

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	NPDES Limit	7/23/04		8/18/04		9/27/04	
		Influent	Effluent	Influent	Effluent	Influent	Effluent
TPH	5 ppm	1.2 mg/l	ND mg/l	ND mg/l	ND mg/l	ND mg/l	ND mg/l
Methyl Butyl Tert Ether	70 ppb	85,600 ug/l	ND ug/l	29,600 ug/l	ND ug/l	17,700 ug/l	ND ug/l
Benzene	5 ppb	1,330 ug/l	ND ug/l	946 ug/l	ND ug/l	1,130 ug/l	ND ug/l
Toluene	*	695 ug/l	ND ug/l	1,900 ug/l	ND ug/l	1,880 ug/l	ND ug/l
Ethylbenzene	*	269 ug/l	ND ug/l	160 ug/l	ND ug/l	301.0 ug/l	ND ug/l
Xylenes	*	2,990 ug/l	ND ug/l	2,940 ug/l	ND ug/l	540 ug/l	ND ug/l
Total BTEX	100 ppb	5,284 ug/l	ND ug/l	5,946 ug/l	ND ug/l	3,851.0 ug/l	ND ug/l

*No established limit

Technical Report for

Camp Dresser & McKee

Global Petroleum, Revere MA

20394-35913-OM.INP

Accutest Job Number: M40841

Sampling Dates: 07/22/04 - 07/23/04

Report to:

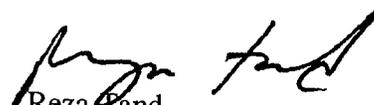
Camp Dresser & McKee
50 Hampshire Street
Cambridge, MA 02139

ATTN: James H. Winkler

Total number of pages in report: 14



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 Fard
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

Camp Dresser & McKee

Global Petroleum, Revere MA
 Project No: 20394-35913-OM.INP

Job No: M40841

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
M40841-1	07/23/04	11:55 TAN	07/26/04	AQ	Influent	INF-7234
M40841-2	07/23/04	12:05 TAN	07/26/04	AQ	Ground Water	CIN-7234
M40841-3	07/23/04	12:55 TAN	07/26/04	AQ	Ground Water	MID-1-7234
M40841-4	07/23/04	13:00 TAN	07/26/04	AQ	Ground Water	MID-2-7234
M40841-5	07/23/04	13:05 TAN	07/26/04	AQ	Effluent	EFF-7234
M40841-6	07/22/04	09:00 RS	07/26/04	AQ	Trip Blank Water	TB

Report of Analysis

Client Sample ID: INF-7234		
Lab Sample ID: M40841-1		
Matrix: AQ - Influent	Date Sampled: 07/23/04	
Method: EPA 602	Date Received: 07/26/04	
Project: Global Petroleum, Revere MA	Percent Solids: n/a	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MN28539.D	1	07/27/04	AP	n/a	n/a	GMN1177
Run #2	MN28593.D	250	07/29/04	AP	n/a	n/a	GMN1179

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	1330 ^a	250	ug/l	
108-88-3	Toluene	695 ^a	250	ug/l	
100-41-4	Ethylbenzene	269	1.0	ug/l	
1330-20-7	Xylenes (total)	2990 ^a	250	ug/l	
1634-04-4	Methyl Tert Butyl Ether	85600 ^a	250	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	95%	87%	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-7234		
Lab Sample ID: M40841-1		
Matrix: AQ - Influent	Date Sampled: 07/23/04	
	Date Received: 07/26/04	
	Percent Solids: n/a	
Project: Global Petroleum, Revere MA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Petroleum Hydrocarbons	1.2	0.61	mg/l	1	07/28/04	BF	EPA 418.1

RL = Reporting Limit

Report of Analysis

Client Sample ID: CIN-7234		
Lab Sample ID: M40841-2		Date Sampled: 07/23/04
Matrix: AQ - Ground Water		Date Received: 07/26/04
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	MN28538.D	1	07/27/04	AP	n/a	n/a	GMN1177
Run #2	MN28594.D	50	07/29/04	AP	n/a	n/a	GMN1179

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	1.6	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)	3.8	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	4610 ^a	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	85%	81%	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: CIN-7234		Date Sampled: 07/23/04
Lab Sample ID: M40841-2		Date Received: 07/26/04
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	07/28/04	BF	EPA 418.1

RL = Reporting Limit

Report of Analysis

Client Sample ID: MID-1-7234		Date Sampled: 07/23/04
Lab Sample ID: M40841-3		Date Received: 07/26/04
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	MN28537.D	1	07/27/04	AP	n/a	n/a	GMN1177
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	113	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	80%		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-1-7234	Date Sampled: 07/23/04
Lab Sample ID: M40841-3	Date Received: 07/26/04
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	07/28/04	BF	EPA 418.1

RL = Reporting Limit

Report of Analysis

Client Sample ID: MID-2-7234	Date Sampled: 07/23/04
Lab Sample ID: M40841-4	Date Received: 07/26/04
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	MN28536.D	1	07/27/04	AP	n/a	n/a	GMN1177
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	81%		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-2-7234	Date Sampled: 07/23/04
Lab Sample ID: M40841-4	Date Received: 07/26/04
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	07/28/04	BF	EPA 418.1

RL = Reporting Limit

Report of Analysis

Client Sample ID: EFF-7234	Date Sampled: 07/23/04
Lab Sample ID: M40841-5	Date Received: 07/26/04
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	MN28535.D	1	07/26/04	AP	n/a	n/a	GMN1177
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	81%		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-7234

Lab Sample ID: M40841-5

Matrix: AQ - Effluent

Project: Global Petroleum, Revere MA

Date Sampled: 07/23/04

Date Received: 07/26/04

Percent Solids: n/a

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Petroleum Hydrocarbons	<0.61	0.61	mg/l	1	07/28/04	BF	EPA 418.1

RL = Reporting Limit

Report of Analysis

Client Sample ID: TB	
Lab Sample ID: M40841-6	Date Sampled: 07/22/04
Matrix: AQ - Trip Blank Water	Date Received: 07/26/04
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	MN28534.D	1	07/26/04	AP	n/a	n/a	GMN1177
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	82%		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

CHAIN OF CUSTODY

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

ACCUTEST JOB #: M40841
ACCUTEST QUOTE #:

CLIENT INFORMATION		FACILITY INFORMATION				ANALYTICAL INFORMATION						MATRIX CODE
NAME <u>CDM</u> ADDRESS <u>50 HAMPSHIRE ST.</u> <u>CAMBRIDGE, MA</u> CITY, STATE ZIP <u>JIM WINKLER</u>		PROJECT NAME <u>GLOBAL PETROLEUM</u> LOCATION <u>140 LEE BURBANK HWY</u> <u>REVERE, MA</u> PROJECT NO. <u>20394-35913-01M-1NP</u> FAX #				<u>MTBE/TEX 602</u> <u>TPH 40.1</u>						DW - DRINKING WATER GW - GROUND WATER WW - WASTE WATER SO - SOIL SL - SLUDGE OI - OIL LIQ - OTHER LIQUID SOL - OTHER SOLID
SEND REPORT TO: PHONE # <u>617-452-6263</u>		COLLECTION										

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION			MATRIX	# OF BOTTLES	PRESERVATION					LAB USE ONLY	
		DATE	TIME	SAMPLED BY:			HCl	NI(OH)	HNO3	H2SO4	NONE		
-1	INF-7234	7-23-04	11:55	TAN	GW	4	X					X	X
-2	CIN-7234	}	12:05			4	X					X	X
-3	MID-1-7234		12:55			4	X					X	X
-4	MID-2-7234		13:00			4	X					X	X
-5	EFF-7234	7-23-04	13:05	TAN	GW	4	X					X	X
-6	TB	7-22-04	9:00	RS	GW	2	X					X	

DATA TURNAROUND INFORMATION	DATA DELIVERABLE INFORMATION	COMMENTS/REMARKS
<input checked="" type="checkbox"/> 14 DAYS STANDARD <input 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) _____	<u>Loc. 3DS, 4D</u>

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

RELINQUISHED BY: <u>7. C. McNamee</u> 1. <u>7-23-04</u>	RECEIVED BY: <u>[Signature]</u> 1. <u>7-23-04</u>	RELINQUISHED BY: <u>Frank DeBouch</u> 2. <u>7/26/04</u>	RECEIVED BY: <u>[Signature]</u> 2. <u>7/26/04</u>
RELINQUISHED BY: <u>[Signature]</u> 3. <u>7/26/04</u>	RECEIVED BY: <u>[Signature]</u> 3. <u>7/26/04</u>	RELINQUISHED BY: _____ 4. _____	RECEIVED BY: _____ 4. _____
RELINQUISHED BY: _____ 5. _____	RECEIVED BY: _____ 5. _____	SEAL # _____	PRESERVE WHERE APPLICABLE <input type="checkbox"/> ON ICE <input checked="" type="checkbox"/> TEMPERATURE <u>2.0</u> C