

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: M50895
Account: SHELLWIC - Shell Oil
Project: GSCMA:97451485 (GSCRMBNH) 137 1st NH Turnpike, Northwood, NH

QC Batch ID: MP7663
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 09/22/05

Metal	RL	IDL	MB raw	final
Aluminum	200	22		
Antimony	6.0	2.4		
Arsenic	5.0	3.3	1.2	<5.0
Barium	200	.64	anr	
Beryllium	4.0	.18		
Boron	100	1.8		
Cadmium	4.0	.22	anr	
Calcium	5000	5.9		
Chromium	10	.72	0.15	<10
Cobalt	50	.69		
Copper	25	1.2	-3.1	<25
Iron	100	20	-1.8	<100
Lead	5.0	1.2	anr	
Magnesium	5000	7.7		
Manganese	15	.36		
Molybdenum	100	.48		
Nickel	40	.49		
Potassium	5000	19		
Selenium	10	1.7	anr	
Silicon	100	11		
Silver	5.0	.12	anr	
Sodium	5000	94		
Strontium	10	.12		
Thallium	10	3.1		
Tin	100	1.7		
Titanium	50	1.6		
Tungsten	100			
Vanadium	50	1.3		
Zinc	20	3.8		

Associated samples MP7663: M50895-1, M50895-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: M50895
 Account: SHELLWIC - Shell Oil
 Project: GSCMA:97451485 (GSCMRBNH) 137 1st NH Turnpike, Northwood, NH

QC Batch ID: MP7663
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date:

09/22/05

09/22/05

Metal	M50779-1 Original MS		Spikelot MPIRWS2	% Rec	QC Limits	M50779-1 Original DUP		RPD	QC Limits
Aluminum									
Antimony									
Arsenic	6.1	509	500	100.6	75-125	6.1	7.7	23.2 (a)	0-20
Barium	anr								
Beryllium									
Boron									
Cadmium	anr								
Calcium									
Chromium	1.1	487	500	97.2	75-125	1.1	1.1	0.0	0-20
Cobalt									
Copper	0.0	479	500	95.8	75-125	0.0	0.0	NC	0-20
Iron	17600	19800	2000	110.0	75-125	17600	17100	2.9	0-20
Lead	anr								
Magnesium									
Manganese									
Molybdenum									
Nickel									
Potassium									
Selenium	anr								
Silicon									
Silver	anr								
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Tungsten									
Vanadium									
Zinc									

Associated samples MP7663: M50895-1, M50895-2

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) RPD acceptable due to low duplicate and sample concentrations.

6.1.2

6

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: M50895
 Account: SHELLWIC - Shell Oil
 Project: GSCMA:97451485 (GSCRMNBH) 137 1st NH Turnpike, Northwood, NH

QC Batch ID: MP7663
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 09/22/05

Metal	BSP Result	Spikelet MPIRWS2	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	508	500	101.6	80-120
Barium	anr			
Beryllium				
Boron				
Cadmium	anr			
Calcium				
Chromium	485	500	97.0	80-120
Cobalt				
Copper	461	500	92.2	80-120
Iron	1890	2000	94.5	80-120
Lead	anr			
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium	anr			
Silicon				
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Tungsten				
Vanadium				
Zinc				

Associated samples MP7663: M50895-1, M50895-2

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

6.1.3

6

SERIAL DILUTION RESULTS SUMMARY

Login Number: M50895
 Account: SHELLWIC - Shell Oil
 Project: GSCMA:97451485 (GSCMRBNH) 137 1st NH Turnpike, Northwood, NH

QC Batch ID: MP7663
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 09/22/05

Metal	M50779-1		RPD	QC Limits
	Original	SDL 1:5		
Aluminum				
Antimony				
Arsenic	6.05	18.7	209-6(a)	0-10
Barium	anr			
Beryllium				
Boron				
Cadmium	anr			
Calcium				
Chromium	1.13	0.00	100-0(a)	0-10
Cobalt				
Copper	0.00	0.00	NC	0-10
Iron	17600	17200	2-1	0-10
Lead	anr			
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium	anr			
Silicon				
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Tungsten				
Vanadium				
Zinc				

Associated samples MP7663: M50895-1, M50895-2

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested
 (a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

6.1.4

6

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: M50895
Account: SHELLWIC - Shell Oil
Project: GSCMA:97451485 (GSCMRBNH) 137 1st NH Turnpike, Northwood, NH

QC Batch ID: MP7664
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 09/23/05

Metal	RL	IDL	MB raw	final
Mercury	0.20	.067	0.098	<0.20

Associated samples MP7664: M50895-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

6.2.1

6

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: M50895
 Account: SHELLWIC - Shell Oil
 Project: GSCMA:97451485 (GSCMBNH) 137 1st NH Turnpike, Northwood, NH

QC Batch ID: MP7664
 Matrix Type: AQUEOUS

Methods: SW846 7470A
 Units: ug/l

Prep Date:

09/23/05

09/23/05

Metal	M50971-2 Original MS		Spikelot HGRWS1 % Rec		QC Limits	M50971-2 Original DUP		RPD	QC Limits
Mercury	0.0	3.6	3	120.0	75-125	0.0	0.0	NC	0-20

Associated samples MP7664: M50895-1

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

6.2.2

6

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: M50895
 Account: SHELLWIC - Shell Oil
 Project: GSCMA:97451485 (GSCRMBNH) 137 1st NH Turnpike, Northwood, NH

QC Batch ID: MP7664
 Matrix Type: AQUEOUS

Methods: SW846 7470A
 Units: ug/l

Prep Date:

09/23/05

09/23/05

Metal	BSP Result	Spikelot HGRWS1	% Rec	QC Limits	BSD Result	Spikelot HGRWS1	% Rec	BSD RPD	QC Limit
Mercury	3.3	3	110.0	80-120	3.2	3	106.7	3.1	20

Associated samples MP7664: M50895-1

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

6.2.3

6

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: M50895

Account: SHELLWIC - Shell Oil

Project: GSCMA:97451485 (GSCMRBNH) 137 1st NH Turnpike, Northwood, NH

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chromium, Hexavalent	GN17869	0.010	<0.010	mg/l	.1	0.10	100.0	80-120%
Cyanide	GP5989/GN17929	0.010	<0.010	mg/l	0.1	0.0989	98.9	90-110%
Cyanide	GP5989/GN17929			mg/l	0.2	0.202	101.0	90-110%
Solids, Total Suspended	GN17889	4.0	<4.0	mg/l				
Total Residual Chlorine	GN17873	0.050	<0.050	mg/l	.50	0.45	90.0	-%

Associated Samples:

Batch GN17869: M50895-1

Batch GN17873: M50895-1

Batch GN17889: M50895-1

Batch GP5989: M50895-1

7.1

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DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: M50895

Account: SHELLWIC - Shell Oil

Project: GSCMA:97451485 (GSCRMBNH) 137 1st NH Turnpike, Northwood, NH

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Chromium, Hexavalent	GN17869	M50896-1	mg/l	<0.010	<0.010	0.0	0-20%
Cyanide	GP5989/GN17929	M51014-3	mg/l	0.052	0.052	0.0	0-20%
Solids, Total Suspended	GN17889	M50936-2	mg/l	<4.0	<4.0	0.0	0-20%
Total Residual Chlorine	GN17873	M50895-1	mg/l	<0.050	<0.050	0.0	0-20%

Associated Samples:

Batch GN17869: M50895-1

Batch GN17873: M50895-1

Batch GN17889: M50895-1

Batch GP5989: M50895-1

7.2

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MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: M50895

Account: SHELLWIC - Shell Oil

Project: GSCMA:97451485 (GSCMBNH) 137 1st NH Turnpike, Northwood, NH

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chromium, Hexavalent	GN17869	M50896-1	mg/l	<0.010	.1	0.10	100.2	75-125%
Cyanide	GP5989/GN17929	M51014-3	mg/l	0.052	0.1	0.13	78.6	75-125%
Total Residual Chlorine	GN17873	M50895-1	mg/l	<0.050	.50	0.55	110.0	-%

Associated Samples:

Batch GN17869: M50895-1

Batch GN17873: M50895-1

Batch GP5989: M50895-1

7.3

7



New England

10/19/05

Technical Report for

Shell Oil

GSCMA:97451485 (GSCRMBNH) 137 1st NH Turnpike, Northwood, NH

GSC PO# MA02460

Accutest Job Number: M50998

Sampling Date: 09/21/05

Report to:

GSC-Kleinfelder

teliasson@kleinfelder.com

ATTN: Trish Eliasson

Total number of pages in report: 28



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Reza Fand
Reza Fand
Lab Director

Certifications: MA (M-MA136) CT (PH-0109) NH (250204) RI (00071) ME (MA136) FL (E87579)
NY (23346) NJ (MA926) NAVY USACE

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Sample Summary

Shell Oil

Job No: M50998

GSCMA:97451485 (GSCRMBNH) 137 1st NH Turnpike, Northwood, NH
Project No: GSC PO# MA02460

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
M50998-1A	09/21/05	09:30 JPS	09/22/05	AQ Ground Water	GACINF01
M50998-1A	09/21/05	09:30 JPS	09/22/05	AQ Ground Water	GACINF01

Report of Analysis

Client Sample ID:	GACINF01	Date Sampled:	09/21/05
Lab Sample ID:	M50998-1	Date Received:	09/22/05
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270C SW846 3510C		
Project:	GSCMA:97451485 (GSCRMBNH) 137 1st NH Turnpike, Northwood, NH		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E24522.D	1	09/30/05	PN	09/27/05	OP9708	MSE1282
Run #2							

Run #	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

ABN PPL List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.6	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	ug/l	
88-75-5	2-Nitrophenol	ND	11	ug/l	
100-02-7	4-Nitrophenol	ND	22	ug/l	
108-95-2	Phenol	ND	5.6	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	ug/l	
85-68-7	Butyl benzyl phthalate	ND	11	ug/l	
84-74-2	Di-n-butyl phthalate	ND	11	ug/l	
117-84-0	Di-n-octyl phthalate	ND	11	ug/l	
84-66-2	Diethyl phthalate	ND	11	ug/l	
131-11-3	Dimethyl phthalate	ND	11	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	11	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	1% ^a		10-120%
4165-62-2	Phenol-d5	1% ^a		10-120%
118-79-6	2,4,6-Tribromophenol	6% ^a		31-123%
4165-60-0	Nitrobenzene-d5	67%		32-120%
321-60-8	2-Fluorobiphenyl	79%		32-120%
1718-51-0	Terphenyl-d14	61%		33-123%

(a) Outside control limits due to possible matrix interference. Confirmed by reanalysis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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2.1

2

Client Sample ID:	GACINF01	Date Sampled:	09/21/05
Lab Sample ID:	M50998-1	Date Received:	09/22/05
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 608 EPA 608		
Project:	GSCMA:97451485 (GSCRMBNH) 137 1st NH Turnpike, Northwood, NH		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ28642.D	1	09/26/05	CZ	09/23/05	OP9693	GYZ1191
Run #2							

Run #	Initial Volume	Final Volume
Run #1	910 ml	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.55	ug/l	
11104-28-2	Aroclor 1221	ND	0.55	ug/l	
11141-16-5	Aroclor 1232	ND	0.55	ug/l	
53469-21-9	Aroclor 1242	ND	0.55	ug/l	
12672-29-6	Aroclor 1248	ND	0.55	ug/l	
11097-69-1	Aroclor 1254	ND	0.55	ug/l	
11096-82-5	Aroclor 1260	ND	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	86%		44-132%
877-09-8	Tetrachloro-m-xylene	69%		44-132%
2051-24-3	Decachlorobiphenyl	67%		12-151%
2051-24-3	Decachlorobiphenyl	63%		12-151%

ND = Not detected
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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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2.1

2

Client Sample ID:	GACINF01	Date Sampled:	09/21/05
Lab Sample ID:	M50998-1	Date Received:	09/22/05
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	GSCMA:97451485 (GSCRMBNH) 137 1st NH Turnpike, Northwood, NH		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Oil And Grease, Gravimetric	4.1	4.1	mg/l	1	09/26/05	BF	EPA 1664

RL = Reporting Limit

Report of Analysis

Page 1 of 1

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2

Client Sample ID:	GACINF01	Date Sampled:	09/21/05
Lab Sample ID:	M50998-1A	Date Received:	09/22/05
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270C BY SIM SW846 3510C		
Project:	GSCMA:97451485 (GSCRMBNH) 137 1st NH Turnpike, Northwood, NH		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F16087.D	1	10/03/05	PB	09/27/05	OP9710	MSF878
Run #2							

Run #	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	1.1	ug/l	
83-32-9	Acenaphthene	ND	0.11	ug/l	
208-96-8	Acenaphthylene	ND	0.11	ug/l	
120-12-7	Anthracene	ND	0.11	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.056	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.056	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	ug/l	
218-01-9	Chrysene	ND	0.11	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	ug/l	
206-44-0	Fluoranthene	ND	0.11	ug/l	
86-73-7	Fluorene	ND	0.11	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.22	ug/l	
91-20-3	Naphthalene	0.16	0.11	ug/l	
85-01-8	Phenanthrene	ND	0.11	ug/l	
129-00-0	Pyrene	ND	0.11	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	1% ^a		10-120%
4165-62-2	Phenol-d5	0% ^a		10-120%
118-79-6	2,4,6-Tribromophenol	5% ^a		23-135%
4165-60-0	Nitrobenzene-d5	60%		30-120%
321-60-8	2-Fluorobiphenyl	75%		25-120%
1718-51-0	Terphenyl-d14	57%		24-132%

(a) Outside control limits due to possible matrix interference. Confirmed by reanalysis.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



CHAIN OF CUSTODY
495 Tech Center West, Bldg. 1, Marlboro, MA 01752
(508) 481-6200 Fax: (508) 481-7753

Accutest Job #: **M50998**

Client Information				Facility Information				Analytical Information																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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GACINF01 M50998-1				Date 9/21/2005		Time 4:30		Sampled By JPS		Matrix GW		# of bottles 10		VCL		NACH		MCH		MCHX		MCHN		MCHC		MCHS		MCHT		MCHL		MCHD		MCHB		MCHF		MCHG		MCHH		MCHI		MCHJ		MCHK		MCHL		MCHM		MCHN		MCHO		MCHP		MCHQ		MCHR		MCHS		MCHT		MCHU		MCHV		MCHW		MCHX		MCHY		MCHZ		MCHA		MCHB		MCHC		MCHD		MCHE		MCHF		MCHG		MCHH		MCHI		MCHJ		MCHK		MCHL		MCHM		MCHN		MCHO		MCHP		MCHQ		MCHR		MCHS		MCHT		MCHU		MCHV		MCHW		MCHX		MCHY		MCHZ		MCHA		MCHB		MCHC		MCHD		MCHE		MCHF		MCHG		MCHH		MCHI		MCHJ		MCHK		MCHL		MCHM		MCHN		MCHO		MCHP		MCHQ		MCHR		MCHS		MCHT		MCHU		MCHV		MCHW		MCHX		MCHY		MCHZ		MCHA		MCHB		MCHC		MCHD		MCHE		MCHF		MCHG		MCHH		MCHI		MCHJ		MCHK		MCHL		MCHM		MCHN		MCHO		MCHP		MCHQ		MCHR		MCHS		MCHT		MCHU		MCHV		MCHW		MCHX		MCHY		MCHZ		MCHA		MCHB		MCHC		MCHD		MCHE		MCHF		MCHG		MCHH		MCHI		MCHJ		MCHK		MCHL		MCHM		MCHN		MCHO		MCHP		MCHQ		MCHR		MCHS		MCHT		MCHU		MCHV		MCHW		MCHX		MCHY		MCHZ		MCHA		MCHB		MCHC		MCHD		MCHE		MCHF		MCHG		MCHH		MCHI		MCHJ		MCHK		MCHL		MCHM		MCHN		MCHO		MCHP		MCHQ		MCHR		MCHS		MCHT		MCHU		MCHV		MCHW		MCHX		MCHY		MCHZ		MCHA		MCHB		MCHC		MCHD		MCHE		MCHF		MCHG		MCHH		MCHI		MCHJ		MCHK		MCHL		MCHM		MCHN		MCHO		MCHP		MCHQ		MCHR		MCHS		MCHT		MCHU		MCHV		MCHW		MCHX		MCHY		MCHZ		MCHA		MCHB		MCHC		MCHD		MCHE		MCHF		MCHG		MCHH		MCHI		MCHJ		MCHK		MCHL		MCHM		MCHN		MCHO		MCHP		MCHQ		MCHR		MCHS		MCHT		MCHU		MCHV		MCHW		MCHX		MCHY		MCHZ		MCHA		MCHB		MCHC		MCHD		MCHE		MCHF		MCHG		MCHH		MCHI		MCHJ		MCHK		MCHL		MCHM		MCHN		MCHO		MCHP		MCHQ		MCHR		MCHS		MCHT		MCHU		MCHV		MCHW		MCHX		MCHY		MCHZ		MCHA		MCHB		MCHC		MCHD		MCHE		MCHF		MCHG		MCHH		MCHI		MCHJ		MCHK		MCHL		MCHM		MCHN		MCHO		MCHP		MCHQ		MCHR		MCHS		MCHT		MCHU		MCHV		MCHW		MCHX		MCHY		MCHZ		MCHA		MCHB		MCHC		MCHD		MCHE		MCHF		MCHG		MCHH		MCHI		MCHJ		MCHK		MCHL		MCHM		MCHN		MCHO		MCHP		MCHQ		MCHR		MCHS		MCHT		MCHU		MCHV		MCHW		MCHX		MCHY		MCHZ		MCHA		MCHB		MCHC		MCHD		MCHE		MCHF		MCHG		MCHH		MCHI		MCHJ		MCHK		MCHL		MCHM		MCHN		MCHO		MCHP		MCHQ		MCHR		MCHS		MCHT		MCHU		MCHV		MCHW		MCHX		MCHY		MCHZ		MCHA		MCHB		MCHC		MCHD		MCHE		MCHF		MCHG		MCHH		MCHI		MCHJ		MCHK		MCHL		MCHM		MCHN		MCHO		MCHP		MCHQ		MCHR		MCHS		MCHT		MCHU		MCHV		MCHW		MCHX		MCHY		MCHZ		MCHA		MCHB		MCHC		MCHD		MCHE		MCHF		MCHG		MCHH		MCHI		MCHJ		MCHK		MCHL		MCHM		MCHN		MCHO		MCHP		MCHQ		MCHR		MCHS		MCHT		MCHU		MCHV		MCHW		MCHX		MCHY		MCHZ		MCHA		MCHB		MCHC		MCHD		MCHE		MCHF		MCHG		MCHH		MCHI		MCHJ		MCHK		MCHL		MCHM		MCHN		MCHO		MCHP		MCHQ		MCHR		MCHS		MCHT		MCHU		MCHV		MCHW		MCHX		MCHY		MCHZ		MCHA		MCHB		MCHC		MCHD		MCHE		MCHF		MCHG		MCHH		MCHI		MCHJ		MCHK		MCHL		MCHM		MCHN		MCHO		MCHP		MCHQ		MCHR		MCHS		MCHT		MCHU		MCHV		MCHW		MCHX		MCHY		MCHZ		MCHA		MCHB		MCHC		MCHD		MCHE		MCHF		MCHG		MCHH		MCHI		MCHJ		MCHK		MCHL		MCHM		MCHN		MCHO		MCHP		MCHQ		MCHR		MCHS		MCHT		MCHU		MCHV		MCHW		MCHX		MCHY		MCHZ		MCHA		MCHB		MCHC		MCHD		MCHE		MCHF		MCHG		MCHH		MCHI		MCHJ		MCHK		MCHL		MCHM		MCHN		MCHO		MCHP		MCHQ		MCHR		MCHS		MCHT		MCHU		MCHV		MCHW		MCHX		MCHY		MCHZ		MCHA		MCHB		MCHC		MCHD		MCHE		MCHF		MCHG		MCHH		MCHI		MCHJ		MCHK		MCHL		MCHM		MCHN		MCHO		MCHP		MCHQ		MCHR		MCHS		MCHT		MCHU		MCHV		MCHW		MCHX		MCHY		MCHZ		MCHA		MCHB		MCHC		MCHD		MCHE		MCHF		MCHG		MCHH		MCHI		MCHJ		MCHK		MCHL		MCHM		MCHN		MCHO		MCHP		MCHQ		MCHR		MCHS		MCHT		MCHU		MCHV		MCHW		MCHX		MCHY		MCHZ		MCHA		MCHB		MCHC		MCHD		MCHE		MCHF		MCHG		MCHH		MCHI		MCHJ		MCHK		MCHL		MCHM		MCHN		MCHO		MCHP		MCHQ		MCHR		MCHS		MCHT		MCHU		MCHV		MCHW		MCHX		MCHY		MCHZ		MCHA		MCHB		MCHC		MCHD		MCHE		MCHF		MCHG		MCHH		MCHI		MCHJ		MCHK		MCHL		MCHM		MCHN		MCHO		MCHP		MCHQ		MCHR		MCHS		MCHT		MCHU		MCHV		MCHW		MCHX		MCHY		MCHZ		MCHA		MCHB		MCHC		MCHD		MCHE		MCHF		MCHG		MCHH		MCHI		MCHJ		MCHK		MCHL		MCHM		MCHN		MCHO		MCHP		MCHQ		MCHR		MCHS		MCHT		MCHU		MCHV		MCHW		MCHX		MCHY		MCHZ		MCHA		MCHB		MCHC		MCHD		MCHE		MCHF		MCHG		MCHH		MCHI		MCHJ		MCHK		MCHL		MCHM		MCHN		MCHO		MCHP		MCHQ		MCHR		MCHS		MCHT		MCHU		MCHV		MCHW		MCHX		MCHY		MCHZ		MCHA		MCHB		MCHC		MCHD		MCHE		MCHF		MCHG		MCHH		MCHI		MCHJ		MCHK		MCHL		MCHM		MCHN		MCHO		MCHP		MCHQ		MCHR		MCHS		MCHT		MCHU		MCHV		MCHW		MCHX		MCHY		MCHZ		MCHA		MCHB		MCHC		MCHD		MCHE		MCHF		MCHG		MCHH		MCHI		MCHJ		MCHK		MCHL		MCHM		MCHN		MCHO		MCHP		MCHQ		MCHR		MCHS		MCHT		MCHU		MCHV		MCHW		MCHX		MCHY		MCHZ		MCHA		MCHB		MCHC		MCHD		MCHE		MCHF		MCHG		MCHH		MCHI		MCHJ		MCHK		MCHL		MCHM		MCHN		MCHO		MCHP		MCHQ		MCHR		MCHS		MCHT		MCHU		MCHV		MCHW		MCHX		MCHY		MCHZ		MCHA		MCHB		MCHC		MCHD		MCHE		MCHF		MCHG		MCHH		MCHI		MCHJ		MCHK		MCHL		MCHM		MCHN		MCHO		MCHP		MCHQ		MCHR		MCHS		MCHT		MCHU		MCHV		MCHW		MCHX		MCHY		MCHZ		MCHA		MCHB		MCHC		MCHD		MCHE		MCHF		MCHG		MCHH		MCHI		MCHJ		MCHK		MCHL		MCHM		MCHN		MCHO		MCHP		MCHQ		MCHR		MCHS		MCHT		MCHU		MCHV		MCHW		MCHX		MCHY		MCHZ		MCHA		MCHB		MCHC		MCHD		MCHE		MCHF		MCHG		MCHH		MCHI		MCHJ		MCHK		MCHL		MCHM		MCHN		MCHO		MCHP		MCHQ		MCHR		MCHS		MCHT		MCHU		MCHV		MCHW		MCHX		MCHY		MCHZ		MCHA		MCHB		MCHC		MCHD		MCHE		MCHF		MCHG		MCHH		MCHI		MCHJ		MCHK		MCHL		MCHM		MCHN		MCHO		MCHP		MCHQ		MCHR		MCHS		MCHT		MCHU		MCHV		MCHW		MCHX		MCHY		MCHZ		MCHA		MCHB		MCHC		MCHD		MCHE		MCHF		MCHG		MCHH		MCHI		MCHJ		MCHK		MCHL		MCHM		MCHN		MCHO		MCHP		MCHQ		MCHR		MCHS		MCHT		MCHU		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Betty Baer

From: Trish Eliasson [TEliasson@kleinfelder.com]
Sent: Friday, September 23, 2005 1:44 PM
To: Betty Baer
Subject: Re: Dover NH and Northwood NH (M50988) (M50998)

Betty,

The chain for 9/22 should not include total As. We do want you to analyze for total As, as was indicated on the chain from the 9/19 samples and my e-mail to Reza regarding metals analysis.

-Trish

Trish Eliasson
GSC/Kleinfelder
ph: 978.486.0060 x 308
fx: 978.486.0630
email: tellasson@kleinfelder.com

>>> "Betty Baer" <bettyb@accutest.com> 9/23/2005 12:24 PM >>>
We rec'd Chains for these sites 9/22/05 with requested analysis of As,
no bottles were supplied, please advise.

Thanks,

Betty

Betty Baer
Accutest Laboratories
495 Technology Center West, Building #1
Marlboro, MA 01752

Phone (508) 481-6200
Fax (508) 481-7753

KLEINFELDER
EXPECT MORE

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M50998: Chain of Custody
Page 2 of 2

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Page 1 of 1

Job Number: M50998

Account: SHELLWIC Shell Oil

Project: GSCMA:97451485 (GSCRMBNH) 137 1st NH Turnpike, Northwood, NH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP9708-MB	F16045.D	1	09/29/05	PN	09/27/05	OP9708	MSF876

The QC reported here applies to the following samples:

Method: SW846 8270C

M50998-1

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
88-75-5	2-Nitrophenol	ND	10	ug/l	
100-02-7	4-Nitrophenol	ND	20	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	ug/l	
85-68-7	Butyl benzyl phthalate	ND	10	ug/l	
84-74-2	Di-n-butyl phthalate	ND	10	ug/l	
117-84-0	Di-n-octyl phthalate	ND	10	ug/l	
84-66-2	Diethyl phthalate	ND	10	ug/l	
131-11-3	Dimethyl phthalate	ND	10	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	10	ug/l	

CAS No.	Surrogate Recoveries	Limits
367-12-4	2-Fluorophenol	61% 10-120%
4165-62-2	Phenol-d5	41% 10-120%
118-79-6	2,4,6-Tribromophenol	107% 31-123%
4165-60-0	Nitrobenzene-d5	78% 32-120%
321-60-8	2-Fluorobiphenyl	87% 32-120%
1718-51-0	Terphenyl-d14	78% 33-123%

Method Blank Summary

Page 1 of 1

Job Number: M50998

Account: SHELLWIC Shell Oil

Project: GSCMA:97451485 (GSCRMBNH) 137 1st NH Turnpike, Northwood, NH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP9710-MB	F16080.D	1	10/03/05	PB	09/27/05	OP9710	MSF878

The QC reported here applies to the following samples:

Method: SW846 8270C BY SIM

M50998-1A

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	1.0	ug/l	
83-32-9	Acenaphthene	ND	0.10	ug/l	
208-96-8	Acenaphthylene	ND	0.10	ug/l	
120-12-7	Anthracene	ND	0.10	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	ug/l	
218-01-9	Chrysene	ND	0.10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	ug/l	
206-44-0	Fluoranthene	ND	0.10	ug/l	
86-73-7	Fluorene	ND	0.10	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	0.10	ug/l	
85-01-8	Phenanthrene	ND	0.10	ug/l	
129-00-0	Pyrene	ND	0.10	ug/l	

CAS No.	Surrogate Recoveries	Limits
367-12-4	2-Fluorophenol	52% 10-120%
4165-62-2	Phenol-d5	37% 10-120%
118-79-6	2,4,6-Tribromophenol	76% 23-135%
4165-60-0	Nitrobenzene-d5	58% 30-120%
321-60-8	2-Fluorobiphenyl	70% 25-120%
1718-51-0	Terphenyl-d14	66% 24-132%

Blank Spike Summary

Page 1 of 1

Job Number: M50998

Account: SHELLWIC Shell Oil

Project: GSCMA:97451485 (GSCRMBNH) 137 1st NH Turnpike, Northwood, NH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP9708-BS	F16046.D	1	09/29/05	PN	09/27/05	OP9708	MSF876

The QC reported here applies to the following samples:

Method: SW846 8270C

M50998-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-57-8	2-Chlorophenol	100	80.5	81	50-120
59-50-7	4-Chloro-3-methyl phenol	100	84.1	84	56-120
120-83-2	2,4-Dichlorophenol	100	82.5	83	56-120
105-67-9	2,4-Dimethylphenol	100	68.3	68	37-120
51-28-5	2,4-Dinitrophenol	100	62.9	63	27-120
534-52-1	4,6-Dinitro-o-cresol	100	74.5	75	36-125
88-75-5	2-Nitrophenol	100	82.7	83	54-120
100-02-7	4-Nitrophenol	100	46.1	46	7-120
108-95-2	Phenol	100	37.6	38	17-120
88-06-2	2,4,6-Trichlorophenol	100	88.1	88	53-120
85-68-7	Butyl benzyl phthalate	50	31.2	62	27-120
84-74-2	Di-n-butyl phthalate	50	40.9	82	47-120
117-84-0	Di-n-octyl phthalate	50	35.9	72	60-123
84-66-2	Diethyl phthalate	50	27.9	56	8-120
131-11-3	Dimethyl phthalate	50	11.0	22	1-120
117-81-7	bis(2-Ethylhexyl)phthalate	50	41.3	83	61-120

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	69%	10-120%
4165-62-2	Phenol-d5	48%	10-120%
118-79-6	2,4,6-Tribromophenol	117%	31-123%
4165-60-0	Nitrobenzene-d5	81%	32-120%
321-60-8	2-Fluorobiphenyl	92%	32-120%
1718-51-0	Terphenyl-d14	89%	33-123%

Blank Spike/Blank Spike Duplicate Summary

Page 1 of 1

Job Number: M50998

Account: SHELLWIC Shell Oil

Project: GSCMA:97451485 (GSCRMBNH) 137 1st NH Turnpike, Northwood, NH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP9710-BS	F16081.D	1	10/03/05	PB	09/27/05	OP9710	MSF878
OP9710-BSD	F16082.D	1	10/03/05	PB	09/27/05	OP9710	MSF878

The QC reported here applies to the following samples:

Method: SW846 8270C BY SIM

M50998-1A

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
87-86-5	Pentachlorophenol	100	71.7	72	74.5	75	4	53-111/30
83-32-9	Acenaphthene	50	34.8	70	33.2	66	5	47-120/30
208-96-8	Acenaphthylene	50	28.3	57	27.2	54	4	49-120/30
120-12-7	Anthracene	50	37.6	75	35.3	71	6	55-120/30
56-55-3	Benzo(a)anthracene	50	39.8	80	37.9	76	5	50-129/30
50-32-8	Benzo(a)pyrene	50	34.0	68	33.5	67	1	57-120/30
205-99-2	Benzo(b)fluoranthene	50	35.8	72	33.9	68	5	62-120/30
191-24-2	Benzo(g,h,i)perylene	50	34.0	68	32.5	65	5	57-127/30
207-08-9	Benzo(k)fluoranthene	50	35.1	70	33.4	67	5	51-120/30
218-01-9	Chrysene	50	42.8	86	41.3	83	4	54-120/30
53-70-3	Dibenzo(a,h)anthracene	50	41.6	83	39.4	79	5	45-144/30
206-44-0	Fluoranthene	50	38.2	76	36.3	73	5	51-121/30
86-73-7	Fluorene	50	37.4	75	36.0	72	4	56-120/30
193-39-5	Indeno(1,2,3-cd)pyrene	50	35.1	70	33.5	67	5	54-121/30
91-57-6	2-Methylnaphthalene	50	35.8	72	34.1	68	5	40-120/30
91-20-3	Naphthalene	50	31.0	62	29.4	59	5	37-120/30
85-01-8	Phenanthrene	50	37.7	75	35.2	70	7	51-120/30
129-00-0	Pyrene	50	37.7	75	35.0	70	7	45-120/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
367-12-4	2-Fluorophenol	64%	62%	10-120%
4165-62-2	Phenol-d5	47%	44%	10-120%
118-79-6	2,4,6-Tribromophenol	93%	91%	23-135%
4165-60-0	Nitrobenzene-d5	67%	65%	30-120%
321-60-8	2-Fluorobiphenyl	82%	76%	25-120%
1718-51-0	Terphenyl-d14	81%	67%	24-132%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: M50998

Account: SHELLWIC Shell Oil

Project: GSCMA:97451485 (GSCMBNH) 137 1st NH Turnpike, Northwood, NH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP9708-MS	F16048.D	1	09/29/05	PN	09/27/05	OP9708	MSF876
OP9708-MSD	F16049.D	1	09/29/05	PN	09/27/05	OP9708	MSF876
M51127-1	F16066.D	1	09/30/05	PN	09/27/05	OP9708	MSF877

The QC reported here applies to the following samples:

Method: SW846 8270C

M50998-1

CAS No.	Compound	M51127-1 ug/l	Spike Q	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	ND	100	81.6	82	87.6	88	7	43-120/24
59-50-7	4-Chloro-3-methyl phenol	ND	100	87.6	88	91.6	92	4	52-120/20
120-83-2	2,4-Dichlorophenol	ND	100	86.8	87	91.4	91	5	49-120/23
105-67-9	2,4-Dimethylphenol	ND	100	34.5	35	52.8	53	42*	1-120/33
51-28-5	2,4-Dinitrophenol	ND	100	66.9	67	73.7	74	10	29-124/50
534-52-1	4,6-Dinitro-o-cresol	ND	100	80.4	80	85.8	86	6	41-126/37
88-75-5	2-Nitrophenol	ND	100	88.2	88	93.2	93	6	48-120/31
100-02-7	4-Nitrophenol	ND	100	45.8	46	48.9	49	7	7-120/22
108-95-2	Phenol	ND	100	37.7	38	38.9	39	3	13-120/25
88-06-2	2,4,6-Trichlorophenol	ND	100	88.6	89	95.8	96	8	44-120/26
85-68-7	Butyl benzyl phthalate	ND	50	32.6	65	32.1	64	2	28-120/29
84-74-2	Di-n-butyl phthalate	ND	50	41.2	82	42.0	84	2	46-120/25
117-84-0	Di-n-octyl phthalate	ND	50	35.9	72	38.0	76	6	57-124/26
84-66-2	Diethyl phthalate	ND	50	29.5	59	29.5	59	0	12-120/39
131-11-3	Dimethyl phthalate	ND	50	12.8	26	12.1	24	6	1-120/50
117-81-7	bis(2-Ethylhexyl)phthalate	ND	50	43.2	86	43.9	88	2	53-125/25

CAS No.	Surrogate Recoveries	MS	MSD	M51127-1	Limits
367-12-4	2-Fluorophenol	68%	68%	59%	10-120%
4165-62-2	Phenol-d5	47%	46%	33%	10-120%
118-79-6	2,4,6-Tribromophenol	114%	117%	102%	31-123%
4165-60-0	Nitrobenzene-d5	81%	81%	75%	32-120%
321-60-8	2-Fluorobiphenyl	91%	90%	93%	32-120%
1718-51-0	Terphenyl-d14	79%	72%	80%	33-123%

(a) High RPD due to possible matrix interference and/or sample non-homogeneity.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: M50998

Account: SHELLWIC Shell Oil

Project: GSCMA:97451485 (GSCRMBNH) 137 1st NH Turnpike, Northwood, NH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP9710-MS	F16083.D	1	10/03/05	PB	09/27/05	OP9710	MSF878
OP9710-MSD	F16084.D	1	10/03/05	PB	09/27/05	OP9710	MSF878
M51130-1	F16085.D	1	10/03/05	PB	09/27/05	OP9710	MSF878

The QC reported here applies to the following samples:

Method: SW846 8270C BY SIM

M50998-1A

CAS No.	Compound	M51130-1 ug/l	Spike Q	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
87-86-5	Pentachlorophenol	ND	100	74.4	74	80.3	80	8	5-137/52
83-32-9	Acenaphthene	ND	50	33.2	66	35.6	71	7	49-120/20
208-96-8	Acenaphthylene	ND	50	27.3	55	29.5	59	8	50-120/22
120-12-7	Anthracene	ND	50	36.9	74	38.6	77	5	58-120/20
56-55-3	Benzo(a)anthracene	ND	50	39.4	79	42.0	84	6	50-132/20
50-32-8	Benzo(a)pyrene	ND	50	35.2	70	37.2	74	6	51-120/22
205-99-2	Benzo(b)fluoranthene	ND	50	33.4	67	37.4	75	11	67-120/20
191-24-2	Benzo(g,h,i)perylene	ND	50	36.1	72	36.1	72	0	63-121/20
207-08-9	Benzo(k)fluoranthene	ND	50	35.8	72	36.2	72	1	54-120/25
218-01-9	Chrysene	ND	50	42.7	85	44.8	90	5	59-120/20
53-70-3	Dibenzo(a,h)anthracene	ND	50	43.6	87	43.7	87	0	46-146/20
206-44-0	Fluoranthene	ND	50	38.5	77	40.1	80	4	58-120/20
86-73-7	Fluorene	ND	50	36.5	73	39.3	79	7	62-120/20
193-39-5	Indeno(1,2,3-cd)pyrene	ND	50	36.9	74	37.2	74	1	52-124/20
91-57-6	2-Methylnaphthalene	ND	50	32.9	66	35.7	71	8	44-120/20
91-20-3	Naphthalene	ND	50	28.9	58	31.0	62	7	41-120/20
85-01-8	Phenanthrene	ND	50	36.7	73	39.1	78	6	51-120/21
129-00-0	Pyrene	ND	50	35.5	71	39.0	78	9	48-121/20

CAS No.	Surrogate Recoveries	MS	MSD	M51130-1	Limits
367-12-4	2-Fluorophenol	62%	62%	51%	10-120%
4165-62-2	Phenol-d5	44%	45%	19%	10-120%
118-79-6	2,4,6-Tribromophenol	92%	96%	80%	23-135%
4165-60-0	Nitrobenzene-d5	67%	67%	57%	30-120%
321-60-8	2-Fluorobiphenyl	75%	76%	68%	25-120%
1718-51-0	Terphenyl-d14	65%	64%	68%	24-132%

Semivolatile Surrogate Recovery Summary

Page 1 of 1

Job Number: M50998

Account: SHELLWIC Shell Oil

Project: GSCMA:97451485 (GSCRMBNH) 137 1st NH Turnpike, Northwood, NH

Method: SW846 8270C

Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
M50998-1	E24522.D	1.0* ^a	1.0* ^a	6.0* ^a	67.0	79.0	61.0
OP9708-BS	F16046.D	69.0	48.0	117.0	81.0	92.0	89.0
OP9708-MB	F16045.D	61.0	41.0	107.0	78.0	87.0	78.0
OP9708-MS	F16048.D	68.0	47.0	114.0	81.0	91.0	79.0
OP9708-MSD	F16049.D	68.0	46.0	117.0	81.0	90.0	72.0

Surrogate
Compounds

Recovery
Limits

S1 = 2-Fluorophenol	10-120%
S2 = Phenol-d5	10-120%
S3 = 2,4,6-Tribromophenol	31-123%
S4 = Nitrobenzene-d5	32-120%
S5 = 2-Fluorobiphenyl	32-120%
S6 = Terphenyl-d14	33-123%

(a) Outside control limits due to possible matrix interference. Confirmed by reanalysis.

4.5

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Semivolatile Surrogate Recovery Summary

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Job Number: M50998

Account: SHELLWIC Shell Oil

Project: GSCMA:97451485 (GSCRMBNH) 137 1st NH Turnpike, Northwood, NH

Method: SW846 8270C BY SIM

Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
M50998-1A	F16087.D	1.0* a	0.0* a	5.0* a	60.0	75.0	57.0
OP9710-BS	F16081.D	64.0	47.0	93.0	67.0	82.0	81.0
OP9710-BSD	F16082.D	62.0	44.0	91.0	65.0	76.0	67.0
OP9710-MB	F16080.D	52.0	37.0	76.0	58.0	70.0	66.0
OP9710-MS	F16083.D	62.0	44.0	92.0	67.0	75.0	65.0
OP9710-MSD	F16084.D	62.0	45.0	96.0	67.0	76.0	64.0

Surrogate
Compounds

Recovery
Limits

S1 = 2-Fluorophenol	10-120%
S2 = Phenol-d5	10-120%
S3 = 2,4,6-Tribromophenol	23-135%
S4 = Nitrobenzene-d5	30-120%
S5 = 2-Fluorobiphenyl	25-120%
S6 = Terphenyl-d14	24-132%

(a) Outside control limits due to possible matrix interference. Confirmed by reanalysis.

4.5

4

GC Semi-volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

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Job Number: M50998

Account: SHELLWIC Shell Oil

Project: GSCMA:97451485 (GSCRMBNH) 137 1st NH Turnpike, Northwood, NH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP9693-MB	YZ28634.D	1	09/26/05	CZ	09/23/05	OP9693	GYZ1191

The QC reported here applies to the following samples:

Method: EPA 608

M50998-1

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	99%	44-132%
877-09-8	Tetrachloro-m-xylene	101%	44-132%
2051-24-3	Decachlorobiphenyl	69%	12-151%
2051-24-3	Decachlorobiphenyl	72%	12-151%

Blank Spike Summary

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Job Number: M50998

Account: SHELLWIC Shell Oil

Project: GSCMA:97451485 (GSCRMBNH) 137 1st NH Turnpike, Northwood, NH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP9693-BS	YZ28635.D	1	09/26/05	CZ	09/23/05	OP9693	GYZ1191

The QC reported here applies to the following samples:

Method: EPA 608

M50998-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
12674-11-2	Aroclor 1016	2	2.0	100	50-114
11104-28-2	Aroclor 1221		ND		15-178
11141-16-5	Aroclor 1232		ND		10-215
53469-21-9	Aroclor 1242		ND		39-150
12672-29-6	Aroclor 1248		ND		38-158
11097-69-1	Aroclor 1254		ND		29-131
11096-82-5	Aroclor 1260	2	1.8	90	8-127

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	89%	44-132%
877-09-8	Tetrachloro-m-xylene	75%	44-132%
2051-24-3	Decachlorobiphenyl	62%	12-151%
2051-24-3	Decachlorobiphenyl	62%	12-151%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: M50998

Account: SHELLWIC Shell Oil

Project: GSCMA:97451485 (GSCRMBNH) 137 1st NH Turnpike, Northwood, NH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP9693-MS	YZ28636.D	1	09/26/05	CZ	09/23/05	OP9693	GYZ1191
OP9693-MSD	YZ28637.D	1	09/26/05	CZ	09/23/05	OP9693	GYZ1191
M51024-1	YZ28638.D	1	09/26/05	CZ	09/23/05	OP9693	GYZ1191

The QC reported here applies to the following samples:

Method: EPA 608

M50998-1

CAS No.	Compound	M51024-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND		2	1.8	90	1.9	95	5	50-114/30
11104-28-2	Aroclor 1221	ND			ND		ND		nc	15-178/30
11141-16-5	Aroclor 1232	ND			ND		ND		nc	10-215/30
53469-21-9	Aroclor 1242	ND			ND		ND		nc	39-150/30
12672-29-6	Aroclor 1248	ND			ND		ND		nc	38-158/30
11097-69-1	Aroclor 1254	ND			ND		ND		nc	29-131/30
11096-82-5	Aroclor 1260	ND		2	1.9	95	2.0	100	5	8-127/30

CAS No.	Surrogate Recoveries	MS	MSD	M51024-1	Limits
877-09-8	Tetrachloro-m-xylene	88%	92%	87%	44-132%
877-09-8	Tetrachloro-m-xylene	71%	75%	71%	44-132%
2051-24-3	Decachlorobiphenyl	98%	104%	93%	12-151%
2051-24-3	Decachlorobiphenyl	96%	99%	88%	12-151%

Semivolatile Surrogate Recovery Summary

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Job Number: M50998

Account: SHELLWIC Shell Oil

Project: GSCMA:97451485 (GSCRMBNH) 137 1st NH Turnpike, Northwood, NH

Method: EPA 608

Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 ^a	S1 ^b	S2 ^a	S2 ^b
M50998-1	YZ28642.D	86.0	69.0	67.0	63.0
OP9693-BS	YZ28635.D	89.0	75.0	62.0	62.0
OP9693-MB	YZ28634.D	99.0	101.0	69.0	72.0
OP9693-MS	YZ28636.D	88.0	71.0	98.0	96.0
OP9693-MSD	YZ28637.D	92.0	75.0	104.0	99.0

Surrogate
Compounds

Recovery
Limits

S1 = Tetrachloro-m-xylene

44-132%

S2 = Decachlorobiphenyl

12-151%

(a) Recovery from GC signal #1

(b) Recovery from GC signal #2

5.4

5

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

9

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: M50998

Account: SHELLWIC - Shell Oil

Project: GSCMA:97451485 (GSCRMBNH) 137 1st NH Turnpike, Northwood, NH

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Oil And Grease, Gravimetric	GP5991/GN17925	4.0	4.0	mg/l	40	38.9	97.0	80-120%

Associated Samples:
Batch GP5991: M50998-1

6.1

6

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: M50998

Account: SHELLWIC - Shell Oil

Project: GSCMA:97451485 (GSCRMBNH) 137 1st NH Turnpike, Northwood, NH

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Oil And Grease, Gravimetric	GP5991/GN17925	M51082-1	mg/l	<5.0	40	38.5	96.0	75-125%

Associated Samples:
Batch GP5991: M50998-1

6.2

6

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: M50998

Account: SHELLWIC - Shell Oil

Project: GSCMA:97451485 (GSCRMNBH) 137 1st NH Turnpike, Northwood, NH

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Oil And Grease, Gravimetric	GP5991/GN17925	M51082-1	mg/l	<5.0	40	38.7	0.5	

Associated Samples:
Batch GP5991: M50998-1

6.3

9

LABORATORY ANALYTICAL
(NORTH RIVER - RECEIVING WATER BODY)



10/20/05

Technical Report for

Shell Oil

GSCMA:97451485 (GSCRMBNH) 137 1st NH Turnpike, Northwood, NH

PO# MA02460

Accutest Job Number: M51734

Sampling Date: 10/14/05

Report to:

GSC-Kleinfelder

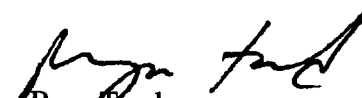
ryarnell@kleinfelder.com

ATTN: Robin Yarnell

Total number of pages in report: 7



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.


Reza Fand
Lab Director

Certifications: MA (M-MA136) CT (PH-0109) NH (250204) RI (00071) ME (MA136) FL (E87579)
NY (23346) NJ (MA926) NAVY USACE

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M51734

Laboratories

Sample Summary

Shell Oil

Job No: M51734

GSCMA:97451485 (GSCRMBNH) 137 1st NH Turnpike, Northwood, NH
Project No: PO# MA02460

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
M51734-1	10/14/05	13:00 JPS	10/14/05	AQ Ground Water	POND

Report of Analysis

Page 1 of 1

Client Sample ID:	POND	Date Sampled:	10/14/05
Lab Sample ID:	M51734-1	Date Received:	10/14/05
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	GSCMA:97451485 (GSCRMBNH) 137 1st NH Turnpike, Northwood, NH		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Cadmium	< 4.0	4.0	ug/l	1	10/17/05	10/19/05 AC	SW846 6010B ¹	SW846 3010A ²
Copper	< 25	25	ug/l	1	10/17/05	10/19/05 AC	SW846 6010B ¹	SW846 3010A ²
Iron	315	100	ug/l	1	10/17/05	10/19/05 AC	SW846 6010B ¹	SW846 3010A ²
Lead	< 5.0	5.0	ug/l	1	10/17/05	10/19/05 AC	SW846 6010B ¹	SW846 3010A ²
Nickel	< 40	40	ug/l	1	10/17/05	10/19/05 AC	SW846 6010B ¹	SW846 3010A ²
Zinc	< 20	20	ug/l	1	10/17/05	10/19/05 AC	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA6368

(2) Prep QC Batch: MP7780

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID:	POND	Date Sampled:	10/14/05
Lab Sample ID:	M51734-1	Date Received:	10/14/05
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	GSCMA:97451485 (GSCRMBNH) 137 1st NH Turnpike, Northwood, NH		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Hardness, Total as CaCO3	14.6	4.0	mg/l	1	10/17/05	CF	EPA 130.2

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

[illegible]

3.1

M51734: Chain of Custody
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