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NAS PENSACOLA
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14

QUARTERLY REPORT
CORRECTIVE ACTION PROGRAM WWTP
12/87 TO 2/88
NAS PENSACOLA, FLORIDA

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241

BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

QUARTERLY REPORT ON GROUND WATER MONITORING
Rule 17-4.245(6)(k)2.

GMS # 1017F00625

DATE AUG 5 1 1988

DER PERMIT # H017-127026

U.S. Navy Public Works-Storage Surface Impoundment
Installation Name

NAS Pensacola	Pensacola	FL	32508	Escambia
Address	City	State	Zip	County

A.R. SHAW — COMMANDING OFFICER
Owner or Authorized Representative's Name — Title

Method of Discharge N/A

Type of Industry Military

Report for Period 12/87 (date) to 2/88 (date)

Attach monitoring data as approved in monitoring plan using parametar monitoring report forms. When applicable, attach additional sheets describing any changes in the background water quality and the discharge plume since the last reported description. Include any changes in size, direction of movement, rate of movement, and concentration changes of plume constituents in violation of the applicable standards.

NOTE: Pursuant to Rule 17-4.245(6)(k)3., at any time there is a change in the permitted volume, location or chemical, physical or microbiological composition of the discharge plume, the permittee shall notify the departsent and, if required by the department, submit a new report stating the volume and chemical, physical and microbiological compositions of the discharge at the point of release or contact with the ground water at the site boundary.

CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Owner or Authorized Representative's Signature — 11 August 1988 Date

ATTACHMENT A

Sampling and Analysis Program
February 1988

326003

577/43

Attachment A. Sampling and Analysis Program for RCRA Operation Permit, Surge Pond, NAS Pensacola Wastewater Treatment Plant

Corrective Action Wells

Well ID	pH	Sp. Cond.	Na	Cl	PP-VOC(624)	PP-BN(625)
UG-1(S)	X	X	X	X		
GM-9(S)	X	X	X	X	X	X
GM-62(S)	X	X			X	X
GM-63(D)	X	X	X	X	X	X
GM-64(I)	X	X	X	X	X	X
GM-65(D)	X	X	X	X	X	X
GM-66(I)	X	X	X	X	X	X
GM-67(S)	X	X	X	X	X	X
GM-68(D)	X	X	X	X	X	X
GM-69(I)	X	X	X	X	X	X
GM-71(S)	X	X	X	X		
GM-72(S)	X	X	X	X		
GM-74(D)	X	X	X	X	X	X
GM-75(I)	X	X			X	X
GM-76(S)	X	X	X	X		
GM-77(S)	X	X	X	X		
GM-78(S)	X	X	X	X		
GM-79(S)	X	X	X	X		
GM-83(S)	X	X	X	X		
GM-84(I)	X	X			X	X
RW1-6Comb.	X	X	X	X		
DG-2(S)	X	X			X	X

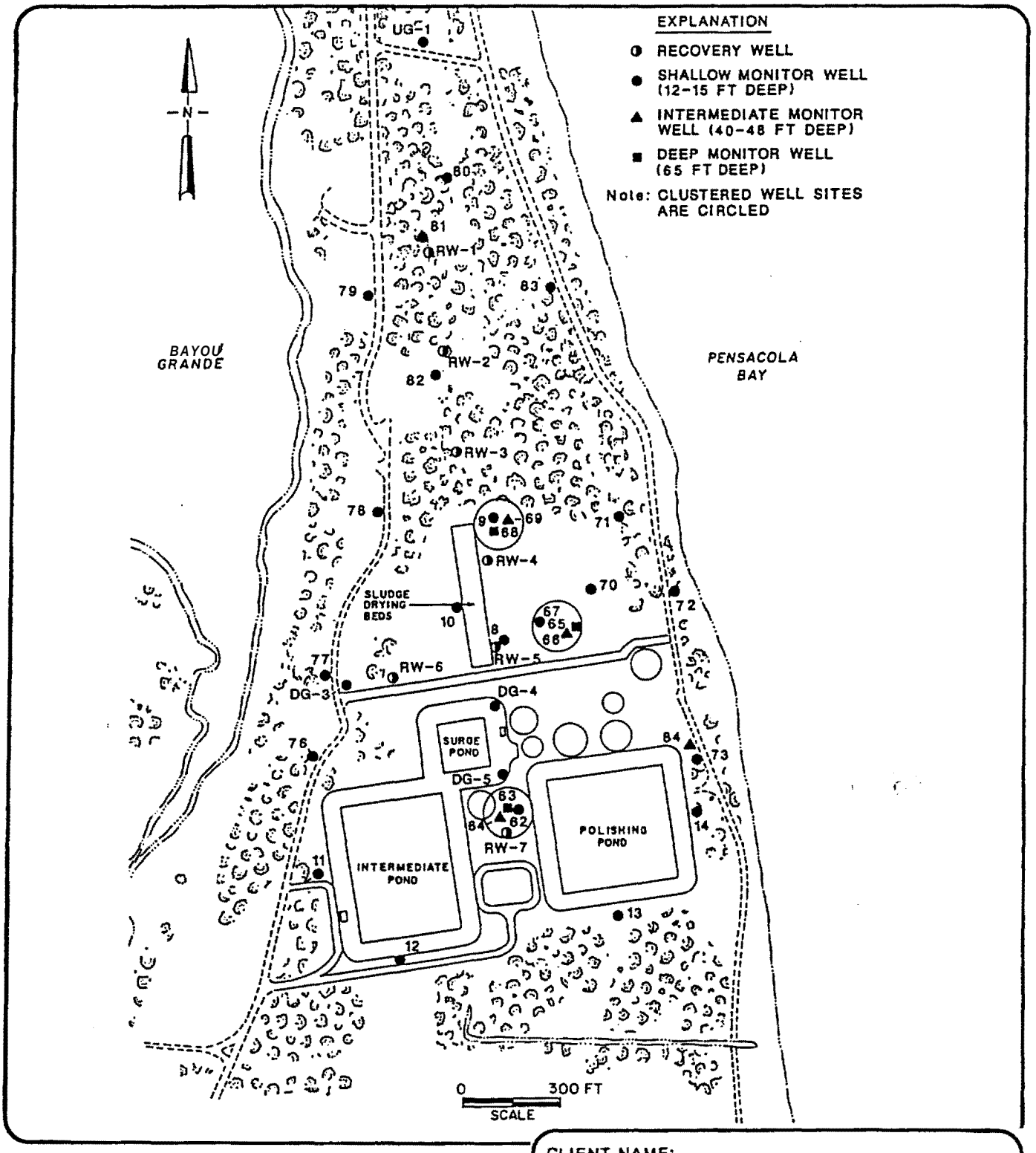
Point of Compliance Wells

Well ID	pH	Sp. Cond.	Mn	CLP-voc	CLP-BNA
UG-1(S)	X	X	X	X	X
DG-1(S)	X	X	X	X	X
DG-4(S)	X	X	X	X	X
DG-5(S)	X	X	X	X	X
DG-6(S)	X	X	X	X	X
GM-75(I)	X	X	X	X	X

ATTACHMENT B

Site Map

326004



CLIENT NAME:

CLIENT NAME: Navy

Attachment B.

Locations of Recovery Wells and Monitor Wells at NAS Pensacola Wastewater Treatment Plant.

ATTACHMENT C

Corrective-Action Monitor Wells

Water-Quality Analyses
pH
Specific Conductance
BN
VOC

326005

577/43

PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # 1017F00625

Sample Date 2/22/88

Monitoring Well # UG-1

Well Type:

Well Name Shallow

Corrective-Action

Classification of Groundwater G-2

Well Developed* Prior to Sample Collection (Yes/No) Yes

Ground Water Elevation (above MSL) 2.42 ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preservatives Added
	pH	Peristaltic Pump	150.1	5.90		Unfiltered	
	Specific Conductance	"	120.1	170	umhos/cm	"	
	Sodium	"	200.7	4.6	mg/L	"	Nitric Acid
	Chloride	"	300.0	9.0	mg/L	"	

*Well development is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

Form 17-1.216(2)
Effective January 1, 1983

621/7

PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # 1017F00625

Sample Date 2/24/88

Monitoring Well # GM-71

well Type:

Well Name Shallow

Corrective-Action

Classification of Groundwater G-2

Well Developed Prior to Sample Collection (Yes/No)* Yes

Ground Water Elevation (above MSL) 1.70ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Peri-staltic Pump	150.1	5.79		Unfiltered	
	Specific conductance	"	120.1	220	mmhos/cm	"	
	Sodium	"	200.7	5.7	mg/L	"	Nitric Acid
	Chloride	"	300.0	11	mg/L	"	

*Well development is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

DER Form 17-1.216(2)
Effective January 1, 1983

326006

621/7

PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # 1017F00625

Sample Date 2/23/88

Monitoring Well # GM-72

well Type:

Well Name Shallow

Corrective-Action

Classification of Groundwater G-2

Well Developed* Prior to Sample Collection (Yes/No) Yes

Ground Water Elevation (above MSL) 1.36 ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Peri-staltic Pump	150.1	6.12		Unfiltered	
	Specific conductance	"	120.1	430	umhos/cm	"	
	Sodium	"	200.7	42	mg/L	"	Nitric Acid
	Chloride	"	300.0	46	mg/L	"	

*Well development is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

DER Form 17-1.216(2)
Effective January 1, 1983

621/7

PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # 1017F00625

Sample Date 2/23/88

Monitoring Well # GM-76

well Type:

Well Name Shallow

Corrective-Action

Classification of Groundwater G-2

Well Developed* Prior to sample Collection (Yes/No) Yes

Ground Water Elevation (above MSL) 2.08 ft

STORET Code	Parameter Monitored	sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Peri-staltic Pump	150.1	6.10		Unfiltered	
	Specific conductance	"	120.1	1420	umhos/cm	"	
	Sodium	"	200.7	190	mg/L	"	Nitric Acid
	Chloride	"	300.0	220	mg/L	"	

*Well development is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

DER Form 17-1.216(2)
Effective January 1, 1983

326007

621/7

PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # 1017F00625

Sample Date 2/23/88

Monitoring Well # GM-77

well Type:

Well Name Shallow

Corrective-Action

Classification of Groundwater G-2

Well Developed* prior to Sample Collection (Yes/No) Yes

Ground Water Elevation (above MSL) 2.05 ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Peri-staltic Pump	150.1	6.12		Unfiltered	
	Specific conductance	"	120.1	490	µmhos/cm	"	
	Sodium	"	200.7	43	mg/L	"	Nitric Acid
	Chloride	"	300.0	48	mg/L	"	

* Well development is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

DER Form 17-1.216(2)
Effective January 1, 1983

62117

PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # 1017F00625

Sample Date 2/23/88

Monitoring Well # GM-78

Well Type:

Well Name Shallow

Corrective-Action

Classification of Groundwater G-2

Well Developed* Prior to Sample Collection (Yes/No) Yes

Ground Water Elevation (above MSL) 2.34 ft

STORET Code	Parameter Monitored	sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Peri-staltic Pump	150.1	5.42		Unfiltered	
	Specific conductance	"	120.1	170	mmhos/cm	"	
	Sodium	"	200.7	14	mg/L	"	Nitric Acid
	Chloride	"	300.0	22	mg/L	"	

*Well development is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

DER Form 17-1.216(2)
Effective January 1, 1983

326008

621/7

PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # 1017F00625

Sample Date 2/23/88

Monitoring Well # GM-79

well Type:

Well Name Shallow

Corrective-Action

Classification of Groundwater G-2

Well Developed* prior to Sample Collection (Yes/No) Yes

Ground Water Elevation (above MSL) 2.03 ft

STORET Code	Parameter Monitored	sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Peri-staltic Pump	150.1	5.36		Unfiltered	
	Specific conductance	"	120.1	150	umhos/cm	"	
	sodium	"	200.7	17	mg/L	"	Nitric Acid
	Chloride	"	300.0	18	mg/L	"	

* Well development is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

DER Form 17-1.216(2)
Effective January 1, 1983

621/7

PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # 1017F00625

Sample Date 2/23/88

Monitoring Well # GM-83

Well Type:

Well Name Shallow

Corrective-Action

Classification of Groundwater G-2

Well Developed* Prior to Sample Collection (Yes/No) Yes

Ground Water Elevation (above MSL) 0.89 ft

STORET Code	Parameter Monitored	sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Peri-staltic Pump	150.1	4.65		Unfiltered	
	specific conductance	"	120.1	152	mhos/cm	"	
	sodium	"	200.7	23	mg/L	"	Nitric Acid
	Chloride	"	300.0	39	mg/L	"	

*Well development is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

DER Form 17-1.216(2)
Effective January 1, 1983

326009

621/7

PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # 1017F00625

Sample Date 2/23/88

Monitoring Well # Comp 1-6

well Type:

well Name Combined discharge RW-1 through RW-6

Corrective-Action

Classification of Groundwater G-2

Well Developed* prior to Sample Collection (Yes/No) Yes

Ground Water Elevation (above MSL) NA ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Peri-staltic Pump	150.1	4 .17		Unfiltered	
	Specific conductance	"	120.1	1L300	umhos/cm	"	
	Sodium	"	200.7	1L50	mg/L	"	Nitric Acid
	Chloride	"	300.0	200	mg/L	"	

* Well development is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

DER Form 17-1.216(2)
Effective January 1, 1983

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PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # 1017F00625

Sample Date 2/23/88

Monitoring Well # GM-62

Well Type:

Well Name Shallow

Corrective-Action

Classification of Groundwater G-2

Well Developed* prior to Sample Collection (Yes/No) Yes

Ground Water Elevation (above MSL) 2.93 ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Peri-staltic Pump	150.1	6.17		Unfiltered	
	Specific conductance	"	120.1	380	mhos/cm	"	
	EN	Teflon Bailer	625	See attached	g/L	"	
	VOC	"	624	See attached	g/L	"	

*Well development is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

DER Form 17-1.216(2)
Effective January 1, 1983

326010

621/8

ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880224-112
Laboratory Name: Organic Mass Spectroscopy
File ID: > 36864
Instrument ID: 96 1
Data Release Authorized By: DC Canada

Customer Sample ID: M-62
Customer Name: MIKE GREEN
Sample Matrix: WATER
Requisition Number:
Date Sample Received: 24-FEB-1988

Volatile Organic Compound; - CLP

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880302-042

Date Analyzed: 2-MAR-1988
Analysis Procedure Number: EPA 624
Conc/Dilution Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
74-87-3	chloromethane	10U	79-00-5	1,1,2-trichloroethane	5U
74-83-9	bromomethane	10U	71-43-2	benzene	5U
75-01-4	vinyl chloride	10U	10061-02-6	trans-1,3-dichloropropene	5U
75-00-3	chloroethane	10U	110-75-8	2-chloroethylvinyl ether	10U
75-09-2	methylene chloride	5U	75-25-2	bromoform	5U
67-64-1	acetone	10U	108-10-1	4-methyl-2-pentanone	10U
75-15-0	carbon disulfide	5U	591-78-6	2-hexanone	10U
75-35-4	1,1-dichloroethene	5U	127-18-4	tetrachloroethene	5U
75-34-3	1,1-dichloroethane	2 J	79-34-5	1,1,2,2-tetrachloroethane	5U
156-60-5	trans-1,2-dichloroethene	9	108-88-3	toluene	2 JB
67-66-3	chloroform	5U	108-90-7	chlorobenzene	5U
107-06-2	1,2-dichloroethane	5U	100-41-4	ethylbenzene	5U
78-93-3	2-butanone	10U	100-42-5	styrene	5U
71-55-6	1,1,1-trichloroethane	5U		total xylenes	5U
56-23-5	carbon tetrachloride	5U			
108-05-4	vinyl acetate	10U			
75-27-4	bromodichloromethane	5U			
78-87-5	1,2-dichloropropane	5U			
10061-01-5	cis-1,3-dichloropropene	5U			
79-01-6	trichloroethene	5U			
124-48-1	dibromochloromethane	5U			

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for the sample.
t i - Analyte was found in the reagent blank as well as the sample.
J - Indicates an estimated value.
ND - Not Detected.

Surrogate Recovery Data

Surrogate Compound	Amount Spiked	Amount Recovered	Percent Recovered
TOLUENE-D8	50	51.0	102.0
BROMOFLUOROBENZENE	50	45.0	90.0
1,2-DICHLOROETHANE-D4	50	45.0	90.0

ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: BS0224-112
Laboratory Name: Organic Mass Spectroscopy
File ID: 0745
Instrument ID: HP5985
Data Release Authorized By: DC Canada

Customer Sample ID: GM-62
Customer Name: MIKE GREEN
Sample Matrix: WATER
Requisition Number:
Date Sample Received: 24-FEB-1988

B/N Fraction Organic Compounds - G?

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moistare:
Percent Moisture (decanted):
Associated Blank: 880226-096

Date Analyzed: 3-MAR-1988
Analysis Procedure Number: EPA 625
Conc/Dilution Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
111-44-4	bis(2-chloroethyl)ether	5U	E3-32-9	acenaphthene	5U
541-73-1	1,3-dichlorobenzene	5U	132-64-9	dibenzofuran	5U
106-46-7	1,4-dichlorobenzene	5U	121-14-2	2,4-dinitrotoluene	5U
95-50-1	1,2-dichlorobenzene	5U	606-20-2	2,6-dinitrotoluene	5U
39638-32-9	bis(2-chloroisopropyl)ether	5U	84-66-2	diethylphthalate	5U
621-64-7	n-nitroso-di-n-propylamine	5U	7005-72-3	4-chlorophenyl-phenylether	5U
67-72-1	hexachloroethane	5U	86-73-7	fluorene	5U
98-95-3	nitrobenzene	5U	100-01-6	4-nitroaniline	25U
78-59-1	isophorone	5U	86-30-6	n-nitrosodiphenylamine	5U
111-91-1	bis(2-chloroethoxy)methane	5U	101-55-3	4-bromophenyl-phenylether	5U
120-82-1	1,2,4-trichlorobenzene	5U	118-74-1	hexachlorobenzene	5U
91-20-3	naphthalene	5U	85-01-8	phenanthrene	5U
106-47-8	4-chloroaniline	5U	120-12-7	anthracene	5U
87-68-3	hexachlorobutadiene	5U	84-74-2	di-n-butylphthalate	5U
91-57-6	2-methylnaphthalene	5U	206-44-0	fluoranthene	5U
77-47-4	hexachlorocyclopentadiene	5U	129-00-0	pyrene	5U
91-58-7	2-chloronaphthalene	5U	85-68-7	butylbenzylphthalate	5U
88-74-4	2-nitroaniline	25U	91-94-1	3,3'-dichlorobenzidine	10U
131-11-3	dimethylphthalate	5U	56-55-3	benzo(a)anthracene	5U
208-96-8	acenaphthylene	5U	117-81-7	bis(2-ethylhexyl)phthalate	5U
99-09-2	3-nitroaniline	25U	218-01-9	chrysene	5U

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. T i number is ttii attainable detection limit for the sample.
B - Analyte was found in the reagent blank as well as the sample.
J - Indicates an estimated value.
ND - Not Detected.

ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880224-112
Laboratory Name: Organic Mass Spectroscopy
File IC: 07655
Instrcment ID: HP5985
Data Release Authorized By: DC Canada

Customer Sample ID: GM-62
Custoaer Name: MIKE GREEN
Sample Matrix: WATER
Requisition Nuaber:
Date Sample Received: 24-FEE-19%

B/N Fraction Organic Compounds - CLP

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880226-096

Date Analyzed: 3-MAR-1988
Analysis Procedure Number: EPA 625
Conc/Diiution Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
117-84-0	di-n-octylphthalate	5U			
205-99-2	benzo(b)fluoranthene	5U			
207-08-9	benzo(k)fluoranthene	5U			
50-32-8	benzo(a)pyrene	5U			
193-39-5	indeno(1,2,3-cd)pyrene	5U			
53-70-3	dibenz(a,h)anthracene	5U			
191-24-2	benzo(g,h,i)perylene	5U			

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit fer the sample.
B - Analyte was found in the reagent blank is well as the sample.
J - Indicates an estimated value.
ND - Not Detected.

Surrogate Recovery Data

Surrogate Compound	Amount Spiked	Amount Recovered	Percent Recovered
2-FLUOROPHENOL	0	[illegible]	
PHENOL-D5	0	0	
2,4,6-TRIBROMOPHENOL	0	3	
NITROBENZENE-D5	100	77.0	77.0
2-FLUOROBIPHENYL	100	61.8	61.0
TERPHENYL-D14	100	72.0	72.0

ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880224-112
Laboratory Name: Organic Mass Spectroscopy
File IG: 07655
Instrument ID: HP5985
Data Release Authorized By: DC Canada

Customer Sample ID: GM-62
Customer Name: MIKE GREEN
Sample Matrix: WATER
Requisition Number:
Date Sample Received: 24-FEB-1988

Tentatively Identified Compounds

Data Extracted/Prepared:
Preparation Procedure We::
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880226-096

Date Analyzed: 3-MAR-1988
Analysis Procedure Number: EPA 625
Conc/Dilution Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
	aryl hydrocarbon	1 J		phthalate ester	4 J
	unknown amide/amine	11 J		unknowns	10 J

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for the sample.
B - Analyte was found in the reagent blank as well as the sample.
J - Indicates an estimated value.
ND - Not Detected.

Acid/Base/Neutral Organics Extraction Data

Extracted Sample Weight = 1000
Final Extracted Volume = 1
Extraction Method = Separatory Funnel
Extraction Solvent = Methylene Chloride
Extraction Cleanup = SODIUM SULFATE
Associated Blank = 880226-096
Analyst = TM KREIS
Date Completed = 26-FEB-1988

PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # 1017F00625

Sample Date 2/22/88

Monitoring Well # GM-75

Well Type:

Well Name Intermediate

Corrective-Action

Classification of Groundwater G-2

Well Developed* Prior to Sample Collection (Yes/No) Yes

Ground Water Elevation (above MSL) 2.62 ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Peri-staltic Pump	150.1	6.84		Unfiltered	
	Specific conductance	"	120.1	2800	umhos/cm	"	
	BN	Teflon Bailer	625	See attached	ug/L	"	
	VOC	"	624	See attached	ug/L	"	

* Well development is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

DER Form 17-1.216(2)
Effective January 1, 1983

621/8

ORGANIC ANALYSIS DATA REPORT

AnaLIS IC: 880224-113
Laboratory Name: Organic Mass Spectroscopy
File ID: > 06865
Instrument ID: 96 1
Data Release Authorized By: DC Canada

Customer Sample ID: GM-75-8
Customer Name: MIKE GREEN
Sample Matrix: WATER
Requisition Number:
Date Sample Received: 24-FEB-1988

Volatile Organic Compounds - CLP

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880302-042

Date Analyzed: 2-MAR-1988
Analysis Procedure Number: EPA 624
Conc/Dilution Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
74-87-3	chloromethane	10U	79-00-5	1,1,2-trichloroethane	5U
74-83-9	bromomethane	10U	71-43-2	benzene	1 J
75-01-4	vinyl chloride	2 J	10061-02-6	trans-1,3-dichloropropene	5U
75-00-3	chloroethane	10U	110-75-8	2-chloroethylvinyl ether	10U
75-09-2	methylene chloride	5U	75-25-2	bromoform	5U
67-64-1	acetone	10U	108-10-1	4-methyl-2-pentanone	10U
75-15-0	carbon disulfide	5U	591-78-6	2-hexanone	10U
75-35-4	1,1-dichloroethene	5U	127-18-4	tetrachloroethene	5U
75-34-3	1,1-dichloroethane	5U	79-34-5	1,1,2,2-tetrachloroethane	5U
156-60-5	trans-1,2-dichloroethene	5U	108-88-3	toluene	1 JB
67-66-3	chloroform	5U	108-90-7	chlorobenzene	~~7~~ 1(
107-06-2	1,2-tichloroethane	5U	100-41-4	ethylbenzene	.6 J
78-93-3	2-butanone	10U	100-42-5	styrene	.4 J
71-55-6	1,1,1-trichloroethane	5U		total xylenes	5U
56-23-5	carbon tetrachloride	5U			
108-05-4	vinyl acetate	10U			
75-27-4	bromodichloromethane	5U			
78-87-5	1,2-dichloropropane	5U			
10061-01-5	cis-1,3-dichloropropene	5U			
79-01-6	trichloroethene	5U			
124-48-1	dibromochloromethane	5U			

Data Reportins Qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for the sample.
B - Analyte was found in the reagent blank is well as the sample.
J - Indicates an estimated value.
ND - Not Detected.

Surrogate Recovery Data

Surrogate Compound	Amount Spiked	Amount Recovered	Percent Recovered
TOLUENE-D8	50	50.0	100.0
BROMOFLUOROBENZENE	50	50.0	100.0
1,2-DICHLOROETHANE-D4	50	47.0	94.0

ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880224-113
Laboratory Name: Organic Mass Spectroscopy
File ID: 07661
Instrument ID: HP5985
Data Release Authorized By: DC Canada

Customer Sample ID: GM-75-B
Customer Name: MIKE GREEN
Sample Matrix: WATER
Requisition Number:
Date Sample Received: 24-FEB-1988

B/N Fraction Organic Compounds - CLP

Date Extracted/Preparec:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880226-096

Date Analyzed: 4-MAR-1988
Analysis Procedure Number: EPA 625
Conc/Dilution Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
111-44-4	bis(2-chloroethyl)ether	14U	83-32-9	acenaphthene	14U
541-73-1	1,3-dichlorobenzene	4 J	132-64-9	dibenzofuran	14U
106-46-7	1,4-dichlorobenzene	3 J	121-14-2	2,4-dinitrotoluene	14U
95-50-1	1,2-dichlorobenzene	24 J	606-20-2	2,6-dinitrotoluene	14U
39638-32-9	bis(2-chloroisopropyl)ether	14U	84-66-2	diethylphthalate	1 J
621-64-7	n-nitroso-di-n-propylamine	9 J	7005-72-3	4-chlorophenyl-phenylether	14U
67-72-1	hexachloroethane	14U	86-73-7	fluorene	14U
98-95-3	nitrobenzene	14U	100-01-6	4-nitroaniline	71U
78-59-1	isophorone	14U	86-30-6	n-nitrosodiphenylamine	14U
111-91-1	bis(2-chloroethoxy)methane	14U	101-55-3	4-bromophenyl-phenylether	14U
120-82-1	1,2,4-trichlorobenzene	14U	118-74-1	hexachlorobenzene	14U
91-20-3	naphthalene	1 J	85-01-8	phenanthrene	14U
106-47-8	4-chloroaniline	14U	120-12-7	anthracene	14U
87-68-3	hexachlorobutadiene	14U	84-74-2	di-n-butylphthalate	14U
91-57-6	2-methylnaphthalene	14U	206-44-0	fluoranthene	14U
77-47-4	hexachlorocyclopentadiene	14U	129-00-0	pyrene	14U
91-58-7	2-chloronaphthalene	14U	85-68-7	butylbenzylphthalate	14U
88-74-4	2-nitroaniline	71U	91-94-1	3,3'-dichlorobenzidine	28U
131-11-3	dimethylphthalate	14U	56-55-3	benzo(a)anthracene	14U
208-96-8	acenaphthylene	14U	117-81-7	bis(2-ethylhexyl)phthalate	14U
99-09-2	3-nitroaniline	71U	218-01-9	chrysene	14U

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for the sample.
B - Analyte was found in the reagent blank as well as the sample.
J - Indicates an estimated value.
ND - Not Detected.

ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880224-113
Laboratory Name: Organic Mass Spectroscopy.
File ID: 07661
Instrument ID: HP5985
Data Release Authorized By: DC Canada

Customer Sample ID: GM-75-8
Customer Name: MIKE GREEN
Sample Matrix: WATER
Requisition Number:
Date Sample Received: 24-FEB-1988

B/N Fraction Organic Compounds - CLP

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880226-096

Date Analyzed: 4-MAR-1988
Analysis Procedure Number: EPA 625
Conc/Dilution Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
117-84-0	di-n-octylphthalate	14U			
205-99-2	benzo(b)fluoranthene	14U			
207-08-9	benzo(k)fluoranthene	14U			
50-32-8	benzo(a)pyrene	14U			
193-39-5	indeno(1,2,3-cd)pyrene	14U			
53-70-3	dibenz(a,h)anthracene	14U			
191-24-2	benzo(g,h,i)perylene	14U			

326014

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for the sample.
B - Analyte was found in the reagent blank as well as the sample.
J - Indicates an estimated value.
ND - Not Detected.

Surrogate Recovery Data

Surrogate Compound	Amount Spiked	Amount Recovered	Percent Recovered
2-FLUOROPHENOL	0	0	
PHENOL-D5	C	0	
2,4,6-TRIBROMOPHENOL	a	0	
NITROBENZENE-D5	109	68.0	68.0
2-FLUOROBIPHENYL	100	57.0	57.0
TERPHENYL-D14	100	59.0	59.0

ORGANIC #&LYSIS DATA REPORT

AnaLIS ID: 880224-113
Laboratory Name: Organic tlass Spectroscopy
file ID: 0766:
Instrument ID: HP5985
Data Release Authorized By: DC 'Canada

Customer Sample ID: M-75-B
Customer Nae: MIKE GREEN
Sample Matrix: WATER
Requisition Number:
Date Saple Received: 24-fEB-1983

Tentatively Identified Compounds

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880226-096

Date Analyzed: 4-MAR-1988
Analysis Procedure Number: EPA 625
Conc/Dilution Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
	chlorobenzene	76 J		aryl hydrocarbon	5 d
	unknown #1	6 J		unknown $2	5 J
	unknown t3	9 J		dimethylethyl phenol	1 J
	sulfur	150 J			

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for the sample.
B - Analyte was found in the reagent blank as well as the sample.
J - Indicates an estimated value.
ND - Not Detected.

Acid/Base/Neutral Organics Extractioa Data

Extracted Sample Weight = 350
Final Extracted Volume = 1ML
Extraction Method = Separatory Funnel
Extraction Solvent = Methylene Chloride
Extraction Cleanup = SODIUM SULFATE
Associated Blank = 880226-096
Analyst = GG JOLLY
Date Completed = 26-FEB-1988

PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # 1017F00625

Sample Date 2/24/88

Monitoring Well # GM-84

well Type:

Well Name Intermediate

Corrective-Action

Classification of Groundwater G-2

Well Developed* Prior to sample Collection (Yes/No) Yes

Ground Water Elevation (above MSL) 0.94ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Peri-staltic Pump	150.1	6.96		Unfiltered	
	Specific conductance	"	120.1	>8000	umhos/cm	"	
326015	BN	Teflon Bailer	625	see attached	ug/L	"	
	VOC	"	624	See attached	ug/L	"	

* Well development is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

DER Form 17-1.216(2)
Effective January 1, 1983

621/8

ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880227-024
Laboratory Name: Organic Mass Spectroscopy
File ID: > 00744
Instrument ID: HP5970
Data Release Authorized By: DC Canada

Customer Sample ID: GM-84
Customer Name: HIKE GREEN
Sample Hatrix: WATER
Requisition Number: 412
Date Sample Receiued: 25-FEB-1988

Volatile Organic Compounds - CLP

Date Extracted/Prepared:
Reparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880308-025

Date Analyzed: 8-MAR-1988
Analysis Procedure Number: EPA 624
Conc/Dilution factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
74-87-3	chloromethane	10U	79-00-5	1,1,2-trichloroethane	5U
74-83-9	bromomethane	10U	71-43-2	benzene	.5 JB
75-01-4	uinyl chloride	10U	10061-02-6	trans-1,3-dichloropropene	5U
75-00-3	chloroethane	10U	110-75-8	2-chloroethylvinyl ether	10U
75-09-2	methylene chloride	.7 JB	75-25-2	bromoform	5U
67-64-1	acetone	31 B	108-10-1	4-methyl-2-pentanone	10U
75-15-0	carbon disulfide	5U	591-78-6	2-hexanone	10U
75-35-4	1,1-dichloroethene	5U	127-18-4	tetrachloroethene	5U
75-34-3	1,1-dichloroethane	5U	79-34-5	1,1,2,2-tetrachloroethane	5U
156-60-5	trans-1,2-dichloroethene	5U	108-88-3	toluene	.7 JB
67-66-3	chloroform	.06 JB	108-90-7	chlorobenzene	3 JB
107-06-2	1,2-dichloroethane	5U	100-41-4	ethylbenzene	.7 JB
78-93-3	2-butanone	10U	100-42-5	styrene	5u
71-55-6	1,1,1-trichloroethane	5u		total xylenes	.6 J
56-23-5	carbon tetrachloride	5U			
108-05-4	vinyl acetate	10U			
75-27-4	broeodichloromethane	5U			
78-87-5	1,2-dichloropropane	5U			
10061-01-5	cis-1,3-dichloropropene	5U			
79-01-6	trichloroethene	5u			
124-48-1	dibromochloromethane	5U			

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection liait *for* the sample.
8 - Analyte was found in the reagent blank as well as the Maple,
J - Indicates an estimated ualue.
ND - Not Detected.

Surrogate Recovery Data

Surrogate Compound	Amount Spiked	Amount Recovered	Percent Recovered
TOLUENE-D8	50	46.0	92.0
BROMOFLUOROBENZENE	50	50.0	100.0
1,2-DICHLOROETHANE-D4	50	41.0	82.0

ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880227-024
Laboratory Name: Organic Mass Spectroscopy
File ID: 07721
Instrument ID: HP5985
Data Release Authorized By: DC Canada

Customer Sample ID: GH-84
Customer Name: MIKE GREEN
Sample Matrix: WATER
Requisition Number: 412
Date Sample Received: 25-FEB-1988

B/N Fraction Organic Compounds - CLP

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moistare:
Percent Moisture (decanted):
Associated Blank: 880301-004

Date Analyzed: 12-MAR-1988
Analysis Procedure Number: EPA 625
Conc/Dilution Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
111-44-4	bis(2-chloroethyl)ether	5U	83-32-9	acenaphthene	5U
541-73-1	1,3-dichlorobenzene	5U	132-64-9	dibenzofuran	5U
106-46-7	1,4-dichlorobenzene	5U	121-14-2	2,4-dinitrotoloene	5U
95-50-1	1,2-dichlorobenzene	5U	606-20-2	2,6-dinitrotoluene	5U
39638-32-3	bis(2-chloroisopropyl)ether	5U	84-66-2	diethylphthalate	0.1 J
621-64-7	n-nitroso-di-n-propylamine	5U	7005-72-3	4-chlorophenyl-phenylether	5U
67-72-1	hexachloroethane	5U	86-73-7	fluorene	5U
98-95-3	nitrobenzene	5U	100-01-6	4-nitroaniline	25U
78-59-1	isophorsne	5U	86-30-6	n-nitrosodiphenylamine	5U
111-91-1	bis(2-chloroethoxy)methane	5U	101-55-3	4-bromophenyl-phenylether	5U
120-82-1	1,2,4-trichlorobenzene	5U	118-74-1	hexachlorobenzene	5U
91-20-3	naphthalene	5U	85-01-8	phenanthrene	5U
106-47-8	4-chloroaniline	5U	120-12-7	anthracene	5U
87-68-3	hexachlorobutadiene	5U	84-74-2	di-n-butylphthalate	5U
91-57-6	2-methylnaphthalene	5U	206-44-0	fluoranthene	5U
77-47-4	hexachlorocyclopentadiene	5U	129-00-0	pyrene	5U
91-58-7	2-chloronaphthalene	5U	8568-7	butylbenzylphthalate	5U
88-74-4	2-nitroaniline	25U	91-94-1	3,3'-dichlorobenzidine	10U
131-11-3	dimethylphthalate	5U	56-55-3	benzo(a)anthracene	5U
208-96-8	acenaphthylene	5U	117-81-7	bis(2-ethylhexyl)phthalate	1 J
99-09-2	3-nitroaniline	25U	218-01-9	chrysene	5U

326016

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for the sample.
B - Analyte was found in the reagent blank as well as the sample.
J - Indicates an estimated value.
ND - Not Detected.

ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880227-024
Laboratory Name: Organic Mass Spectroscopy
File ID: 07721
instrument ID: HP5985
Data Release Authorized By: DC Canada

Customer Sample ID: GM-84
Customer Name: MIKE GREEN
Sample Matrix: WATER
Requisition Number: 412
Date Sample Received: 25-FEB-1988

B/N Fraction Organic Compounds - CLP

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Hoisture:
Percent Moisture (decanted):
Associated Blank: 880301-004

Date Analyzed: 12-MAR-1988
Analysis Procedure Number: EPA 625
Conc/Dilution Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS	ug/l
117-84-0	di-n-octylphthalate	3 JB		
205-99-2	benzo(b)fluoranthene	5U		
207-08-9	benzo(k)fluoranthene	5U		
50-32-8	benzo(a)pyrene	5U		
193-39-5	indeno(1,2,3-cd)pyrene	5U		
53-70-3	dibenz(a,h)anthracene	5U		
191-24-2	benro(g,h,i)perylene	5U		

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for the sanple.
B - Analyte was found in the reagent blank as well as the Maple.
J - Indicates an estimated value.
ND - Not Detected.

Surrogate Recovery Data

Surrogate Compound	Amount Spiked	Amount Recovered	Percent Recovered
2-FLUOROPHENOL	0	0	
PHENOL-D5	0	0	
2,4,6-TRIBROMOPHENOL	0	0	
NITROBENZENE-D5	100	52.0	52.0
2-FLUOROBIPHENYL	100	43.0	43.0
TERPHENYL-D14	100	66.0	66.0

ORGANIC ANALYSIS &ITA REPORT

AnaLIS ID: 880227-024
Laboratory Name: Organic Mass Spectroscopy
File ID: > 00744
Instrument ID: HP5970
Data Release Authorized By: DC Canada

Customer Sample ID: BY-84
Customer Name: MIKE GREEN
Sample Matrix: WATER
Requisition Number: 412
Date Sample Received: 25-FEB-1988

Tentatively Identified Compounds

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880308-025

Date Analyzed: 8-MAR-1988
Analysis Procedure Number: EPA 624
Conc/Dilution Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
	probable hydrocarbon #1	4 J		probable hydrocarbon #2	14 J
	probable hydrocarbon t3	3 J		probable siloxane	3 5
	Chlorinated hydrocarbon	4 J		aliphatic hydrocarbon tl	5 J
	diacetone alcohol	24 J		aliphatic hydrocarbon #2	6 5
	aliphatic hydrocarbon t3	3 5		unknown	6 5

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for the sample.
E - Analyte was found in the reagent blank as well as the sample.
J - Indicates an estimated value.
ND - Not Detected.

Acid/Base/Neutral Organics Extraction Data

Extracted Sample Height = 1000
Final Extracted Volume = 1
Extraction Method = Separatory Funnel
Extraction Solvent = Methylene Chloride
Extraction Cleanup = SODIUM SULFATE
Associated Blank = 880301-004
Analyst = SK POLING
Date Completed = 1-MAR-1988

326017

PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # 1017F00625

Sample Date 2/22/88

Monitoring Well # DG-2

Well Type:

Well Name Shallow

Corrective-Action

Classification of Groundwater G-2

Well Developed Prior to Sample Collection (Yes/No)* Yes

Ground Water Elevation (above MSL) 3.17 ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preservatives Added
	pH	Peristaltic Pump	150.1	6.10		Unfiltered	
	Specific conductance	"	120.1	495	umhos/cm	"	
	BN	Teflon Bailer	625	See attached	ug/L	"	
	VOC	"	624	See attached	ug/L	"	

*Well development is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

DER Form 17-1.216(2)
Effective January 1, 1983

621/8

ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880224-114
Laboratory Name: Organic Mass Spectroscopy
File ID: > 06866
Instrument ID: 96 1
Data Release Authorized By: DC Canada

Customer Sample ID: 36-2
Custowr Name: MIKE GREEN
Sample Matrix: WATER
Requisition Number:
Date Sample Received: 24-FEB-1988

Volatile Organic Compounds - CLP

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880302-042

Date Analyzed: 2-MAR-1988
Analysis Procedure Number: EPA 624
Conc/Dilution Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l
74-87-3	chloromethane	10U
74-83-9	bromomethane	10U
75-01-4	vinyl chloride	10U
75-00-3	chloroethane	26
75-09-2	methylene chloride	5U
67-64-1	acetone	10U
75-15-0	carbon disulfide	5U
75-35-4	1,1-dichloroethene	5U
75-34-3	1,1-dichloroethane	5U
156-60-5	trans-1,2-dichloroethene	5U
67-66-3	chloroform	5U
107-06-2	1,2-dichloroethane	5U
78-93-3	2-butanone	10U
71-55-6	1,1,1-trichloroethane	5U
56-23-5	carbon tetrachloride	5U
108-05-4	vinyl acetate	10U
75-27-4	bromodichloromethane	5U
78-87-5	1,2-dichloropropane	5U
10061-01-5	cis-1,3-dichloropropene	5U
79-01-6	trichloroethene	5U
124-48-1	dibromochloromethane	5U

CAS		ug/l
79-00-5	1,1,2-trichloroethane	5U
71-43-2	benzene	.3 J
10061-02-6	trans-1,3-dichloropropene	5U
110-75-8	2-chloroethylvinyl ether	10U
75-25-2	bromoform	5U
108-10-1	4-methyl-2-pentanone	10U
591-78-6	2-hexanone	10U
127-18-4	tetrachloroethene	5U
79-34-5	1,1,2,2-tetrachloroethane	5U
108-88-3	toluene	2 JB
108-90-7	chlorobenzene	3
100-41-4	ethylbenzene	5U
100-42-5	styrene	5U
	total xylenes	6

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for the sample.
B - Analyte was found in the reagent blank as well as the sample.
J - Indicates an estimated value.
ND - Not Detected.

Surrogate Recovery Data

Surrogate Compound	Amount Spiked	Amount Recovered	Percent Recovered
TOLUENE-D8	50	51.0	102.0
BROMOFLUOROBENZENE	50	50.0	100.0
1,2-DICHLOROETHANE-D4	50	44.0	88.0

326018

ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880224-114
Laboratory Name: Organ c Mass Spectroscopy
File ID: 07662
Instrument ID: HP5985
Data Release Authorized By: DC Canada

Customer Sample ID: DG-2
Customer Name: MIKE GREEN
Sample Matrix: WATER
Requisition Number:
Date Sample Receiued: 24-FEB-1988

S/N Fraction Organic Compounds - CL2

Cate Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880226-096

Date Analyzed: 4-MAR-1988
Analysis Procedure Number: EPA 625
Conc/Dilution Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
111-44-4	bis(2-chloroethyl)ether	5U	83-32-9	acenaphthene	0.5 J
541-73-1	1,3-dichlorobenzene	14	132-64-9	dibenzofuran	5U
106-46-7	1,4-dichlorobenzene	28	121-14-2	2,4-dinitrotoluene	5U
95-50-1	1,2-dichlorobenzene	59	606-20-2	2,6-dinitrotoluene	5U
39638-32-9	bis(2-chloroisopropyl)ether	5U	84-66-2	diethylphthalate	5U
621-64-7	n-nitroso-di-n-propylamine	5U	7005-72-3	4-chlorophenyl-phenylether	5U
67-72-1	hexachloroethane	5U	86-73-7	fluorene	0.5 J
98-95-3	nitrobenzene	5U	100-01-6	4-nitroaniline	25U
78-59-1	isophorone	5U	86-30-6	n-nitrosodiphenylamine	5U
111-91-1	bis(2-chloroethoxy)methane	5U	101-55-3	4-bromophenyl-phenylether	5U
120-82-1	1,2,4-trichlorobenzene	5U	118-74-1	hexachlorobenzene	5U
91-20-3	naphthalene	2 J	85-01-8	phenanthrene	5U
106-47-8	4-chloroaniline	5U	120-12-7	anthracene	5U
87-68-3	hexachlorobutadiene	5U	84-74-2	di-n-butylphthalate	0.2 J
91-57-6	2-methylnaphthalene	5U	206-44-0	fluoranthene	5U
77-47-4	hexachlorocyclopentadiene	5U	129-00-0	pyrene	5U
91-58-7	2-chloronaphthalene	5U	85-68-7	butylbenzylphthalate	5U
88-74-4	2-nitroaniline	25U	91-94-1	3,3'-dichlorobenzidine	10U
131-11-3	dimethylphthalate	5U	56-55-3	benzo(a)anthracene	5U
208-96-8	acenaphthylene	5U	117-81-7	bis(2-ethylhexyl)phthalate	5U
99-09-2	3-nitroaniline	25U	218-01-9	chrysene	5U

Data Reporting Qualifiers:

U - Compound was analyzed for but no: detected. The number is the attainable detection limit for the sample.
B - Analyte was found in the reagent blank as well as the sample.
J - Indicates an estimated value.
ND - Not Detected.

ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880224-114
Laboratory Name: Organic Mass Spectroscopy
File ID: 07662
Instrument ID: HP5985
Data Release Authorized By: DC Canada

Customer Sample ID: DG-2
Customer Name: MIKE GREEN
Sample Matrix: WATER
Requisition Number:
Date Sample Received: 24-FEB-1988

B/N Fraction Organic Compounds - CLP

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880226-096

Date Analyzed: 4-MAR-1988
Analysis Procedure Number: EPA 625
Conc/Dilution Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
117-84-0	di-n-octylphthalate	5U			
205-99-2	benzo(b)fluoranthene	5U			
207-08-9	benzo(k)fluoranthene	5U			
50-32-8	benzo(a)pyrene	5U			
193-39-5	indeno(1,2,3-cd)pyrene	5U			
53-70-3	dibenz(a,h)anthracene	5U			
191-24-2	benzo(g,h,i)perylene	5U			

326019

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for the sample.
B - Analyte was found in the reagent blank as well as the sample.
J - Indicates an estimated value.
ND - Not Detected.

Surrogate Recovery Data

Surrogate Compound	Amount Spiked	Amount Recovered	Percent Recovered
2-FLUOROPHENOL	0	0	
PHENOL-D5	0	0	
2,4,6-TRIBROMOPHENOL	0	0	
NITROBENZENE-D5	100	68.0	68.0
2-FLUOROBIPHENYL	100	64.0	64.0
TERPHENYL-D14	100	74.0	74.0

ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880224-114
Laboratory Name: Organic Mass Spectroscopy
File ID: 07662
Instrument ID: HP5985
Data Release Authorized By: DC Canada

Customer Sample ID: DG-2
Customer Name: MIKE GREEN
Sample Matrix: WATER
Requisition Number:
Date Sample Received: 24-FEB-1988

Tentatively Identified Compounds

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880226-096

Date Analyzed: 4-MAR-1988
Analysis Procedure Number: EPA 625
Conc/Dilution Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
	unknown #1	3 J		unknown #2	2 J
	unknown #3	4 J		unknown #4	2 J
	unknown #5	2 J		chlorobenzene	3 J
	dimethyl benzene #1	3 J		chloromethylbenzene	2 J
	methyl ethyl benzene	3 J		diethyl benzene	3 J
	aryl hydrocarbon	3 J		aliphatic hydrocarbon #1	2 J
	tetra methyl benzene	4 J		dihydromethylindene	5 J
	trimethyl phenol	2 J		dimethylethyl phenol	3 J
	methyl naphthalene	4 J		tetramethylbutyl phenol	2 J
	aliphatic hydrocarbon #2	4 J		sulfur	150 J

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for the sample.
B - Analyte was found in the reagent blank as well as the sample.
J - Indicates an estimated value.
ND - Not Detected.

Acid/Base/Neutral Organics Extraction Data

Extracted Sample Weight = 1000
Final Extracted Volume = 1ML
Extraction Method = Separatory Funnel
Extraction Solvent = Methylene Chloride
Extraction Cleanup = SODIUM SULFATE
Associated Blank = 880226-096
Analyst = GG JOLLY
Date Completed = 26-FEB-1988

PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # 1017F00625

Sample Date 2/24/88

Monitoring Well # GM-9

well Type:

Well Name Shallow

Corrective-Action

Classification of Groundwater G-2

Well Developed* Prior to Sample Collection (Yes/No) Yes

Ground Water Elevation (above MSL) 2.41 ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preservatives Added
	pH	Peri-staltic Pump	150.1	5.75		Unfiltered	
	Specific conductance	"	120.1	320	umhos/cm	"	
	Sodium	"	200.7	1.8	mg/L	"	Nitric Acid
	Chloride	"	300.0	1.8	mg/L	"	
	BN	Teflon hiler	625	See attached	ug/L	"	
	VOC	"	624	See attached	ug/L	"	

326020

* Well development is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

DER Form 17-1.216(2)
Effective January 1, 1983

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PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

WMS # 1017F00625

Sample Date 2/24/88

Monitoring Well # GM-69

Well Type:

Well Name Intermediate

Corrective-Action

Classification of Groundwater G-2

Well Developed* Prior to Sample Collection (Yes/No) Yes

Ground Water Elevation (above MSL) 2.25 ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Peri-staltic Pump	150.1	6.87		Unfiltered	
	Specific conductance	"	120.1	2400	umhos/cm	"	
	Sodium	"	200.7	500	mg/L	"	Nitric Acid
	Chloride	"	300.0	730	mg/L	"	
	BN	Teflon Bailer	625	See attached	ug/L	"	
	VOC	"	624	See attached	ug/L	"	

*Well developnent is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

DER Form 17-1.216(2)
Effective January 1, 1983

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ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880227-019
Laboratory Name: Organic Mass Spectroscopy
File ID: > 06917
Instrument ID: 96 1
Data Release Authorized By: DC Canada

Customer Sample ID: GM-68
Customer Name: MIKE GREEN
Sample Matrix: WATER
Requisition Number: 412
Date Sample Received: 25-FEB-1988

Tentatively Identified Compounds

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880307-056

Date Analyzed: 7-MAR-1988
Analysis Procedure Number: EPA 624
Conc/Dilution Factor: 10
Analyst: L HOLSOPPLE

CAS		ug/l
76131	Freon 113	11 J
	chlorinated hydrocarbon #2	3 5
	diacetone alcohol	44 J
	aliphatic hydrocarbon t3	2 J
	chlorinated hydrocarbon #1	2 5
	aliphatic hydrocarbon #1	5 5
	aliphatic hydrocarbon #2	6 5

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for the sample.
B - Analyte was found in the reagent blank as well as the sample.
J - Indicates an estimated value.
ND - Not Detected.

cid/Base/Neutral Organics Extraction Data

tracted Sample Weight = 1000
nal Extracted Volume = 1
traction Method = Separatory Funnel
traction Solvent = Methylene Chloride
xtraction Cleanup = SODIUM SULFATE
ssociated Blank = 880301-004
nalyst = SK POLING
ate Completed = 1-MAR-1988

326021

AnaLIS ID: 880227-019
Laboratory Name: Organic Mass Spectroscopy
File ID: 07715
Instrument ID: HP5985
Data Release Authorized By: DC Canada

Customer Sanple ID: GH-68
Customer Name: MIKE GREEN
Sample Matrix: WATER
Requisition Number : 412
Date Sample Received: 25-FEB-1988

B/N Fraction Organic Compounds - UP

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank : 880301-004

Date Analyzed: 11-MAR-1988
Analysis Procedure Number: EPA 625
Conc/Dilution Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
117-84-0	di-n-octylphthalate	0.2 JB			
205-99-2	benzo(b)fluoranthene	5U			
207-08-9	benzo(k)fluoranthene	5U			
50-32-8	benzo(a)pyrene	5U			
193-39-5	indeno(1,2,3-cd)pyrene	5U			
53-70-3	dibenz(a,h)anthracene	5U			
191-24-2	benzo(g,h,i)perylene	5U			

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for the sanple.
B - Analyte uas found in the reagent blank as uell as the sample.
J - Indicates an estimated value.
ND - Not Detected.

Surrogate Recovery Data

Surrogate Compound	Amount Spiked	Amount Recovered	Permt Recovered
2-FLUOROPHENOL	0	0	
PHENOL-D5	0	0	
2,4,6-TRIBROMOPHENOL	0	0	
NITROBENZENE-D5	100	63.0	63.0
2-FLUOROBIPHENYL	100	57.0	57.0
TERPHENYL-D14	100	51.0	51.0

AnaLIS ID: 880227419
Laboratory Name: Organic Mass Spectroscopy
File ID: 07715
Instrument ID: HP5985
Data Release Authorized By: DC Canada

Customer Sample ID: GH-68
Customer Name: MIKE GREEN
Sample Matrix: WATER
Requisition Number: 412
Date Sample Received: 25-FEB-1988

B/N Fraction Organic Compounds - CLP

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880301-004

Date Analyzed: 11-MAR-1988
Analysis Procedure Number: EPA 625
Conc/Dilution Factor: 10
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
111-44-4	bis(2-chloroethyl)ether	5U	83-32-9	acenaphthene	5U
541-73-1	1,3-dichlorobenzene	5U	132-64-9	dibenzofuran	5U
106-46-7	1,4-dichlorobenzene	5U	121-14-2	2,4-dinitrotoluene	5U
95-50-1	1,2-dichlorobenzene	5U	606-20-2	2,6-dinitrotoluene	5U
39638-32-9	bis(2-chloroisopropyl)ether	5U	84-66-2	diethylphthalate	5U
621-64-7	n-nitroso-di-n-propylaaine	5U	7005-72-3	4-chlorophenyl-phenylether	5U
67-72-1	hexachloroethane	5U	86-n-7	fluorene	5U
98-95-3	nitrobenzene	5U	100-01-6	4-nitroaniline	25U
78-59-1	isophorone	5U	86-30-6	n-nitrosodiphenylanine	5U
111-91-1	bis(2-chloroethoxy)methane	5U	101-55-3	4-bromophenyl-phenylether	5U
120-82-1	1,2,4-trichlorobenzene	5U	118-74-1	hexachlorobenzene	5U
91-20-3	naphthalene	5U	85-01-8	phenanthrene.	5U
106-47-8	4-chloroaniline	5U	120-12-7	anthracene	5U
87-68-3	hexachlorobutadiene	5U	84-74-2	di-n-butylphthalate	5U
91-57-6	2-methylnaphthalene	5U	206-44-0	fluoranthene	5U
77-47-4	hexachlorocyclopentadiene	5U	129-00-0	pyrene	5U
91-58-7	2-chloronaphthalene	5U	85-68-7	butylbeazylphthalate	5U
88-74-4	2-nitroaniline	25U	91-94-1	3,3'-dichlorobenzidine	10U
131-11-3	dimethylphthalate	5U	56-55-3	benzo(a)anthracene	5U
208-96-8	acenaphthylene	5U	117-81-7	bis(2-ethylhexyl)phthalate	1 J
99-09-2	3nitroaniline	25U	218-01-9	chrysene	5U

Data Reporting qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for the sample.
B - Analyte was found in the reagent blank as well as the sample.
J - Indicates an estimated value.
ND - Not Detected.

326022

ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880227-019
Laboratory Name: Organic Mass Spectroscopy
file ID: > 06917
Instrument ID: 96 1
Data Release Authorized By: DC Canada

Customer Sample ID: GH-68
Customer Name: HIKE GREEN
Sample Matrix: WATER
Requisition Number: 412
Date Sample Received: 25-FEB-1988

Volatile Organic Compounds - CLP

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Hoisture (decanted):
Associated Blank: 880307-056

Date Analyzed: 7-MAR-1988
Analysis Procedure Number: EPA 624
Conc/Dilution Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
74-87-3	chloromethane	10U	79-00-5	1,1,2-trichloroethane	5U
74-83-9	bromomethane	10U	71-43-2	benzene	5U
75-01-4	vinyl chloride	10U	10061-02-6	trans-1,3-dichloropropene	5U
75-00-3	chloroethane	10U	110-75-8	2-chloroethylvinyl ether	10U
75-09-2	methylene chloride	5U	75-25-2	bromoform	5U
67-64-1	acetone	10U	108-10-1	4-methyl-2-pentanone	10U
75-15-0	carbon diwlf ide	5U	591-78-6	2-hexanone	10U
75-35-4	1,1-dichloroethene	5U	127-18-4	tetrachloroethene	5U
75-34-3	1,1-dichloroethane	5U	79-34-5	1,1,2,2-tetrachloroethane	5U
156-60-5	trans-1,2-dichloroethene	5U	108-88-3	toluene	.6 JB
67-66-3	chloroform	5U	108-90-7	chlorobenzene	5U
	1,2dichloroethane	5U	100-41-4	ethylbenzene	5U
	2-butanone	10U	100-42-5	styrene	5U
71-55-6	1,1,1-trichloroethane	5U		total xylenes	5U
56-23-5	carbon tetrachloride	5U			
108-05-4	vinyl acetate	10U			
75-27-4	bromodichloromethane	5U			
78-87-5	1,2-dichloropropane	5U			
10061-01-5	cis-1,3-dichloropropene	5U			
79-01-6	trichloroethene	5U			
124-48-1	dibromochloromethane	5U			

Data Reporting Qualifiers:

U - Compound uas analyzed for but not detected. The number is the attainable detection limit for the sample.
8 - Analyte was found in the reagent blank as well as the sample.
J - Indicates an estimated value.
ND - Not Detected.

Surrogate Recovery Data

Surrogate Compound	Amount Spiked	Amount Recovered	Percent Recovered
TOLUENE-D8	50	51.0	102.0
BROMOFLUOROBENZENE	50	50.0	100.0
1,2-DICHLOROETHANE-D4	50	46.0	92.0

PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # 1017F00625

Sample Date 2/24/88

Monitoring Well # GM-68

Well Type:

Well Name Deep

Corrective-Action

Classification of Groundwater G-2

Well Developed* Prior to Sample Collection (Yes/No) Yes

Ground Water Elevation (above MSL) 2.01 ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Peri-staltic Pump	150.1	5.87		Unfiltered	
	Specific conductance	"	120.1	500	umhos/cm	"	
	Sodium	"	200.7	67	mg/L	"	Nitric Acid
	Chloride	"	300.0	120	mg/L	"	
	BN	reflon Bailer	625	See attached	ug/L	"	
	VOC	"	624	See attached	ug/L	"	

* Well development is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

DER Form 17-1.216(2)
Effective January 1, 1983

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ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880227-018
Laboratory Name: Organic Mass Spectroscopy
File ID: 06316
Instrument ID: 96 1
Data Release Authorized By: DC Canada

Customer Sample ID: G4-67
Customer Name: MIKE GREEN
Sample Matrix: WATER
Requisition Number: 412
Date Sample Received: 25-FEB-1988

Tentatively Identified Compounds

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880307-056

Date Analyzed: 7-MAR-1988
Analysis Procedure Number: EPA 624
Conc/Dilution Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
	unknown voa #1	5 J	76131	Freon 113	12 J
	aliphatic hydrocarbon #1	5 J		aliphatic hydrocarbon #2	6 J
	aliphatic hydrocarbon t3	3 J		diacetone alcohol	13 J
	unknowns	4 J			

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for the sample.
B - Analyte uas found in the reagent blank as well as the swple.
J - Indicates an estimated value.
ND - Not Detected.

:id/Base/Neutral Organics Extraction Data

:tracted Sample Weight = 1000
nal Extracted Volume = 1
:traction Method = Separatory Funnel
':traction Solvent = Methylene Chloride
:traction Cleanup = SODIUM SULFATE
;sociated Blank = 880301-004
ıalyst = SK POLING
ate Completed = 1-MAR-1988

AnaLIS ID: 880227-018
Laboratory Name: Organic Mass Spectroscopy
File ID: 07714
Instrument ID: HP5985
Data Release Authorized By: DC Canada

Customer Sample ID: BH-67
Customer Name: MIKE GREEN
Sample Matrix: WATER
Requisition Number: 412
Date Sample Received: 25-FEB-1988

B/N Fraction Organic Compounds - CLP

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880301-004

Date Analyzed: 11-MAR-1988
Analysis Procedure Number: EPA 625
Conc/Dilution Factor: 10
Analyst: L HOLSOPPLE

CAS		ug/l	CAS	ug/l
117-84-0	di-n-octylphthalate	01 JB		
205-99-2	benzo(b)fluoranthene	5U		
207-08-9	benzo(k)fluoranthene	5U		
50-32-8	benzo(a)pyrene	5U		
193-39-5	indeno(1,2,3-cd)pyrene	5U		
53-70-3	dibenz(a,h)anthracene	5U		
191-24-2	benzo(g,h,i)perylene	5U		

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for the sample.
B - Analyte was found in the reagent blank as well as the sample.
J - Indicates an estimated value.
ND - Not Detected.

Surrogate Recovery Data

Surrogate Compound	Amount Spiked	Amount Recovered	Percent Recovered
2-FLUOROPHENOL	0	0	
PHENOL-D5	0	0	
2,4,6-TRIBROMOPHENOL	0	0	
NITROBENZENE-D5	100	63.0	63.0
2-FLUOROBIPHENYL	100	50.0	50.0
TERPHENYL-D14	100	53.0	53.0

326024

ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880227-018
Laboratory Name: Organic Mass Spectroscopy
File ID: 07714
Instrument ID: HP5985
Data Release Authorized By: DC Canada

Customer Sample ID: GM-67
Customer Name: MIKE GREEN
Sample Matrix: WATER
Requisition Number: 412
Date Sample Received: 25-FEB-1988

B/N Fraction Organic Compounds - CLP

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880301-004

Date Analyzed: 11-MAR-1988
Analysis Procedure Number: EPA 625
Conc/Dilution Factor: 10
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
111-44-4	bis(2-chloroethyl)ether	5u	83-32-9	acenaphthene	5U
541-73-1	1,3-dichlorobenzene	1 J	132-64-9	dibenzofuran	5u
106-46-7	1,4-dichlorobenzene	2 J	121-14-2	2,4-dinitrotoluene	5U
95-50-1	1,2-dichlorobenzene	2 J	606-20-2	2,6-dinitrotoluene	5U
39638-32-9	bis(2-chloroisopropyl)ether	5U	84-66-2	diethylphthalate	5U
621-64-7	n-nitrosodi-n-propylamine	5U	7005-72-3	4-chlorophenyl-phenylether	5U
67-72-1	hexachloroethane	5U	86-73-7	fluorene	5U
98-95-3	nitrobenzene	5u	100-01-6	4-nitroaniline	25u
78-59-1	isophorone	5U	86-30-6	n-nitrosodiphenylamine	5U
111-91-1	bis(2-chloroethoxy)methane	5U	101-55-3	4-bromophenyl-phenylether	5U
120-82-1	1,2,4-trichlorobenzene	5u	118-74-1	hexachlorobenzene	5U
1-20-3	naphthalene	5U	85-01-8	phenanthrene	5U
106-47-8	4-chloroaniline	5U	120-12-7	anthracene	5U
87-68-3	hexachlorobutadiene	5U	84-74-2	di-n-butylphthalate	5U
91-57-6	2-methylnaphthalene	5U	206-44-0	fluoranthene	5U
77-47-4	hexachlorocyclopentadiene	5U	129-00-0	pyrene	5U
91-58-7	2-chloronaphthalene	5U	85-68-7	butylbenzylphthalate	5U
88-74-4	2-nitroaniline	25U	91-94-1	3,3'-dichlorobenzidine	10U
131-11-3	dimethylphthalate	5U	56-55-3	benzo(a)anthracene	5U
208-96-8	acenaphthylene	5U	117-81-7	bis(2-ethylhexyl)phthalate	5u
99-09-2	3-nitroaniline	25U	218-01-9	chrysene	5u

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for the sample.
B - Analyte was found in the reagent blank as well as the sample.
J - Indicates an estimated value.
ND - Not Detected.

ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880227-018
Laboratory Name: Organic Mass Spectroscopy
File ID: > 06916
Instrument ID: 96 1
Data Release Authorized By: DC Canada

Customer Sample ID: GH-67
Customer Name: MIKE GREEN
Sample Matrix: WATER
Rquisition Number: 412
Date Sample hived: 25-FEB-1988

Volatile Organic Compounds - CLP

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880307-056

Date Analyzed: 7-MAR-1988
Analysis Procedure Number: EPA 624
Conc/Dilution Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
74-87-3	chloromethane	10U	79-00-5	1,1,2-trichloroethane	5U
74-83-9	bromomethane	10U	71-43-2	benzene	5U
75-01-4	vinyl chloride	10U	10061-02-6	trans-1,3-dichloropropene	5U
75-00-3	chloroethane	10U	110-75-8	2-chloroethylvinyl ether	10U
75-09-2	methylene chloride	5U	75-25-2	bromoform	5U
67-64-1	acetone	10U	108-10-1	4-methyl-2-pentanone	IOU
75-15-0	carbon disulfide	5U	591-78-6	2-hexanone	10U
75-35-4	1,1-dichloroethene	5U	127-18-4	tetrachloroethene	5U
75-34-3	1,1-dichloroethane	3 J	79-34-5	1,1,2,2-tetrachloroethane	5U
156-60-5	trans-1,2-dichloroethene	5U	108-88-3	toluene	.7 JB
67-66-3	chloroform	5U	108-90-7	chlorobenzene	3 5
107-06-2	1,2-dichloroethane	5U	100-41-4	ethylbenzene	5U
78-93-3	2-butanone	10U	100-42-5	styrene	5U
71-55-6	1,1,1-trichloroethane	5U		total xylenes	5U
56-23-5	carbon tetrachloride	5U			
108-05-4	rinyl acetate	10U			
75-27-4	bromodichloromethane	5U			
78-87-5	1,2-dichloropropane	5U			
10061-01-5	cis-1,3-dichloropropene	5U			
79-01-6	trichloroethene	5U			
124-48-1	dibromochloromethane	5U			

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for the sample.
B - Analyte was found in the reagent blank as well as the sample.
J - Indicates an estimated value.
ND - Not Detected.

Surrogate Recovery Data

Surrogate Compound	hunt Spiked	Amount Recovered	Percent Recovered
TOLUENE-D8	50	51.0	102.0
BROMOFLUOROBENZENE	50	46.0	92.0
1,2-DICHLOROETHANE-D4	50	47.0	94.0

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PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

— #1017F00625

Sample Date 2/24/88

Monitoring Well # GM-67

Well Type:

Well Name Shallow

Corrective-Action

Classification of Groundwater G-2

Well Developed* Prior to Sample Collection (Yes/No) Yes

Ground Water Elevation (above MSL) 2.31 ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Peri-staltic Pump	150.1	5.71		Unfiltered	
	Specific conductance	"	120.1	1900	umhos/cm	"	
	Sodium	"	200.7	130	mg/L	"	Nitric Acid
	Chloride	"	300.0	200	mg/L	"	
	BN	Teflon Bailer	625	See attached	ug/L	"	
	VOC	"	624	See attached	ug/L	"	

*Well development is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

DER Form 17-1.216(2)
Effective January 1, 1983

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ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880227-017
Laboratory Name: Organic Mass Spectroscopy
File ID: 07713
Instrument ID: HP5985
Data Release Authorized By: DC Canada

Customer Sample ID: GH-66
Customer Name: MIKE GREEN
Sample Matrix: WATER
Rquisition Number: 412
Date Sample Received: 25-FEB-1988

Tentatively Identified Compounds

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture :
Percent Moisture (decanted):
Associated Blank: 880301-004

Date Analyzed: 11-MAR-1988
Analysis Procedure Number: EPA 625
Conc/Dilution Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
	aliphatic hydrocarbon #1	14 J		aliphatic hydrocarbon #2	16 J
	aliphatic hydrocarbon #3	8 J		chlorobenzene	J
	unknoun ether	14 J		unknown alkene	9 J
	sulfur	67 J		unknowns	110 J

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected, The number is the attainable detection limit for the sample.
B - Analyte was found in the reagent blank as well as the sample.
J - Indicates an estimated value.
ND - Not Detected.

:id/Base/Neutral Organics Gtraction Data

..tracted Sample Weight = 330
'nal Extracted Volume = 1
:traction Method = Separatory Funnel
traction Solvent = Methylene Chloride
.xtraction Cleanup = SODIUM SULFATE
-sociated Blank = 880301-004
ıalyst = SK POLING
'3te Completed = 1-MAR-1988

***** b e n t s from the Organic Mass Spectroscopy Laboratory *****

BASE/NEUTRAL SURROGATE RECOVERY — SAMPLE FLAG

'ıis sample(s) does not meet CLP SOW or laboratory QAP criteria for :urrogate Standard % Recovery for extractable organics. Two or more ıse/neutral surrogate standards were outside acceptance criteria limits. ıternal standard areas were uithin CLP SOW and laboratory QAP acceptance :riteria suggesting that either a sample matrix problem exists or that 'he less soluble base/neutral surrogates (which tend to precipitate iring refrigerated storage) were not completely dissolved when added to ıe sample aliquot. Sample Rep. and Sample Rmiving have no more ample(s) available for extraction rerun.

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resample must be obtained by the customer for clarification of this xception criteria.

ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880227-017
Laboratory Nane: Organic Mass Spectroscopy
File ID: 07713
Instrument ID: HP5985
Data Release Authorized By: DC Canada

Customer Sanple ID: GH-66
Customer Name: MIKE GREEN
Sample Matrix: WATER
Requisition Number: 412
Date Sample Received: 25-FEB-1988

B/N Fraction Organic Compounds - CLP

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880301-004

Date Analyzed: 11-MAR-1988
Analysis Procedure Number: EPA 625
Conc/Dilution Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS	ug/l
117-84-0	di-n-octylphthalate	1 JB		
205-99-2	benzo(b)fluoranthene	15U		
207-08-9	benzo(k)fluoranthene	15U		
50-32-8	benzo(a)pyrene	15U		
193-39-5	indeno(1,2,3-cd)pyrene	15U		
53-70-3	dibenr(a,h)anthracene	15U		
191-24-2	benzo(g,h,i)perylene	15U		

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for the sample.
B - kalyte uas found in the reagent blank as well as the sample.
J - Indicates an estimated value.
ND - Not Detected.

Surrogate Recovery Data

Surrogate Compound	Amount Spiked	Amount Recovered	Percent Recovered
2-FLUOROPHENOL	0	0	
PHENOL-D5	0	0	
2,4,6-TRIBROMOPHENOL	0	0	
NITROBENZENE-D5	0	0	
2-FLUOROBIPHENYL	100	50.0	50.0
TERPHENYL-D14	100	18.0	18.0

ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880227-017
laboratory Name: Organic Mass Spectroscopy
File ID: 07713
Instrument ID: HP5985
Data Release Authorized By: DC Canada

Customer Sample ID: 81-66
Customer Name: MIKE GREEN
Sample Matrix: WATER
Rquisition Number: 412
Date Sample Received: 25-FEB-1988

B/N Fraction Organic Compounds - CLP

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880301-004

Date Analyzed: 11-MAR-1988
Analysis Procedure Number: EPA 625
Conc/Dilution Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
111-44-4	bis(2-chloroethyl)ether	15U	83-32-9	acenaphthene	3 J
541-73-1	1,3-dichlorobenzene	15U	132-64-9	dibenzofuran	15U
106-46-7	1,4-dichlorobenzene	15U	121-14-2	2,4-dinitrotoluene	15U
95-50-1	1,2-dichlorobenzene	11	606-20-2	2,6-dinitrotoluene	15U
39638-32-9	bis(2-chloroisopropyl)ether	15U	84-66-2	diethylphthalate	15U
621-64-7	n-nitrosodi-n-propylanine	15U	7005-72-3	4-chlorophenyl-phenylether	15U
67-72-1	hexachloroethane	15U	86-73-7	fluorene	15U
98-95-3	nitrobenzene	15U	100-01-6	4-nitroaniline	76U
78-59-1	isophorone .	15U	86-30-6	n-nitrosodiphenylamine	15U
111-91-1	bis(2-chloroethoxy)methane	15U	101-55-3	4-bromophenyl-phenylether	15U
120-82-1	1,2,4-trichlorobenzene	15U	118-74-1	hexachlorobenzene	15U
91-20-3	naphthalene	10	85-01-8	phenanthrene	15U
106-47-8	4-chloroaniline	15U	120-12-7	anthracene	15U
87-68-3	hexachlorobutadiene	15U	84-74-2	di-n-butglphthalate	15U
91-57-6	2-methylnaphthalene	15U	206-44-0	fluoranthene	15U
77-47-4	hexachlorocyclopentadiene	15U	129-00-0	pyrene	25
91-58-7	2-chloronaphthalene	15U	85-68-7	butylbenzylphthalate	15U
88-74-4	2-nitroaniline	76u	91-94-1	3,3'-dichlorobenzidine	30U
131-11-3	dimethylphthalate	15U	56-55-3	benzo(a)anthracene	15U
208-96-8	acenaphthylene	15U	117-81-7	bis(2-ethylhexyl)phthalate	15U
99-09-2	3-nitroaniline	76u	218-01-9	chrysene	15U

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for the sample.
B - Analyte was found in the reagent blank as well as the sample.
J - Indicates an estimated value.
ND - Not Detected.

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ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880227-017
Laboratory Name: Organic Mass Spectroscopy
File ID: 06919
Instrument ID: 96 1
Data Release Authorized By: DC Canada

Customer Sample ID: GM-66
Customer Name: MIKE GREEN
Sample Matrix: WATER
Requisition Number: 412
Date Sample Received: 25-FEB-1988

Volatile Organic Compounds - CLP

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880307-056

Date Analyzed: 7-MAR-1988
Analysis Procedure Number: EPA 624
Conc/Dilution Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l
74-87-3	chloromethane	10U
74-83-9	bromomethane	10U
75-01-4	vinyl chloride	170
75-00-3	chloroethane	1 J
75-09-2	methylene chloride	2 JB
67-64-1	acetone	10U
75-15-0	carbon disulfide	5U
75-35-4	1,1-dichloroethene	320 E
75-34-3	1,1-dichloroethane	18
156-60-5	trans-1,2-dichloroethene	1600 E
[illegible]-66-3	chloroform	5U
[illegible]-06-2	1,2-dichloroethane	5U
78-93-3	2-butanone	10U
71-55-6	1,1,1-trichloroethane	5U
56-23-5	carbon tetrachloride	5U
108-05-4	vinyl acetate	10U
75-27-4	bromodichloromethane	5U
78-87-5	1,2-dichloropropane	5U
10061-01-5	cis-1,3-dichloropropene	5U
79-01-6	trichloroethene	4200 E
124-48-1	dibromochloromethane	5U

CAS		ug/l
79-00-5	1,1,2-trichloroethane	5U
71-43-2	benzene	1 J
10061-02-6	trans-1,3-dichloropropene	5U
110-75-8	2-chloroethylvinyl ether	10U
75-25-2	bromoform	5U
108-10-1	4-methyl-2-pentanone	10U
591-78-6	2-hexanone	10U
127-18-4	tetrachloroethene	4 J
79-34-5	1,1,2,2-tetrachloroethane	5U
108-88-3	toluene	8 B
108-90-7	chlorobenzene	6 I
100-41-4	ethylbenzene	.9 J
100-42-5	styrene	5U
	total xylenes	5U

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for the sample.
B - Analyte was found in the reagent blank as well as the sample.
J - Indicates an estimated value.
ND - Not Detected.

Surrogate Recovery Data

Surrogate Compound	Amount Spiked	Amount Recovered	Percent Recovered
[illegible]ENE-D8	50	50.0	100.0
[illegible]OFLUOROBENZENE	50	46.0	92.0
1,2-DICHLOROETHANE-D4	50	45.0	90.0

PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # 1017F00625

Sample Date 2/24/88

Monitoring Well # GM-66

well Type:

Well Name Intermediate

Corrective-Action

Classification of Groundwater G-2

Well Developed* Prior to Sample Collection (Yes/No) Yes

Ground Water Elevation (above MSL) 2.09 ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Peri-staltic Pump	150.1	2.55		Unfiltered	
	Specific conductance	"	120.1	8000	mmhos/cm	"	
	Sodium	"	200.7	670	mg/L	"	Nitric Acid
	Chloride	"	300.0	620	mg/L	"	
	BN	reflon Bailer	625	See attached	ug/L	"	
	VOC	"	624	See attached	ug/L	"	

* Well development is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

DER Form 17-1.216(2)
Effective January 1, 1983

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ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880227-016
Laboratory Name: Organic Mass Spectroscopy
File ID: > 06915
Instrument ID: 96 1
Data Release Authorized By: DC Canada

Customer Sanple ID: GH-65
Customer Name: MIKE GREEN
Sample Matrix: WATER
Requisition Number: 412
Date Sanple Received: 25-FEB-1988

Tentatively Identified Compounds

Date Extracted/Prepared:
Reparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880307-056

Date Analyzed: 7M-1988
Analysis Procedure Number: EPA 624
Conc/Dilution Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
	unknown voa #1	58 J	76131	Freon 113	12 J
	aliphatic hydrocarbon #1	6 J		aliphatic hydrocarbon #2	5 J
	aliphatic hydrocarbon #3	3 J		unknown	2 J

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for the sample.
B - Analyte uas found in the reagent blank as uell as the sample.
J - Indicates an estimated value.
ND - Not Detected.

d Neutral Organics Extraction Data

racted Sample Weight = 1000
al Extracted Volume = 1
raction Method = Separatory Funnel
raction Solvent = Methylene Chloride
raction Cleanup = SODIUM SULFATE
ociated Blank = 880301-004
lyst = SK POLING
e Completed = 1-MAR-1988

ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880227-016
Laboratory Name: Organic Mass Spectroscopy
File ID: 07712
Instrument ID: HP5985
Data Release Authorized By: DC Canada

Customer Sample ID: 84-63
Customer Name: MIKE GREEN
Sample tlatrix: WATER
Requisition Number: 412
Date Sample Received: 25-FEB-1988

B/N fraction Organic Compounds - CLP

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880301-004

Date Analyzed: 11-MAR-1988
Analysis Procedure Number: EPA 625
Conc/Dilution Factor: 10
Analyst: L HOLSOPPLE

CAS		ug/l	CAS	ug/l
117-84-0	di-n-octylphthalate	0.6 JB		
205-99-2	benzo(b)fluoranthene	5U		
207-08-9	benzo(k)fluoranthene	5U		
50-32-8	benzo(a)pyrene	5U		
193-39-5	indeno(1,2,3-cd)pyrene	5U		
53-70-3	dibenz(a,h)anthracene	5U		
191-24-2	benzo(g,h,i)perylene	5U		

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for the sample.
B - Analyte was found in the reagent blank as well as the sample.
J - Indicates an estimated value.
ND - Not Detected.

Surrogate Recovery Data

Surrogate Compound	hunt Spiked	hunt Recovered	Percent Recovered
NITROBENZENE-D5	100	58.0	58.0
2-FLUOROBIPHENYL	100	44.0	44.0
TERPHENYL-D14	100	32.0	32.0

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AnaLIS ID: 880227-016
Laboratory Nae: Organic Mass Spectroscopy
File ID: 07712
Instrument ID: HP5985
Data Release Authorized By: DC Canada

Customer Sample ID: GM-65
Customer Name: HIKE GREEN
Sample Hatrix: WATER
Requisition Number: 412
Date Saple Received: 25-FEB-1988

B/N Fraction Organic Compounds - CLP

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880301-004

Date Analyzed: 11-MAR-1988
Analysis Procedure Number: EPA 625
Conc/Dilution Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
111-44-4	bis(2-chloroethyl)ether	5U	83-32-9	acenaphthene	5U
541-73-1	1,3-dichlorobenzene	5U	132-64-9	dibenzofuran	5U
106-46-7	1,4-dichlorobenzene	5U	121-14-2	2,4-dinitrotoluene	5U
95-50-1	1,2-dichlorobenzene	5U	606-20-2	2,6-dinitrotoluene	5U
39638-32-9	bis(2-chloroisopropyl)ether	5U	84-66-2	diethylphthalate	5u
621-64-7	n-nitroso-di-n-propylamine	5U	7005-72-3	4-chlorophenyl-phenylether	5U
67-72-1	hexachloroethane	5U	86-M-7	fluorene	5U
98-95-3	nitrobenrene	5U	100-01-6	4-nitroaniline	25U
78-59-1	isophorone	5U	86-30-6	n-nitrosodiphenylamine	5U
111-91-1	bis(2-chloroethoxy)methane	5U	101-55-3	4-bromophenyl-phenylether	5U
120-82-1	1,2,4-trichlorobenzene	5U	118-74-1	hexachlorobenzene	5U
	naphthalene	5U	85-01-8	phenanthrene	5U
	4-chloroaniline	5U	120-12-7	anthracene	5U
87-68-3	hexachlorobutadiene	5U	84-74-2	di-n-butylphthalate	5U
91-57-6	2-methylnqhthalene	5U	206-44-0	fluoranthene	5U
77-47-4	hexachlorocyclopentadiene	5U	129-00-0	pyrene	5U
91-58-7	2-chloronaphthalene	5U	85-68-7	butylbenzylphthalate	5U
88-74-4	2-nitroaniline	25U	91-94-1	3,3'-dichlorobenzidine	10U
131-11-3	dimethylphthalate	5u	56-55-3	benzo(a)anthracene	5U
208-96-8	acenaphthylene	5U	117-81-7	bis(2-ethylhexyl)phthalate	5U
99-09-2	3nitroaniline	25U	218-01-9	chrysene	5U

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for the sample.
B - Analyte was found in the reagent blank as well as the sample.
J - Indicates an estimated value.
ND - Not Detected.

ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880227-016
laboratory Name: Organic Mass Spectroscopy
File ID: > 06915
Instrument ID: 96 1
Data Release Authorized By: DC Canada

Customer Sample ID: GM-65
Customer Name: MIKE GREEN
Sample Matrix: WATER
Requisition Number: 412
Date Sample Received: 25-FEB-1988

Volatile Organic Compounds - CLP

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880307-056

Date Analyzed: 7-MAR-1988
Analysis Procedure Number: EPA 624
Conc/Dilution Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
74-87-3	chloromethane	10U	79-00-5	1,1,2-trichloroethane	5U
74-83-9	bromomethane	10U	71-43-2	benzene	5U
75-01-4	vinyl chloride	10U	10061-02-6	trans-1,3-dichloropropene	5U
75-00-3	chloroethane	10U	110-75-8	2-chloroethylvinyl ether	10U
75-09-2	methylene chloride	5U	75-25-2	bromoform	5U
67-64-1	acetone	25 B	108-10-1	4-methyl-2-pentanone	10U
75-15-0	carbon disulfide	5U	591-78-6	2-hexanone	10U
75-35-4	1,1-dichloroethene	5U	127-18-4	tetrachloroethene	5U
75-34-3	1,1-dichloroethane	5U	79-34-5	1,1,2,2-tetrachloroethane	5U
156-60-5	trans-1,2-dichloroethene	5U	108-88-3	toluene	.6 JB
67-66-3	chloroform	5U	108-90-7	chlorobenzene	5U
107-06-2	1,2-dichloroethane	5U	100-41-4	ethylbenzene	5U
78-93-3	2-butanone	10U	100-42-5	styrene	5U
71-55-6	1,1,1-trichloroethane	5U		total xylenes	5U
56-23-5	carbon tetrachloride	5U			
108-05-4	vinyl acetate	10U			
75-27-4	bromodichloromethane	5U			
78-87-5	1,2-dichloropropane	5U			
10061-01-5	cis-1,3-dichloropropene	5U			
79-01-6	trichloroethene	5U			
124-48-1	dibromochloromethane	5U			

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for the sample.
B - Analyte was found in the reagent blank as well as *the* sample.
J - Indicates an estimated value.
ND - Not Detected.

Surrogate Recovery Data

Surrogate Compound	Amount Spiked	Amount Recovered	Percent Recovered
TOLUENE-D8	50	51.0	102.0
BROMOFLUOROBENZENE	50	47.0	94.0
1,2-DICHLOROETHANE-D4	50	44.0	88.0

PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # 1017F00625

Sample Date 2/24/88

Monitoring Well # GM-65

Well Type:

Well Name Deep

Corrective-Action

Classification of Groundwater G 2

Well Developed* Prior to Sample Collection (Yes/No) Yes

Ground Water Elevation (above MSL) 2.02 ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preservatives Added
	pH	Peri-staltic Pump	150.1	6.11		Unfiltered	
	Specific conductance	"	120.1	625	mhos/cm	"	
	Sodium	"	200.7	110	mg/L	"	Jitric Acid
	Chloride	"	300.0	180	mg/L	"	
	BN	ref lon Bailer	625	See attached	ug/L	"	
	VOC	"	624	See attached	ug/L	"	

* Well development is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

DER Form 17-1.216 (2)
Effective January 1, 1983

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ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880224-116
Laboratory Name: Organic Mass Spectroscopy
File ID: 07664
Instrument 13: HP5985
Data Release Authorized By: DC Canada

Customer Sample ID: GM-64
Customer Name: MIKE GREEN
Sample Matrix: WATER
Requisition Number:
Date Sample Received: 24-FEB-1988

Tentatively Identified Compounds

Date Extracted/Prepared:
Preparatios Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blink: 880226-096

Date Analyzed: 4-MAR-1988
Analysis Procedure Number: EPA 625
Conc/Dilution Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
	sulfur	130 J		unknown amide/amine	15 J
	unknowns	6 J			

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for the sample.
B - Analyte was found in the reagent blank as well as the sample.
J - Indicates an estimated value.
ND - Not Detected.

Acid/Base/Neutral Organics Extraction Data

Extracted Sample Weight = 1000
Final Extracted Volume = 1
Extraction Method = Separatory Funnel
Extraction Solvent = Methylene Chloride
Extraction Cleanup = SODIUM SULFATE
Associated Blank = 880226-096
Analyst = TM KREIS
Date Completed = 26-FEB-1988

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AnaLIS ID: 880224-116
Laboratory Name: Organic Mass Spectroscopy
File 15: 07664
Instrument 15: HP5985
Data Release Authorized By: DC Canada

Customer Swple ID: GM-64
Customer Nane: HIKE GREEN
Sample Matrix: WATER
Requisition Number:
Date Sample Received: 24-FEB-1988

B/N fraction Organic Compounds - CLP

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880226-096

Date Analyzed: 4-MAR-1988
Analysis Procedure Number: EPA 625
Conc/Dilotion Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
117-84-0	di-n-octylphthalate	0.5 J			
205-99-2	benzo(b)fluoranthene	5U			
207-08-9	benzo(k)fluoranthene	5U			
50-32-8	benzo(a)pyrene	5U			
193-39-5	indeno(1,2,3-cd)pyrene	5U			
53-70-3	dibenz(a,h)anthracene	5U			
191-24-2	benzo(g,h,i)perylene	5U			

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for the sample.
B - Analyte was found in the reagent blank as well as the sample.
J - Indicates an estimated value.
ND - Not Detected.

Surrogate Recovery Drts

Surrogate Compound	Amount Spiked	Amount Recovered	Percent Recovered
2-FLUOROPHENOL	0	0	
PHENOL-D5	0	0	
2,4,6-TRIBROMOPHENOL	0	0	
NITROBENZENE-D5	100	61.0	61.0
2-FLUOROBIPHENYL	100	49.0	49.0
TERPHENYL-D14	100	51.0	51.0

ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880224-116
Laboratory Name: Organic Mass Spectroscopy
File ID: 07664
Instrument ID: HP5985
Data Release Authorized By: DC Canada

Customer Simp:~ ID: GH-64
Customer Name: MIKE GREEN
Sample Matrix: WATER
Requisition Number:
Date Sample Received: 24-FEB-1988

B/N Fraction Organic Compounds - CLP

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880226-096

Date Analyzed: 4-MAR-1988
Analysis Procedure Number: EPA 625
Conc/Dilution Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
111-44-4	bis(2-chloroethyl)ether	5U	83-32-9	acenaphthene	5U
541-73-1	1,3-dichlorobenzene	2 J	132-64-9	dibenzofuran	5U
106-46-7	1,4-dichlorobenzene	5U	121-14-2	2,4-dinitrotoluene	5U
95-50-1	1,2-dichlorobenzene	10	606-20-2	2,6-dinitrotoluene	5U
39638-32-9	bis(2-chloroisopropyl)ether	5U	84-66-2	diethylphthalate	5U
621-64-7	n-nitroso-di-n-propylamine	5U	7005-72-3	4-chlorophenyl-phenylether	5U
67-72-1	hexachloroethane	5U	86-73-7	fluorene	5U
98-95-3	nitrobenzene	5U	100-01-6	4-nitroaniline	25U
78-59-1	isophorone	5U	86-30-6	n-nitrosodiphenylamine	5U
111-91-1	bis(2-chloroethoxy)methane	5U	101-55-3	4-bromophenyl-phenylether	5U
120-82-1	1,2,4-trichlorobenzene	5U	118-74-1	hexachlorobenzene	5U
91-20-3	naphthalene	5U	85-01-8	phenanthrene	5U
106-47-8	4-chloroaniline	5U	120-12-7	anthracene	5U
87-68-3	hexachlorobutadiene	5U	84-74-2	di-n-butylphthalate	5U
91-57-6	2-methylnaphthalene	5U	206-44-0	fluoranthene	5U
77-47-4	hexachlorocyclopentadiene	5U	129-00-0	pyrene	5U
91-58-7	2-chloronaphthalene	5U	85-68-7	butylbenzylphthalate	5U
88-74-4	2-nitroaniline	25U	91-94-1	3,3'-dichlorobenzidine	10U
131-11-3	dimethylphthalate	5U	56-55-3	benzo(a)anthracene	5U
208-96-8	acenaphthylene	5U	117-81-7	bis(2-ethylhexyl)phthalate	12
99-09-2	3-nitroaniline	25U	218-01-9	chrysene	5U

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for the sample.
B - Analyte was found in the reagent blank as well as the sample.
J - Indicates an estimated value.
ND - Not Detected.

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ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880224-116
Laboratory Name: Organic Mass Spectroscopy
File ID:) 06872
Instrument ID: 96 1
Data Release Authorized By: DC Canada

Customer Sample ID: GM-64
Customer Name: MIKE GREEN
Sample Matrix: WATER
Requisition Number:
Date Sample Received: 24-FEB-1988

Volatile Organic Compounds - CLP

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880303-089

Date Analyzed: 3-MAR-1988
Analysis Procedure Number: EPA 624
Conc/Dilution Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
74-87-3	chloromethane	10U	79-00-5	1,1,2-trichloroethane	5U
74-83-9	bromomethane	10U	71-43-2	benzene	5U
75-01-4	vinyl chloride	10U	10061-02-6	trans-1,3-dichloropropene	5U
75-00-3	chloroethane	10U	110-75-8	2-chloroethylvinyl ether	10U
75-09-2	methylene chloride	5U	75-25-2	bromoform	5U
67-64-1	acetone	10U	108-10-1	4-methyl-2-pentanone	10U
75-15-0	carbon disulfide	5U	591-78-6	2-hexanone	10U
75-35-4	1,1-dichloroethene	5U	127-18-4	tetrachloroethene	5U
75-34-3	1,1-dichloroethane	12	79-34-5	1,I,2,2-tetrachloroethane	5U
156-60-5	trans-1,2-dichloroethene	5U	108-88-3	toluene	.7 JB
67-66-3	chloroform	5U	108-90-7	chlorobenzene	5 J
107-06-2	1,2-dichloroethane	5U	100-41-4	ethylbenzene	5U
78-93-3	2-butanone	10U	100-42-5	styrene	5U
71-55-6	1,1,1-trichloroethane	5U		total xylenes	5U
56-23-5	carbon tetrachloride	5U			
108-05-4	vinyl acetate	10U			
75-27-4	bromodichloromethane	5U			
78-87-5	1,2-dichloropropane	5U			
10061-01-5	cis-1,3-dichloropropene	5U			
79-01-6	trichloroethene	5U			
124-48-1	dibromochloromethane	5U			

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for the sample.
B - Analyte was found in the reagent blank as well as the sample.
J - Indicates an estimated value.
ND - Not Detected.

Surrogate Recovery Data

Surrogate Compound	Amount Spiked	Amount Recovered	Percent Recovered
TOLUENE-D8	50	49.0	98.0
BROMOFLUOROBENZENE	50	50.0	100.0
1,2-DICHLOROETHANE-D4	50	44.0	88.0

PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # 1017F00625

Sample Date 2/23/88

Monitoring Well # GM-64

Well Type:

Well Name Intermediate

Corrective-Action

Classification of Groundwater G-2

Well Developed* Prior to Sample Collection (Yes/No) Yes

Ground Water Elevation (above MSL) 1.07 ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Peri-staltic Pump	150.1	7.27		Unfiltered	
	Specific conductance	"	120.1	1800	mmhos/cm	"	
	sodium	"	200.7	200	mg/L	"	Nitric Acid
	Chloride	"	300.0	340	mg/L	"	
	BN	Teflon Bailer	625	See attached	ug/L	"	
	VOC	"	624	See attached	ug/L	"	

* Well development is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

DER Form 17-1.216(2)
Effective January 1, 1983

326033

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ORGANIC ##LYSIS DATA REPORT

AnaLIS ID: 880224-115
Laboratory Nane: Organic Mass Spectroscopy
File ID:) 06867
Instrument ID: 96 1
Data Release Authorized By: DC Canada

Customer Sample ID: M-63
Customer Nae: MIKE GREEN
Sample Matrix: WATER
Requisition Number:
Date Sample Received: 24-FEB-1988

Tentatively Identified Compounds

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880302-042

Date Analyzed: 2-MAR-1988
Analysis Procedure Number: EPA 624
Conc/Dilution Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
	PROBABLE DICHLOROBENZENE	5 J		unknown amide/amine	10 J

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for the sample.
B - Analyte was found in the reagent blank as well as the sample.
J - Indicates an estimated value.
ND - Not Detected.

cid/Base/Neutral Organics Extraction Data

xt 1 Sample Weight = 1000
ina extracted Volume = 1
xtraction Method = Separatory Funnel
xtraction Solvent = Methylene Chloride
xtraction Cleanup = SODIUM SULFATE
ssociated Blank = 880226-096
nalyst = TM KREIS
ate Completed = 26-FEB-1988

AnaLIS ID: 880224-115
Laboratory Name: Organic Mass Spectroscopy
File ID: 07663
Instrument ID: HP5985
Data Release Authorized By: DC Canada

Customer Sample ID: GM-63
Customer Name: MIKE GREEN
Sample Matrix: WATER
Requisition Number:
Date Sample Received: 24-FEB-1988

B/N Fraction Organic Compounds - CLP

Date Extracted/Prepared:
Preparation Procedure Number:
Percent h isture:
Percent Moisture (decanted):
Associated Blank: 880226-096

Date Analyzed: 4-MAR-1988
Analysis Procedure Number: EPA 625
Conc/Dilution Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
117-84-0	di-n-octylphthalate	5U			
205-99-2	benzo(b)fluoranthene	5U			
207-08-9	benzo(k)fluoranthene	5U			
50-32-8	benzo(a)pyrene	5U			
193-39-5	indeno(1,2,3-cd)pyrene	5U			
53-70-3	dibenz(a,h)anthracene	5U			
191-24-2	benzo(g,h,i)perylene	5U			

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for the sample.
B - Analyte was found in the reagent blank as well as the sample.
J - Indicates an estimated value.
ND - Not Detected.

Surrogate Recovery Data

Surrogate Compound	Amount Spiked	Amount Recovered	Percent Recovered
2-FLUOROPHENOL	0	0	
PHENOL-D5	0	0	
2,4,6-TRIBROMOPHENOL	0	0	
NITROBENZENE-D5	100	61.0	61.0
2-FLUOROBIPHENYL	100	55.0	55.0
TERPHENYL-D14	100	26.0	26.0

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ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880224-115
Laboratory Name: Organic Mass Spectroscopy
File ID: 07663
Instrument ID: HP5985
Data Release Authorized By: DC Canada

Customer Sample ID: W-63
Customer Name: MIKE GREEN
Sample Matrix: WATER
Requisition Number:
Date Sample Received: 24-FEB-1988

B/N Fraction Organic Compounds - CLP

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880226-096

Date Analyzed: 4-MAR-1988
Analysis Procedure Number: EPA 625
Conc/Dilution Facto:: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
111-44-4	bis(2-chloroethyl)ether	5U	83-32-9	acenaphthene	5U
541-73-1	1,3-dichlorobenzene	5U	132-64-9	dibenzofuran	5U
106-46-7	1,4-dichlorobenzene	5U	121-14-2	2,4-dinitrotoluene	5U
95-50-1	1,2-dichlorobenzene	5U	606-20-2	2,6-dinitrotoluene	5U
39638-32-9	bis(2-chloroisopropyl)ether	5U	84-66-2	diethylphthalate	5U
621-64-7	n-nitroso-di-n-propylamine	5U	7005-72-3	4-chlorophenyl-phenylether	5U
67-72-1	hexachloroethane	5U	86-73-7	fluorene	5U
98-95-3	nitrobenzene	5U	100-01-6	4-nitroaniline	25U
78-59-1	isophorone	5U	86-30-6	n-nitrosodiphenylamine	5U
111-91-1	bis(2-chloroethoxy)methane	5U	101-55-3	4-bromophenyl-phenylether	5U
120-82-1	1,2,4-trichlorobenzene	5U	118-74-1	hexachlorobenzene	5U
91-20-3	naphthalene	5U	85-01-8	phenanthrene	5U
106-47-8	4-chloroaniline	5U	120-12-7	anthracene	5U
87-68-3	hexachlorobutadiene	5U	84-74-2	di-n-butylphthalate	5U
91-57-6	2-methylnaphthalene	5U	206-44-0	fluoranthene	5U
77-47-4	hexachlorocyclopentadiene	5U	129-00-0	pyrene	5U
91-58-7	2-chloronaphthalene	5U	85-68-7	butylbenzylphthalate	5U
88-74-4	2-nitroaniline	25U	91-94-1	3,3'-dichlorobenzidine	10U
131-11-3	dimethylphthalate	5U	56-55-3	benzo(a)anthracene	5U
208-96-8	acenaphthylene	5U	117-81-7	bis(2-ethylhexyl)phthalate	5U
99-09-2	3-nitroaniline	25U	218-01-9	chrysene	5U

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for the sample.
B - Analyte was found in the reagent blank as well as the sample.
J - Indicates an estimated value.
ND - Not Detected.

ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880224-115
Laboratory Name: Organic Mass Spectroscopy
File ID: > 06867
Instrument ID: 96 1
Data Release Authorized By: DC Canada

Customer Sample ID: GM-63
Customer Name: MIKE GREEN
Sample Matrix: WATER
Requisition Number:
Date Sample Received: 24-FEB-1988

Volatile Organic Compounds - CLP

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880302-042

Date Analyzed: 2-MAR-1988
Analysis Procedure Number: EPA 624
Conc/Dilution Frctor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
74-87-3	chloromethane	10U	79-00-5	1,1,2-trichloroethane	5U
74-83-9	bromomethane	10U	71-43-2	benzene	5U
75-01-4	vinyl chloride	10U	10061-02-6	trans-1,3-dichloropropene	5U
75-00-3	chloroethane	10U	110-75-8	2-chloroethylvinyl ether	10U
75-09-2	methylene chloride	5U	75-25-2	bromoform	5U
67-64-1	acetone	10U	108-10-1	4-methyl-2-pentanone	10U
75-15-0	carbon disulfide	5U	591-78-6	2-hexanone	10U
75-35-4	1,1-dichloroethene	5U	127-18-4	tetrachloroethene	5U
75-34-3	1,1-dichloroethane	5U	79-34-5	1,1,2,2-tetrachloroethane	5U
156-60-5	trans-1,2-dichloroethene	5U	108-88-3	toluene	5U
67-66-3	chloroform	5U	108-90-7	chlorobenzene	.3 JB
107-06-2	1,2-dichloroethane	5U	100-41-4	ethylbenzene	5U
78-93-3	2-butanone	10U	100-42-5	styrene	5U
71-55-6	1,1,1-trichloroethane	5U		total xylenes	5U
56-23-5	carbon tetrachloride	5U			
108-05-4	vinyl acetate	10U			
75-27-4	bromodichloromethane	5U			
78-87-5	1,2-dichloropropane	5U			
10061-01-5	cis-1,3-dichloropropene	5U			
79-01-6	trichloroethene	5U			
124-48-1	dibromochloromethane	5U			

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for the samp 5.
B - Analyte was found in the reagent blank as well as the sample.
J - Indicates an estimated value.
ND - Not Detected.

Surrogate Recovery Data

Surrogate Compound	Amount Spiked	Amount Recovered	Percent Recovered
TOLUENE-D8	50	50.C	100.0
BROMOFLUOROBENZENE	50	44.0	88.0
1,2-DICHLOROETHANE-D4	50	42.0	84.0

326035

PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

S # 1017F00625

Sample Date 2/23/88

Monitoring Well # GM-63

Well Type:

Well Name Deep

Corrective-Action

Classification of Groundwater G-2

Well Developed* Prior to Sample Collection (Yes/No) Yes

Ground Water Elevation (above MSL) 1.92 ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preservatives Added
	pH	Peri-staltic Pump	150.1	6.53		Unfiltered	
	Specific conductance	"	120.1	3100	mmhos/cm	"	
	Sodium	"	200.7	420	mg/L	"	Nitric Acid
	Chloride	"	300.0	800	mg/L	"	
	BN	Teflon Bailer	625	See attached	ug/L	"	
	VOC	"	624	See attached	ug/L	"	

* Well development is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

DER Form 17-1.216(2)
Effective January 1, 1983

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ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880227-015
Laboratory Name: Organic Mass Spectroscopy
File ID: > 06914
Instrument ID: 96 1
Data Release Authorized By: DC Canada

Customer Saple ID: GH-9
Customer Name: MIKE GREEN
Sample Matrix: WATER
Requisition Number: 412
Date Sample Received: 25-FEB-1988

Tentatively Identified Compounds

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880307-056

Date Analyzed: 7-MAR-1988
Analysis Procedure Number: EPA 624
Conc/Dilution Factor: 1.8
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
	unknown voa #1	85 J	76131	freon 113	15 J
	aliphatic hydrocarbon #1	3 J		aliphatic hydrocarbon #2	4 J
	aliphatic hydrocarbon #3	2 J		aliphatic hydrocarbon #4	2 J
	aryl hydrocarbon	3 J		unknown	8 J

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for the sample.
B - Analyte was found in the reagent blank as well as the sample.
J - Indicates an estimated value.
ND - Not Detected.

.id/Base/Neutral Organics Extraction Data

:tracted Sample Height = 1000
nal Extracted Volume = 1
traction Method = Separatory Funnel
.traction Solvent = Methylene Chloride
.xtraction Cleanup = SODIUM SULFATE
ssociated Blank = 880301-004
:alyst = SK POLING
ate Completed = 1-MAR-1988

AnaLIS ID: 880227-015
Laboratory Name: Organic Mass Spectroscopy
File ID: 07711
Instrument ID: HP5985
Data Release Authorized By: DC Canada

Customer Sample ID: GH-9
Customer Name: MIKE GREEN
Sample Matrix: WATER
Requisition Number: 412
Date Sample Received: 25-FEB-1988

B/N Fraction Organic Compounds - CLP

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880301-004

Date Analyzed: 11-MAR-1988
Analysis Procedure Number: EPA 625
Conc/Dilution Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
117-84-0	di-n-octylphthalate	5U			
205-99-2	benzo(b)fluoranthene	5U			
207-08-9	benro(k)fluoranthene	5U			
50-32-8	benzo(a)pyrene	5U			
193-39-5	indeno(1,2,3-cd)pyrene	5U			
53-70-3	dibenz(a,h)anthracene	5U			
191-24-2	benzo(g,h,i)perylene	5U			

Data Reporting Qualifiers:

U - Compound uas analyzed for but not detected. The number is the attainable detection limit for the sample.
B - Analyte uas found in the reagent blank as well 'as the sample.
J - Indicates an estimated value.
ND - Not Detected.

Surrogate Recovery Data

Surrogate Compound	Amount Spiked	Aount Recovered	Percent Recovered
NITROBENZENE-D5	100	54.0	54.0
2-FLUOROBIPHENYL	100	46.0	46.0
TERPHENYL-D14	100	48.0	48.0

ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880227-015
laboratory Name: Organic Mass Spectroscopy
File ID: 07711
Instrument ID: HP5985
Data Release Authorized By: DC Canada

Customer Sample ID: GH-9
Customer Name: MIKE GREEN
Sample Matrix: WATER
Requisition Number: 412
Date Sample Received: 25-FEB-1988

B/N Fraction Organic Compounds - CLP

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880301-004

Date Analyzed: 11-MAR-1988
Analysis Procedure Number: EPA 625
Conc/Dilution Factor: 10
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
111-44-4	bis(2-chloroethyl)ether	5U	83-32-9	acenaphthene	5U
541-73-1	1,3-dichlorobenzene	5 J	132-64-9	dibenrofuran	5U
106-46-7	1,4-dichlorobenzene	5 J	121-14-2	2,4-dinitrotoluene	5U
95-50-1	1,2-dichlorobenzene	7 J	606-20-2	2,6-dinitrotoluene	5U
39638-32-9	bis(2-chloroisopropyl)ether	5U	84-66-2	diethylphthalate	5U
621-64-7	n-nitrosodi-a-propylzaine	5U	7005-72-3	4-chlorophenyl-phenylether	5U
67-72-1	hexachloroethane	5U	86-73-7	fluorene	5U
98-95-3	nitrobenzene	5U	100-01-6	4-nitroaniline	25U
78-59-1	isophorone	5U	86-30-6	n-nitrosodiphenylamine	5U
111-91-1	bis(2-chloroethoxy)methane	5U	101-55-3	4-bromophenyl-phenylether	5U
120-82-1	1,2,4-trichlorobenzene	5U	118-74-1	hexachlorobenzene	5U
91-20-3	naphthalene	5U	85-01-8	phenanthrene	5U
106-47-8	4-chloroaniline	5U	120-12-7	anthracene	5U
87-68-3	hexachlorobutadiene	5U	84-74-2	di-n-butylphthalate	5U
91-57-6	2-methylnaphthalene	5U	206-44-0	fluoranthene	5U
77-47-4	hexachlorocyclopentadiene	5U	129-00-0	pyrene	5U
91-58-7	2-chloronaphthalene	5U	85-68-7	butylbenzylphthalate	5U
88-74-4	2-nitroaniline	25U	91-94-1	3,3'-dichlorobenzidine	10U
131-11-3	dimethylphthalate	5U	56-55-3	benzo(a)anthracene	5U
208-96-8	acenaphthylene	5U	117-81-7	bis(2-ethylhexyl)phthalate	5U
99-09-2	3-nitroaniline	25U	218-01-9	chrysene	5U

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for thr sample.
B - Analyte was found in *the* reagent blank as well as the sample.
J - Indicates an estimated value.
ND - Not Detected.

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ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880227-015
Laboratory Name: Organic Hass Spectroscopy
File ID: > 06914
Instrument ID: 96 1
Data Release Authorized By: DC Canada

Customer Sanple ID: GH-9
Customer Nme: HIKE GREEN
Sample Hatrix: WATER
Requisition Number: 412
Date Sample Received: 25-FEB-1988

Volatile Organic Compounds - CLP

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Hoisture (decanted):
Associated Blank: 880307-056

Date Analyzed: 7-MAR-1988
Analysis Procedure Number: EPA 624
Conc/Dilution Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
74-87-3	chloromethane	10U	79-00-5	1,1,2-trichloroethane	5U
74-83-9	bromomethane	10U	71-43-2	benzene	5U
75-01-4	vinyl chloride	10U	10061-02-6	trans-1,3-dichloropropene	5U
75-00-3	chloroethane	10U	110-75-8	2-chloroethylviny1 ether	10U
75-09-2	methylene chloride	5U	75-25-2	bromoform	5U
67-64-1	acetone	54 B	108-10-1	4-methyl-2-pentanone	10U
75-15-0	carbon disulfide	5U	591-78-6	2-hexanone	10U
75-35-4	1,1-dichloroethene	5U	127-18-4	tetrachloroethene	5U
75-34-3	1,1-dichloroethane	5U	79-34-5	1,1,2,2-tetrachloroethane	5U
156-60-5	trans-1,2-dichloroethene	5U	108-88-3	toluene	.7 JB
67-66-3	chloroform	5U	108-90-7	chlorobenzene	5U
107-06-2	1,2-dichloroethane	5U	100-41-4	ethylbenzene	5U
78-93-3	2-butanone	10U	100-42-5	styrene	5U
71-55-6	1,1,1-trichloroethane	5U		total xylenes	5U
56-23-5	carbon tetrachloride	5U			
108-05-4	vinyl acetate	10U			
75-27-4	bromodichloromethane	5U			
78-87-5	1,2-dichloropropane	5U			
10061-01-5	cis-1,3-dichloropropene	5U			
79-01-6	trichloroethene	5U			
124-48-1	dibromochloromethane	5U			

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for the sample.
B - Analyte was found in the reagent blank as well as the sample.
J - Indicates an estimated value.
ND - Not Detected.

Surrogate Recovery Data

Surrogate Compound	Amount Spiked	Amount Recovered	Percent Recovered
TOLUENE-D8	50	50.0	100.0
BROMOFLUOROBENZENE	50	47.0	94.0
1,2-DICHLOROETHANE-D4	50	50.0	100.0

DEPARTMENT OF THE NAVY
NAW PUBLIC WORKS CENTER
NAVAL AIR STATION
PENSACOLA FLORIDA 32508-6500

IN REPLY REFER TO:
5090/1017F00625
Code 476

AUG 11 1988

Hr. William E. Kellenberger, P.E.
Hazardous Waste Engineer
Northwest District
Florida Department of Environmental Regulation
160 Governmental Center
Pensacola, FL 32501-5794

Re: 1017F00625 and Permit Number H017-127026

Dear Mr. Kellenberger:

In compliance with Specific Condition 36 of the referenced permit, the second quarterly report on groundwater monitoring, for the period December 1987 through February 1988, is submitted. Enclosed with this quarterly report is the Laboratory Water Quality Supplement to quarterly report and the Semi-Annual Report - Corrective Action and Compliance Monitoring Programs.

Upon your review of the data submitted in this report, please call Hr. Ed Pike at 452-3790 if you have any questions.

Sincerely,

XTSPAW

copy to:
CO SOUTHNAVFACENGCOM (Code 11433)
Geraghty & Hiller (William Bocskosky)

Enclosures:
(1) Quarterly Report
(2) Laboratory Supplement
(3) Semi-Annual Report

ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880224-093
Laboratory Name: Organic Mass Spectroscopy
file ID:) 06853
Instrument ID: 56 1
Data Release Authorized By: DC Canada

Customer Sample ID: GM-75
Customer Name: MIKE GREEN
Sample Matrix: WATER
Requisition Number:
Date Sample Received: 24-FEB-1988

Tentatively Identified Compounds

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880301-036

Date Analyzed: 1-MAR-1988
Analysis Procedure Number: EPA 624
Conc/Dilution Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
	PROBABLE FREON	5 J		Chlorobenzene	86 J
	unknowns	1100 J			

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for the sample.
B - Analyte was found in the reagent blank as well as the sample.
J - Indicates an estimated value.
ND - Not Detected.

Acid/Base/Neutral Organics Extraction Data

Extracted Sample Weight = 1000
Final Extracted Volume = 1ML
Extraction Method = Separatory Funnel
Extraction Solvent = Methylene Chloride
Extraction Cleanup = SODIUM SULFATE
Associated Blank = 880302-015
Analyst = GG JOLLY
Date Completed = 29-FEB-1988

***** Comments from the Organic Sample Preparation Laboratory *****

FH=7

326039

ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880224-093
Laboratory Name: Orgsnic Mass Spectroscopy
File ID: 07685
Instrument ID: HP5985
Data Release Authorized By: DC Canada

Customer Sample ID: GM-75
Customer Nane: MIKE GREW
Sample Matrix: WATER
Requisition Number:
Date Sample Received: 24-FEE-1998

B/N/A Fraction Organic Compounds - CLP

Date Extracted/Prepared:
Preparati oil Procedure Number :
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880302-015

Date Analyzed: 8-MAR-1988
Analysis Procedure Number: EPA 625
Conc/Dilution Factor: 1.0
Analyst: L HULSOPPLE

CAS		ug/l	CAS		ug/l
100-01-6	4-nitroaniline	50U	53-70-3	dibenzo(a,h)anthracene	10U
534-52-1	2-methyl-4,6-dinitrophenol	50U	191-24-2	benzo(ghi)perylene	10U
86-30-6	n-nitrosodiphenylamine	10U			
101-55-3	4-bromophenyl phenyl ether	10U			
118-74-1	hexachlorobenzene	10U			
87-86-5	pentachlorophenol	50U			
85-01-8	phenanthrene	10U			
120-12-7	anthracene	10U			
84-74-2	di-n-butyl phthalate	0.5 J			
266-44-C	fluoranthene	10U			
129-00-0	pyrene	10U			
85-68-7	benzyl butyl phthalate	10U			
91-94-1	3,3'-dichlorobenzidine	20U			
56-55-3	benzo(a)anthracene	10U			
117-81-7	bis(2-ethylhexyl)phthalate	54			
218-01-9	chrysene	10U			
117-84-0	di-n-octyl phthalate	0.3 J			
205-99-2	benzo(b)fluoranthens	10U			
207-08-9	benzo(k)fluoranthene	10U			
50-32-8	benzo(a)pyrene	10U			
193-39-5	indeno(1,2,3-cd)pyrene	10U			

Data Reporting Qualifiers:

U - Compound uas analyzed for but not detected. Tho number is the attainable detection limit for the sample.
B - Analyte was found in the reagent blank as uell as the sample.
J - Indicates an estimated value.
N - Not Detected.

Surrogate Recovery Data

Surrogate Compound	Amount Spiked	Amount Recovered	Percent Recovered
2-FLUOROPHENOL	200	91.0	45.5
PHENOL-D5	200	41.0	20.5
2,4,6-TRIBROMOPHENOL	200	241.0	120.5
NITROBENZENE-D5	160	47.0	47.0
2-FLUOROBIPHENYL	100	62.0	62.0
TERPHENYL-D14	100	85.0	85.0

ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880224-093
Laboratory Name: Organic Mass Spectroscopy
File ID: 07685
Instrument ID: HP5985
Data Release Authorized By: DC Canada

Customer Sample ID: GY-75
Customer Name: MIKE GREEN
Sample Matrix: WATER
Requisition Number:
Date Sample Received: 24-FEB-1988

B/N/A Fraction Organic Compounds - CLP

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880302-015 . . .

Date Analyzed: 8-MAR-1988
Analysis Procedure Number: EPA 625
Conc/Dilution Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
108-95-2	phenol	10U	106-47-8	4-chloroaniline	10U
111-44-4	bis(2-chloroethyl)ether	10U	87-68-3	hexachlorobutadiene	10U
95-57-8	2-chlorophenol	10U	59-50-7	4-chloro-3-methylphenol	10U
541-73-1	1,3-dichlorobenzene	4 J	91-57-6	2-methylnaphthalene	10U
106-46-7	1,4-dichlorobenzene	8 J	77-47-4	hexachlorocyclopentadiene	10U
100-51-6	benzyl alcohol	10U	88-06-2	2,4,6-trichlorophenol	10U
95-50-1	1,2-dichlorobenzene	22 J	95-95-4	2,4,5-trichlorophenol	50U
95-48-7	2-methylphenol	10U	91-58-7	2-chloronaphthalene	10U
39638-32-9	bis(2-chloroisopropyl)ether	10U	88-74-4	2-nitroaniline	50U
106-44-5	4-methylphenol	10U	131-11-3	dimethylphthalate	10U
621-64-7	n-nitrosodi-n-propylamine	10U	208-96-8	acenaphthylene	10U
67-72-1	hexachloroethane	10U	99-09-2	3-nitroaniline	50U
98-95-3	nitrobenzene	10U	83-32-9	acenaphthene	10U
78-59-1	isophorone	10U	51-28-5	2,4-dinitrophenol	50U
88-75-5	2-nitrophenol	10U	100-02-7	4-nitrophenol	50U
105-67-9	2,4-dimethylphenol	2 J	132-64-9	dibenzofuran	10U
65-85-0	benzoic acid	50U	121-14-2	2,4-dinitrotoluene	10U
111-91-1	bis(2-chloroethoxy)methane	10U	606-20-2	2,6-dinitrotoluene	10U
120-83-2	2,4-dichlorophenol	10U	84-66-2	diethylphthalate	10U
120-82-1	1,2,4-trichlorobenzene	10U	7005-72-3	4-chlorophenyl phenyl ether	10U
91-20-3	naphthalene	1 J	86-73-7	fluorene	10U

Data Reporting Qualifiers:

U - Compound uas analyzed for but not detected. The number is the attainable detection limit for the sample.
E - Analyte was found in the reagent blank as uell as the sample.
J - Indicates an estimated value.
ND - Not Detected.

ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880224-093
Laboratory Name: Organic Mass Spectroscopy
file ID: > 06853
Instrument ID: 96 1
Data Release Authorized by: DC Canada

Customer Sample ID: GM-75
Customer Name: MIKE GREEN
Sample Matrix: WATER
Requisition Number:
Date Sample Received: 24-FEB-1988

Volatile Organic Compounds - CLP

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880301-036

Date Analyzed: 1-MAR-1988
Analysis Procedure Number: EPA 624
Conc/Dilution Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
74-87-3	chloromethane	10U	79-00-5	1,1,2-trichloroethane	5U
74-83-9	bromomethane	10U	71-43-2	benzene	1 J
75-01-4	vinyl chloride	1 J	10061-02-6	trans-1,3-dichloropropene	5U
75-00-3	chloroethane	10U	110-75-8	2-chloroethylvinyl ether	10U
75-09-2	methylene chloride	5U	75-25-2	bromoform	5U
67-64-1	acetone	10U	108-10-1	4-methyl-2-pentanone	10U
75-15-0	carbon disulfide	5U	591-78-6	2-hexanone	10U
75-35-4	1,1-dichloroethene	5U	127-18-4	tetrachloroethene	5U
75-34-3	1,1-dichloroethane	5U	79-34-5	1,1,2,2-tetrachloroethane	5U
156-60-5	trans-1,2-dichloroethene	5U	106-88-3	toluene	1 JB
67-66-3	chloroform	5U	108-90-7	chlorobenzene	170
107-06-2	1,2-dichloroethane	5U	100-41-4	ethylbenzene	.4 J
78-93-3	2-butanone	10U	100-42-5	styrene	5U
71-55-6	1,1,1-trichloroethane	5U		total xylenes	2 J
56-23-5	carbon tetrachloride	5U			
108-05-4	vinyl acetate	10U			
75-27-4	bromodichloromethane	5U			
78-87-5	1,2-dichloropropane	5U			
10061-01-5	cis-1,3-dichloropropene	5U			
79-01-6	trichloroethene	5U			
124-48-1	dibromochloromethane	5U			

Data Reporting Puaiifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for the sample.
B - Analyte was found in the reagent blank as well as the sample.
J - Indicates an estimated value.
ND - Not Detected.

Surrogate Recovery Data

Surrogate Compound	Amount Spiked	Amount Recovered	Percent Recovered
TOLUENE-D8	50	48.0	96.0
BROMOFLUOROBENZENE	50	45.0	90.0
1,2-DICHLOROETHANE-D4	50	51.0	102.0

PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # 1017F00625

Sample Date 2/22/88

Monitoring Well # GM-75

well Type:

Well Name Intermediate

Point-of-Compliance

Classification of Groundwater G-2

Well Developed* Prior to Sample Collection (Yes/No) Yes

Ground Water Elevation (above MSL) 2.62ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Peri-staltic Pump	150.1	6.84		Jnfiltered	
	Specific conductance	"	120.1	2800	umhos/cm	"	
	Manganese	"	200.7	65	ug/L	"	Nitric Acid
	BNA	Teflon Bailer	625	See attached	ug/L	"	
	VOC	"	624	See attached	ug/L	"	

* Well development is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

DER Form 17-1.216(2)
Effective January 1, 1983

326041

621/6

ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880224-092
laboratory Nane: Organic Mass Spectroscopy
File ID: 07684
Instrument ID: HP5985
Data Release Authorized By: DC Canada

Customer Sanple ID: DG-6
Customer Nwe: MIKE GREEN
Sanple Hatrix: WATER
Requisition Nuaber :
Date Sanple Received: 24-FEB-1988

Tentatively Identified Compounds

Date Extracted/Prepared:
Preparation Procedure Number:
Fercent Moisture:
Percent Moisture (decanted):
Associated Blank: 880302-015

Date Analyzed: 8-MAR-1988
Analysis Procedure Number: EPA 625
Conc/Dilution Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
	unknown	260 J			

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for the sample.
B - Analyte was found in the reagent blank as well as the sample.
J - Indicates an estimated value.
ND - Not Detected.

id/Base/Neutral Organics Extraction Data

Extracted Sample Weight = 1000
Final Extracted Volume = 1ML
Extraction Method = Separatory Funnel
Extraction Solvent = Methylene Chloride
Extraction Cleanup = SODIUM SULFATE
Associated Blank = 880302-015
Analyst = GG JOLLY
Date Completed = 29-FEB-1988

***** Comments from the Organic Sample Preparation Laboratory *****

PH=5

ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880224-092
Laboratory Name: Organic Mass Spectroscopy
File ID: 07684
Instrument 13: HP5985
Data Release Authorized By: DC Canada

Customer Sample ID: DG-6
Customer Name: MIKE GREEN
Sample Matrix: WATER
Requisition Number:
Date Sample Received: 24-FEE4988

B/N/A Fraction Organic Compounds - CLP

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880302-015

Date Analyzed: 8-MAR-1988
Analysis Procedure Number: EPA 625
Conc/Dilution Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
100-01-6	4-nitroaniline	50U	53-70-3	dibenzo(a,h)anthracene	10U
534-52-1	2-methyl-4,6-dinitrophenol	50U	191-24-2	benzo(ghi)perylene	10U
86-30-6	n-nitrosodiphenylamine	10U			
101-55-3	4-bromophenyl phenyl ether	10U			
118-74-1	hexachlorobenzene	10U			
87-86-5	pentachlorophenol	50U			
85-01-8	phenanthrene	10U			
120-12-7	anthracene	10U			
84-74-2	di-n-butyl phthalate	10U			
206-44-0	fluoranthene	10U			
129-00-0	pyrene	10U			
85-68-7	benzyl butyl phthalate	0.3 J			
91-94-1	3,3'-dichlorobenzidine	20U			
56-55-3	benzo(a)anthracene	10U			
117-81-7	bis(2-ethylhexyl)phthalate	8 J			
218-01-9	chrysene	10U			
117-84-0	di-n-octyl phthalate	0.4 J			
205-99-2	benzo(b)fluoranthene	10U			
207-08-9	benzo(k)fluoranthene	10U			
50-32-8	benzo(a)pyrene	10U			
193-39-5	indeno(1,2,3-cd)pyrene	10U			

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. *The* number is the attainable detection limit for the sample.
E - Analyte was found in the reagent blank as well as the sample.
J - Indicates an estimated value.
h3 - Not Detected.

Surrogate Recovery Data

Surrogate Compound	Amount Spiked	Amount Recovered	Percent Recovered
2-FLUOROPHENOL	200	77.0	38.5
PHENOL-D5	200	37.0	18.5
2,4,6-TRIBROMOPHENOL	200	253.0	126.5
NITROBENZENE-D5	100	65.0	65.0
2-FLUOROBIPHENYL	100	65.0	65.0
TERPHENYL-D14	106	62.0	82.0

326042

ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880224-092
Laboratory Name: Organic Mass Spectroscopy
File ID: 07684
Instrument 13: HP5985
Data Release Authorized By: DC Canada

Customer Sample ID: DG-6
Custoaer Nane: MIKE GREEN
Sample Matrix: WATER
Requisition Number:
Date Sample Receiued: 24-FEB-1988

B/N/A Fraction Organic Compounds - CLP

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880302-015

Gate Analyzed: 8-MAR-1988
Analysis Procedure Number: EPA 625
Conc/Dilution Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
108-95-2	phenol	10U	106-47-8	4-chloroaniline	10U
111-44-4	bis(2-chloroethyl)ether	10U	87-68-3	hexachlorobutadiene	10U
95-57-8	2-chlorophenol	10U	59-50-7	4-chloro-3-methylphenol	10U
541-73-1	1,3-dichlorobenzene	10U	9:-57-6	2-methylnaphthalene	10U
106-46-7	1,4-dichlorobenzene	10U	77-47-4	hexachlorocyclopentadiene	10U
100-51-6	benzyl alcohol	10U	88-06-2	2,4,6-trichlorophenol	10U
95-50-1	1,2-dichlorobenzene	10U	95-95-4	2,4,5-trichlorophenol	50U
95-48-7	2-methylphenol	10U	91-58-7	2-chloronaphthalene	10U
39638-32-9	bis(2-chloroisopropyl)ether	10U	88-74-4	2-nitroaniline	50U
106-44-5	4-methylphenol	10U	131-11-3	dimethylphthalate	10U
621-64-7	n-nitrosodi-n-propylamine	10U	208-96-8	acenaphthylene	10U
67-72-1	hexachloroethane	10U	99-09-2	3-nitroaniline	50U
98-95-3	nitrobenzene	10U	83-32-9	acenaphthene	10U
78-59-1	isophorone	10U	51-28-5	2,4-dinitrophenol	50U
88-75-5	2-nitrophenol	10U	100-02-7	4-nitrophenol	50U
105-67-9	2,4-dimethylphenol	10U	132-64-9	dibenzofuran	10U
65-85-0	benzoic acid	50U	121-14-2	2,4-dinitrotoluene	10U
111-91-1	bis(2-chloroethoxy)methane	10U	606-20-2	2,6-dinitrotoluene	10U
120-83-2	2,4-dichlorophenol	10U	E$-66-2	diethylphthalate	10U
120-82-1	1,2,4-trichlorobenzene	10U	7005-72-3	4-chlorophenyl phenyl ether	10U
91-20-3	naphthalene	10U	86-73-7	fluorene	10U

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for the sample.
B - Analyte was found in the reagent blank as well as the sample.
J - Indicates an estimated value.
ND - sot Detected.

ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880224-092
Laboratory Name: Organic Mass Spectroscopy
File ID: > 06859
Instrument ID: 96 1
Data Release Authorized By: DC Canada

Customer Sample ID: DG-6
Customer Name: MIKE GREEN
Sample Matrix: WATER
Requisition Number:
Date Sample Received: 24-FER-1988

Volatile Organic Compounds - CLP

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880302-042

Date Analyzed: 2-MAR-1988
Analysis Procedure Number: EPA 624
Conc/Dilution Factor: 1c
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
74-87-3	chloromethane	10U	79-00-5	1,1,2-trichloroethane	5U
74-83-9	bromomethane	10U	71-43-2	benzene	5U
75-01-4	vinyl chloride	10U	10061-02-6	trans-1,3-dichloropropene	5U
75-00-3	chloroethane	10U	110-75-8	2-chloroethylvinyl ether	10U
75-09-2	methylene chloride	5U	75-25-2	bromoform	5U
67-64-1	acetone	10U	108-10-1	4-methyl-2-pentanone	10U
75-15-0	carbon disulfide	5U	591-78-6	2-hexanone	10U
75-35-4	1,1-dichloroethene	5U	127-18-4	tetrachloroethene	5U
75-34-3	1,1-dichloroethane	5U	79-34-5	1,1,2,2-tetrachloroethane	5U
156-60-5	trans-1,2-dichloroethene	5U	108-88-3	toluene	.7 JB
67-66-3	chloroform	5U	108-90-7	chlorobenzene	5U
107-06-2	1,2-dichloroethane	5U	100-41-4	ethylbenzene	5U
78-93-3	2-butanone	10U	100-42-5	styrene	5U
71-55-6	1,I,1-trichloroethane	5U		total xylenes	5U
56-23-5	carbon tetrachloride	5U			
108-05-4	vinyl acetate	10U			
75-27-4	bromodichloromethane	5U			
78-87-5	1,2-dichloropropane	5U			
10061-01-5	cis-1,3-dichloropropene	5U			
79-01-6	trichloroethene	5U			
124-48-1	dibromochloromethane	5U			

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for the sample.
B - Analyte was found in the reagent blank as well as the sample.
J - Indicates an estimated value.
ND - Kot Detected.

Surrogate Recovery Data

Surrogate Compound	Amount Spiked	Amount Recovered	Percent Recovered
TOLUENE-D8	50	53.0	106.0
BROMOFLUOROBENZENE	50	46.0	92.0
1,2-DICHLOROETHANE-D4	50	44.0	88.0

PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # 1017F00625

Sample Date 2/22/88

Monitoring Well # DG-6

well Type:

Well Name Shallow

Point-of-Compliance

Classification of Groundwater G-2

Well Developed Prior to Sample Collection (Yes/No) Yes *

Ground Water Elevation (above MSL) 3.29ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Peri-staltic Pump	150.1	6.21		Unfiltered	
	Specific conductance	"	120.1	320	umhos/cm	"	
	Manganese	"	200.7	16	ug/L	"	Nitric Acid
	BNA	Teflon Bailer	625	See attached	ug/L	"	
	VOC	"	624	See attached	ug/L	"	

* Well development is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

DER Form 17-1.216(2)
Effective January 1, 1983

ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880224-091
Laboratory Name: Organic Mass Spectroscopy
File ID: > 06851
Instrument ID: 96 1
Data Release Authorized By: DC Canada

Customer Sample ID: DG-5
Customer Name: MIKE GREEN
Sample Matrix: WATER
Requisition Number:
Date Sample Received: 24-FEB-1988

Tentatively Identified Compounds

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880301-036

Date Analyzed: 1-MAR-1988
Analysis Procedure Number: EPA 624
Conc/Dilution Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
	unknown #1	9 J		unknown #2	10 J
	probable freon	450 J		probable freon 113	250 J
	chlorobenzene	9 J		aryl hydrocarbon #1	7 J
	aryl hydrocarbon #2	7 J		aryl hydrocarbon #3	8 J
	aryl hydrocarbon #4	13 J		dihydromethyl indene	10 J
	aryl hydrocarbon #5	8 J		unknown aromatic compound	8 J
	carboxylic acid #1	48 J		carboxylic acid #2	75 J
	carboxylic acid #3	470 J		carboxylic acid #4	20 J
	carboxylic acid #5	32 J		carboxylic acid #6	12 J
	unknowns	510 J			

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for the sample.
B - Analyte was found in the reagent blank as well as the sample.
J - Indicates an estimated value.
ND - Not Detected.

Acid/Base/Neutral Organics Extraction Data

Extracted Sample Weight = 1000
Final Extracted Volume = 1ML
Extraction Method = Separatory Funnel
Extraction Solvent = Methylene Chloride
Extraction Cleanup = SODIUM SULFATE
Associated Blank = 880302-015
Analyst = GG JOLLY
Date Completed = 1-MAR-1988

***** Comments from the Organic Sample Preparation Laboratory *****

PH=6

ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880224-091
Laboratory Name: Organic Mass Spectroscopy
File ID: 07683
Instrument ID: HP5985
Data Release Authorized By: DC Canada

Customer Sample ID: DG-5
Customer Name: MIKE GREEN
Sample Matrix: WATER
Requisition Number:
Date Sample Received: 24-FEB-1,988

B/N/A Fraction Organic Compounds - CLP

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880302-015

Date Analyzed: 8-MAR-1988
Analysis Procedure Number: EPA 625
Conc/Dilution Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
100-01-6	4-nitroaniline	50U	53-70-3	dibenzo(a,h)anthracene	10U
534-52-1	2-methyl-4,6-dinitrophenol	50U	191-24-2	benzo(ghi)perylene	10U
86-30-6	n-nitrosodiphenylamine	10U			
101-55-3	4-bromophenyl phenyl ether	10U			
118-74-1	hexachlorobenzene	10U			
87-86-5	pentachlorophenol	50U			
85-01-8	phenanthrene	0.5 J			
120-12-7	anthracene	10U			
84-74-2	di-n-butyl phthalate	10U			
206-44-0	fluoranthene	10U			
129-00-0	pyrene	0.4 J			
85-68-7	benzyl butyl phthalate	0.9 J			
91-94-1	3,3'-dichlorobenzidine	20U			
56-55-3	benzo(a)anthracene	10U			
117-31-7	bis(2-ethylhexyl)phthalate	9 J			
218-01-9	chrysene	10U			
117-84-0	di-n-octyl phthalate	0.6 J			
205-99-2	benzo(b)fluoranthene	10U			
207-08-9	benzo(k)fluoranthene	10U			
50-32-8	benzo(a)pyrene	10U			
193-39-5	indeno(1,2,3-cd)pyrene	10U			

Data Reporting Qualifiers:

U - Coinpound was analyzed for but not detected. The number is the attainable detection limit for the sample.
B - Analyte was found in the reagent blank as well as the sample.
J - Indicates an estimated value.
ND - Not Detected.

Surrogate Recovery Data

Surrogate Compound	Amount Spiked	Amount Recovered	Percent Recovered
2-FLUOROPHENOL	2c3	80.0	40.8
PHENOL-D5	200	42.0	21.0
2,4,6-TRIBROMOPHENOL	200	242.0	121.0
NITROBENZENE-D5	100	67.0	67.0
2-FLUOROBIPHENYL	100	69.0	69.0
TERPHENYL-D14	100	86.0	86.0

ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880224-091
Laboratory Name: Organic Mass Spectroscopy
File ID: 07683
Instrument ID: HP5985
Data Release Authorized By: DC Canada

Customer Sample ID:. DG-5
Customer Name: MIKE GREEN
Sample Matrix: WATER
Requisition Number:
Date Sample Received: 24-FEB-1988

B/N/A Frrction Organic Compounds - UP

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880302-015

Date Analyzed: 8-MAR-1988
Analysis Procedure Number: EPA 625
Conc/Dilution Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
108-95-2	phenol	10U	106-47-8	4-chloroaniline	10U
111-44-4	bis(2-chloroethyl)ether	10U	87-68-3	hexachlorobutadiene	10U
95-57-8	2-chlorophenol	10U	59-50-7	4-chloro-3-methylphenol	10U
541-73-1	1,3-dichlorobenzene	14	91-57-6	2-methylnaphthalene	15
106-46-7	1,4-dichlorobenzene	24	77-47-4	hexachlorocyclopentadiene	10U
100-51-6	benzyl alcohol	10U	88-06-2	2,4,6-trichlorophenol	10U
95-50-1	1,2-dichlorobenzene	49	95-95-4	2,4,5-trichlorophenol	50U
95-48-7	2-methylphenol	10U	91-58-7	2-chloronaphthalene	10U
39638-32-9	bis(2-chloroisopropyl)ether	10U	88-74-4	2-nitroaniline	50U
106-44-5	4-methylphenol	5 J	131-11-3	dimethylphthalate	10U
621-64-7	n-nitrosodi-n-propgl amine	10U	208-96-8	acenaphthylene	10U
67-72-1	hexachloroethane	10U	99-09-2	3-nitroaniline	50U
98-95-3	nitrobenzene	10U	83-32-9	acenaphthene	0.5 J
78-59-1	isophorone	10U	51-28-5	2,4-dinitrophenol	50U
88-75-5	2-nitrophenol	10U	100-02-7	4-nitrophenol	50U
105-67-9	2,4-dimethylphenol	10U	132-64-9	dibenzofuran	0.4 J
65-85-0	benzoic acid	50U	121-14-2	2,4-dinitrotoluene	10U
111-91-1	bis(2-chloroethoxy)methane	10U	606-20-2	2,6-dinitrotoluene	10U
120-83-2	2,4-dichlorophenol	10U	84-66-2	diethylphthalate	0.7 J
120-82-1	1;2,4-trichlarobenzwe	10U	7005-72-3	4-chlorophenyl phenyl ether	10U
91-20-3	naphthalene	56	86-73-7	fluorene	10U

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. Tho number is the attainable detection liait fer the sample.
5 - Analyte was found in the reagent blank as well as the sample.
J - Indicates an estimated value.
ND - Not Detected.

326045

ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880224-091
Laboratory Name: Organic Mass Spectroscopy
File ID: > 06851
Instrument ID: 96 1
Cat; Release Authorized By: DC Canada

Customer Sample ID: DG-5
Customer Name: MIKE GREEN
Sample Matrix: WATER
Reqcisition Number:
Date Sample Received: 24-FEE-1983

Volatile Organic Compounds - CLP

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880301-036

Date Analyzed: 1-MAR-1988
Analysis Procedure Number: EPA 624
Conc/Dilution Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
74-87-3	chloromethane	10U	79-00-5	1,1,2-trichloroethane	5U
74-83-9	bromomethane	10U	71-43-2	benzene	5U
75-01-4	vinyl chloride	7 J	10061-02-6	trans-1,3-dichloropropene	5U
75-00-3	chloroethane	10U	110-75-8	2-chloroethylvinyl ether	10U
75-09-2	methylene chloride	5U	75-25-2	bromoform	5U
67-64-1	acetone	60	108-10-1	4-methyl-2-pentanone	10U
75-15-0	carbon disulfide	5U	591-78-6	2-hexanone	10U
75-35-4	1,1-dichloroethene	5U	127-18-4	tetrachloroethene	5U
75-34-3	1,1-dichloroethane	44	79-34-5	1,1,2,2-tetrachloroethane	5U
156-60-5	trans-1,2-dichloroethene	5U	108-88-3	toluene	4 JB
67-66-3	chloroform	5U	108-90-7	chlorobenzene	9
107-06-2	1,2-dichloroethane	5U	100-41-4	ethylbenzene	6
78-93-3	2-butanone	10U	100-42-5	styrene	5U
71-55-6	1,1,1-trichloroethane	5U		total xylenes	7
56-23-5	carbon tetrachloride	5U			
108-05-4	vinyl acetate	10U			
75-27-4	bromodichloromethane	5U			
78-87-5	1,2-dichloropropane	5U			
10061-01-5	cis-1,3-dichloropropene	5U			
79-01-6	trichloroethene	5U			
124-48-1	dibromochloromethane	5U			

Data Reporting Qualifiets:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for the sample.
6 - Analyte was found in the reagent blank as well as tile sample.
J - Indicates an estimated value.
ND - Not Detected.

Surrogate Recovery Sat3

Surrogate Compound	Amount Spiked	Amount Recovered	Percent Recovered
TOLUENE-D8	50	50.0	100.0
BROMOFLUOROBENZENE	50	46.0	92.0
1,2-DICHLOROETHANE-D4	50	50.0	100.0

PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # 1017F00625

Sample Date 2/23/88

Monitoring Well # DG-5

well Type:

Well Name Shallow

Point -f-Compliance

Classification of Groundwater G-2

Well Developed* prior to Sample Collection (Yes/No) Yes

Ground Water Elevation (above MSL) 3.21 ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Peri-staltic Pump	150.1	6.39		Unfiltered	
	Specific conductance	"	120.1	660	mhos/cm	"	
	Manganese	"	200.7	147	ug/L	"	Nitric Acid
	BNA	Teflon Bailer	625	See attached	ug/L	"	
	VOC	"	624	See attached	ug/L	"	

* Well development is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

DER Form 17-1.216(2)
Effective January 1, 1983

326046

621/6

ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880224-090
Laboratory Name: Organic Mass Spectroscopy
file ID: > 06860
Instrument ID: 96 1
Data Release Authorized By: DC Canada

Customer Sample ID: DG-4
'Customer Name: MIKE GREEN
Sample Matrix: WATER
Requisition Number:
Date Sample Received: 24-FEB-1988

Tentatively Identified Compounds

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880302-042

Date Analyzed: 2-MAR-1988
Analysis Procedure Number: EPA 624
Conc/Dilution Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
	PROBABLE FREON	22 J		aryl hydrocarbon #1	15 J
	aryl hydrocarbon #2	18 J		aryl hydrocarbon #3	13 J
	tetramethyl benzene	49 J		unknowns	190 J

Data Reporting Qualifiers:

U - Compound uas analyzed for but not detected. The number is the attainable detection limit for the sample.
B - Analyte uas found in the reagent blank as well as the sample.
J - Indicates an estimated value.
ND - Not Detected.

Acid/Base/Neutral Organics Extractios Data

Extracted Sample Weight = 350
Final Extracted Volume = 1ML
Extraction Method = Separatory Funnel
Extraction Solvent = Methylene Chloride
Extraction Cleanup = SODIUM SULFATE
Associated Blank = 850302-015
Gnl yst = GG JOLLY
Date Completed = 1-MAR-1988

AnaLIS ID: 880224-090
Laboratory Name: Organic Mass Spectroscopy
File ID: 07682
Instrument ID: HP5985
Data Release Authorized By: DC Canada

Customer Sample ID: DG-4
Customer Name: MIKE GREEN
Sample Matrix: WATER
Requisition Number:
Date Sample Received: 24-FEB-1988

B/N/A Fraction Organic Compounds - CLP

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880302-015

Date Analyzed: 8-MAR-1988
Analysis Procedure Number: EPA 625
Conc/Dilution Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
100-01-6	4-nitroaniline	140U	53-70-3	dibenzo(a,h)anthracene	29U
534-52-1	2-methyl-4,6-dinitrophenol	140U	191-24-2	benzo(ghi)perylene	29U
86-30-6	n-nitrosodiphenylamine	29U			
101-55-3	4-bromophenyl phenyl ether	29U			
118-74-1	hexachlorobenzene	29U			
87-86-5	pentachlorophenol	140U			
85-01-8	phenanthrene	29U			
120-12-7	anthracene	29U			
84-74-2	di-n-butyl phthalate	29U			
206-44-0	fluoranthene	29U			
129-00-0	pyrene	2 J			
85-68-7	benzyl butyl phthalate	29U			
91-94-1	3,3'-dichlorobenzidine	57U			
56-55-3	benzo(a)anthracene	29U			
117-81-7	bis(2-ethylhexyl)phthalate	10 J			
218-01-9	chrysene	29U			
117-84-0	di-n-octyl phthalate	2 J			
205-99-2	benzo(b)fluoranthene	29U			
207-08-9	benzo(k)fluoranthene	29U			
50-32-8	benzo(a)pyrene	29U			
193-39-5	indeno(1,2,3-cd)pyrene	29U			

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for the sample.
B - Analyte was found in the reagent blank as well as the sample.
J - Indicates an estimated value,
ND - Not Detected.

Surrogate Recovery Data

Surrogate Compound	hunt Spiked	hunt Recovered	Percent Recovered
2-FLUOROPHENOL	200	82.0	41.0
PHENOL-D5	200	57.0	28.5
2,4,6-TRIBROMOPHENOL	200	149.0	74.5
NITROBENZENE-D5	100	40.0	40.0
2-FLUOROBIPHENYL	100	39.0	39.0
TERPHENYL-D14	100	70.0	70.0

326047

ORGANIC ANALYSIS DATA REPORT

AnaLIS I@: 880224-090
Laboratory Name: Organic Mass Spectroscopy
File ID: 07682
Instrument 13: HP5985
Data Release Authorized 6 : DC Canada

Customer Sample ID: DG-4
Custtmcr Name: MIKE GREEN
Sample Matrix: WATER
Requisition Number :
Date Sample Received: 24-FEB-1988

B/N/A Fraction Organic Compounds - CLP

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880302-015

Date Analyzed: 8-MAR-1988
Analysis Procedure Number: EPA 625
Conc/Dilution Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
108-95-2	phenol	2 J	106-47-8	4-chloroaniline	29U
111-44-4	bis(2-chloroethyl)ether	29U	87-68-3	hexachlorobutadiene	29U
95-57-8	2-chlorophenol	4 J	59-50-7	4-chloro-3-methylphenol	29U
541-73-1	1,3-dichlorobenzene	24	91-57-6	2-methylnaphthalene	16
106-46-7	1,4-dichlorobenzene	45	77-47-4	hexachlorocyclopentadiene	29U
100-51-6	benzyl alcohol	29U	88-06-2	2,4,6-trichlorophenol	29U
95-50-1	1,2-dichlorobenzene	180	95-95-4	2,4,5-trichlorophenol	140U
95-48-7	2-methylphenol	12	91-58-7	2-chloronaphthalene	29U
39638-32-9	bis(2-chloroisopropyl)ether	29U	88-74-4	2-nitroaniline	140U
106-44-5	4-methylphenol	29U	131-11-3	dimethylphthalate	29U
621-64-7	n-nitrosodi-n-propylamine	29U	208-96-8	acenaphthylene	29U
67-72-1	hexachloroethane	29U	99-09-2	3-nitroaniline	140U
98-95-3	nitrobenzene	29U	83-32-9	acenaphthene	29U
78-59-1	isophorone	29U	51-28-5	2,4-dinitrophenol	140U
88-75-5	2-nitrophenol	29U	100-02-7	4-nitrophenol	140U
105-67-9	2,4-dimethylphenol	32	132-64-9	dibenzofuran	1 J
65-85-0	benzoic acid	140U	121-14-2	2,4-dinitrotoluene	29U
111-91-1	bis(2-chloroethoxy)methane	29U	606-20-2	2,6-dinitrotoluene	29U
120-83-2	2,4-dichlorophenol	29U	84-66-2	diethylphthalate	29U
120-82-1	1,2,4-trichlorobenzene	29U	7005-72-3	4-chlorophenyl phenyl ether	29U
91-20-3	naphthalene	77	86-73-7	fluorene	29U

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for the sample.
B - Analyte was found in the reagent blank as well as the sample.
J - Indicates an estimated value.
ND - Not Detected.

ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880224-090
Laboratory Name: Organic Mass Spectroscopy
File ID: > 36860
Instrument ID: 96 1
Data Release Authorized By: OC Canada

Customer Sample ID: DG-4
Customer Name: MIKE GREEN
Sample Matrix: WATER
Requisition Number:
Date Sample Received: 24-FEB-1988

Volatile Organic Compounds - CLP

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880302-042

Date Analyzed: 2-MAR-1988
Analysis Procedure Number: EPA 624
Conc/Dilution Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
74-87-3	chloromethane	10U	79-00-5	1,1,2-trichloroethane	5U
74-83-9	bromomethane	10U	71-43-2	benzene	.4 J
75-01-4	vinyl chloride	250 E	10061-02-6	trans-1,3-dichloropropene	5U
75-00-3	chloroethane	1 J	110-75-8	2-chloroethylvinyl ether	10U
75-09-2	methylene chloride	5U	75-25-2	bromoform	5U
67-64-1	acetone	10U	108-10-1	4-methyl-2-pentanone	10U
75-15-0	carbon disulfide	5U	591-78-6	2-hexanone	10U
75-35-4	1,1-dichloroethene	5U	127-18-4	tetrachloroethene	5U
75-34-3	1,1-dichloroethane	140	79-34-5	1,1,2,2-tetrachloroethane	5U
156-60-5	trans-1,2-dichloroethene	410 E	108-88-3	toluene	25 B
67-66-3	chloroform	5U	108-90-7	chlorobenzene	.4 JB
107-06-2	1,2-dichloroethane	5U	100-41-4	ethylbenzene	2 J
78-93-3	2-butanone	10U	100-42-5	styrene	5U
71-55-6	1,1,1-trichloroethane	5U		total xylenes	4 J
56-23-5	carbon tetrachloride	5U			
108-05-4	vinyl acetate	10U			
75-27-4	bromodichloromethane	5U			
78-87-5	1,2-dichloropropane	5U			
10061-01-5	cis-1,3-dichloropropene	5U			
79-01-6	trichloroethene	1 J			
124-48-1	dibromochloromethane	5U			

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for the sample.
B - Analyte was found in the reagent blank as well as the sample.
J - Indicates an estimated value.
ND - Not Detected.

Surrogate Recovery Data

Surrogate Compound	Amount Spiked	Amount Recovered	Percent Recovered
TOLUENE-D8	50	52.0	104.0
BROMOFLUOROBENZENE	50	48.0	96.0
1,2-DICHLOROETHANE-D4	50	40.0	80.0

326048

PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # 1017F00625

Sample Date 2/23/88

Monitoring Well # DG-4

Well Type:

Well Name Shallow

Point-of-Compliance

Classification of Groundwater G-2

Well Developed* Prior to sample Collection (Yes/No) Yes

Ground Water Elevation (above MSL) 3.03 ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Peri-staltic Pump	150.1	6.60		Unfiltered	
	Specific conductance	"	120.1	840	umhos/cm	"	
	Manganese	"	200.7	190	ug/L	"	Nitric Acid
	BNA	Teflon Bailer	625	See attached	ug/L	"	
	VOC	"	624	See attached	ug/L	"	

* Well development is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

DER Form 17-1.216(2)
Effective January 1, 1983

ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880224-089
Laboratory Name: Organic Mass Spectroscopy
File ID: > 06849
Instrument ID: HP5985
Data Release Authorized By: DC Canada

Customer Sample ID: DG-1
Customer Name: MIKE GREEN
Sample Matrix: WATER
Requisition Number:
Date Sample Received: 24-FEB-1988

Tentatively Identified Compounds

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880301-035

Date Analyzed: 1-MAR-1988
Analysis Procedure Number: EPA 624
Conc/Dilution Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
	PROBABLE FREON	11 J		aryl hydrocarbon #1	5 J
	aryl hydrocarbon #2	4 J		aryl hydrocarbon #3	7 J
	aryl hydrocarbon #4	4 J		unknown #1	3 J
	unknown #2	4 J		ethyldimethyl benzene	4 J
	tetramethyl benzene	17 J		aromatic hydrocarbon #1	4 J
	aromatic hydrocarbon #2	8 J		aromatic hydrocarbon #3	8 J
	sulfur	270 J			

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for the sample.
B - Analyte was found in the reagent blank as well as the sample.
J - Indicates an estimated value.
ND - Not Detected.

Acid/Base/Neutral Organics Extraction Data

Extracted Sample Weight = 1000
Final Extracted Volume = 1ML
Extraction Method = Separatory Funnel
Extraction Solvent = Methylene Chloride
Extraction Cleanup = SODIUM SULFATE
Associated Blank = 880302-015
Analyst = GG JOLLY
Date Completed = 29-FEB-1988

***** Comments from the Organic Sample Preparation Laboratory *****

PH=5

ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880224-089
Laboratory Name: Organic Mass Spectroscopy
File ID: 07661
Instrument ID: HP5985
Data Release Authorized By: DC Canada

Customer Sample ID: DG-1
Customer Name: MIKE GEM
Sample Matrix: WATER
Requisition Number:
Date Sample Received: 24-FEB-1988

B/N/A Fraction Organic Compounds - CLP

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880302-015

Date Analyzed: 8-MAR-1988
Analysis Procedure Number: EPA 625
Conc/Dilution Factor: 1.0
Analyst: L MOLSOPPLE

CAS		ug/l	CAS		ug/l
100-01-6	4-nitroaniline	50U	53-70-3	dibenzo(a,h)anthracene	10U
534-52-1	2-methyl-4,6-dinitrophenol	50U	191-24-2	benzo(ghi)perylene	10U
86-30-6	n-nitrosodiphenylamine	10U			
101-55-3	4-bromophenyl phenyl Ether	10U			
118-74-1	hexachlorobenzene	10U			
87-86-5	pentachlorophenol	50U			
85-01-8	phenanthrene	10U			
120-12-7	anthracene	10U			
84-74-2	di-n-butyl phthalate	10U			
206-44-0	fluoranthene	10U			
129-00-0	pyrene	10U			
85-68-7	benzyl butyl phthalate	10U			
91-94-1	3,3'-dichlorobenzidine	20U			
56-55-3	benzo(a)anthracene	10U			
117-81-7	bis(2-ethylhexyl)phthalate	20			
218-01-9	chrysene	10U			
117-84-0	di-n-octyl phthalate	0.8 J			
205-99-2	benzo(b)fluoranthene	10U			
207-08-9	benzo(k)fluoranthene	10U			
50-32-8	benzo(a)pyrene	10U			
193-39-5	indeno(1,2,3-cd)pyrene	10U			

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for the sample.
B - Analyte was found in the reagent blank as well as the sample.
J - Indicates an estimated value.
ND - Not Detected.

Surrogate Recovery Data

Surrogate Compound	Amount Spiked	Amount Recovered	Percent Recovered
2-FLUOROPHENOL	200	95.0	57.5
PHENOL-D5	200	46.0	23.0
2,4,6-TRIBROMOPHENOL	200	198.0	99.0
NITROBENZENE-D5	100	77.0	77.0
2-FLUOROBIPHENYL	100	74.0	74.0
TERPHENYL-D14	100	109.0	109.0

ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880224-089 .
Laboratory Name: Organic Mass Spectroscopy
File ID: 07681
Instrument ID: HP5985
Data Release Authorized By: DC Canada

Customer Sample ID: DG-1
Customer Name: MIKE GREEN
Sample Matrix: 'AX!!
Requisition Number:
Date Sample Received: 24-FEE-1968

B/N/A Fraction Organic Compounds - CLP

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880302-015

Date Analyzed: 8-MAR-1988
Analysis Procedure Number: EPA 625
Conc/Dilution Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
108-95-2	phenol	10U	106-47-8	4-chloroaniline	10U
111-44-4	bis(2-chloroethyl)ether	10U	87-68-3	hexachlorobutadiene	10U
95-57-8	2-chlorophenol	10U	59-50-7	4-chloro-3-methylphenol	10U
541-73-1	1,3-dichlorobenzene	10	91-57-6	2-methylnaphthalene	1 J
106-46-7	1,4-dichlorobenzene	15	77-47-4	hexachlorocyclopentadiene	10U
100-51-6	benzyl alcohol	10U	88-06-2	2,4,6-trichlorophenol	10U
95-50-1	1,2-dichlorobenzene	43	95-95-4	2,4,5-trichlorophenol	50U
95-48-7	2-methylphenol	10U	91-58-7	2-chloronaphthalene	10U
39638-32-9	bis(2-chloroisopropyl)ether	10U	88-74-4	2-nitroaniline	50U
106-44-5	4-methylphenol	10U	131-11-3	dimethylphthalate	10U
621-64-7	n-nitrosodi-n-propylamine	10U	208-96-8	acenaphthylene	10U
67-72-1	hexachloroethane	10U	99-09-2	3-nitroaniline	50U
98-95-3	nitrobenzene	10U	83-32-9	acenaphthene	10U
78-59-1	isophorone	10U	51-28-5	2,4-dinitrophenol	50U
88-75-5	2-nitrophenol	10U	100-02-7	4-nitrophenol	50U
105-67-9	2,4-dimethylphenol	4 J	132-64-9	dibenzofuran	10U
65-85-0	benzoic acid	50U	121-14-2	2,4-dinitrotoluene	10U
111-91-1	bis(2-chloroethoxy)methane	10U	606-20-2	2,6-dinitrotoluene	10U
120-83-2	2,4-dichlorophenol	10U	84-66-2	diethylphthalate	10U
120-82-1	1,2,4-trichlorobenzene	10U	7005-72-3	4-chlorophenyl phenyl ether	10U
91-20-3	naphthalene	8 J	86-73-7	fluorene	0.4 J

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for the sample.
B - Analyte was found in the reagent blank as well as the sample.
J - Indicates an estimated value.
ND - Not Detected.

326050

ORGANIC ANALYSIS DATA REPORT

Analysis ID: 890224-089
Laboratory Name: Organic Mass Spectroscopy
File ID: > 06849
Instrument ID: HP5985
Data Release Authorized By: DC Canada

Customer Sample ID: DG-1
Customer Name: HIKE GREEN
Sample Matrix: WATER
Requisition Number:
Date Sample Received: 24-FEB-1989

Volatile Organic Compounds - CLP

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880301-036

Date Analyzed: 1-MAR-1989
Analysis Procedure Number: EPA 624
Conc/Dilution Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
74-87-3	chloromethane	10U	79-00-5	1,1,2-trichloroethane	5U
74-83-9	bromomethane	10U	71-43-2	benzene	.4 J
75-01-4	vinyl chloride	10U	10061-02-6	trans-1,3-dichloropropene	5U
75-00-3	chloroethane	23	110-75-8	2-chloroethylvinyl ether	10U
75-09-2	methylene chloride	5U	75-25-2	bromoform	5U
67-64-1	acetone	14	108-10-1	4-methyl-2-pentanone	10U
75-15-0	carbon disulfide	5U	591-78-6	2-hexanone	10U
75-35-4	1,1-dichloroethene	5U	127-18-4	tetrachloroethene	5U
75-34-3	1,1-dichloroethane	11	79-34-5	1,1,2,2-tetrachloroethane	5U
156-60-5	trans-1,2-dichloroethene	5U	108-88-3	toluene	2 JB
67-66-3	chloroform	5U	108-90-7	chlorobenzene	2 J
107-06-2	1,2-dichloroethane	5U	100-41-4	ethylbenzene	5U
78-93-3	2-butanone	10U	100-42-5	styrene	5U
71-55-6	1,1,1-trichloroethane	5U		total xylenes	5U
56-23-5	carbon tetrachloride	5U			
108-05-4	vinyl acetate	10U			
75-27-4	bromodichloromethane	5U			
78-87-5	1,2-dichloropropane	5U			
10061-01-5	cis-1,3-dichloropropene	5U			
79-01-6	trichloroethene	5U			
124-48-1	dibromochloromethane	5U			

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for the sample.
E - Analyte was found in the reagent blank as well as the sample.
J - Indicates an estimated value.
ND - Not Detected.

Surrogate Recovery Data

Surrogate Compound	Amount Spiked	Amount Recovered	Percent Recovered
TOLUENE-D8	50	50.0	100.0
BROMOFLUOROBENZENE	50	45.0	90.0
1,2-DICHLOROETHANE-D4	50	53.0	106.0

PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # 1017F00625

Sample Date 2/22/88

Monitoring Well # DG-1

Well Type:

Well Name Shallow

Point-of-Compliance

Classification of Groundwater G-2

Well Developed* Prior to Sample Collection (Yes/No) Yes

Ground Water Elevation (above MSL) 3.16 ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preservatives Added
	pH	Peristaltic Pump	150.1	6.02		Unfiltered	
	Specific conductance	"	120.1	255	umhos/cm	"	
	Manganese	"	200.7	119	ug/L	"	Nitric Acid
	BNA	Teflon Bailer	625	See attached	ug/L	"	
	VOC	"	624	See attached	ug/L	"	

*Well development is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

DER Form 17-1.216(2)
Effective January 1, 1983

326051

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ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880224-088
Laboratory Name: Organic Mass Spectroscopy
File ID: 07680
Instrument ID: HP5985
Data Release Authorized By: DC Canada

Customer Sample ID: UG-1
Customer Name: MIKE GREEN
Sample Matrix: WATER
Requisition Number:
Date Sample Received: 24-FEE-1988

B/N/A Fraction Organic Compounds - UP

Acid/Base/Neutral Organics Extraction Data

Extracted Sample Weight = 1000
Final Extracted Volume = 1ML
Extraction Method = Separatory Funnel
Extraction Solvent = Methylene Chloride
Extraction Cleanup = SODIUM SULFATE
Associated Blank = 880302-015
Analyst = GG JOLLY
Date Completed = 29-FEB-1988

ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880224-088
Laboratory Name: Organic Mass Spectroscopy
File ID: 07680
Instrument ID: HP5985
Data Release Authorized By: DC Canada

Customer Sample SO: UG-1
Customer Name: MIKE GREEN
Sample Matrix: WATER
Requisition Number:
Date Sample Received: 24-FEB-1988

B/N/A Fraction Organic Compounds - CLP

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880302-015

Date Analyzed: 8-MAR-1988
Analysis Procedure Number: EPA 625
Conc/Dilution factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
100-01-6	4-nitroaniline	50U	53-70-3	dibenzo(I,h)anthracene	10U
534-52-1	2-methyl-4,6-dinitrophenol	50U	191-24-2	bento(ghi)perylene	10U
86-30-6	n-nitrosodiphenylamine	10U			
191-55-3	4-bromophenyl phenyl ether	10U			
118-74-1	hexachlorobenzene	10U			
87-E-5	pentachlorophenol	50U			
85-01-8	phenanthrene	10U			
120-12-7	anthracene	10U			
84-74-2	di-n-butyl phthalate	10U			
206-44-0	fluoranthene	10U			
129-00-0	pyrene	10U			
85-68-7	benzyl butyl phthalate	10U			
91-94-1	3,3'-dichlorobenzidine	20U			
56-55-3	benzo(a)anthracene	10U			
117-81-7	bis(2-ethylhexyl)phthalate	10			
218-01-9	chrysene	10U			
117-84-0	di-n-octyl phthalate	10U			
205-99-2	benzo(b)fluoranthene	10U			
207-08-9	benzo(k)fluoranthene	10U			
50-32-8	benzo(a)pyrene	10U			
193-39-5	indeno(1,2,3-cd)pyrene	10U			

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for the sample.
B - Analyte was found in the reagent blank is well as the sample.
J - Indicates an estimated value.
ND - Not Detected.

Surrogate Recovery Data

Surrogate Compound	Amount Spiked	Amount Recovered	Percent Recovered
2-FLUOROPHENOL	200	78.C	39.0
PHENOL-D5	200	39.0	19.5
2,4,6-TRIBROMOPHENOL	200	115.0	57.5
NITROBENZENE-D5	100	61.0	61.0
2-FLUOROBIPHENYL	100	51.0	51.0
TERPHENYL-D14	100	74.0	74.0

326052

ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880224-089
Laboratory Name: Organic Mass Spectroscopy
File IC: 07680
Instrument ID: HP5985
Data Release Authorized By: OC Canada

Customer Sample ID: UG-1
Customer Name: MIKE GREEN
Sample Matrix: WATER
Requisition Number:
Date Sample Received: 24-FEB-1988

B/N/A Fraction Organic Compounds - CLP

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880302-015

Date Analyzed: 8-MAR-1988
Analysis Procedure Number: EPA 625
Conc/Dilution Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
108-95-2	phenol	10U	106-47-8	4-chloroaniline	10U
111-44-4	bis(2-chloroethyl)ether	10U	87-68-3	hexachlorobutadiene	10U
95-57-8	2-chlorophenol	10U	59-50-7	4-chloro-3-methylphenol	10U
541-73-1	1,3-dichlorobenzene	10U	91-57-6	2-methylnaphthalene	10U
106-46-7	1,4-dichlorobenzene	10U	77-47-4	hexachlorocyclopentadiene	10U
100-51-6	benzyl alcohol	10U	88-06-2	2,4,6-trichlorophenol	10U
95-50-1	1,2-dichlorobenzene	10U	95-95-4	2,4,5-trichlorophenol	50U
95-48-7	2-methylphenol	10U	91-58-7	2-chloronaphthalene	10U
39638-32-9	bis(2-chloroisopropyl)ether	10U	88-74-4	2-nitroaniline	50U
106-44-5	4-methylphenol	10U	131-11-3	dimethylphthalate	10U
621-64-7	n-nitrosodi-n-propylamine	10U	208-96-8	acenaphthylene	10U
67-72-1	hexachloroethane	10U	99-09-2	3-nitroaniline	50U
98-95-3	nitrobenzene	10U	83-32-9	acenaphthene	10U
78-59-1	isophorone	10U	51-28-5	2,4-dinitrophenol	50U
88-75-5	2-nitrophenol	10U	100-02-7	4-nitrophenol	50U
105-67-9	2,4-dimethylphenol	10U	132-64-9	dibenzofuran	10U
65-85-0	benzoic acid	50U	121-14-2	2,4-dinitrotoluene	10U
111-91-1	bis(2-chloroethoxy)methane	10U	606-20-2	2,6-dinitrotoluene	10U
120-83-2	2,4-dichlorophenol	10U	84-66-2	diethylphthalate	10U
120-82-1	1,2,4-trichlorobenzene	10U	7005-72-3	4-chlorophenyl phenyl ether	10U
91-20-3	naphthalene	10U	86-73-7	fluorene	10U

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for the sample.
B - Analyte was found in the reagent blank as well as the sample.
J - Indicates an estimated value.
ND - Not Detected.

ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880224-088
laboratory Name: Organic Mass Spectroscopy
File ID:) 06846
Instrument ID: 96 **1**
Data Release Authorized **By:** DC **Canada**

Customer Sample ID: U6-1
Customer Name: **MIKE** GREEN
Sample Matrix: WATER
Requisition Number:
Gate Sample Received: **24-9-1963**

Volatile Organic Compounds - CLP

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880301-036

Date Analyzed: 3-MAR-1988
Analysis Procedure Number: EPA 624
Conc/Dilution Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
74-87-3	chloromethane	10U	79-00-5	1,1,2-trichloroethane	5U
74-83-9	bromomethane	10U	71-43-2	benzene	5U
75-01-4	vinyl chloride	10U	10061-02-6	trans-1,3-dichloropropene	5U
75-00-3	chloroethane	10U	110-75-8	2-chloroethylvinyl ether	10U
75-09-2	methylene chloride	5U	75-25-2	bromoform	5U
67-64-1	acetone	10U	108-10-1	4-methyl-2-pentanone	10U
75-15-0	carbon disulfide	5U	591-78-6	2-hexanone	10U
75-35-4	1,1-dichloroethene	5U	127-18-4	tetrachloroethene	5U
75-34-3	1,1-dichloroethane	5U	79-34-5	1,1,2,2-tetrachloroethane	5U
156-60-5	trans-1,2-dichloroethene	5U	108-88-3	toluene	.9 JB
67-66-3	chloroform	5U	108-90-7	chlorobenzene	5U
107-06-2	1,2-dichloroethane	5U	100-41-4	ethylbenzene	5U
78-93-3	2-butanone	10U	100-42-5	styrene	5U
71-55-6	1,1,1-trichloroethane	5U		total xylenes	5U
56-23-5	carbon tetrachloride	5U			
108-05-4	vinyl acetate	10U			
75-27-4	bromodichloromethane	5U			
78-87-5	1,2-dichloropropane	5U			
10061-01-5	cis-1,3-dichloropropene	5U			
79-01-6	trichloroethene	5U			
124-48-1	dibromochloromethane	5U			

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. The **number** *is* the **attainable** detection **limit** for the **sample.**
B - Analyte uas found *in* the reagent blank **as well as the sample.**
J - Indicates **an estimated** value.
ND - **Not** Detected.

Surrogate Recovery Data

Surrogate Compound	**Amount Spiked**	**Amount** Recovered	Percent Recovered
TOLUENE-D8	50	49.0	98.0
BROMOFLUOROBENZENE	50	46.0	92.0
1,2-DICHLOROETHANE-D4	50	5 .0	102.0

326053

PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # 1017F00625

Sample Date 2/22/88

Monitoring Well # UG-1

Well Type:

Well Name Shallow

Point-of-Compliance

Classification of Groundwater G-2

Well Developed* Prior to Sample Collection (Yes/No) Yes

Ground Water Elevation (above MSL) 2.42 ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser-vatives Added
	pH	Peri-staltic Pump	150.1	5.90		Unfiltered	
	Specific conductance	"	120.1	170	umhos/cm	"	
	Manganese	"	200.7	15	ug/L	"	Nitric Acid
	BNA	Teflon Bailer	625	See attached	ug/L	"	
	VOC	"	624	See attached	ug/L	"	

* Well development is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

DER Form 17-1.216 (2)
Effective January 1, 1983

ATTACHMENT D

Point-of-Compliance Monitor Wells

Water-Quality Analyses
pH
Specific Conductance
BNA
VOC

326054

577/43

ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880224-117
Laboratory Name: Organic Mass Spectroscopy
File ID: 07698
Instrument ID: HP5985
Data Release Authorized By: DC Canada

Customer Sample ID: GM-74
Customer Name: MIKE GREEN
Sample Matrix: WATER
Rquisition Number:
Date Sample Received: 24—8-1988

B/N Fraction Organic Compounds - CLP

Acid/Base/Neutral Organics Extraction Data

Extracted Sample Height = 1000
Final Extracted Volume = 1ML
Extraction Method = Separatory Funnel
Extraction Solvent = Methylene Chloride
Extraction Cleanup = SODIUM SULFATE
Associated Blank = 880226-096
Analyst = GG JOLLY
Date Completed = 26-FEE-1988

ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880224-117
Laboratory Name: Organic Mass Spectroscopy
File ID: 07698
Instrument ID: HP5985
Data Release Authorized By: DC Canada

Customer Sample ID: GH-74
Customer Name: MIKE GREEN
Sample Matrix: WATER
Requisition Number:
Date Sample Received: 24-FEB-1988

B/N fraction Organic Compounds - CLP

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank : 880226-096

Date Analyzed: 9-MAR-1988
Analysis Procedure Number: EPA 625
Conc/Dilution Factor: 10
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
117-84-0	di-n-octylphthalate	5U			
205-99-2	benzo(b)fluoranthene	5U			
207-08-9	benzo(k)fluoranthene	5U			
50-32-8	benzo(a)pyrene	5U			
193-39-5	indeno(1,2,3-cd)pyrene	5U			
53-70-3	dibenz(a,h)anthracene	5U			
191-24-2	benzo(g,h,i)perylene	5U			

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for the sample.
B - Analyte was found in the reagent blank as well as the sample.
J - Indicates an estimated value.
ND - Not Detected.

Surrogate Recovery Data

Surrogate Compound	Amount Spiked	Amount Recovered	Permt Recovered
2-FLUOROPHENOL	0	0	
PHENOL-D5	0	0	
2,4,6-TRIBROMOPHENOL	0	0	
NITROBENZENE-D5	100	63.0	63.0
2-FLUOROBIPHENYL	100	56.0	56.0
TERPHENYL-D14	100	35.0	35.0

326055

ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880224-117
Laboratory Name: Organic Mass Spectroscopy
File ID: 07698
Instrument ID: HP5985
Data Release Authorized By: DC Canada

Customer Sample ID: 84-74
Customer Nane: MIKE GREEN
Sample Matrix: WATER
Requisition Number:
Date Sample Received: 24-FEB-1988

B/N Fraction Organic Compounds - CLP

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880226-096

Date Analyzed: 9-MAR-1988
Analysis Procedure Number: EPA 625
Conc/Dilution factor: 1.0
Analyst: 1 HOLSOPPLE

CAS		ug/l	CAS		ug/l
111-44-4	bis(2-chloroethyl)ether	5U	83-32-9	acenaphthene	5U
541-73-1	1,3-dichlorobenzene	5U	132-64-9	dibenzofuran	5U
106-46-7	1,4-dichlorobenzene	5U	121-14-2	2,4-dinitrotoluene	5U
95-50-1	1,2-dichlorobenzene	5U	606-20-2	2,6-dinitrotoluene	5U
39638-32-9	bis(2-chloroisopropyl)ether	5U	84-66-2	diethylphthalate	5U
621-64-7	n-nitroso-di-n-propylanine	5U	7005-72-3	4-chlorophenyl-phenylether	5U
67-72-1	hexachloroethane	5U	86-M-7	fluorene	5U
98-95-3	nitrobenrene	5U	100-01-6	4-nitroaniline	25U
78-59-1	isophorone	5U	86-30-6	n-nitrosodiphenylwine	5U
111-91-1	bis(2-chloroethoxy)methane	5U	101-55-3	4-brornophenyl-phenylether	5u
120-82-1	1,2,4-trichlorobenzene	5U	118-74-1	hexachlorobenzene	5U
91-20-3	naphthalene	5U	85-01-8	phenanthrene	5U
106-47-8	4- or owiline	5U	120-12-7	anthracene	5U
87-68-3	hexachlorobutadiene	5U	84-74-2	di-n-butylphthalate	5u
91-57-6	2-methylnaphthalene	5U	206-44-0	fluoranthene	5U
77-47-4	hexachlorocyclopentadiene	5U	129-00-0	pyrene	5U
91-58-7	2-&or onaphthalene	5U	85-68-7	butylbenzylphthalate	5U
88-74-4	2-nitroaniline	25U	91-94-1	3,3'-dichlorobenzidine	10U
131-11-3	dimethylphthalate	5U	56-55-3	benzo(a)anthracene	5U
208-96-8	acenaphthylene	5U	117-81-7	bis(2-ethylhexyl)phthalate	9 J
99-09-2	3-nitroaniline	25U	218-01-9	chrysene	5U

Data Reporting Qualifiers:

U - Compound uas analyzed for but not detected. The number is the attainable detection limit for the sample.
B - Analyte was found in the reagent blank as uell as the sample.
J - Indicates an estimated value.
ND - Not Detected.

ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880224-117
Laboratory Name: Organic Mass Spectroscopy
File ID: > 06873
Instrument ID: 96 1
Data Release Authorized By: DC Canada

Customer Sample ID: GM-74
Customer Name: MIKE GREEN
Sample Matrix: WATER
Requisition Number:
Date Sample Received: 24-FEB-1988

Volatile Organic Compounds - CLP

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880303-089

Date Analyzed: 3-MAR-1988
Analysis Procedure Number: EPA 624
Conc/Dilution factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l
74-87-3	chloromethane	10U
74-83-9	bromomethane	10U
75-01-4	vinyl chloride	10U
75-00-3	chloroethane	10U
75-09-2	methylene chloride	5U
67-64-1	acetone	22
75-15-0	carbon disulfide	5U
75-35-4	1,1-dichloroethene	5U
75-34-3	1,1-dichloroethane	5U
156-60-5	trans-1,2-dichloroethene	5U
67-66-3	chloroform	5U
107-06-2	1,2-dichloroethane	5U
78-93-3	2-butanone	10U
71-55-6	1,1,1-trichloroethane	5U
56-23-5	carbon tetrachloride	5U
108-05-4	vinyl acetate	10U
75-27-4	bromodichloromethane	5U
78-87-5	1,2-dichloropropane	5U
10061-01-5	cis-1,3-dichloropropene	5U
79-01-6	trichloroethene	5U
124-48-1	dibromochlormethane	5U

CAS		ug/l
79-00-5	1,1,2-trichloroethane	5U
71-43-2	benzene	5U
10061-02-6	trans-1,3-dichloropropene	5U
110-75-8	2-chloroethylvinyl ether	10U
75-25-2	bromoform	5U
108-10-1	4-methyl-2-pentanone	10U
591-78-6	2-hexanone	10U
127-18-4	tetrachloroethene	5U
79-34-5	1,1,2,2-tetrachloroethane	5U
108-88-3	toluene	.6 JB
108-90-7	chlorobenzene	5u
100-41-4	ethylbenzene	5U
100-42-5	styrene	5U
	total xylenes	5u

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for the sample.
B - Analyte was found in the reagent blank as uell as the sample.
J - Indicates an estimated value.
ND - Not Detected.

Surrogate Recovery Data

Surrogate Compound	hunt Spiked	hunt Recovered	Permt Recovered
TOLUENE-D8	50	48.0	96.0
BROMOFLUOROBENZENE	50	50.0	100.0
1,2-DICHLOROETHANE-D4	50	47.0	94.0

PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # 1017F00625

Sample Date 2/22/88

Monitoring Well # GM-74

Well Type:

Well Name Deep

Corrective-Action

Classification of Groundwater G-2

Well Developed* Prior to Sample Collection (Yes/No) Yes

'GroundWater Elevation (above MSL) 1.98 ft

STORET Code	Parameter Monitored	Sampling Method	EPA Analysis Method	Analysis Result	Units	Sample Filtered/ Unfiltered	Preser- vatives Added
	pH	Peri- staltic Pump	150.1	6.06		Unfiltered	
	Specific conductance	"	120.1	510	umhos/ cm	"	
	sodium	"	200.7	63	mg/L	"	Nitric Acid
	Chloride	"	300.0	120	mg/L	"	
	BN	Teflon Bailer	625	See attached	ug/L	"	
	VOC	"	624	See attached	ug/L	"	

* Well development is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

DER Form 17-1.216(2)
Effective January 1, 1983

ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880227-020
Laboratory Name: Organic Mass Spectroscopy
File ID:) 06918
Instrument ID: 96 1
Data Release Authorized By: DC Canada

Customer Sample ID: GM-69
Customer Name: MIKE GREEN
Sample Matrix: WATER
Rquisition Number: 412
Date Sinple Received: 25-FEB-1988

Tentatively Identified Compounds

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880307-056

Date Analyzed: 7-MAR-1988
Analysis Procedure Number: EPA 624
Conc/Dilution Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
354234	Freon 123	60 J	76131	Freon 113	9 J
	unknown voa #1	7 J	108861	Bromobenzene	16 J
	Chloromethylbenzene	15 J		aliphatic hydrocarbon #1	31 J
	chlorobenzene	510 J		aliphatic hydrocarbon #2	4 J
	aryl hydrocarbon	5 J		unknoun aryl compound	4 J
	sulfur	230 J			

Data Reporting Qualifiers:

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B - Analyte uas found in the reagent blank as well as the sample.
J - Indicates an estimated value.
ND - Not Detected.

Acid/Base/Neutral Organics Extraction Data

Extracted Sample Height = 1000
Final Extracted Volume = 1
Extraction Method = Separatory Funnel
Extraction Solvent = Methylene Chloride
Extraction Cleanup = SODIUM SULFATE
Associated Blank = 880301-004
Analyst = SK POLING
Date Completed = 1-MAR-1988

ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880227-020
Laboratory Name: Organic Mass Spectroscopy
File ID: 07718
Instrument ID: HP5985
Data Release Authorized By: DC Canada

Customer Sample ID: GH-69
Customer Name: MIKE GREEN
Sample Matrix: WATER
Requisition Number: 412
Date Sample Received: 25-FEB-1988

B/N fraction Organic Compounds - CLP

Date Extracted/Prepared:
Preparation Procedure Number:
Percent Moisture:
Percent Moisture (decanted):
Associated Blank: 880301-004

Date Analyzed: 12-MAR-1988
Analysis Procedure Number: EPA 625
Conc/Dilution Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS	ug/l
117-84-0	di-n-octylphthalate	0.4 JB		
205-99-2	benzo(b)fluoranthene	5U		
207-08-9	benzo(k)fluoranthene	5U		
50-32-8	benzo(a)pyrene	5U		
193-39-5	indeno(1,2,3-cd)pyrene	5U		
53-70-3	dibenz(a,h)anthracene	5U		
191-24-2	benzo(g,h,i)perylene	5U		

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for the sample.
B - kalyte uas found in the reagent blank as well as the sample.
J - Indicates an estimated value.
ND - Not Detected.

Surrogate Recovery Data

Surrogate Compound	Amount Spiked	kount Recovered	Percent Recovered
2-FLUOROPHENOL	0	0	
PHENOL-D5	0	0	
2,4,6-TRIBROMOPHENOL	0	0	
NITROBENZENE-D5	100	53.0	53.0
2-FLUOROBIPHENYL	100	48.0	48.0
TERPHENYL-D14	100	67.0	67.0

ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880227-020
Laboratory Name: Organic Mass Spectroscopy
File ID: 07718
Instrument ID: HP5985
Data Release Authorized By: DC Canada

Customer Sample ID: GM-69
Customer Name: MIKE GREEN
Sample Matrix: WATER
Requisition Number: 412
Date Sample Received: 25-FEB-1988

B/N Fraction Organic Compounds - CLP

Date Extracted/Prepared:
Preparation Procedure Number:
Percent tbistarc:
Percent Moisture (decanted):
Associated Blank: 880301-004

Date Analyzed: 12-MAR-1988
Analysis Procedure Number: EPA 625
Conc/Dilution Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
111-44-4	bis(2-chloroethyl)ether	5U	83-32-9	acenaphthene	5U
541-73-1	1,3-dichlorobenzene	800	132-64-9	dibenzofuran	5U
106-46-7	1,4-dichlorobenzene	710	121-14-2	2,4-dinitrotoluene	5U
95-50-1	1,2-dichlorobenzene	540	606-20-2	2,6-dinitrotoluene	5U
39638-32-9	bis(2-chloroisopropyl)ether	5U	84-66-2	diethylphthalate	5U
621-64-7	n-nitrosodi-n-propylanine	5U	7005-72-3	4-chlorophenyl-phenylether	5U
67-72-1	hexachloroethane	5U	86-73-7	fluorene	5U
98-95-3	nitrobenzene	5U	100-01-6	4-nitroaniiine	25U
78-59-1	isophorone	5U	86-30-6	n-nitrosodiphenylamine	5U
111-91-1	bis(2-chloroethoxy)methane	5U	101-55-3	4-bromophenyl-phenylether	5U
120-82-1	1,2,4-trichlorobenzene	5U	118-74-1	hexachlorobenzene	5U
91-20-3	naphthalene	3 J	85-01-8	phenanthrene	5U
106-47-8	4-chloroaniline	5U	120-12-7	anthracene	5U
87-68-3	hexachlorobutadiene	5U	84-74-2	di-n-butylphthalate	5U
91-57-6	2-methylnaphthalene	5U	206-44-0	fluoranthent	5U
77-47-4	hexachlorocyclopentadiene	5U	129-00-0	pyrene	5U
91-58-7	2-chloronaphthalene	5U	85-68-7	butylbenrylphthalate	5U
88-74-4	2-nitroaniline	25U	91-94-1	3,3'-dichlorobenzidine	10U
131-11-3	diwthylphthalate	5U	56-55-3	benzo(a)anthracene	5U
208-96-8	acenaphthylene	5U	117-81-7	bis(2-ethylhexyl)phthalate	5U
99-09-2	3-nitroaniline	25U	218-01-9	chrysene	5U

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B - Analytc was found in the reagent blank as well as the sample.
J - Indicates an estimated ualue.
ND - Not Detected.

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ORGANIC ANALYSIS DATA REPORT

AnaLIS ID: 880227-020
Laboratory Name: Organic Mass Spectroscopy
File ID: > 06918
Instrument ID: 96 1
Data Release Authorized By: DC Canada

Customer Sample ID: GM-69
Customer Name: MIKE GREEN
Sample Matrix: WATER
Requisition Number: 412
Date Sample Received: 25-FEB-1988

Volatile Organic Compounds - CLP

Date Extracted/Prepared:
Preparation Procedure Number:
Permt Moisture:
Percent Moisture (decanted):
Associated Blank: 880307-056

Date Analyzed: 7-MAR-1988
Analysis Procedure Number: EPA 624
Conc/Dilution Factor: 1.0
Analyst: L HOLSOPPLE

CAS		ug/l	CAS		ug/l
74-87-3	chloromethane	10U	79-00-5	1,1,2-trichloroethane	5U
74-83-9	bromomethane	10U	71-43-2	benzene	5
75-01-4	vinyl chloride	13	10061-02-6	trans-1,3-dichloropropene	5U
75-00-3	chloroethane	69	110-75-8	2-chloroethylvinyl ether	10U
75-09-2	methylene chloride	5U	75-25-2	bromoform	5U
67-64-1	acetone	10U	108-10-1	4-methyl-2-pentanone	10U
75-15-0	carbon disulfide	5U	591-78-6	2-hexanone	10U
75-35-4	1,1-dichloroethene	5U	127-18-4	tetrachloroethene	5U
75-34-3	1,1-dichloroethane	76	79-34-5	1,1,2,2-tetrachloroethane	5U
156-60-5	trans-1,2-dichloroethene	2 J	108-88-3	toluene	5 8
67-66-3	chloroform	5U	108-90-7	chlorobenzene	510
107-06-2	1,2-dichloroethane	5U	100-41-4	ethylbenzene	2 J
78-93-3	2-butanone	10U	100-42-5	styrene	5U
71-55-6	1,1,1-trichloroethane	5u		total xylenes	8
56-23-5	carbon tetrachloride	5U			
108-05-4	vinyl acetate	10U			
75-27-4	bromodichloromethane	5U			
78-87-5	1,2-dichloropropane	5U			
10061-01-5	cis-1,3-dichloropropene	5U			
79-01-6	trichloroethene	5U			
124-48-1	dibromochloromethane	5U			

Data Reporting Qualifiers:

U - Compound was analyzed for but not detected. The number is the attainable detection limit for the sanple.
B - Analyte was found in the reagent blank as uell as the sample,
J - Indicates an estimated value.
ND - Not Detected.

Surrogate Recovery Data

Surrogate Compound	Amount Spiked	Amount Recovered	Percent Recovered
TOLUENE-D8	50	51.0	102.0
BROMOFLUOROBENZENE	50	46.0	92.0
1,2-DICHLOROETHANE-D4	50	47.0	94.0