	mg/L		--/--	Calculated Result
01021210	Alkalinity Total 4.5	45.2	mg/L	0.5	35/01	Automated Electrometer
11041330	Chloride Dissolved	11.4	mg/L	0.5	35/01	Auto. mercuric thiocyan.
0112CALC	Nitrogen Organic-Tot	0.22	mg/L		--/--	Calculated Result
0113136A	Nitrogen Kjel.Tot(N)	0.22	mg/L	0.04	35/01	HgSO4 Dig.Auto.Colour.
0114CALC	Nitrogen Total	1.36	mg/L		--/--	Calculated Result
11081351	Nitrogen Amm.Diss(N)	< 0.005	mg/L	0.005	35/01	Automated Bertholot meth
11091350	Nitro NO3+NO2 D	1.14	mg/L	0.02	35/01	Auto. Cadmium Reduction
1110CALC	Nitrogen NO3 Diss(N)	1.14	mg/L		--/--	Calculated Result
11111354	Nitrogen NO2 Diss(N)	< 0.005	mg/L	0.005	35/01	Auto. Diazotization
Ag-T0042	Silver	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
Al-T0042	Aluminum	0.13	mg/L	0.06	05/02	GI HNO3 Dig; ICAP 61E
As-T0042	Arsenic	< 0.04	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
B--T0042	Boron	< 0.04	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
Ba-T0042	Barium	0.003	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E
Be-T0042	Beryllium	< 0.001	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E
Bi-T0042	Bismuth	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Ca-T0042	Calcium	13.2	mg/L	0.05	05/02	GI HNO3 Dig; ICAP 61E
Cd-T0042	Cadmium	< 0.002	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Co-T0042	Cobalt	< 0.004	mg/L	0.004	05/02	GI HNO3 Dig; ICAP 61E
Cr-T0042	Chromium	< 0.002	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Cu-T0042	Copper	0.210	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Fe-T0042	Iron	0.10	mg/L	0.05	05/02	GI HNO3 Dig; ICAP 61E
K_T0042	Potassium	0.8	mg/L	0.4	05/02	GI HNO3 Dig; ICAP 61E
Mg-T0042	Magnesium	4.40	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Mn-T0042	Manganese	0.003	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Mo-T0042	Molybdenum	< 0.004	mg/L	0.004	05/02	GI HNO3 Dig; ICAP 61E
Na_T0042	Sodium	9.2	mg/L	0.4	05/02	GI HNO3 Dig; ICAP 61E
Ni-T0042	Nickel	< 0.01	mg/L	0.01	05/02	GI HNO3 Dig; ICAP 61E
P_T0042	Phosphorus	< 0.04	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
Pb-T0042	Lead	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
S_T0042	Sulphur	2.5	mg/L	0.1	05/02	GI HNO3 Dig; ICAP 61E
Sb-T0042	Antimony	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Se-T0042	Selenium	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
Si-T0042	Silicon	9.6	mg/L	0.8	05/02	GI HNO3 Dig; ICAP 61E
Sn-T0042	Tin	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Sr-T0042	Strontium	0.074	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E

Sample State : Fresh Water
Sampled on : 95/10/17 08:25

Sample 95030071 comment : SITE 2 BELL HOUSE Well

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ANALYTICAL REPORT
Form 11031212

Sampling site : NOSITE GALIANO LANDFILL
Submitted by : SPIDEL A W

Zenon ID : 95030071

Sparcode	Parameter		Unit	MDC	Media	Workroute
Te-T0042	Tellurium	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Ti-T0042	Titanium	0.005	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E
Tl-T0042	Thallium	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
V--T0042	Vanadium	< 0.003	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E
Zn-T0042	Zinc	0.14	mg/L	0.01	05/02	GI HNO3 Dig; ICAP 61E
Zr-T0042	Zirconium	< 0.003	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E
K__D0031	Potassium Dissolved	0.5	mg/L	0.4	35/01	ICAP 61E Analysis
Na_D0031	Sodium Dissolved	9.15	mg/L	0.01	35/01	ICAP 61E Analysis

Sample State : Fresh Water
Sampled on : 95/10/17 08:25

Sample 95030071 comment : SITE 2 BELL HOUSE

ANALYTICAL REPORT
Form 11031212

Sampling site : NOSITE GALIANO LANDFILL
Submitted by : SPIDEL A W

Zenon ID : 95030072

Sparcode	Parameter		Unit	MDC	Media	Workroute
00041220	pH	8.0	pH units	0.1	35/01	Automated pH Meter
00111160	Specific Conductance	347	uS/cm	1	35/01	Cond.Meter Siebold
0107CALC	Hardness Total	124	mg/L		--/--	Calculated Result
01021210	Alkalinity Total 4.5	109	mg/L	0.5	35/01	Automated Electrometer
11041330	Chloride Dissolved	31.4	mg/L	0.5	35/01	Auto. mercuric thiocyan.
0112CALC	Nitrogen Organic-Tot	0.76	mg/L		--/--	Calculated Result
0113136A	Nitrogen Kjel.Tot(N)	0.77	mg/L	0.04	35/01	HgSO4 Dig.Auto.Colour.
0114CALC	Nitrogen Total	0.77	mg/L		--/--	Calculated Result
11081351	Nitrogen Amm.Diss(N)	0.007	mg/L	0.005	35/01	Automated Bertholot meth
11091350	Nitro NO3+NO2 D	< 0.02	mg/L	0.02	35/01	Auto. Cadmium Reduction
1110CALC	Nitrogen NO3 Diss(N)	< 0.02	mg/L		--/--	Calculated Result
11111354	Nitrogen NO2 Diss(N)	< 0.005	mg/L	0.005	35/01	Auto. Diazotization
Ag-T0042	Silver	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
Al-T0042	Aluminum	0.26	mg/L	0.06	05/02	GI HNO3 Dig; ICAP 61E
As-T0042	Arsenic	< 0.04	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
B--T0042	Boron	< 0.04	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
Ba-T0042	Barium	0.021	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E
Be-T0042	Beryllium	< 0.001	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E
Bi-T0042	Bismuth	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Ca-T0042	Calcium	34.3	mg/L	0.05	05/02	GI HNO3 Dig; ICAP 61E
Cd-T0042	Cadmium	< 0.002	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Co-T0042	Cobalt	< 0.004	mg/L	0.004	05/02	GI HNO3 Dig; ICAP 61E
Cr-T0042	Chromium	< 0.002	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Cu-T0042	Copper	0.003	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Fe-T0042	Iron	0.63	mg/L	0.05	05/02	GI HNO3 Dig; ICAP 61E
K__T0042	Potassium	2.9 (1)	mg/L	0.4	05/02	GI HNO3 Dig; ICAP 61E
Mg-T0042	Magnesium	9.21	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Mn-T0042	Manganese	0.246	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Mo-T0042	Molybdenum	< 0.004	mg/L	0.004	05/02	GI HNO3 Dig; ICAP 61E
Na_T0042	Sodium	17.1 (1)	mg/L	0.4	05/02	GI HNO3 Dig; ICAP 61E
Ni-T0042	Nickel	< 0.01	mg/L	0.01	05/02	GI HNO3 Dig; ICAP 61E
P__T0042	Phosphorus	0.05	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
Pb-T0042	Lead	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
S__T0042	Sulphur	4.3	mg/L	0.1	05/02	GI HNO3 Dig; ICAP 61E
Sb-T0042	Antimony	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Se-T0042	Selenium	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
Si-T0042	Silicon	5.0	mg/L	0.8	05/02	GI HNO3 Dig; ICAP 61E
Sn-T0042	Tin	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Sr-T0042	Strontium	0.165	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E

Sample State : Fresh Water
Sampled on : 95/10/17 08:30

Sample 95030072 comment : SITE 3 BELL POND Bell house Pond.

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ANALYTICAL REPORT
Form 11031212

Sampling site : NOSITE GALIANO LANDFILL
Submitted by : SPIDEL A W

Zenon ID : 95030072

Sparcode	Parameter		Unit	MDC	Media	Workroute
Te-T0042	Tellurium	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Ti-T0042	Titanium	0.012	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E
Tl-T0042	Thallium	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
V--T0042	Vanadium	< 0.003	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E
Zn-T0042	Zinc	0.01	mg/L	0.01	05/02	GI HNO3 Dig; ICAP 61E
Zr-T0042	Zirconium	< 0.003	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E
K__D0031	Potassium Dissolved	3.1	mg/L	0.4	35/01	ICAP 61E Analysis
Na_D0031	Sodium Dissolved	17.3	mg/L	0.01	35/01	ICAP 61E Analysis

Sample State : Fresh Water
Sampled on : 95/10/17 08:30

Sample 95030072 comment : SITE 3 BELL POND

Result comments and/or text results :

(1) Diss > Total, within precision of analytical method.

ANALYTICAL REPORT
Form 11031212

Sampling site : NOSITE GALIANO LANDFILL
Submitted by : SPIDEL A W

Zenon ID : 95030073

Sparcode	Parameter		Unit	MDC	Media	Workroute
00041220	pH	7.9	pH units	0.1	35/01	Automated pH Meter
00111160	Specific Conductance	374	uS/cm	1	35/01	Cond.Meter Siebold
0107CALC	Hardness Total	150	mg/L		--/--	Calculated Result
01021210	Alkalinity Total 4.5	170	mg/L	0.5	35/01	Automated Electrometer
11041330	Chloride Dissolved	8.8	mg/L	0.5	35/01	Auto. mercuric thiocyan.
0112CALC	Nitrogen Organic-Tot	< 0.04	mg/L		--/--	Calculated Result
0113136A	Nitrogen Kjel.Tot(N)	< 0.04	mg/L	0.04	35/01	HgSO4 Dig.Auto.Colour.
0114CALC	Nitrogen Total	< 0.06	mg/L		--/--	Calculated Result
11081351	Nitrogen Amm.Diss(N)	< 0.005	mg/L	0.005	35/01	Automated Bertholot meth
11091350	Nitro NO3+NO2 D	< 0.02	mg/L	0.02	35/01	Auto. Cadmium Reduction
1110CALC	Nitrogen NO3 Diss(N)	< 0.02	mg/L		--/--	Calculated Result
11111354	Nitrogen NO2 Diss(N)	< 0.005	mg/L	0.005	35/01	Auto. Diazotization
Ag-T0042	Silver	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
Al-T0042	Aluminum	< 0.06	mg/L	0.06	05/02	GI HNO3 Dig; ICAP 61E
As-T0042	Arsenic	< 0.04	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
B--T0042	Boron	< 0.04	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
Ba-T0042	Barium	< 0.001	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E
Be-T0042	Beryllium	< 0.001	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E
Bi-T0042	Bismuth	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Ca-T0042	Calcium	52.8	mg/L	0.05	05/02	GI HNO3 Dig; ICAP 61E
Cd-T0042	Cadmium	< 0.002	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Co-T0042	Cobalt	< 0.004	mg/L	0.004	05/02	GI HNO3 Dig; ICAP 61E
Cr-T0042	Chromium	< 0.002	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Cu-T0042	Copper	0.005	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Fe-T0042	Iron	< 0.05	mg/L	0.05	05/02	GI HNO3 Dig; ICAP 61E
K__T0042	Potassium	< 0.4	mg/L	0.4	05/02	GI HNO3 Dig; ICAP 61E
Mg-T0042	Magnesium	4.33	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Mn-T0042	Manganese	0.136	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Mo-T0042	Molybdenum	< 0.004	mg/L	0.004	05/02	GI HNO3 Dig; ICAP 61E
Na_T0042	Sodium	17.1	mg/L	0.4	05/02	GI HNO3 Dig; ICAP 61E
Ni-T0042	Nickel	< 0.01	mg/L	0.01	05/02	GI HNO3 Dig; ICAP 61E
P__T0042	Phosphorus	< 0.04	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
Pb-T0042	Lead	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
S__T0042	Sulphur	3.2	mg/L	0.1	05/02	GI HNO3 Dig; ICAP 61E
Sb-T0042	Antimony	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Se-T0042	Selenium	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
Si-T0042	Silicon	10.1	mg/L	0.8	05/02	GI HNO3 Dig; ICAP 61E
Sn-T0042	Tin	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Sr-T0042	Strontium	0.072	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E

Sample State : Fresh Water
Sampled on : 95/10/17 08:50

Sample 95030073 comment : SITE 4 BURDGE HOUSE well

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ANALYTICAL REPORT
Form 11031212

Sampling site : NOSITE GALIANO LANDFILL
Submitted by : SPIDEL A W

Zenon ID : 95030073

Sparcode	Parameter		Unit	MDC	Media	Workroute
Te-T0042	Tellurium	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Ti-T0042	Titanium	< 0.003	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E
Tl-T0042	Thallium	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
V--T0042	Vanadium	< 0.003	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E
Zn-T0042	Zinc	0.13	mg/L	0.01	05/02	GI HNO3 Dig; ICAP 61E
Zr-T0042	Zirconium	< 0.003	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E
K__D0031	Potassium Dissolved	< 0.4	mg/L	0.4	35/01	ICAP 61E Analysis
Na_D0031	Sodium Dissolved	17.0	mg/L	0.01	35/01	ICAP 61E Analysis

Sample State : Fresh Water
Sampled on : 95/10/17 08:50

Sample 95030073 comment : SITE 4 BURDGE HOUSE

ANALYTICAL REPORT
Form 11031212

Sampling site : NOSITE GALIANO LANDFILL
Submitted by : SPIDEL A W

Zenon ID : 95030074

Sparcode	Parameter		Unit	MDC	Media	Workroute
00041220	pH	7.7	pH units	0.1	35/01	Automated pH Meter
00111160	Specific Conductance	398	uS/cm	1	35/01	Cond.Meter Siebold
0107CALC	Hardness Total	166	mg/L		--/--	Calculated Result
01021210	Alkalinity Total 4.5	180	mg/L	0.5	35/01	Automated Electrometer
11041330	Chloride Dissolved	9.7	mg/L	0.5	35/01	Auto. mercuric thiocyan.
0112CALC	Nitrogen Organic-Tot	< 0.04	mg/L		--/--	Calculated Result
0113136A	Nitrogen Kjel.Tot(N)	< 0.04	mg/L	0.04	35/01	HgSO4 Dig.Auto.Colour.
0114CALC	Nitrogen Total	< 0.06	mg/L		--/--	Calculated Result
11081351	Nitrogen Amm.Diss(N)	< 0.005	mg/L	0.005	35/01	Automated Bertholot meth
11091350	Nitro NO3+NO2 D	< 0.02	mg/L	0.02	35/01	Auto. Cadmium Reduction
1110CALC	Nitrogen NO3 Diss(N)	< 0.02	mg/L		--/--	Calculated Result
11111354	Nitrogen NO2 Diss(N)	< 0.005	mg/L	0.005	35/01	Auto. Diazotization
Ag-T0042	Silver	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
Al-T0042	Aluminum	< 0.06	mg/L	0.06	05/02	GI HNO3 Dig; ICAP 61E
As-T0042	Arsenic	< 0.04	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
B--T0042	Boron	< 0.04	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
Ba-T0042	Barium	0.003	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E
Be-T0042	Beryllium	< 0.001	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E
Bi-T0042	Bismuth	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Ca-T0042	Calcium	48.6	mg/L	0.05	05/02	GI HNO3 Dig; ICAP 61E
Cd-T0042	Cadmium	< 0.002	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Co-T0042	Cobalt	< 0.004	mg/L	0.004	05/02	GI HNO3 Dig; ICAP 61E
Cr-T0042	Chromium	< 0.002	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Cu-T0042	Copper	0.003	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Fe-T0042	Iron	0.06	mg/L	0.05	05/02	GI HNO3 Dig; ICAP 61E
K_T0042	Potassium	0.6	mg/L	0.4	05/02	GI HNO3 Dig; ICAP 61E
Mg-T0042	Magnesium	10.8	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Mn-T0042	Manganese	0.057	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Mo-T0042	Molybdenum	< 0.004	mg/L	0.004	05/02	GI HNO3 Dig; ICAP 61E
Na_T0042	Sodium	19.4	mg/L	0.4	05/02	GI HNO3 Dig; ICAP 61E
Ni-T0042	Nickel	< 0.01	mg/L	0.01	05/02	GI HNO3 Dig; ICAP 61E
P_T0042	Phosphorus	< 0.04	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
Pb-T0042	Lead	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
S_T0042	Sulphur	3.3	mg/L	0.1	05/02	GI HNO3 Dig; ICAP 61E
Sb-T0042	Antimony	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Se-T0042	Selenium	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
Si-T0042	Silicon	11.3	mg/L	0.8	05/02	GI HNO3 Dig; ICAP 61E
Sn-T0042	Tin	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Sr-T0042	Strontium	0.094	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E

Sample State : Fresh Water
Sampled on : 95/10/17 09:00

Sample 95030074 comment : SITE 5 OUTSELL WELL

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ANALYTICAL REPORT
Form 11031212

Sampling site : NOSITE GALIANO LANDFILL
Submitted by : SPIDEL A W

Zenon ID : 95030074

Sparcode	Parameter		Unit	MDC	Media	Workroute
Te-T0042	Tellurium	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Ti-T0042	Titanium	< 0.003	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E
Tl-T0042	Thallium	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
V--T0042	Vanadium	< 0.003	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E
Zn-T0042	Zinc	0.03	mg/L	0.01	05/02	GI HNO3 Dig; ICAP 61E
Zr-T0042	Zirconium	< 0.003	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E
K__D0031	Potassium Dissolved	< 0.4	mg/L	0.4	35/01	ICAP 61E Analysis
Na_D0031	Sodium Dissolved	18.2	mg/L	0.01	35/01	ICAP 61E Analysis

Sample State : Fresh Water
Sampled on : 95/10/17 09:00

Sample 95030074 comment : SITE 5 OUTSELL WELL

ANALYTICAL REPORT
Form 11031212

Sampling site : NOSITE GALIANO LANDFILL
Submitted by : SPIDEL A W

Zenon ID : 95030075

Sparcode	Parameter		Unit	MDC	Media	Workroute
00041220	pH	7.2	pH units	0.1	35/01	Automated pH Meter
00111160	Specific Conductance	135	uS/cm	1	35/01	Cond.Meter Siebold
0107CALC	Hardness Total	42.8	mg/L		--/--	Calculated Result
01021210	Alkalinity Total 4.5	41.7	mg/L	0.5	35/01	Automated Electrometer
11041330	Chloride Dissolved	9.3	mg/L	0.5	35/01	Auto. mercuric thiocyan.
0112CALC	Nitrogen Organic-Tot	0.47	mg/L		--/--	Calculated Result
0113136A	Nitrogen Kjel.Tot(N)	0.50	mg/L	0.04	35/01	HgSO4 Dig.Auto.Colour.
0114CALC	Nitrogen Total	0.50	mg/L		--/--	Calculated Result
11081351	Nitrogen Amm.Diss(N)	0.033	mg/L	0.005	35/01	Automated Bertholot meth
11091350	Nitro NO3+NO2 D	< 0.02	mg/L	0.02	35/01	Auto. Cadmium Reduction
1110CALC	Nitrogen NO3 Diss(N)	< 0.02	mg/L		--/--	Calculated Result
11111354	Nitrogen NO2 Diss(N)	< 0.005	mg/L	0.005	35/01	Auto. Diazotization
Ag-T0042	Silver	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
Al-T0042	Aluminum	0.16	mg/L	0.06	05/02	GI HNO3 Dig; ICAP 61E
As-T0042	Arsenic	< 0.04	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
B--T0042	Boron	< 0.04	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
Ba-T0042	Barium	0.004	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E
Be-T0042	Beryllium	< 0.001	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E
Bi-T0042	Bismuth	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Ca-T0042	Calcium	10.9	mg/L	0.05	05/02	GI HNO3 Dig; ICAP 61E
Cd-T0042	Cadmium	< 0.002	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Co-T0042	Cobalt	< 0.004	mg/L	0.004	05/02	GI HNO3 Dig; ICAP 61E
Cr-T0042	Chromium	< 0.002	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Cu-T0042	Copper	< 0.002	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Fe-T0042	Iron	0.65	mg/L	0.05	05/02	GI HNO3 Dig; ICAP 61E
K__T0042	Potassium	0.5 (1)	mg/L	0.4	05/02	GI HNO3 Dig; ICAP 61E
Mg-T0042	Magnesium	3.79	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Mn-T0042	Manganese	0.038	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Mo-T0042	Molybdenum	< 0.004	mg/L	0.004	05/02	GI HNO3 Dig; ICAP 61E
Na_T0042	Sodium	8.9	mg/L	0.4	05/02	GI HNO3 Dig; ICAP 61E
Ni-T0042	Nickel	< 0.01	mg/L	0.01	05/02	GI HNO3 Dig; ICAP 61E
P__T0042	Phosphorus	< 0.04	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
Pb-T0042	Lead	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
S__T0042	Sulphur	2.1	mg/L	0.1	05/02	GI HNO3 Dig; ICAP 61E
Sb-T0042	Antimony	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Se-T0042	Selenium	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
Si-T0042	Silicon	4.1	mg/L	0.8	05/02	GI HNO3 Dig; ICAP 61E
Sn-T0042	Tin	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Sr-T0042	Strontium	0.062	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E

Sample State : Fresh Water
Sampled on : 95/10/17 09:10

Outfall Pond

Sample 95030075 comment : SITE 6 TWO CABIN POND

CONTINUED on page 13

ANALYTICAL REPORT
Form 11031212

Sampling site : NOSITE GALIANO LANDFILL
Submitted by : SPIDEL A W

Zenon ID : 95030075

Sparcode	Parameter		Unit	MDC	Media	Workroute
Te-T0042	Tellurium	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Ti-T0042	Titanium	0.008	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E
Tl-T0042	Thallium	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
V--T0042	Vanadium	< 0.003	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E
Zn-T0042	Zinc	0.02	mg/L	0.01	05/02	GI HNO3 Dig; ICAP 61E
Zr-T0042	Zirconium	< 0.003	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E
K__D0031	Potassium Dissolved	0.6	mg/L	0.4	35/01	ICAP 61E Analysis
Na_D0031	Sodium Dissolved	8.39	mg/L	0.01	35/01	ICAP 61E Analysis

Sample State : Fresh Water
Sampled on : 95/10/17 09:10

Sample 95030075 comment : SITE 6 TWO CABIN POND

Result comments and/or text results :

(1) Diss > Total, within precision of analytical method.

File. PR5559

JR LABORATORIES INC.

A British Columbia Government Designated and Certified Dairy and Food Laboratory

OCT 31 1995

ANALYSIS CERTIFICATE

REPORTED TO: Mr. Al Spidel
Ministry of Environment, Land & Parks
Environmental Protection Branch
Nanaimo - Van. Island Regional
2569 Kenworth Road
Nanaimo, B.C.
V9T 4P7

Date Shipped Oct. 17, 1995

Date Received Oct. 19, 1995

Temperature on Receipt 5 oC

CLIENT CODE: CA

Page No. 1 of 2

LAB. FILE NO. : ME001953934-1

Sample Identification				

REPORT DATE: Oct. 27, 1995 CUSTOMER No.: ME001 SUBMITTED BY: Al Spidel PHONE: (604) 751-3192

REQUISITION FORMS: JR LAB ID

1. Form 10031211 received on 19 Oct. 1995 completed on 23 Oct. 1995 containing sample(s) 1. ME001953934-1
   From sampling site ** - #1 - Galiand Landfill - Landfill Pond SITE ID: **
   From sampling site ** - #2 - Galiand Landfill - Bell House SITE ID: **
   From sampling site ** - #4 - Galiand Landfill - Burdge House SITE ID: **
   From sampling site ** - #5 - Galiand Landfill - Outsell Well SITE ID: **
   From sampling site ** - #6 - Galiand Landfill -Two Cabin Pond SITE ID: **

ANALYTICAL REPORT:

SPARCODE	PARAMETER		UNIT	MDL	MEDIA	WORKROUTE	SITE & TIME
0451X022	Coliform - Total - MF	17300	CFU/100ml	0	30/01	Membrane Filter Count-EL	#1 - 07:40
0450X022	Coliform - Fecal - MF	12500	CFU/100ml	0	31/01	Membrame Filter Count-EL	#1 - 07:40
0451X022	Coliform - Total - MF	68	CFU/100ml	0	30/01	Membrane Filter Count-EL	#2 - 08:25
0450X022	Coliform - Fecal - MF	31	CFU/100ml	0	31/01	Membrame Filter Count-EL	#2 - 08:25
0451X022	Coliform - Total - MF	<1	CFU/100ml	0	30/01	Membrane Filter Count-EL	#4 - 08:50
0450X022	Coliform - Fecal - MF	<1	CFU/100ml	0	31/01	Membrame Filter Count-EL	#4 - 08:5
0451X022	Coliform - Total - MF	<1	CFU/100ml	0	30/01	Membrane Filter Count-EL	#5 - 09:00
0450X022	Coliform - Fecal - MF	<1	CFU/100ml	0	31/01	Membrame Filter Count-EL	#5 - 09:00
0451X022	Coliform - Total - MF	400	CFU/100ml	0	30/01	Membrane Filter Count-EL	#6 - 09:10
0450X022	Coliform - Fecal - MF	8	CFU/100ml	0	31/01	Membrame Filter Count-EL	#6 - 09:10

Sample State: Fresh Water Sample Type: Regular
Sampled on : 95/10/17 07:40 to 09:10

REMARKS:

MFC agar - sterile Rinse water - sterile Positive control - good growth Negative control - no growth
EC - sterile LTB - sterile Membrane filter - sterile FC - Duplicate: 5

METHODOLOGY:

Methods used by JR Laboratories Inc. are based upon those found in "Standard Methods for the Examination of Water and Wastewater", 18th Edition, published by the American Public Health Association, 1015 Fifteenth Street, NW, Washington, DC 20005, or on ENV 93.

ISO 9002 REGISTERED

INSPECTION AND/OR ANALYSIS HAS BEEN PERFORMED USING GOOD LABORATORY PRACTICE AND PROCEDURES. JR LABORATORIES LIABILITY IS LIMITED TO THE TESTING FEE PAID.

VERSION 1.1

Analyst

#12 - 3871 North Fraser Way, Burnaby, B.C., Canada V5J 5G6
Telephone: (604) 432-9311 Fax: (604) 432-7768

Galiano Club PR-5559
Comparison of Water Sampling Analyses Dated 17 Feb 94 and 14 Jul 95

Site Location		
	Site 3	G. Bellhouse
	Site 4	Pattison Lk Gray House (Burns)
	Site 5	Pattison Lk (Outsell)

Parameter	Unit	Site 3		Site 4		Site 5		Criteria for Drinking Water
		17-Feb-94	14-Jul-95	17-Feb-94	14-Jul-95	17-Feb-94	14-Jul-95	
pH	pH units	6.5	**6.4**	7.7	7.6	7.6	7.3	6.5 - 8.5
Sp. Conductance	uS/cm	160	152	351	336	329	353	700
Residue Total	mg/L		130		248		270	500 (total dissolved solids)
Alkalinity Total 4.5	mg/L CaCO3		40.7		174		189	30-250 Food Processing (varies w process)
Hardness Total	mg/L CaCO3	50.9	57.1	167	162	139	164	100 Acceptable, >200 poor but tolerable
Chloride diss.	mg/L Cl	10.9	20.5	10.1	10.5	9.7	9.4	250
Nitrogen Amm. Diss	mg/L N	0.006	<0.005	0.115	<0.005	0.008	<0.005	no criteria specified
NO3+NO2	mg/L as N	0.89	0.74	<0.02	<0.02	0.17	<0.02	10
NO3 Diss (N)	mg/L as N	0.89	0.73	<0.02	<0.02	0.17	<0.02	10
NO2 Diss (N)	mg/L as N	<0.005	0.008	<0.005	<0.005	<0.005	<0.005	1
Silver	mg/L Ag	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	no criteria specified
Aluminum	mg/L Al	**0.23**	<0.06	<0.06	<0.06	<0.06	<0.06	0.2
Arsenic	mg/L As	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	.025 (proposed)
Boron	mg/L B	<0.04	0.05	<0.04	0.06	<0.04	0.1	5
Barium	mg/L Ba	0.002	0.002	<0.001	<0.001	0.003	0.002	1
Beryllium	mg/L Be	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	no criteria specified
Bismuth	mg/L Bi	0.02	<0.02	0.02	<0.02	<0.02	<0.02	no criteria specified
Calcium	mg/L Ca	13	14.8	59.2	57	40.4	48.5	20 -100 food processing
Cadmium	mg/L Cd	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.005
Cobalt	mg/L Co	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	no criteria specified
Chromium	mg/L Cr	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.05
Copper	mg/L Cu	0.305	0.183	0.004	0.005	0.018	0.072	0.5
Iron	mg/L Fe	0.14	0.11	**3.16**	<0.05	<0.05	0.11	3
Potassium	mg/L K	0.5	0.6	<0.4	<0.4	<0.4	<0.4	no criteria specified
Magnesium	mg/L Mg		4.88		4.74		10.4	>700 laxative effect
Manganese	mg/L Mn	0.005	0.003	**0.18**	**0.118**	0.01	0.015	0.05
Molybdenum	mg/L Mo	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.25
Sodium	mg/L Na	8.7	10.4	18.4	18.1	16.9	20.2	no criteria specified

Parameter	Unit	Site 3		Site 4		Site 5		Criteria
Phosphorus	mg/L P	**<0.04**	**<0.04**	**0.06**	**<0.04**	**<0.04**	**<0.04**	0.01
Lead	mg/L Pb	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.05
Sulphur	mg/L S	2.8	3.1	5.4	4.3	3.3	3.2	no criteria specified
Antimony	mg/L Sb	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	0.006
Selenium	mg/L Se	**<0.03**	**<0.03**	**<0.03**	**<0.03**	**<0.03**	**<0.03**	0.01
Silicon	mg/L Si	10.8	10.5	11.6	11.6	10.3	12.4	no criteria specified
Tin	mg/L Sn	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	no criteria specified
Strontium	mg/L Sr	0.066	0.083	0.079	0.079	0.081	<0.099	no criteria specified
Tellurium	mg/L Te	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	no criteria specified
Titanium	mg/L Ti	0.009	<0.003	0.003	<0.003	<0.003	<0.003	0.1
Thallium	mg/L Tl	**<0.03**	**<0.03**	**<0.03**	**<0.03**	**<0.03**	**<0.03**	0.013
Vanadium	mg/L V	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.1
Zinc	mg/L Zn	0.06	0.05	0.05	0.14	0.08	0.02	5
Zirconium	mg/L Zr	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	no criteria specified
Potassium Dissolved	mg/L K	0.7	0.8	0.5	<0.04	0.7	0.5	20
Sodium Dissolved	mg/L Na	9.07	10.6	19.6	18.6	17.8	**21**	20 Drinking :restricted diet 200 aesthetic
Coliform - Fecal	CFU/100ml	10	0	0	0	0	0	>100: complete treatment req'd

*Note: Total Iron is often high due to suspended sediment, thus not considered significant

All instances of sample readings exceeding criteria are noted in bold scri Those parameters clearly exceeding criteria for drinking water are noted below.

Aluminum Manganese Phosphorus: Site 4

Those parameters for which MDC exceeds criteria are:

Antimony Phosphorus Titanium
Selenium Thallium

Site 3 currently shows a pH reading marginally below acceptable parameters.

Reference: BC Environment: Approved and Working Criteria for Water Quality, 1995.

ZENON ENVIRONMENTAL LABORATORIES
Certificate of Analysis

Reported To :

WASTE - VANCOUVER ISLAND Client Code CA

Waste Management Branch
Vancouver Island Region
2569 Kenworth Road
Nanaimo, BC V9T 4P7

Submitted By : SPIDEL A W
FAX : A. SPIDEL
Phone : 751-3192

Requisition Forms :

	Zenon ID
Form 20003875 received on 29-AUG-1995 completed on 9-SEP-1995 containing sample(s)	95024123
	95024124
	95024125

From sampling site NOSITE WELL WATER

Remarks :

- All results are blank corrected except for Hi-Res MS data.
- 'MDC' = Minimum Detectable Concentration
- '<' = Less than MDC
- '---' = Not analyzed
- Solids results are based on dry weight except Volatile Organics, TPH and Biota Analyses.
- Organic analyses are not corrected for surrogate recoveries except for Isotope Dilution methods.

Methods used by Zenon are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', 17th Edition, published by the American Public Health Association, 1015 Fifteenth Street, NW, Washington, DC 20005, or on US EPA protocols found in the 'Test Methods For Evaluating Solid Waste, Physical/Chemical Method, SW846', 3rd Edition. Other procedures are based on methodologies accepted by the B.C. Ministry of Environment.

09-Sep-95

ANALYTICAL REPORT
Form 20003875

Sampling site : NOSITE WELL WATER
Submitted by : SPIDEL A W

Zenon ID : 95024123

Sparcode	Parameter		Unit	MDC	Media	Workroute
0107CALC	Hardness Total	57.1	mg/L		--/--	Calculated Result
Ag-T0042	Silver	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
Al-T0042	Aluminum	0.06	mg/L	0.06	05/02	GI HNO3 Dig; ICAP 61E
As-T0042	Arsenic	< 0.04	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
B--T0042	Boron	0.05	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
Ba-T0042	Barium	0.002	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E
Be-T0042	Beryllium	< 0.001	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E
Bi-T0042	Bismuth	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Ca-T0042	Calcium	14.8	mg/L	0.05	05/02	GI HNO3 Dig; ICAP 61E
Cd-T0042	Cadmium	< 0.002	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Co-T0042	Cobalt	< 0.004	mg/L	0.004	05/02	GI HNO3 Dig; ICAP 61E
Cr-T0042	Chromium	< 0.002	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Cu-T0042	Copper	0.183	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Fe-T0042	Iron	0.11	mg/L	0.05	05/02	GI HNO3 Dig; ICAP 61E
K__T0042	Potassium	0.6	mg/L	0.4	05/02	GI HNO3 Dig; ICAP 61E
Mg-T0042	Magnesium	4.88	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Mn-T0042	Manganese	0.003	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Mo-T0042	Molybdenum	< 0.004	mg/L	0.004	05/02	GI HNO3 Dig; ICAP 61E
Na_T0042	Sodium	10.4	mg/L	0.4	05/02	GI HNO3 Dig; ICAP 61E
Ni-T0042	Nickel	< 0.01	mg/L	0.01	05/02	GI HNO3 Dig; ICAP 61E
P__T0042	Phosphorus	< 0.04	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
Pb-T0042	Lead	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
S__T0042	Sulphur	3.1	mg/L	0.1	05/02	GI HNO3 Dig; ICAP 61E
Sb-T0042	Antimony	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Se-T0042	Selenium	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
Si-T0042	Silicon	10.5	mg/L	0.8	05/02	GI HNO3 Dig; ICAP 61E
Sn-T0042	Tin	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Sr-T0042	Strontium	0.083	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E
Te-T0042	Tellurium	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Ti-T0042	Titanium	< 0.003	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E
Tl-T0042	Thallium	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
V--T0042	Vanadium	< 0.003	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E
Zn-T0042	Zinc	0.05	mg/L	0.01	05/02	GI HNO3 Dig; ICAP 61E
Zr-T0042	Zirconium	< 0.003	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E

Sample State : Fresh Water
Sampled on : 95/07/13 08:00

Sample 95024123 comment : BELL HOUSE

09-Sep-95

ANALYTICAL REPORT
Form 20003875

Sampling site : NOSITE WELL WATER
Submitted by : SPIDEL A W

Zenon ID : 95024124

Sparcode	Parameter		Unit	MDC	Media	Workroute
0107CALC	Hardness Total	162	mg/L		--/--	Calculated Result
Ag-T0042	Silver	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
Al-T0042	Aluminum	< 0.06	mg/L	0.06	05/02	GI HNO3 Dig; ICAP 61E
As-T0042	Arsenic	< 0.04	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
B--T0042	Boron	0.06	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
Ba-T0042	Barium	< 0.001	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E
Be-T0042	Beryllium	< 0.001	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E
Bi-T0042	Bismuth	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Ca-T0042	Calcium	57.0	mg/L	0.05	05/02	GI HNO3 Dig; ICAP 61E
Cd-T0042	Cadmium	< 0.002	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Co-T0042	Cobalt	< 0.004	mg/L	0.004	05/02	GI HNO3 Dig; ICAP 61E
Cr-T0042	Chromium	< 0.002	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Cu-T0042	Copper	0.005	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Fe-T0042	Iron	< 0.05	mg/L	0.05	05/02	GI HNO3 Dig; ICAP 61E
K__T0042	Potassium	< 0.4	mg/L	0.4	05/02	GI HNO3 Dig; ICAP 61E
Mg-T0042	Magnesium	4.74	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Mn-T0042	Manganese	0.118	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Mo-T0042	Molybdenum	< 0.004	mg/L	0.004	05/02	GI HNO3 Dig; ICAP 61E
Na_T0042	Sodium	18.1	mg/L	0.4	05/02	GI HNO3 Dig; ICAP 61E
Ni-T0042	Nickel	< 0.01	mg/L	0.01	05/02	GI HNO3 Dig; ICAP 61E
P__T0042	Phosphorus	< 0.04	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
Pb-T0042	Lead	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
S__T0042	Sulphur	4.3	mg/L	0.1	05/02	GI HNO3 Dig; ICAP 61E
Sb-T0042	Antimony	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Se-T0042	Selenium	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
Si-T0042	Silicon	11.6	mg/L	0.8	05/02	GI HNO3 Dig; ICAP 61E
Sn-T0042	Tin	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Sr-T0042	Strontium	0.079	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E
Te-T0042	Tellurium	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Ti-T0042	Titanium	< 0.003	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E
Tl-T0042	Thallium	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
V--T0042	Vanadium	< 0.003	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E
Zn-T0042	Zinc	0.14	mg/L	0.01	05/02	GI HNO3 Dig; ICAP 61E
Zr-T0042	Zirconium	< 0.003	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E

Sample State : Fresh Water
Sampled on : 95/07/13 08:15

Sample 95024124 comment : BURNS(?)

ANALYTICAL REPORT
Form 20003875

Sampling site : NOSITE WELL WATER
Submitted by : SPIDEL A W

Zenon ID : 95024125

Sparcode	Parameter		Unit	MDC	Media	Workroute
0107CALC	Hardness Total	164	mg/L		--/--	Calculated Result
Ag-T0042	Silver	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
Al-T0042	Aluminum	< 0.06	mg/L	0.06	05/02	GI HNO3 Dig; ICAP 61E
As-T0042	Arsenic	< 0.04	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
B--T0042	Boron	0.10	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
Ba-T0042	Barium	0.002	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E
Be-T0042	Beryllium	< 0.001	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E
Bi-T0042	Bismuth	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Ca-T0042	Calcium	48.5	mg/L	0.05	05/02	GI HNO3 Dig; ICAP 61E
Cd-T0042	Cadmium	< 0.002	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Co-T0042	Cobalt	< 0.004	mg/L	0.004	05/02	GI HNO3 Dig; ICAP 61E
Cr-T0042	Chromium	< 0.002	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Cu-T0042	Copper	0.072	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Fe-T0042	Iron	0.11	mg/L	0.05	05/02	GI HNO3 Dig; ICAP 61E
K__T0042	Potassium	< 0.4	mg/L	0.4	05/02	GI HNO3 Dig; ICAP 61E
Mg-T0042	Magnesium	10.4	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Mn-T0042	Manganese	0.015	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Mo-T0042	Molybdenum	< 0.004	mg/L	0.004	05/02	GI HNO3 Dig; ICAP 61E
Na_T0042	Sodium	20.2	mg/L	0.4	05/02	GI HNO3 Dig; ICAP 61E
Ni-T0042	Nickel	< 0.01	mg/L	0.01	05/02	GI HNO3 Dig; ICAP 61E
P__T0042	Phosphorus	< 0.04	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
Pb-T0042	Lead	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
S__T0042	Sulphur	3.2	mg/L	0.1	05/02	GI HNO3 Dig; ICAP 61E
Sb-T0042	Antimony	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Se-T0042	Selenium	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
Si-T0042	Silicon	12.4	mg/L	0.8	05/02	GI HNO3 Dig; ICAP 61E
Sn-T0042	Tin	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Sr-T0042	Strontium	0.099	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E
Te-T0042	Tellurium	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Ti-T0042	Titanium	< 0.003	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E
Tl-T0042	Thallium	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
V--T0042	Vanadium	< 0.003	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E
Zn-T0042	Zinc	0.02	mg/L	0.01	05/02	GI HNO3 Dig; ICAP 61E
Zr-T0042	Zirconium	< 0.003	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E

Sample State : Fresh Water
Sampled on : 95/07/13 08:20

Sample 95024125 comment : OUSTELL

Galiano Club PR-5559

Comparison of Water Sampling Analyses Dated 17 Feb 94 and 14 Jul 95

Site Location

Site 3	G. Bellhouse
Site 4	Pattison Lk Gray House (Burns)
Site 5	Pattison Lk (Outsell)

Parameter	Unit	Site 3		Site 4		Site 5		Criteria for Drinking Water
		17-Feb-94	14-Jul-95	17-Feb-94	14-Jul-95	17-Feb-94	14-Jul-95	
pH	pH units	6.5	**6.4**	7.7	7.6	7.6	7.3	6.5 - 8.5
Sp. Conductance	uS/cm	160	152	351	336	329	353	700
Residue Total	mg/L		130		248		270	500 (total dissolved solids)
Alkalinity Total 4.5	mg/L CaCO3		40.7		174		189	30-250 Food Processing (varies w process)
Hardness Total	mg/L CaCO3	50.9		167		139		100 Acceptable, >200 Tolerable
Chloride diss.	mg/L Cl	10.9	20.5	10.1	10.5	9.7	9.4	250
Nitrogen Amm. Diss	mg/L N	0.006	<0.005	0.115	<0.005	0.008	<0.005	no criteria specified
NO3+NO2	mg/L as N	0.89	0.74	<0.02	<0.02	0.17	<0.02	10
NO3 Diss (N)	mg/L as N	0.89	0.73	<0.02	<0.02	0.17	<0.02	10
NO2 Diss (N)	mg/L as N	<0.005	0.008	<0.005	<0.005	<0.005	<0.005	1
Silver	mg/L Ag	<0.03		<0.03		<0.03		no criteria specified
Aluminum	mg/L Al	**0.23**		<0.06		<0.06		0.2
Arsenic	mg/L As	<0.04		<0.04		<0.04		.025 (proposed)
Boron	mg/L B	<0.04		<0.04		<0.04		5
Barium	mg/L Ba	0.002		<0.001		0.003		1
Beryllium	mg/L Be	<0.001		<0.001		<0.001		no criteria specified
Bismuth	mg/L Bi	0.02		0.02		<0.02		no criteria specified
Calcium	mg/L Ca	13		59.2		40.4		20 -100 food processing
Cadmium	mg/L Cd	<0.002		<0.002		<0.002		0.005
Cobalt	mg/L Co	<0.004		<0.004		<0.004		no criteria specified
Chromium	mg/L Cr	<0.002		<0.002		<0.002		0.05
Copper	mg/L Cu	0.305		0.004		0.018		0.5
Iron	mg/L Fe	0.14		3.16		<0.05		>3 Drinking: note total Iron often high due to suspended sediment, thus not considered important
Potassium	mg/L K	0.5		<0.4		<0.4		no criteria specified
Manganese	mg/L Mn	0.005		0.18		0.01		0.05

Parameter	Unit	Site 3		Site 4		Site 5		Criteria
Molybdenum	mg/L Mo	<0.004		<0.004		<0.004		0.25
Sodium	mg/L Na	8.7		18.4		16.9		no criteria specified
Nickel	mg/L Ni	<0.01		<0.01		<0.01		0.2
Phosphorus	mg/L P	**<0.04**	0.003	**0.06**	**0.019**	**<0.04**	**0.031**	0.01
Lead	mg/L Pb	<0.03		<0.03		<0.03		0.05
Sulphur	mg/L S	2.8		5.4		3.3		no criteria specified
Antimony	mg/L Sb	<0.02		**<0.02**		**<0.02**		0.006
Selenium	mg/L Se	**<0.03**		**<0.03**		**<0.03**		0.01
Silicon	mg/L Si	10.8		11.6		10.3		no criteria specified
Tin	mg/L Sn	<0.02		<0.02		<0.02		no criteria specified
Strontium	mg/L Sr	0.066		0.079		0.081		no criteria specified
Tellurium	mg/L Te	<0.02		<0.02		<0.02		no criteria specified
Titanium	mg/L Ti	0.009		0.003		<0.003		0.1
Thallium	mg/L Tl	**<0.03**		**<0.03**		**<0.03**		0.013
Vanadium	mg/L V	<0.003		<0.003		<0.003		0.1
Zinc	mg/L Zn	0.06		0.05		0.08		5
Zirconium	mg/L Zr	<0.003		<0.003		<0.003		no criteria specified
Potassium Dissolved	mg/L K	0.7	0.8	0.5	<0.04	0.7	0.5	20
Sodium Dissolved	mg/L Na	9.07	10.6	19.6	18.6	17.8	**21**	20 Drinking :restricted diet 200 aesthetic
Coliform - Fecal	CFU/100ml	10	0	0	0	0	0	>100: complete treatment req'd

All instances of sample readings exceeding criteria are noted in bold script. Some excessive readings due to sampling technique (smallest reading exceeded criteria). Those parameters clearly exceeding criteria for drinking water are noted below.

Aluminum	Phosphorus	Fecal Coliforms
Antimony	Selenium	Thallium

Site 3 currently shows a pH reading marginally below acceptable parameters.

Reference: BC Environment: Approved and Working Criteria for Water Quality, 1995.

Galiano Club PR-5559
Summary of Water Sampling Analysis Dated 17 Feb 94

Site Location				
	Site 1	North Side	**Site 4**	Pattison Lk Gray House
	Site 2	Northeast Pit	**Site 5**	Pattison Lk
	Site 3	G. Bellhouse	**Site 6**	Lot 17 Well

Parameter	Unit	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6	Criteria for Drinking Water
pH	pH units	7.1	6.3	6.5	7.7	7.6	8.2	6.5 - 8.5
Sp. Conductance	uS/cm	17	30	160	351	329	239	700 - Drinking
Hardness Total	mg/L CaCO3	6.1	9.4	50.9	167	**139**	25	100 Acceptable, <200 Tolerable
Chloride diss.	mg/L Cl	1.8	2.1	10.9	10.1	9.7	5.7	250
Nitrogen Amm. Diss	mg/L N	0.015	0.017	0.006	0.115	0.008	0.009	no criteria specified
NO3+NO2	mg/L as N	0.06	0.15	0.89	<0.02	0.17	0.02	10
NO3 Diss (N)	mg/L as N	0.05	0.15	0.89	<0.02	0.17	<0.02	10
NO2 Diss (N)	mg/L as N	0.007	<0.005	<0.005	<0.005	<0.005	0.011	1
Silver	mg/L Ag	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	no criteria specified
Aluminum	mg/L Al	**5.69**	**9.63**	**0.23**	<0.06	<0.06	<0.06	0.2
Arsenic	mg/L As	**<0.04**	**<0.04**	**<0.04**	**<0.04**	**<0.04**	**<0.04**	.025 (proposed)
Boron	mg/L B	0.06	0.06	<0.04	<0.04	<0.04	0.25	5
Barium	mg/L Ba	0.027	0.042	0.002	<0.001	0.003	<0.001	1
Beryllium	mg/L Be	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	no criteria specified
Bismuth	mg/L Bi	<0.02	<0.02	0.02	0.02	<0.02	<0.02	no criteria specified
Calcium	mg/L Ca	1.02	1.72	13	59.2	40.4	9.78	20 -100 food processing
Cadmium	mg/L Cd	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.005
Cobalt	mg/L Co	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	no criteria specified
Chromium	mg/L Cr	0.004	0.006	<0.002	<0.002	<0.002	<0.002	0.05
Copper	mg/L Cu	0.003	0.005	0.305	0.004	0.018	<0.002	0.5
Iron	mg/L Fe	**3.49**	**5.47**	0.14	3.16	<0.05	<0.05	high due to suspended sediment, thus not considered important
Potassium	mg/L K	1	0.5	0.5	<0.4	<0.4	<0.4	no criteria specified
Magnesium	mg/L Mg	0.86	1.24	4.47	4.7	9.2	0.14	>700: laxative effects
Manganese	mg/L Mn	0.025	0.035	0.005	**0.18**	0.01	<0.002	0.05

Parameter	Unit	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6	Criteria
Molybdenum	mg/L Mo	<0.004	<0.004	<0.004	<0.004	<0.004	0.006	0.25
Sodium	mg/L Na	1.6	2.5	8.7	18.4	16.9	48.1	no criteria specified
Nickel	mg/L Ni	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.2
Phosphorus	mg/L P	**0.06**	**0.1**	**<0.04**	**0.06**	**<0.04**	**<0.04**	0.01
Lead	mg/L Pb	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.05
Sulphur	mg/L S	0.4	1	2.8	5.4	3.3	1.7	no criteria specified
Antimony	mg/L Sb	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	0.006
Selenium	mg/L Se	**<0.03**	**<0.03**	**<0.03**	**<0.03**	**<0.03**	**<0.03**	0.01
Silicon	mg/L Si	8.8	14.8	10.8	11.6	10.3	4.8	no criteria specified
Tin	mg/L Sn	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	no criteria specified
Strontium	mg/L Sr	0.037	0.04	0.066	0.079	0.081	0.021	no criteria specified
Tellurium	mg/L Te	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	no criteria specified
Titanium	mg/L Ti	**0.353**	**0.563**	0.009	0.003	<0.003	<0.003	0.1
Thallium	mg/L Tl	**<0.03**	**<0.03**	**<0.03**	**<0.03**	**<0.03**	**<0.03**	0.013
Vanadium	mg/L V	0.009	0.017	<0.003	<0.003	<0.003	<0.003	0.1
Zinc	mg/L Zn	0.02	0.03	0.06	0.05	0.08	0.02	5
Zirconium	mg/L Zr	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	no criteria specified
Potassium Dissolved	mg/L K	0.6	0.6	0.7	0.5	0.7	<0.4	20
Sodium Dissolved	mg/L Na	1.42	2.52	9.07	19.6	17.8	**48.9**	20 Drinking :restricted diet 200 aesthetic
Coliform - Fecal	CFU/100ml	0	**10**	0	0	0	0	<10 disinfection only <100 partial treatment >100: complete treatment req'd

All instances of sample readings exceeding criteria are noted in bold script. Some excessive readings due to sampling technique (smallest reading exceeded criteria). Those parameters clearly exceeding criteria for drinking water are noted below.

Aluminum	Phosphorus	Fecal Coliforms
Manganese	Titanium	

Reference: BC Environment: Approved and Working Criteria for Water Quality, 1995.

PR 5559

26-Aug-95

ZENON ENVIRONMENTAL LABORATORIES
Certificate of Analysis

AUG 29 1995

Reported To :

WASTE - VANCOUVER ISLAND Client Code CA

Waste Management Branch
Vancouver Island Region
2569 Kenworth Road
Nanaimo, BC V9T 4P7

Submitted By : SPIDEL A W
Phone : 361-6241

Requisition Forms :

	Zenon ID
Form 20003867 received on 14-JUL-1995 completed on 26-AUG-1995 containing sample(s)	95018606
	95018607
	95018608

From sampling site NOSITE WELL WATER

Remarks :

- All results are blank corrected except for Hi-Res MS data.
- 'MDC' = Minimum Detectable Concentration
- '<' = Less than MDC
- '---' = Not analyzed
- Solids results are based on dry weight except Volatile Organics, TPH and Biota Analyses.
- Organic analyses are not corrected for surrogate recoveries except for Isotope Dilution methods.

Methods used by Zenon are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', 17th Edition, published by the American Public Health Association, 1015 Fifteenth Street, NW, Washington, DC 20005, or on US EPA protocols found in the 'Test Methods For Evaluating Solid Waste, Physical/Chemical Method, SW846', 3rd Edition. Other procedures are based on methodologies accepted by the B.C. Ministry of Environment.

ANALYTICAL REPORT
Form 20003867

Sampling site : NOSITE WELL WATER
Submitted by : SPIDEL A W

Zenon ID : 95018606

Sparcode	Parameter		Unit	MDC	Media	Workroute
00041220	pH	6.4	pH units	0.1	35/01	Automated pH Meter
00111160	Specific Conductance	152	uS/cm	1	35/01	Cond.Meter Siebold
00051034	Residue Total	130	mg/L	4	35/01	Grav. 105C - Total Res.
01021210	Alkalinity Total 4.5	40.7	mg/L	0.5	35/01	Automated Electrometer
11041330	Chloride Dissolved	20.5	mg/L	0.5	35/01	Auto. mercuric thiocyan.
11081351	Nitrogen Amm.Diss(N)	< 0.005	mg/L	0.005	35/01	Automated Bertholot meth
11091350	Nitro NO3+NO2 D	0.74	mg/L	0.02	35/01	Auto. Cadmium Reduction
1110CALC	Nitrogen NO3 Diss(N)	0.73	mg/L		--/--	Calculated Result
11111354	Nitrogen NO2 Diss(N)	0.008	mg/L	0.005	35/01	Auto. Diazotization
P--T139A	Phosphorus	0.003	mg/L	0.003	35/01	Pres.Dig.Auto.Ascorbic A
K_D0031	Potassium Dissolved	0.8	mg/L	0.4	35/01	ICAP 61E Analysis
Na_D0031	Sodium Dissolved	10.6	mg/L	0.01	35/01	ICAP 61E Analysis

Sample State : Fresh Water
Sampled on : 95/07/13 08:00

Sample 95018606 comment : BELLHOUSE - NO METALS BOTTLE SENT

METALS TO BE done on 35/01 See Na/K

ANALYTICAL REPORT
Form 20003867

Sampling site : NOSITE WELL WATER
Submitted by : SPIDEL A W

Zenon ID : 95018607

Sparcode	Parameter		Unit	MDC	Media	Workroute
00041220	pH	7.6	pH units	0.1	35/01	Automated pH Meter
00111160	Specific Conductance	336	uS/cm	1	35/01	Cond.Meter Siebold
00051034	Residue Total	248	mg/L	4	35/01	Grav. 105C - Total Res.
01021210	Alkalinity Total 4.5	174	mg/L	0.5	35/01	Automated Electrometer
11041330	Chloride Dissolved	10.5	mg/L	0.5	35/01	Auto. mercuric thiocyan.
11081351	Nitrogen Amm.Diss(N)	< 0.005	mg/L	0.005	35/01	Automated Bertholot meth
11091350	Nitro NO3+NO2 D	< 0.02	mg/L	0.02	35/01	Auto. Cadmium Reduction
1110CALC	Nitrogen NO3 Diss(N)	< 0.02	mg/L		--/--	Calculated Result
11111354	Nitrogen NO2 Diss(N)	< 0.005	mg/L	0.005	35/01	Auto. Diazotization
P--T139A	Phosphorus	0.019	mg/L	0.003	35/01	Pres.Dig.Auto.Ascorbic A
K__D0031	Potassium Dissolved	< 0.4	mg/L	0.4	35/01	ICAP 61E Analysis
Na_D0031	Sodium Dissolved	18.6	mg/L	0.01	35/01	ICAP 61E Analysis

OK

Sample State : Fresh Water
Sampled on : 95/07/13 08:15

Sample 95018607 comment : BURNS? - NO METALS BOTTLE SENT

Burdac Well

Houses. Close To Ousnell across street.

ANALYTICAL REPORT
Form 20003867

Sampling site : NOSITE WELL WATER
Submitted by : SPIDEL A W

Zenon ID : 95018608

Sparcode	Parameter		Unit	MDC	Media	Workroute
00041220	pH	7.3	pH units	0.1	35/01	Automated pH Meter
00111160	Specific Conductance	353	uS/cm	1	35/01	Cond.Meter Siebold
00051034	Residue Total	270	mg/L	4	35/01	Grav. 105C - Total Res.
01021210	Alkalinity Total 4.5	189	mg/L	0.5	35/01	Automated Electrometer
11041330	Chloride Dissolved	9.4	mg/L	0.5	35/01	Auto. mercuric thiocyan.
11081351	Nitrogen Amm.Diss(N)	< 0.005	mg/L	0.005	35/01	Automated Bertholot meth
11091350	Nitro NO3+NO2 D	< 0.02	mg/L	0.02	35/01	Auto. Cadmium Reduction
1110CALC	Nitrogen NO3 Diss(N)	< 0.02	mg/L		--/--	Calculated Result
11111354	Nitrogen NO2 Diss(N)	< 0.005	mg/L	0.005	35/01	Auto. Diazotization
P--T139A	Phosphorus	0.031	mg/L	0.003	35/01	Pres.Dig.Auto.Ascorbic A
K_D0031	Potassium Dissolved	0.5	mg/L	0.4	35/01	ICAP 61E Analysis
Na_D0031	Sodium Dissolved	21.0	mg/L	0.01	35/01	ICAP 61E Analysis

Sample State : Fresh Water
Sampled on : 95/07/13 08:20

Sample 95018608 comment : OUSTELL - NO METALS BOTTLE SENT

See
BURNS (?)
HOUSE
PASSED.
ACROSS STREET

JR LABORATORIES INC.

A British Columbia Government Designated and Certified Dairy and Food Laboratory

ANALYSIS CERTIFICATE

REPORTED TO: Mr. Al Spidel
Ministry of Environment, Land & Parks
Environmental Protection Branch
Nanaimo - Van. Island Regional
2569 Kenworth Road
Nanaimo, B.C.
V9T 4P7

Date Shipped July 13, 1995

Date Received July 14, 1995

Temperature on Receipt 5 oC

CLIENT CODE: CA

LAB. FILE NO. : ME001952624-3

Sample Identification				

REPORT DATE: July 28, 1995 CUSTOMER No.: ME001 SUBMITTED BY: Al Spidel PHONE: (604) 751-3192

REQUISITION FORMS: JR LAB ID

1. Form 20003868 received on 14 July 1995 completed on 16 July 1995 containing sample(s) 1. ME001952624-3

From sampling site ** - Well Water SITE ID: **

ANALYTICAL REPORT:

SPARCODE	PARAMETER	%	UNIT	MDL	MEDIA	WORKROUTE	TIME
0450X022	Coliform - Fecal - MF	0	CFU/100ml	0	30/01	Membrane Filter Count-EL	08:00
0451X022	Coliform - Total - MF	0	CFU/100ml	0	30/01	Membrane Filter Count-EL	08:00
0450X022	Coliform - Fecal - MF	0	CFU/100ml	0	30/01	Membrane Filter Count-EL	08:15
0451X022	Coliform - Total - MF	0	CFU/100ml	0	30/01	Membrane Filter Count-EL	08:15
0450X022	Coliform - Fecal - MF	0	CFU/100ml	0	30/01	Membrane Filter Count-EL	08:20
0451X022	Coliform - Total - MF	0	CFU/100ml	0	30/01	Membrane Filter Count-EL	08:20

Sample State: Fresh Water Sample Type: Regular
Sampled on : 95/07/13 08:00 to 08:20

REMARKS:

MFC agar - sterile Rinse water - sterile Positive control - good growth Negative control - no growth
EC - sterile LTB - sterile Membrane filter - sterile

METHODOLOGY:

Methods used by JR Laboratories Inc. are based upon those found in "Standard Methods for the Examination of Water and Wastewater", 18th Edition, published by the American Public Health Association, 1015 Fifteenth Street, NW, Washington, DC 20005, or on ENV 93.

ISO 9002 REGISTERED

INSPECTION AND/OR ANALYSIS HAS BEEN PERFORMED USING GOOD LABORATORY PRACTICE AND PROCEDURES. JR LABORATORIES LIABILITY IS LIMITED TO THE TESTING FEE PAID.

VERSION 1.1

Analyst

#12 - 3871 North Fraser Way, Burnaby, B.C., Canada V5J 5G6
Telephone: (604) 432-9311 Fax: (604) 432-7768

Galiano Club PR-5559
Summary of Water Sampling Analysis Dated 17 Feb 94

Site Location				
	Site 1	North Side	**Site 4**	Pattison Lk Gray House
	Site 2	Northeast Pit	**Site 5**	Pattison Lk
	Site 3	G. Bellhouse	**Site 6**	Lot 17 Well

Parameter	Unit	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6	Criteria for Drinking Water
pH	pH units	7.1	6.3	6.5	7.7	7.6	8.2	6.5 - 8.5
Sp. Conductance	uS/cm	17	30	160	351	329	239	700 - Drinking
Hardness Total	mg/L CaCO3	6.1	9.4	50.9	167	**139**	25	100 Acceptable, <200 Tolerable
Chloride diss.	mg/L Cl	1.8	2.1	10.9	10.1	9.7	5.7	250
Nitrogen Amm. Diss	mg/L N	0.015	0.017	0.006	0.115	0.008	0.009	no criteria specified
NO3+NO2	mg/L as N	0.06	0.15	0.89	<0.02	0.17	0.02	10
NO3 Diss (N)	mg/L as N	0.05	0.15	0.89	<0.02	0.17	<0.02	10
NO2 Diss (N)	mg/L as N	0.007	<0.005	<0.005	<0.005	<0.005	0.011	1
Silver	mg/L Ag	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	no criteria specified
Aluminum	mg/L Al	**5.69**	**9.63**	**0.23**	<0.06	<0.06	<0.06	0.2
Arsenic	mg/L As	**<0.04**	**<0.04**	**<0.04**	**<0.04**	**<0.04**	**<0.04**	.025 (proposed)
Boron	mg/L B	0.06	0.06	<0.04	<0.04	<0.04	0.25	5
Barium	mg/L Ba	0.027	0.042	0.002	<0.001	0.003	<0.001	1
Beryllium	mg/L Be	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	no criteria specified
Bismuth	mg/L Bi	<0.02	<0.02	0.02	0.02	<0.02	<0.02	no criteria specified
Calcium	mg/L Ca	1.02	1.72	13	59.2	40.4	9.78	20 -100 food processing
Cadmium	mg/L Cd	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.005
Cobalt	mg/L Co	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	no criteria specified
Chromium	mg/L Cr	0.004	0.006	<0.002	<0.002	<0.002	<0.002	0.05
Copper	mg/L Cu	0.003	0.005	0.305	0.004	0.018	<0.002	0.5
Iron	mg/L Fe	**3.49**	**5.47**	0.14	3.16	<0.05	<0.05	high due to suspended sediment, thus not considered important
Potassium	mg/L K	1	0.5	0.5	<0.4	<0.4	<0.4	no criteria specified
Magnesium	mg/L Mg	0.86	1.24	4.47	4.7	9.2	0.14	>700: laxative effects
Manganese	mg/L Mn	0.025	0.035	0.005	**0.18**	0.01	<0.002	0.05

Parameter	Unit	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6	Criteria
Molybdenum	mg/L Mo	<0.004	<0.004	<0.004	<0.004	<0.004	0.006	0.25
Sodium	mg/L Na	1.6	2.5	8.7	18.4	16.9	48.1	no criteria specified
Nickel	mg/L Ni	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.2
Phosphorus	mg/L P	**0.06**	**0.1**	**<0.04**	**0.06**	**<0.04**	**<0.04**	0.01
Lead	mg/L Pb	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.05
Sulphur	mg/L S	0.4	1	2.8	5.4	3.3	1.7	no criteria specified
Antimony	mg/L Sb	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	0.006
Selenium	mg/L Se	**<0.03**	**<0.03**	**<0.03**	**<0.03**	**<0.03**	**<0.03**	0.01
Silicon	mg/L Si	8.8	14.8	10.8	11.6	10.3	4.8	no criteria specified
Tin	mg/L Sn	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	no criteria specified
Strontium	mg/L Sr	0.037	0.04	0.066	0.079	0.081	0.021	no criteria specified
Tellurium	mg/L Te	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	no criteria specified
Titanium	mg/L Ti	**0.353**	**0.563**	0.009	0.003	<0.003	<0.003	0.1
Thallium	mg/L Tl	**<0.03**	**<0.03**	**<0.03**	**<0.03**	**<0.03**	**<0.03**	0.013
Vanadium	mg/L V	0.009	0.017	<0.003	<0.003	<0.003	<0.003	0.1
Zinc	mg/L Zn	0.02	0.03	0.06	0.05	0.08	0.02	5
Zirconium	mg/L Zr	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	no criteria specified
Potassium Dissolved	mg/L K	0.6	0.6	0.7	0.5	0.7	<0.4	20
Sodium Dissolved	mg/L Na	1.42	2.52	9.07	19.6	17.8	**48.9**	20 Drinking :restricted diet 200 aesthetic
Coliform - Fecal	CFU/100ml	**9000**	**1000**	**1200**	**3200**	**4600**	**1700**	<100: complete treatment req'd

All instances of sample readings exceeding criteria are noted in bold script. Some excessive readings due to sampling technique (smallest reading exceeded criteria). Those parameters clearly exceeding criteria for drinking water are noted below.

Aluminum	Phosphorus
~~Magnesium~~	Titanium
Manganese	Fecal Coliforms

Reference: BC Environment: Approved and Working Criteria for Water Quality, 1995.

ZENON ENVIRONMENTAL LABORATORIES
Certificate of Analysis

Reported To :

WASTE - VANCOUVER ISLAND Client Code CA

Waste Management Branch
Vancouver Island Region
2569 Kenworth Road
Nanaimo, BC V9T 4P7

Submitted By : SPIDEL A W

Requisition Forms :

	Zenon ID
Form 10028751 received on 17-FEB-1994 completed on 9-MAR-1994 containing sample(s)	94002957
	94002958
	94002959
	94002960
	94002961
	94002962

From sampling site NOSITE PR5559

Remarks :

- All results are blank corrected except for Hi-Res MS data.
- 'MDC' = Minimum Detectable Concentration
- '<' = Less than MDC
- '---' = Not analyzed
- Solids results are based on dry weight except Volatile Organics, TPH and Biota Analyses.
- Organic analyses are not corrected for surrogate recoveries except for Isotope Dilution methods.

Methods used by Zenon are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', 17th Edition, published by the American Public Health Association, 1015 Fifteenth Street, NW, Washington, DC 20005, or on US EPA protocols found in the 'Test Methods For Evaluating Solid Waste, Physical/Chemical Method, SW846', 3rd Edition. Other procedures are based on methodologies accepted by the B.C. Ministry of Environment.

ANALYTICAL REPORT
Form 10028751

Sampling site : NOSITE PR5559
Submitted by : SPIDEL A W

Zenon ID : 94002957

Sparcode	Parameter		Unit	MDC	Media	Workroute
00041220	pH	7.1	pH units	0.1	02/01	Automated pH Meter
00111160	Specific Conductance	17	uS/cm	1	02/01	Cond.Meter Siebold
0107CALC	Hardness Total	6.1	mg/L		--/--	Calculated Result
11041330	Chloride Dissolved	1.8	mg/L	0.5	02/01	Auto. mercuric thiocyan.
11081351	Nitrogen Amm.Diss(N)	0.015	mg/L	0.005	02/01	Automated Bertholot meth
11091350	Nitro NO3+NO2 D	0.06	mg/L	0.02	02/01	Auto. Cadmium Reduction
1110CALC	Nitrogen NO3 Diss(N)	0.05	mg/L		--/--	Calculated Result
11111354	Nitrogen NO2 Diss(N)	0.007	mg/L	0.005	02/01	Auto. Diazotization
Ag-T0042	Silver	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
Al-T0042	Aluminum	5.69	mg/L	0.06	05/02	GI HNO3 Dig; ICAP 61E
As-T0042	Arsenic	< 0.04	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
B--T0042	Boron	0.06	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
Ba-T0042	Barium	0.027	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E
Be-T0042	Beryllium	< 0.001	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E
Bi-T0042	Bismuth	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Ca-T0042	Calcium	1.02	mg/L	0.05	05/02	GI HNO3 Dig; ICAP 61E
Cd-T0042	Cadmium	< 0.002	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Co-T0042	Cobalt	< 0.004	mg/L	0.004	05/02	GI HNO3 Dig; ICAP 61E
Cr-T0042	Chromium	0.004	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Cu-T0042	Copper	0.003	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Fe-T0042	Iron	3.49	mg/L	0.05	05/02	GI HNO3 Dig; ICAP 61E
K__T0042	Potassium	1.0	mg/L	0.4	05/02	GI HNO3 Dig; ICAP 61E
Mg-T0042	Magnesium	0.86	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Mn-T0042	Manganese	0.025	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Mo-T0042	Molybdenum	< 0.004	mg/L	0.004	05/02	GI HNO3 Dig; ICAP 61E
Na_T0042	Sodium	1.6	mg/L	0.4	05/02	GI HNO3 Dig; ICAP 61E
Ni-T0042	Nickel	< 0.01	mg/L	0.01	05/02	GI HNO3 Dig; ICAP 61E
P__T0042	Phosphorus	0.06	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
Pb-T0042	Lead	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
S__T0042	Sulphur	0.4	mg/L	0.1	05/02	GI HNO3 Dig; ICAP 61E
Sb-T0042	Antimony	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Se-T0042	Selenium	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
Si-T0042	Silicon	8.8	mg/L	0.8	05/02	GI HNO3 Dig; ICAP 61E
Sn-T0042	Tin	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Sr-T0042	Strontium	0.037	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E
Te-T0042	Tellurium	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Ti-T0042	Titanium	0.353	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E
Tl-T0042	Thallium	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
V--T0042	Vanadium	0.009	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E

Sample State : Fresh Water
Sampled on : 94/02/16 07:35

Sample 94002957 comment : 1=NORTH SIDE

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ANALYTICAL REPORT
Form 10028751

Sampling site : NOSITE PR5559
Submitted by : SPIDEL A W

Zenon ID : 94002957

Sparcode	Parameter		Unit	MDC	Media	Workroute
Zn-T0042	Zinc	0.02	mg/L	0.01	05/02	GI HNO3 Dig; ICAP 61E
Zr-T0042	Zirconium	< 0.003	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E
K__D0031	Potassium Dissolved	0.6	mg/L	0.4	02/01	ICAP 61E Analysis
Na_D0031	Sodium Dissolved	1.42	mg/L	0.01	02/01	ICAP 61E Analysis

Sample State : Fresh Water
Sampled on : 94/02/16 07:35

Sample 94002957 comment : 1=NORTH SIDE

ANALYTICAL REPORT
Form 10028751

Sampling site : NOSITE PR5559
Submitted by : SPIDEL A W

Zenon ID : 94002958

Sparcode	Parameter		Unit	MDC	Media	Workroute
00041220	pH	6.3	pH units	0.1	02/01	Automated pH Meter
00111160	Specific Conductance	30	uS/cm	1	02/01	Cond.Meter Siebold
0107CALC	Hardness Total	9.4	mg/L		--/--	Calculated Result
11041330	Chloride Dissolved	2.1	mg/L	0.5	02/01	Auto. mercuric thiocyan.
11081351	Nitrogen Amm.Diss(N)	0.017	mg/L	0.005	02/01	Automated Bertholot meth
11091350	Nitro NO3+NO2 D	0.15	mg/L	0.02	02/01	Auto. Cadmium Reduction
1110CALC	Nitrogen NO3 Diss(N)	0.15	mg/L		--/--	Calculated Result
11111354	Nitrogen NO2 Diss(N)	< 0.005	mg/L	0.005	02/01	Auto. Diazotization
Ag-T0042	Silver	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
Al-T0042	Aluminum	9.63	mg/L	0.06	05/02	GI HNO3 Dig; ICAP 61E
As-T0042	Arsenic	< 0.04	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
B--T0042	Boron	0.06	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
Ba-T0042	Barium	0.042	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E
Be-T0042	Beryllium	< 0.001	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E
Bi-T0042	Bismuth	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Ca-T0042	Calcium	1.72	mg/L	0.05	05/02	GI HNO3 Dig; ICAP 61E
Cd-T0042	Cadmium	< 0.002	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Co-T0042	Cobalt	< 0.004	mg/L	0.004	05/02	GI HNO3 Dig; ICAP 61E
Cr-T0042	Chromium	0.006	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Cu-T0042	Copper	0.005	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Fe-T0042	Iron	5.47	mg/L	0.05	05/02	GI HNO3 Dig; ICAP 61E
K__T0042	Potassium	0.5	mg/L	0.4	05/02	GI HNO3 Dig; ICAP 61E
Mg-T0042	Magnesium	1.24	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Mn-T0042	Manganese	0.035	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Mo-T0042	Molybdenum	< 0.004	mg/L	0.004	05/02	GI HNO3 Dig; ICAP 61E
Na_T0042	Sodium	2.5	mg/L	0.4	05/02	GI HNO3 Dig; ICAP 61E
Ni-T0042	Nickel	< 0.01	mg/L	0.01	05/02	GI HNO3 Dig; ICAP 61E
P__T0042	Phosphorus	0.10	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
Pb-T0042	Lead	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
S__T0042	Sulphur	1.0	mg/L	0.1	05/02	GI HNO3 Dig; ICAP 61E
Sb-T0042	Antimony	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Se-T0042	Selenium	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
Si-T0042	Silicon	14.8	mg/L	0.8	05/02	GI HNO3 Dig; ICAP 61E
Sn-T0042	Tin	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Sr-T0042	Strontium	0.040	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E
Te-T0042	Tellurium	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Ti-T0042	Titanium	0.563	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E
Tl-T0042	Thallium	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
V--T0042	Vanadium	0.017	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E

Sample State : Fresh Water
Sampled on : 94/02/16 07:40

Sample 94002958 comment : 2=NORTHEAST PIT

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ANALYTICAL REPORT
Form 10028751

Sampling site : NOSITE PR5559
Submitted by : SPIDEL A W

Zenon ID : 94002958

Sparcode	Parameter		Unit	MDC	Media	Workroute
Zn-T0042	Zinc	0.03	mg/L	0.01	05/02	GI HNO3 Dig; ICAP 61E
Zr-T0042	Zirconium	< 0.003	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E
K__D0031	Potassium Dissolved	0.6 (1)	mg/L	0.4	02/01	ICAP 61E Analysis
Na_D0031	Sodium Dissolved	2.52 (1)	mg/L	0.01	02/01	ICAP 61E Analysis

Sample State : Fresh Water
Sampled on : 94/02/16 07:40

Sample 94002958 comment : 2=NORTHEAST PIT

Result comments and/or text results :

(1) Dissolved > Total, within precision of analytical method.

ANALYTICAL REPORT
Form 10028751

Sampling site : NOSITE PR5559
Submitted by : SPIDEL A W

Zenon ID : 94002959

Sparcode	Parameter		Unit	MDC	Media	Workroute
00041220	pH	6.5	pH units	0.1	02/01	Automated pH Meter
00111160	Specific Conductance	160	uS/cm	1	02/01	Cond.Meter Siebold
0107CALC	Hardness Total	50.9	mg/L		--/--	Calculated Result
11041330	Chloride Dissolved	10.9	mg/L	0.5	02/01	Auto. mercuric thiocyan.
11081351	Nitrogen Amm.Diss(N)	0.006	mg/L	0.005	02/01	Automated Bertholot meth
11091350	Nitro NO3+NO2 D	0.89	mg/L	0.02	02/01	Auto. Cadmium Reduction
1110CALC	Nitrogen NO3 Diss(N)	0.89	mg/L		--/--	Calculated Result
11111354	Nitrogen NO2 Diss(N)	< 0.005	mg/L	0.005	02/01	Auto. Diazotization
Ag-T0042	Silver	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
Al-T0042	Aluminum	0.23	mg/L	0.06	05/02	GI HNO3 Dig; ICAP 61E
As-T0042	Arsenic	< 0.04	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
B--T0042	Boron	< 0.04	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
Ba-T0042	Barium	0.002	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E
Be-T0042	Beryllium	< 0.001	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E
Bi-T0042	Bismuth	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Ca-T0042	Calcium	13.0	mg/L	0.05	05/02	GI HNO3 Dig; ICAP 61E
Cd-T0042	Cadmium	< 0.002	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Co-T0042	Cobalt	< 0.004	mg/L	0.004	05/02	GI HNO3 Dig; ICAP 61E
Cr-T0042	Chromium	< 0.002	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Cu-T0042	Copper	0.305	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Fe-T0042	Iron	0.14	mg/L	0.05	05/02	GI HNO3 Dig; ICAP 61E
K__T0042	Potassium	0.5 (1)	mg/L	0.4	05/02	GI HNO3 Dig; ICAP 61E
Mg-T0042	Magnesium	4.47	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Mn-T0042	Manganese	0.005	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Mo-T0042	Molybdenum	< 0.004	mg/L	0.004	05/02	GI HNO3 Dig; ICAP 61E
Na_T0042	Sodium	8.7 (1)	mg/L	0.4	05/02	GI HNO3 Dig; ICAP 61E
Ni-T0042	Nickel	< 0.01	mg/L	0.01	05/02	GI HNO3 Dig; ICAP 61E
P__T0042	Phosphorus	< 0.04	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
Pb-T0042	Lead	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
S__T0042	Sulphur	2.8	mg/L	0.1	05/02	GI HNO3 Dig; ICAP 61E
Sb-T0042	Antimony	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Se-T0042	Selenium	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
Si-T0042	Silicon	10.8	mg/L	0.8	05/02	GI HNO3 Dig; ICAP 61E
Sn-T0042	Tin	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Sr-T0042	Strontium	0.066	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E
Te-T0042	Tellurium	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Ti-T0042	Titanium	0.009	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E
Tl-T0042	Thallium	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
V--T0042	Vanadium	< 0.003	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E

Sample State : Fresh Water
Sampled on : 94/02/16 09:08

Sample 94002959 comment : 3=G.BELLHOUSE

CONTINUED on page 7

ANALYTICAL REPORT
Form 10028751

Sampling site : NOSITE PR5559
Submitted by : SPIDEL A W

Zenon ID : 94002959

Sparcode	Parameter		Unit	MDC	Media	Workroute
Zn-T0042	Zinc	0.06	mg/L	0.01	05/02	GI HNO3 Dig; ICAP 61E
Zr-T0042	Zirconium	< 0.003	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E
K_D0031	Potassium Dissolved	0.7	mg/L	0.4	02/01	ICAP 61E Analysis
Na_D0031	Sodium Dissolved	9.07	mg/L	0.01	02/01	ICAP 61E Analysis

Sample State : Fresh Water
Sampled on : 94/02/16 09:08

Sample 94002959 comment : 3=G.BELLHOUSE

Result comments and/or text results :

(1) Dissolved > Total, within precision of analytical method.

ANALYTICAL REPORT
Form 10028751

Sampling site : NOSITE PR5559
Submitted by : SPIDEL A W

Zenon ID : 94002960

Sparcode	Parameter		Unit	MDC	Media	Workroute
00041220	pH	7.7	pH units	0.1	02/01	Automated pH Meter
00111160	Specific Conductance	351	uS/cm	1	02/01	Cond.Meter Siebold
0107CALC	Hardness Total	167	mg/L		--/--	Calculated Result
11041330	Chloride Dissolved	10.1	mg/L	0.5	02/01	Auto. mercuric thiocyan.
11081351	Nitrogen Amm.Diss(N)	0.115	mg/L	0.005	02/01	Automated Bertholot meth
11091350	Nitro NO3+NO2 D	< 0.02	mg/L	0.02	02/01	Auto. Cadmium Reduction
1110CALC	Nitrogen NO3 Diss(N)	< 0.02	mg/L		--/--	Calculated Result
11111354	Nitrogen NO2 Diss(N)	< 0.005	mg/L	0.005	02/01	Auto. Diazotization
Ag-T0042	Silver	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
Al-T0042	Aluminum	< 0.06	mg/L	0.06	05/02	GI HNO3 Dig; ICAP 61E
As-T0042	Arsenic	< 0.04	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
B--T0042	Boron	< 0.04	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
Ba-T0042	Barium	< 0.001	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E
Be-T0042	Beryllium	< 0.001	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E
Bi-T0042	Bismuth	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Ca-T0042	Calcium	59.2	mg/L	0.05	05/02	GI HNO3 Dig; ICAP 61E
Cd-T0042	Cadmium	< 0.002	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Co-T0042	Cobalt	< 0.004	mg/L	0.004	05/02	GI HNO3 Dig; ICAP 61E
Cr-T0042	Chromium	< 0.002	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Cu-T0042	Copper	0.004	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Fe-T0042	Iron	3.16	mg/L	0.05	05/02	GI HNO3 Dig; ICAP 61E
K__T0042	Potassium	< 0.4 (1)	mg/L	0.4	05/02	GI HNO3 Dig; ICAP 61E
Mg-T0042	Magnesium	4.70	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Mn-T0042	Manganese	0.180	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Mo-T0042	Molybdenum	< 0.004	mg/L	0.004	05/02	GI HNO3 Dig; ICAP 61E
Na_T0042	Sodium	18.4 (1)	mg/L	0.4	05/02	GI HNO3 Dig; ICAP 61E
Ni-T0042	Nickel	< 0.01	mg/L	0.01	05/02	GI HNO3 Dig; ICAP 61E
P__T0042	Phosphorus	0.06	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
Pb-T0042	Lead	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
S__T0042	Sulphur	5.4	mg/L	0.1	05/02	GI HNO3 Dig; ICAP 61E
Sb-T0042	Antimony	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Se-T0042	Selenium	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
Si-T0042	Silicon	11.6	mg/L	0.8	05/02	GI HNO3 Dig; ICAP 61E
Sn-T0042	Tin	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Sr-T0042	Strontium	0.079	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E
Te-T0042	Tellurium	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Ti-T0042	Titanium	0.003	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E
Tl-T0042	Thallium	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
V--T0042	Vanadium	< 0.003	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E

Sample State : Fresh Water
Sampled on : 94/02/16 08:50

Sample 94002960 comment : 4=PATTISON LK.GRAY HOUSE

CONTINUED on page 9

ANALYTICAL REPORT
Form 10028751

Sampling site : NOSITE PR5559
Submitted by : SPIDEL A W

Zenon ID : 94002960

Sparcode	Parameter		Unit	MDC	Media	Workroute
Zn-T0042	Zinc	0.05	mg/L	0.01	05/02	GI HNO3 Dig; ICAP 61E
Zr-T0042	Zirconium	< 0.003	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E
K_D0031	Potassium Dissolved	0.5	mg/L	0.4	02/01	ICAP 61E Analysis
Na_D0031	Sodium Dissolved	19.6	mg/L	0.01	02/01	ICAP 61E Analysis

Sample State : Fresh Water
Sampled on : 94/02/16 08:50

Sample 94002960 comment : 4=PATTISON LK.GRAY HOUSE

Result comments and/or text results :

(1) Dissolved > Total, within precision of analytical method.

ANALYTICAL REPORT
Form 10028751

Sampling site : NOSITE PR5559
Submitted by : SPIDEL A W

Zenon ID : 94002961

Sparcode	Parameter		Unit	MDC	Media	Workroute
00041220	pH	7.6	pH units	0.1	02/01	Automated pH Meter
00111160	Specific Conductance	329	uS/cm	1	02/01	Cond.Meter Siebold
0107CALC	Hardness Total	139	mg/L		--/--	Calculated Result
11041330	Chloride Dissolved	9.7	mg/L	0.5	02/01	Auto. mercuric thiocyan.
11081351	Nitrogen Amm.Diss(N)	0.008	mg/L	0.005	02/01	Automated Bertholot meth
11091350	Nitro NO3+NO2 D	0.17	mg/L	0.02	02/01	Auto. Cadmium Reduction
1110CALC	Nitrogen NO3 Diss(N)	0.17	mg/L		--/--	Calculated Result
11111354	Nitrogen NO2 Diss(N)	< 0.005	mg/L	0.005	02/01	Auto. Diazotization
Ag-T0042	Silver	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
Al-T0042	Aluminum	< 0.06	mg/L	0.06	05/02	GI HNO3 Dig; ICAP 61E
As-T0042	Arsenic	< 0.04	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
B--T0042	Boron	< 0.04	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
Ba-T0042	Barium	0.003	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E
Be-T0042	Beryllium	< 0.001	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E
Bi-T0042	Bismuth	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Ca-T0042	Calcium	40.4	mg/L	0.05	05/02	GI HNO3 Dig; ICAP 61E
Cd-T0042	Cadmium	< 0.002	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Co-T0042	Cobalt	< 0.004	mg/L	0.004	05/02	GI HNO3 Dig; ICAP 61E
Cr-T0042	Chromium	< 0.002	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Cu-T0042	Copper	0.018	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Fe-T0042	Iron	< 0.05	mg/L	0.05	05/02	GI HNO3 Dig; ICAP 61E
K_T0042	Potassium	< 0.4 (1)	mg/L	0.4	05/02	GI HNO3 Dig; ICAP 61E
Mg-T0042	Magnesium	9.20	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Mn-T0042	Manganese	0.010	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Mo-T0042	Molybdenum	< 0.004	mg/L	0.004	05/02	GI HNO3 Dig; ICAP 61E
Na_T0042	Sodium	16.9 (1)	mg/L	0.4	05/02	GI HNO3 Dig; ICAP 61E
Ni-T0042	Nickel	< 0.01	mg/L	0.01	05/02	GI HNO3 Dig; ICAP 61E
P_T0042	Phosphorus	< 0.04	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
Pb-T0042	Lead	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
S_T0042	Sulphur	3.3	mg/L	0.1	05/02	GI HNO3 Dig; ICAP 61E
Sb-T0042	Antimony	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Se-T0042	Selenium	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
Si-T0042	Silicon	10.3	mg/L	0.8	05/02	GI HNO3 Dig; ICAP 61E
Sn-T0042	Tin	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Sr-T0042	Strontium	0.081	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E
Te-T0042	Tellurium	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Ti-T0042	Titanium	< 0.003	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E
Tl-T0042	Thallium	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
V--T0042	Vanadium	< 0.003	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E

Sample State : Fresh Water
Sampled on : 94/02/16 09:00

Sample 94002961 comment : 5=PATTISON LK

CONTINUED on page 11

ANALYTICAL REPORT
Form 10028751

Sampling site : NOSITE PR5559
Submitted by : SPIDEL A W

Zenon ID : 94002961

Sparcode	Parameter		Unit	MDC	Media	Workroute
Zn-T0042	Zinc	0.08	mg/L	0.01	05/02	GI HNO3 Dig; ICAP 61E
Zr-T0042	Zirconium	< 0.003	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E
K_D0031	Potassium Dissolved	0.7	mg/L	0.4	02/01	ICAP 61E Analysis
Na_D0031	Sodium Dissolved	17.8	mg/L	0.01	02/01	ICAP 61E Analysis

Sample State : Fresh Water
Sampled on : 94/02/16 09:00

Sample 94002961 comment : 5=PATTISON LK

Result comments and/or text results :

(1) Dissolved > Total, within precision of analytical method.

ANALYTICAL REPORT
Form 10028751

Sampling site : NOSITE PR5559
Submitted by : SPIDEL A W

Zenon ID : 94002962

Sparcode	Parameter		Unit	MDC	Media	Workroute
00041220	pH	8.2	pH units	0.1	02/01	Automated pH Meter
00111160	Specific Conductance	239	uS/cm	1	02/01	Cond.Meter Siebold
0107CALC	Hardness Total	25.0	mg/L		--/--	Calculated Result
11041330	Chloride Dissolved	5.7	mg/L	0.5	02/01	Auto. mercuric thiocyan.
11081351	Nitrogen Amm.Diss(N)	0.009	mg/L	0.005	02/01	Automated Bertholot meth
11091350	Nitro NO3+NO2 D	0.02	mg/L	0.02	02/01	Auto. Cadmium Reduction
1110CALC	Nitrogen NO3 Diss(N)	< 0.02	mg/L		--/--	Calculated Result
11111354	Nitrogen NO2 Diss(N)	0.011	mg/L	0.005	02/01	Auto. Diazotization
Ag-T0042	Silver	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
Al-T0042	Aluminum	< 0.06	mg/L	0.06	05/02	GI HNO3 Dig; ICAP 61E
As-T0042	Arsenic	< 0.04	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
B--T0042	Boron	0.25	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
Ba-T0042	Barium	< 0.001	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E
Be-T0042	Beryllium	< 0.001	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E
Bi-T0042	Bismuth	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Ca-T0042	Calcium	9.78	mg/L	0.05	05/02	GI HNO3 Dig; ICAP 61E
Cd-T0042	Cadmium	< 0.002	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Co-T0042	Cobalt	< 0.004	mg/L	0.004	05/02	GI HNO3 Dig; ICAP 61E
Cr-T0042	Chromium	< 0.002	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Cu-T0042	Copper	< 0.002	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Fe-T0042	Iron	< 0.05	mg/L	0.05	05/02	GI HNO3 Dig; ICAP 61E
K__T0042	Potassium	< 0.4	mg/L	0.4	05/02	GI HNO3 Dig; ICAP 61E
Mg-T0042	Magnesium	0.14	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Mn-T0042	Manganese	< 0.002	mg/L	0.002	05/02	GI HNO3 Dig; ICAP 61E
Mo-T0042	Molybdenum	0.006	mg/L	0.004	05/02	GI HNO3 Dig; ICAP 61E
Na_T0042	Sodium	48.1	mg/L	0.4	05/02	GI HNO3 Dig; ICAP 61E
Ni-T0042	Nickel	< 0.01	mg/L	0.01	05/02	GI HNO3 Dig; ICAP 61E
P__T0042	Phosphorus	< 0.04	mg/L	0.04	05/02	GI HNO3 Dig; ICAP 61E
Pb-T0042	Lead	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
S__T0042	Sulphur	1.7	mg/L	0.1	05/02	GI HNO3 Dig; ICAP 61E
Sb-T0042	Antimony	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Se-T0042	Selenium	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
Si-T0042	Silicon	4.8	mg/L	0.8	05/02	GI HNO3 Dig; ICAP 61E
Sn-T0042	Tin	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Sr-T0042	Strontium	0.021	mg/L	0.001	05/02	GI HNO3 Dig; ICAP 61E
Te-T0042	Tellurium	< 0.02	mg/L	0.02	05/02	GI HNO3 Dig; ICAP 61E
Ti-T0042	Titanium	< 0.003	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E
Tl-T0042	Thallium	< 0.03	mg/L	0.03	05/02	GI HNO3 Dig; ICAP 61E
V--T0042	Vanadium	< 0.003	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E

Sample State : Fresh Water
Sampled on : 94/02/16 09:25

Sample 94002962 comment : 6=LOT 17 WELL

CONTINUED on page 13

ANALYTICAL REPORT
Form 10028751

Sampling site : NOSITE PR5559
Submitted by : SPIDEL A W

Zenon ID : 94002962

Sparcode	Parameter		Unit	MDC	Media	Workroute
Zn-T0042	Zinc	0.02	mg/L	0.01	05/02	GI HNO3 Dig; ICAP 61E
Zr-T0042	Zirconium	< 0.003	mg/L	0.003	05/02	GI HNO3 Dig; ICAP 61E
K__D0031	Potassium Dissolved	< 0.4	mg/L	0.4	02/01	ICAP 61E Analysis
Na_D0031	Sodium Dissolved	48.9 (1)	mg/L	0.01	02/01	ICAP 61E Analysis

Sample State : Fresh Water
Sampled on : 94/02/16 09:25

Sample 94002962 comment : 6=LOT 17 WELL

Result comments and/or text results :

(1) Dissolved > Total, within precision of analytical method.

PR 5559

JR LABORATORIES INC.

A British Columbia Government Designated and Certified Dairy and Food Laboratory

ANALYSIS CERTIFICATE

REPORTED TO: Mr. Al Spidel
Ministry of Environment, Land & Parks
Environmental Protection Branch
Nanaimo - Van. Island Regional
2569 Kenworth Road
Nanaimo, B.C.
V9T 4P7

Date Shipped: Feb. 16, 1994
Date Received: Feb. 17, 1994
Temperature on Receipt: 3 oC

CLIENT CODE: CA

Page No. 1 of 2

LAB. FILE NO. : ME00194475-1

Sample Identification				

REPORT DATE: Feb. 28, 1994 CUSTOMER No.: ME001 SUBMITTED BY: Al Spidel PHONE: (604) 751-3192

REQUISITION FORMS: JR LAB ID

1. Form 10028752 received on 17 Feb. 1994 completed on 25 Feb. 1994 containing sample(s) 1. ME00194475-1

From sampling site ** - PR 7559 #1 - North Side #4 - House SITE ID: PR 7559
#2 - Northeast Pt. #5 - Pattison Lane Rd.
#3 - 6 Bellhouse #6 - LOT 17 Well

ANALYTICAL REPORT:

SPARCODE	PARAMETER		UNIT	MDL	MEDIA	WORKROUTE	TIME
04502480	Coliform - Fecal - MF	0	CFU/100ml	0	30/01	Membrane Filter Count-EL	07:35
04512480	Coliform - Total - MF	9000	CFU/100ml	0	30/01	Membrane Filter Count-EL	07:35
04502480	Coliform - Fecal - MF	10	CFU/100ml	0	30/01	Membrane Filter Count-EL	07:40
04512480	Coliform - Total - MF	1000	CFU/100ml	0	30/01	Membrane Filter Count-EL	07:40
04502480	Coliform - Fecal - MF	10	CFU/100ml	0	30/01	Membrane Filter Count-EL	09:08
04512480	Coliform - Total - MF	1200	CFU/100ml	0	30/01	Membrane Filter Count-EL	09:08
04502480	Coliform - Fecal - MF	0	CFU/100ml	0	30/01	Membrane Filter Count-EL	08:50
04512480	Coliform - Total - MF	3200	CFU/100ml	0	30/01	Membrane Filter Count-EL	08:50
04502480	Coliform - Fecal - MF	0	CFU/100ml	0	30/01	Membrane Filter Count-EL	09:00
04512480	Coliform - Total - MF	4600	CFU/100ml	0	30/01	Membrane Filter Count-EL	09:00
04502480	Coliform - Fecal - MF	0	CFU/100ml	0	30/01	Membrane Filter Count-EL	09:25
04512480	Coliform - Total - MF	1700	CFU/100ml	0	30/01	Membrane Filter Count-EL	09:25

Sample State: Waste Water Sample Type: Regular
Sampled on : 94/02/16 07:35 07:40 09:08 08:50 09:00 09:25

REMARKS:

MFC agar - sterile Rinse water - sterile Positive control - good growth Negative control - no growth
EC - sterile LTB - sterile Membrane filter - sterile

METHODOLOGY:

Methods used by JR Laboratories Inc. are based upon those found in "Standard Methods for the Examination of Water and Wastewater", 18th Edition, published by the American Public Health Association, 1015 Fifteenth Street, NW, Washington, DC 20005, or on ENV 93.

Analyst _____

INSPECTION &/OR ANALYSIS HAS BEEN PERFORMED USING GOOD LABORATORY PRACTICE AND PROCEDURES. JR. LABORATORIES LIABILITY IS LIMITED TO THE TESTING FEE PAID.

#12 - 3871 North Fraser Way, Burnaby, B.C. V5J 5G6
Telephone: (604) 432-9311 Fax: (604) 432-7768

11/16/1993 12:05:27PM M.B. RESEARCH/LABS P1

M TRUEIT 09/02/93 W17322

closed dump site

GALIANO ISLAND, B.C. water/effluent

1

Sample: combined from: Mrs Ward/BeHouse/Usher/Pond Dhouse/Usher/Pond House
02Sep93

Elements		Sample	Units	Maximum Limits Permissible In Drinking Water*
1) Aluminum	Al	0.043	mg/L	no limit listed
2) Antimony	Sb	<0.020	mg/L	no limit listed
3) Arsenic	As	<0.002	mg/L	0.050
4) Barium	Ba	0.008	mg/L	1.000
5) Beryllium	Be	<0.001	mg/L	no limit listed
6) Bismuth	Bi	<0.005	mg/L	no limit listed
7) Boron	B	0.083	mg/L	5.000
8) Cadmium	Cd	<0.001	mg/L	0.005
9) Calcium	Ca	34.73	mg/L	200.000
10) Chromium	Cr	<0.003	mg/L	0.050
11) Cobalt	Co	<0.005	mg/L	no limit listed
12) Copper	Cu	0.019	mg/L	1.000
13) Gold	Au	<0.004	mg/L	no limit listed
14) Iron	Fe	0.383	mg/L	0.300
15) Lanthanum	La	<0.002	mg/L	no limit listed
16) Lead	Pb	<0.002	mg/L	0.010
17) Magnesium	Mg	8.55	mg/L	50.000
18) Manganese	Mn	0.205	mg/L	0.050
19) Molybdenum	Mo	<0.003	mg/L	no limit listed
20) Nickel	Ni	<0.005	mg/L	no limit listed
21) Phosphorous	P	<0.065	mg/L	no limit listed
22) Potassium	K	0.504	mg/L	no limit listed
23) Silicon	Si	11.030	mg/L	no limit listed
24) Silver	Ag	<0.003	mg/L	0.050
25) Sodium	Na	37.7	mg/L	200.000
26) Strontium	Sr	0.0849	mg/L	no limit listed
27) Titanium	Ti	0.002	mg/L	no limit listed
28) Tungsten	W	<0.030	mg/L	no limit listed
29) Vanadium	V	<0.050	mg/L	no limit listed
30) Zinc	Zn	0.020	mg/L	5.000
Hardness (mg/L CaCO3)		121.91	mg/L	75-150 mg/L : moderately hard
pH		8.66		

* As per Canadian or B.C. limits
Ministry of Environment - Water Quality Criteria, Report No. 80-9, 1980. Task Force of the Canadian Council of Resource and Environment Ministers - Canadian Water Quality Guidelines, March, 1987.

Comments:

Iron: high amounts of Iron can cause staining of laundry, porcelain and plumbing fixtures; can produce an undesirable taste. Essential for health.

Manganese: not considered to be toxic; high amounts of Manganese can cause staining of laundry, porcelain and plumbing fixtures; may produce an undesirable taste.

Analytical Chemist

M.B. LABS LTD
Fax: 656-0443

PR5559

Client / Code

JIM TRUEIT
RR 1
Galiano Island, B.C.

Date 09/13/93
Source Well
Type of Sample Water
No. of Samples 1

No. W17442

Comments Paid
Ph: 539-3460/539-3127

Sample: Well: Lot 17 Galiano Island

Elements		Sample	Units	Maximum Limits Permissible In Drinking Water*
1) Aluminum	Al	0.414	mg/L	no limit listed
2) Antimony	Sb	<0.020	mg/L	no limit listed
3) Arsenic	As	<0.002	mg/L	0.050
4) Barium	Ba	0.010	mg/L	1.000
5) Beryllium	Be	<0.001	mg/L	no limit listed
6) Bismuth	Bi	<0.005	mg/L	no limit listed
7) Boron	B	0.147	mg/L	5.000
8) Cadmium	Cd	<0.001	mg/L	0.005
9) Calcium	Ca	36.250	mg/l	200.000
10) Chromium	Cr	<0.003	mg/L	0.050
11) Cobalt	Co	<0.005	mg/L	no limit listed
12) Copper	Cu	0.014	mg/L	1.000
13) Gold	Au	<0.004	mg/L	no limit listed
14) Iron	Fe	0.600	mg/L	0.300
15) Lanthanum	La	<0.002	mg/L	no limit listed
16) Lead	Pb	<0.002	mg/L	0.010
17) Magnesium	Mg	1.340	mg/L	50.000
18) Manganese	Mn	0.028	mg/L	0.050
19) Molybdenum	Mo	<0.003	mg/L	no limit listed
20) Nickel	Ni	<0.005	mg/L	no limit listed
21) Phosphorous	P	<0.065	mg/L	no limit listed
22) Potassium	K	0.251	mg/L	no limit listed
23) Silicon	Si	7.191	mg/L	no limit listed
24) Silver	Ag	<0.003	mg/L	0.050
25) Sodium	Na	43.5	mg/L	200.000
26) Strontium	Sr	0.084	mg/L	no limit listed
27) Titanium	Ti	0.026	mg/L	no limit listed
28) Tungsten	W	<0.030	mg/L	no limit listed
29) Vanadium	V	<0.050	mg/L	no limit listed
30) Zinc	Zn	0.022	mg/L	5.000
Hardness (mg/L $CaCO_3$)		96.0	mg/L	75-150 mg/L = moderately hard
pH		8.11		

* As per Canadian or B.C. limits
Ministry of Environment - Water Quality Criteria, Report No. 80-9, 1980. Task Force of the Canadian Council of Resource and Environment Ministers - Canadian Water Quality Guidelines, March, 1987.

Comments:
Iron: high amounts of Iron can cause staining of laundry, porcelain and plumbing fixtures; can produce an undesirable taste. Essential for health.

Preparation: nitric acid digestion; elements reported as total not dissolved.

Kelly [illegible]
Analytical Chemist

MB RESEARCH
ANALYTICAL & TESTING SERVICES P.O. BOX 2103, SIDNEY, B.C. V8L 3S6 TEL: (604) 656-1334 FAX: 656-0443

Client / Code

JIM TRUEIT
RR 1
Galiano Island, B.C.

Date 09/13/93
Source Well
Type of Sample Water
No. of Samples 1

No. W17442

Comments Paid
Ph: 539-3460/539-3127

Sample: Well: Lot 17 Galiano Island

Elements		Sample	Units	Maximum Limits Permissible In Drinking Water*
1) Aluminum	Al	0.414	mg/L	no limit listed
2) Antimony	Sb	<0.020	mg/L	no limit listed
3) Arsenic	As	<0.002	mg/L	0.050
4) Barium	Ba	0.010	mg/L	1.000
5) Beryllium	Be	<0.001	mg/L	no limit listed
6) Bismuth	Bi	<0.005	mg/L	no limit listed
7) Boron	B	0.147	mg/L	5.000
8) Cadmium	Cd	<0.001	mg/L	0.005
9) Calcium	Ca	36.250	mg/L	200.000
10) Chromium	Cr	<0.003	mg/L	0.050
11) Cobalt	Co	<0.005	mg/L	no limit listed
12) Copper	Cu	0.014	mg/L	1.000
13) Gold	Au	<0.004	mg/L	no limit listed
14) Iron	Fe	0.600	mg/L	0.300
15) Lanthanum	La	<0.002	mg/L	no limit listed
16) Lead	Pb	<0.002	mg/L	0.010
17) Magnesium	Mg	1.340	mg/L	50.000
18) Manganese	Mn	0.028	mg/L	0.050
19) Molybdenum	Mo	<0.003	mg/L	no limit listed
20) Nickel	Ni	<0.005	mg/L	no limit listed
21) Phosphorous	P	<0.065	mg/L	no limit listed
22) Potassium	K	0.251	mg/L	no limit listed
23) Silicon	Si	7.191	mg/L	no limit listed
24) Silver	Ag	<0.003	mg/L	0.050
25) Sodium	Na	43.5	mg/L	200.000
26) Strontium	Sr	0.084	mg/L	no limit listed
27) Titanium	Ti	0.026	mg/L	no limit listed
28) Tungsten	W	<0.030	mg/L	no limit listed
29) Vanadium	V	<0.050	mg/L	no limit listed
30) Zinc	Zn	0.022	mg/L	5.000
Hardness (mg/L $CaCO_3$)		96.0	mg/L	75-150 mg/L = moderately hard
pH		8.11		

* As per Canadian or B.C. limits
Ministry of Environment - Water Quality Criteria, Report No. 80-9, 1980. Task Force of the Canadian Council of Resource and Environment Ministers - Canadian Water Quality Guidelines, March, 1987.

Comments:
Iron: high amounts of Iron can cause staining of laundry, porcelain and plumbing fixtures; can produce an undesirable taste. Essential for health.

Preparation: nitric acid digestion; elements reported as total not dissolved.

Kelly [illegible]
Analytical Chemist

MB RESEARCH
ANALYTICAL & TESTING SERVICES P.O. BOX 2103, SIDNEY, B.C. V8L 3S6 TEL: (604) 656-1334 FAX: 656-0443

Client/Code

JIM TRUEIT

GALIANO ISLAND, B.C.

Date 09/02/93 No. W17322
Source closed dump site
Type of Sample water/effluent
No. of Samples 1

Comments

Sample: combined from: Mrs Ward/BeHouse/Usher/Pond Dhouse/Usher/Pond House 02Sep93

Elements		Sample	Units	Maximum Limits Permissible In Drinking Water*
1) Aluminum	Al	0.043	mg/L	no limit listed
2) Antimony	Sb	<0.020	mg/L	no limit listed
3) Arsenic	As	<0.002	mg/L	0.050
4) Barium	Ba	0.008	mg/L	1.000
5) Beryllium	Be	<0.001	mg/L	no limit listed
6) Bismuth	Bi	<0.005	mg/L	no limit listed
7) Boron	B	0.083	mg/L	5.000
8) Cadmium	Cd	<0.001	mg/L	0.005
9) Calcium	Ca	34.73	mg/L	200.000
10) Chromium	Cr	<0.003	mg/l	0.050
11) Cobalt	Co	<0.005	mg/L	no limit listed
12) Copper	Cu	0.019	mg/L	1.000
13) Gold	Au	<0.004	mg/L	no limit listed
14) Iron	Fe	0.383	mg/L	0.300
15) Lanthanum	La	<0.002	mg/L	no limit listed
16) Lead	Pb	<0.002	mg/L	0.010
17) Magnesium	Mg	8.55	mg/L	50.000
18) Manganese	Mn	0.205	mg/L	0.050
19) Molybdenum	Mo	<0.003	mg/L	no limit listed
20) Nickel	Ni	<0.005	mg/L	no limit listed
21) Phosphorous	P	<0.065	mg/L	no limit listed
22) Potassium	K	0.504	mg/L	no limit listed
23) Silicon	Si	11.030	mg/L	no limit listed
24) Silver	Ag	<0.003	mg/L	0.050
25) Sodium	Na	37.7	mg/L	200.000
26) Strontium	Sr	0.0049	mg/L	no limit listed
27) Titanium	Ti	0.002	mg/L	no limit listed
28) Tungsten	W	<0.030	mg/L	no limit listed
29) Vanadium	V	<0.050	mg/L	no limit listed
30) Zinc	Zn	0.020	mg/L	5.000
Hardness (mg/L $CaCO_3$)		121.91	mg/L	75-150 mg/L = moderately hard
pH		8.66		

* As per Canadian or B.C. limits
Ministry of Environment - Water Quality Criteria, Report No. 80-9, 1980. Task Force of the Canadian Council of Resource and Environment Ministers - Canadian Water Quality Guidelines, March, 1987.

Comments:
Iron: high amounts of Iron can cause staining of laundry, porcelain and plumbing fixtures; can produce an undesirable taste. Essential for health.
Manganese: not considered to be toxic; high amounts of Manganese can cause staining of laundry, porcelain and plumbing fixtures; may produce an undesirable taste.

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