

ATTACHMENT D

SUMMARY OF GROUND WATER MONITORING DATA

(2004)

GLOBAL PETROLEUM CORPORATION

NPDES PERMIT NO. MA0003425

Global Petroleum Corporation
 140 Lee Burbank Highway, Revere, Massachusetts
 NPDES Exclusion 98-086
 Groundwater Treatment System
 Influent/Effluent Testing Results

Date Parameter	NPDES Limit	Apr-04		May-04		Jun-04	
		Influent	Effluent	Influent	Effluent	Influent	Effluent
TPH	5 ppm	20.5 mg/l	ND mg/l	2.8 mg/l	ND mg/l	0.66 mg/l	ND mg/l
Methyl Butyl Tert Ether	70 ppb	862,000 ug/l	1.3 ug/l	3,540 ug/l	ND ug/l	47,000 ug/l	ND ug/l
Benzene	5 ppb	4,640 ug/l	ND ug/l	362 ug/l	ND ug/l	1,920 ug/l	ND ug/l
Toluene	*	14,500 ug/l	ND ug/l	2,920 ug/l	ND ug/l	2,190 ug/l	ND ug/l
Ethylbenzene	*	899 ug/l	ND ug/l	269 ug/l	ND ug/l	326 ug/l	ND ug/l
Xylenes	*	9,170 ug/l	ND ug/l	5,860 ug/l	ND ug/l	4,940 ug/l	ND ug/l
Total BTEX	100 ppb	29,209 ug/l	ND ug/l	9,411 ug/l	ND ug/l	9,376 ug/l	ND ug/l

Technical Report for

Camp Dresser & McKee

Global Petroleum, Revere MA

Accutest Job Number: M39312

Sampling Dates: 05/04/04 - 05/07/04

Report to:

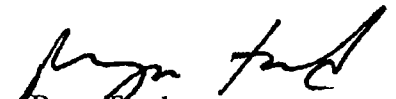
Camp Dresser & McKee
50 Hampshire Street
Cambridge, MA 02139

ATTN: James H. Winkler

Total number of pages in report: 30



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 (250203) RI (00071) ME (MA136) FL (E87579)
NY (11791) NJ (MA926) IL (000589) NAVY USACE

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SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Camp Dresser & McKee

Job No: M39312

Site: Global Petroleum, Revere MA

Report Date 5/20/2004 12:39:50 P

6 Sample(s) were collected on between 05/07/2004 and were received at Accutest on 05/10/2004 properly preserved, at 1.9 Deg. C and intact. These Samples received an Accutest job number of M39312. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GC By Method EPA 602

Matrix: AQ

Batch ID: GMN1065

- All samples were analyzed within the recommended method holding time.
- Sample(s) M39258-2MS, M39258-2MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for Methyl Tert Butyl Ether are outside control limits. Outside control limits due to high level in sample relative to spike amount.

Matrix: AQ

Batch ID: GMN1071

- All samples were analyzed within the recommended method holding time.
- Sample(s) M39391-3MS, M39391-3MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Wet Chemistry By Method EPA 418.1

Matrix: AQ

Batch ID: GP4420

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) M39312-4MS, M39312-5DUP were used as the QC samples for Petroleum Hydrocarbons, Petroleum Hydrocarbons.
- All method blanks for this batch meet method specific criteria.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(M39312).



Massachusetts Department
of Environmental Protection
Bureau of Waste Site Cleanup

BWSC-CAM

Exhibit VII A-1

22 May 2003

Revision No. 3.1

Final

Page 13 of 30

Title: MADEP MCP Response Action Analytical Report Certification Form

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Accutest Laboratories of New England Project #: M39312
Project Location: Global Petroleum, Revere MA MADEP RTN ¹ None

This form provides certifications for the following data set:
M39312-1, M39312-2, M39312-3, M39312-4, M39312-5, M39312-6

Test method: EPA 602, 418.1

Sample Matrices:	Groundwater	X Soil/Sediment	Drinking Water	Other:
MCP SW-846	8260B ()	8151A ()	8330 ()	6010B () 7470A/1A ()
Methods Used	8270C ()	8081A ()	VPH ()	6020 () 9014M ² ()
As specified in MADEP Compendium of Analytical Methods. (Check all that apply)	8082 ()	8021B ()	EPH ()	7000 S ³ () 7196A ()
	1 List Release Tracking Number (RTN), if known			
	2 M - SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method			
	3 S - SW-846 Methods 7000 Series List Individual method and analyte			

An affirmative response to questions A, B, C, and D is required for "Presumptive Certainty" status

A	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No ¹
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No ¹
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in Section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No ¹
D	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No ¹

A response to questions E and F below is required for "Presumptive Certainty" status

E	Were all QC performance standards and recommendations for the specified methods achieved?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No ¹
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No ¹

¹ All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Position: Laboratory Director
Printed Name: Reza Tand Date: 5/20/04

Sample Summary

Camp Dresser & McKee

Job No: M39312

Global Petroleum, Revere MA

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
M39312-1	05/07/04	12:15 TAN	05/10/04	AQ	Influent	INF-5704
M39312-2	05/07/04	12:20 TAN	05/10/04	AQ	Ground Water	CIN-5704
M39312-3	05/07/04	12:25 TAN	05/10/04	AQ	Ground Water	MID-1-5704
M39312-4	05/07/04	12:30 TAN	05/10/04	AQ	Ground Water	MID-2-5704
M39312-5	05/07/04	12:35 TAN	05/10/04	AQ	Effluent	EFF-5704
M39312-6	05/04/04	14:30 TAN	05/10/04	AQ	Ground Water	TP

Report of Analysis

Client Sample ID: INF-5704	Date Sampled: 05/07/04
Lab Sample ID: M39312-1	Date Received: 05/10/04
Matrix: AQ - Influent	Percent Solids: n/a
Method: EPA 602	
Project: Global Petroleum, Revere MA	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MN27071.D	1	05/12/04	AP	n/a	n/a	GMN1065
Run #2	MN27144.D	25	05/14/04	AP	n/a	n/a	GMN1071

Run #	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	362	1.0	ug/l	
108-88-3	Toluene	2920 ^a	25	ug/l	
100-41-4	Ethylbenzene	269	1.0	ug/l	
1330-20-7	Xylenes (total)	5860 ^a	25	ug/l	
1634-04-4	Methyl Tert Butyl Ether	3540 ^a	25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	91%	92%	61-124%

(a) Result is from Run# 2

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

Client Sample ID: INF-5704	Date Sampled: 05/07/04
Lab Sample ID: M39312-1	Date Received: 05/10/04
Matrix: AQ - Influent	Percent Solids: n/a
Project: Global Petroleum, Revere MA	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Petroleum Hydrocarbons	2.8	0.61	mg/l	1	05/12/04	BF	EPA 418.1

RL = Reporting Limit

Report of Analysis

Client Sample ID: CIN-5704	Date Sampled: 05/07/04
Lab Sample ID: M39312-2	Date Received: 05/10/04
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: EPA 602	
Project: Global Petroleum, Revere MA	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MN27070.D	1	05/12/04	AP	n/a	n/a	GMN1065
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	1.4	1.0	ug/l	
108-88-3	Toluene	1.8	1.0	ug/l	
100-41-4	Ethylbenzene	1.1	1.0	ug/l	
1330-20-7	Xylenes (total)	5.4	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	16.1	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	88%		61-124%

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

Client Sample ID: CIN-5704		Date Sampled: 05/07/04
Lab Sample ID: M39312-2		Date Received: 05/10/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Project: Global Petroleum, Revere MA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Petroleum Hydrocarbons	<0.61	0.61	mg/l	1	05/12/04	BF	EPA 418.1

RL = Reporting Limit

Report of Analysis

Client Sample ID: MID-1-5704	
Lab Sample ID: M39312-3	Date Sampled: 05/07/04
Matrix: AQ - Ground Water	Date Received: 05/10/04
Method: EPA 602	Percent Solids: n/a
Project: Global Petroleum, Revere MA	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MN27069.D	1	05/12/04	AP	n/a	n/a	GMN1065
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	9.1	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	86%		61-124%

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

Client Sample ID:	MID-1-5704	Date Sampled:	05/07/04
Lab Sample ID:	M39312-3	Date Received:	05/10/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Global Petroleum, Revere MA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Petroleum Hydrocarbons	<0.61	0.61	mg/l	1	05/12/04	BF	EPA 418.1

RL = Reporting Limit

Report of Analysis

Client Sample ID: MID-2-5704	Date Sampled: 05/07/04
Lab Sample ID: M39312-4	Date Received: 05/10/04
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: EPA 602	
Project: Global Petroleum, Revere MA	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MN27068.D	1	05/12/04	AP	n/a	n/a	GMN1065
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	87%		61-124%

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

Client Sample ID: MID-2-5704		Date Sampled: 05/07/04
Lab Sample ID: M39312-4		Date Received: 05/10/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Project: Global Petroleum, Revere MA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Petroleum Hydrocarbons	<0.61	0.61	mg/l	1	05/12/04	BF	EPA 418.1

RL = Reporting Limit

Report of Analysis

Client Sample ID: EFF-5704	Date Sampled: 05/07/04
Lab Sample ID: M39312-5	Date Received: 05/10/04
Matrix: AQ - Effluent	Percent Solids: n/a
Method: EPA 602	
Project: Global Petroleum, Revere MA	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MN27067.D	1	05/12/04	AP	n/a	n/a	GMN1065
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	88%		61-124%

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

Client Sample ID: EFF-5704	Date Sampled: 05/07/04
Lab Sample ID: M39312-5	Date Received: 05/10/04
Matrix: AQ - Effluent	Percent Solids: n/a
Project: Global Petroleum, Revere MA	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Petroleum Hydrocarbons	<0.61	0.61	mg/l	1	05/12/04	BF	EPA 418.1

RL = Reporting Limit

Report of Analysis

Client Sample ID: TP		
Lab Sample ID: M39312-6		Date Sampled: 05/04/04
Matrix: AQ - Ground Water		Date Received: 05/10/04
Method: EPA 602		Percent Solids: n/a
Project: Global Petroleum, Revere MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MN27066.D	1	05/12/04	AP	n/a	n/a	GMN1065
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	88%		61-124%

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

GC 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

Job Number: M39312
Account: CDM Camp Dresser & McKee
Project: Global Petroleum, Revere MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GMN1065-MB	MN27057.D	1	05/11/04	AP	n/a	n/a	GMN1065

The QC reported here applies to the following samples:

Method: EPA 602

M39312-1, M39312-2, M39312-3, M39312-4, M39312-5, M39312-6

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Limits
	2,3,4-Trifluorotoluene	90% 61-124%

Method Blank Summary

Job Number: M39312
Account: CDM Camp Dresser & McKee
Project: Global Petroleum, Revere MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GMN1071-MB	MN27139.D	1	05/14/04	AP	n/a	n/a	GMN1071

The QC reported here applies to the following samples:

Method: EPA 602

M39312-1

CAS No.	Compound	Result	RL	Units	Q
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Limits
	2,3,4-Trifluorotoluene	90% 61-124%

Blank Spike Summary

Job Number: M39312
Account: CDM Camp Dresser & McKee
Project: Global Petroleum, Revere MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GMN1065-BSP	MN27058.D	1	05/11/04	AP	n/a	n/a	GMN1065

The QC reported here applies to the following samples:

Method: EPA 602

M39312-1, M39312-2, M39312-3, M39312-4, M39312-5, M39312-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	17.0	85	39-150
100-41-4	Ethylbenzene	20	15.8	79	32-160
1634-04-4	Methyl Tert Butyl Ether	20	18.4	92	65-122
108-88-3	Toluene	20	16.3	82	46-148
1330-20-7	Xylenes (total)	60	50.1	84	69-111

CAS No.	Surrogate Recoveries	BSP	Limits
	2,3,4-Trifluorotoluene	91%	61-124%

Blank Spike Summary

Job Number: M39312
Account: CDM Camp Dresser & McKee
Project: Global Petroleum, Revere MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GMN1071-BSP	MN27140.D	1	05/14/04	AP	n/a	n/a	GMN1071

The QC reported here applies to the following samples:

Method: EPA 602

M39312-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
1634-04-4	Methyl Tert Butyl Ether	20	19.5	98	65-122
108-88-3	Toluene	20	17.7	89	46-148
1330-20-7	Xylenes (total)	60	55.3	92	69-111

CAS No.	Surrogate Recoveries	BSP	Limits
	2,3,4-Trifluorotoluene	94%	61-124%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M39312
 Account: CDM Camp Dresser & McKee
 Project: Global Petroleum, Revere MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M39258-2MS	MN27060.D	1	05/12/04	AP	n/a	n/a	GMN1065
M39258-2MSD	MN27061.D	1	05/12/04	AP	n/a	n/a	GMN1065
M39258-2	MN27063.D	1	05/12/04	AP	n/a	n/a	GMN1065

The QC reported here applies to the following samples:

Method: EPA 602

M39312-1, M39312-2, M39312-3, M39312-4, M39312-5, M39312-6

CAS No.	Compound	M39258-2 ug/l	Spike Q ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	0.14	20	16.6	82	16.5	82	1	39-150/30
100-41-4	Ethylbenzene	0.011	20	15.5	77	15.4	77	1	32-160/30
1634-04-4	Methyl Tert Butyl Ether	1100	E 20	1110	50* a	1110	50* a	0	57-126/30
108-88-3	Toluene	0.029	20	16.0	80	16.0	80	0	46-148/30
1330-20-7	Xylenes (total)	0.37	60	49.6	82	49.8	82	0	61-113/30

CAS No.	Surrogate Recoveries	MS	MSD	M39258-2	Limits
	2,3,4-Trifluorotoluene	90%	90%	87%	61-124%

(a) Outside control limits due to high level in sample relative to spike amount.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M39312
 Account: CDM Camp Dresser & McKee
 Project: Global Petroleum, Revere MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M39391-3MS	MN27166.D	1	05/17/04	AP	n/a	n/a	GMN1071
M39391-3MSD	MN27167.D	1	05/17/04	AP	n/a	n/a	GMN1071
M39391-3	MN27147.D	1	05/14/04	AP	n/a	n/a	GMN1071

The QC reported here applies to the following samples:

Method: EPA 602

M39312-1

CAS No.	Compound	M39391-3 ug/l	Spike Q	ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
1634-04-4	Methyl Tert Butyl Ether	0.37	20	18.0	88	18.0	88	0	57-126/30	
108-88-3	Toluene	0.097	20	17.3	86	17.1	85	1	46-148/30	
1330-20-7	Xylenes (total)	0.96	60	54.0	88	53.8	88	0	61-113/30	

CAS No.	Surrogate Recoveries	MS	MSD	M39391-3	Limits
	2,3,4-Trifluorotoluene	92%	92%	84%	61-124%

Volatile Surrogate Recovery Summary

Job Number: M39312
Account: CDM Camp Dresser & McKee
Project: Global Petroleum, Revere MA

Method: EPA 602

Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 ^a
M39312-1	MN27144.D	92.0
M39312-1	MN27071.D	91.0
M39312-2	MN27070.D	88.0
M39312-3	MN27069.D	86.0
M39312-4	MN27068.D	87.0
M39312-5	MN27067.D	88.0
M39312-6	MN27066.D	88.0
GMN1065-BSP	MN27058.D	91.0
GMN1065-MB	MN27057.D	90.0
GMN1071-BSP	MN27140.D	94.0
GMN1071-MB	MN27139.D	90.0
M39258-2MS	MN27060.D	90.0
M39258-2MSD	MN27061.D	90.0
M39391-3MS	MN27166.D	92.0
M39391-3MSD	MN27167.D	92.0

Surrogate Compounds	Recovery Limits
S1 = 2,3,4-Trifluorotoluene	61-124%

(a) Recovery from GC signal #2

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: M39312
Account: CDM - Camp Dresser & McKee
Project: Global Petroleum, Revere MA

Analyte	Batch ID	RL	MB Result	Units	BSP %Recov	QC Limits
Petroleum Hydrocarbons	GP4420/GN13846	0.60	<0.60	mg/l	84.0	80-120%

Associated Samples:

Batch GP4420: M39312-1, M39312-2, M39312-3, M39312-4, M39312-5

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: M39312
Account: CDM - Camp Dresser & McKee
Project: Global Petroleum, Revere MA

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Petroleum Hydrocarbons	GP4420/GN13846	M39312-5	mg/l	<0.61	<0.61	0.0	0-20*

Associated Samples:

Batch GP4420: M39312-1, M39312-2, M39312-3, M39312-4, M39312-5

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: M39312
Account: CDM - Camp Dresser & McKee
Project: Global Petroleum, Revere MA

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Petroleum Hydrocarbons	GP4420/GN13846	M39312-4	mg/l	<0.61	5.1	4.2	82.4	75-125%

Associated Samples:
Batch GP4420: M39312-1, M39312-2, M39312-3, M39312-4, M39312-5

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Sample Tracking Chronicle

Internal Sample Tracking Chronicle

Camp Dresser & McKee

Job No: M39312

Global Petroleum, Revere MA

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M39312-1 Collected: 07-MAY-04 12:15 By: TAN Received: 10-MAY-04 By: RS INF-5704						
M39312-1	EPA 418.1	12-MAY-04	BF	11-MAY-04 BF		PHC
M39312-1	EPA 602	12-MAY-04 08:27	AP			V602BTXM
M39312-1	EPA 602	14-MAY-04 21:17	AP			V602BTXM
M39312-2 Collected: 07-MAY-04 12:20 By: TAN Received: 10-MAY-04 By: RS CIN-5704						
M39312-2	EPA 418.1	12-MAY-04	BF	11-MAY-04 BF		PHC
M39312-2	EPA 602	12-MAY-04 07:43	AP			V602BTXM
M39312-3 Collected: 07-MAY-04 12:25 By: TAN Received: 10-MAY-04 By: RS MID-1-5704						
M39312-3	EPA 418.1	12-MAY-04	BF	11-MAY-04 BF		PHC
M39312-3	EPA 602	12-MAY-04 06:59	AP			V602BTXM
M39312-4 Collected: 07-MAY-04 12:30 By: TAN Received: 10-MAY-04 By: RS MID-2-5704						
M39312-4	EPA 418.1	12-MAY-04	BF	11-MAY-04 BF		PHC
M39312-4	EPA 602	12-MAY-04 06:16	AP			V602BTXM
M39312-5 Collected: 07-MAY-04 12:35 By: TAN Received: 10-MAY-04 By: RS EFF-5704						
M39312-5	EPA 418.1	12-MAY-04	BF	11-MAY-04 BF		PHC
M39312-5	EPA 602	12-MAY-04 05:32	AP			V602BTXM
M39312-6 Collected: 04-MAY-04 14:30 By: TAN Received: 10-MAY-04 By: RS TP						
M39312-6	EPA 602	12-MAY-04 04:49	AP			V602BTXM



CHAIN OF CUSTODY

495 TECHNOLOGY CENTER WEST • BUILDING ONE
 MARLBOROUGH, MA 01752
 TEL: 508-481-6200 • FAX: 508-481-7753

ACCUTEST JOB #: M39312

ACCUTEST QUOTE #:

CLIENT INFORMATION		FACILITY INFORMATION				ANALYTICAL INFORMATION				MATRIX CODES
NAME: <u>CDM</u>		PROJECT NAME: <u>GLOBAL</u>				DW - DRINKING WATER GW - GROUND WATER WW - WASTE WATER SO - SOIL SL - SLUDGE OI - OIL LIQ - OTHER LIQUID SOL - OTHER SOLID				
ADDRESS: <u>50 HAMPSHIRE ST</u>		LOCATION: <u>140 LIFE BURBANK HWY</u>								
CITY: <u>CAMBRIDGE, MA</u> STATE: _____ ZIP: _____		PROJECT NO: <u>20314-3513-DM-111P</u>								
SEND REPORT TO: <u>JIM WINKLER</u>		FAX #: _____								
PHONE #: <u>(617) 452-6263</u>										

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION			MATRIX	# OF BOTTLES	PRESERVATION					LAB USE ONLY	
		DATE	TIME	SAMPLED BY:			HCl	NaOH	HNO3	H2SO4	NONE		
-1	INF-5704	5-7-04	12:15	TAN	GW	4	X					X	X
-2	CIN-5704	↓	12:20	↓	↓	4	X					X	X
-3	MID-1-5704		12:25			4	X				X	X	
-4	MID-2-5704		12:30			4	X				X	X	
30 -5	HTK-5704	5-7-04	12:35	TAN	GW	4	X					X	X
-6	TP	5-4-04	14:30	NT	GW	2	X					X	

DATA TURNAROUND INFORMATION	DATA DELIVERABLE INFORMATION	COMMENTS/REMARKS
<input checked="" type="checkbox"/> 14 DAYS STANDARD <input checked="" type="checkbox"/> 7 DAYS RUSH <input type="checkbox"/> 48 HOUR EMERGENCY <input type="checkbox"/> OTHER _____ 14 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED	<input type="checkbox"/> STANDARD <input type="checkbox"/> COMMERCIAL "B" <input type="checkbox"/> DISK DELIVERABLE <input type="checkbox"/> STATE FORMS <input type="checkbox"/> OTHER (SPECIFY) _____	NON-PRESUMPTIVE CERTAINTY REQUIRED Loc. 366, 4B

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY				
RELINQUISHED BY: <u>1. A. NAWAN</u>	DATE TIME: <u>5-7-04 13:30</u>	RECEIVED BY: <u>1. Inger</u>	RELINQUISHED BY: <u>2. Jan</u>	DATE TIME: <u>5/10/04 15:15</u>
RELINQUISHED BY: <u>3. [Signature]</u>	DATE TIME: <u>5/10/04 16:30</u>	RECEIVED BY: <u>3. [Signature]</u>	RELINQUISHED BY: <u>4.</u>	DATE TIME: _____
RELINQUISHED BY: <u>5.</u>	DATE TIME: _____	RECEIVED BY: <u>5.</u>	SEAL # _____	RECEIVED BY: <u>4. [Signature]</u>
PRESERVE WHERE APPLICABLE <input type="checkbox"/>			ON ICE <input checked="" type="checkbox"/>	TEMPERATURE <u>1.9 C</u>