

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			10/14/04		11/22/04		12/20/04	
Parameter	NPDES	Limit	Influent	Effluent	Influent	Effluent	Influent	Effluent
TPH	5	ppm	0.88 mg/l	ND mg/l	1.6 mg/l	ND mg/l	2.8 mg/l	ND mg/l
Methyl Butyl Tert Ether	70	ppb	172,000 ug/l	ND ug/l	193,000 ug/l	2.0 ug/l	200,000 ug/l	72 ug/l
Benzene	5	ppb	2,770 ug/l	ND ug/l	2,180 ug/l	ND ug/l	2,800 ug/l	ND ug/l
Toluene	*		3,380 ug/l	ND ug/l	3,040 ug/l	ND ug/l	4,640 ug/l	ND ug/l
Ethylbenzene	*		343 ug/l	ND ug/l	551 ug/l	ND ug/l	568 ug/l	ND ug/l
Xylenes	*		3,840 ug/l	ND ug/l	3,390 ug/l	ND ug/l	5,120 ug/l	ND ug/l
Total BTEX	100	ppb	10,333 ug/l	ND ug/l	9,161 ug/l	ND ug/l	13,128 ug/l	ND ug/l

ND - Not detected



12/20/04

Technical Report for

Camp Dresser & McKee
Global Petroleum, Revere MA

Accutest Job Number: M43477

Sampling Date: 11/22/04

Report to:

Camp, Dresser & McKee

WinklerJH@cdm.com

ATTN: Jim Winkler

Total number of pages in report: 15



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

Camp Dresser & McKee

Job No: M43477

Global Petroleum, Revere MA

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
M43477-1	11/22/04	10:10 TAN	11/24/04	AQ	Influent	INF-112204
M43477-2	11/22/04	10:20 TAN	11/24/04	AQ	Ground Water	CIN-112204
M43477-3	11/22/04	10:30 TAN	11/24/04	AQ	Ground Water	MID-1-112204
M43477-4	11/22/04	10:35 TAN	11/24/04	AQ	Ground Water	MID-2-112204
M43477-5	11/22/04	10:40 TAN	11/24/04	AQ	Effluent	EFF-112204

Report of Analysis

Client Sample ID: INF-112204	Date Sampled: 11/22/04
Lab Sample ID: M43477-1	Date Received: 11/24/04
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	AB18419.D	1	12/01/04	AA	n/a	n/a	GAB932
Run #2	AB18426.D	500	12/01/04	AA	n/a	n/a	GAB932

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	2180 ^a	500	ug/l	
108-88-3	Toluene	3040 ^a	500	ug/l	
100-41-4	Ethylbenzene	551	1.0	ug/l	
1330-20-7	Xylenes (total)	3390 ^a	500	ug/l	
1634-04-4	Methyl Tert Butyl Ether	193000 ^a	500	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	83%	88%	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-112204	Date Sampled: 11/22/04
Lab Sample ID: M43477-1	Date Received: 11/24/04
Matrix: AQ - Influent	Percent Solids: n/a
Project: Global Petroleum, Revere MA	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Petroleum Hydrocarbons	1.6	0.61	mg/l	1	11/29/04	BF	EPA 418.1

RL = Reporting Limit

Report of Analysis

Client Sample ID: CIN-112204 Lab Sample ID: M43477-2 Matrix: AQ - Ground Water Method: EPA 602 Project: Global Petroleum, Revere MA	Date Sampled: 11/22/04 Date Received: 11/24/04 Percent Solids: n/a
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Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB18420.D	1	12/01/04	AA	n/a	n/a	GAB932
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	1.9	1.0	ug/l	
108-88-3	Toluene	1.4	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	3.4	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	961	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	91%		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-112204	Date Sampled:	11/22/04
Lab Sample ID:	M43477-2	Date Received:	11/24/04
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	11/29/04	BF	EPA 418.1

RL = Reporting Limit

Report of Analysis

Client Sample ID: MID-1-112204 Lab Sample ID: M43477-3 Matrix: AQ - Ground Water Method: EPA 602 Project: Global Petroleum, Revere MA	Date Sampled: 11/22/04 Date Received: 11/24/04 Percent Solids: n/a
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Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB18421.D	1	12/01/04	AA	n/a	n/a	GAB932
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	175	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-1-112204 Lab Sample ID: M43477-3 Matrix: AQ - Ground Water Project: Global Petroleum, Revere MA	Date Sampled: 11/22/04 Date Received: 11/24/04 Percent Solids: n/a
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General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Petroleum Hydrocarbons	< 0.61	0.61	mg/l	1	11/29/04	BF	EPA 418.1

RL = Reporting Limit

Report of Analysis

Client Sample ID: MID-2-112204 Lab Sample ID: M43477-4 Matrix: AQ - Ground Water Method: EPA 602 Project: Global Petroleum, Revere MA	Date Sampled: 11/22/04 Date Received: 11/24/04 Percent Solids: n/a
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Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB18422.D	1	12/01/04	AA	n/a	n/a	GAB932
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	3.1	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-2-112204	Date Sampled: 11/22/04
Lab Sample ID: M43477-4	Date Received: 11/24/04
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	11/29/04	BF	EPA 418.1

RL = Reporting Limit

Report of Analysis

Client Sample ID: EFF-112204 Lab Sample ID: M43477-5 Matrix: AQ - Effluent Method: EPA 602 Project: Global Petroleum, Revere MA	Date Sampled: 11/22/04 Date Received: 11/24/04 Percent Solids: n/a
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Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB18423.D	1	12/01/04	AA	n/a	n/a	GAB932
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	2.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	85%		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-112204	Date Sampled:	11/22/04
Lab Sample ID:	M43477-5	Date Received:	11/24/04
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	11/29/04	BF	EPA 418.1

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

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

ACCUTEST JOB #: M43477
ACCUTEST QUOTE #:

CLIENT INFORMATION		FACILITY INFORMATION				ANALYTICAL INFORMATION				MATRIX CODES																																																																	
NAME: <u>CDM</u> <u>50 HAMPSHIRE ST</u> ADDRESS: <u>CAMBRIDGE, MA</u> CITY: <u>CAMBRIDGE, MA</u> STATE: _____ ZIP: _____ SEND REPORT TO: <u>VIM WINKLER</u> PHONE #: <u>617-452-6263</u>		PROJECT NAME: <u>GLOBAL</u> LOCATION: <u>120 LIFE BURBANK HSHY</u> <u>REVERE, MA</u> PROJECT NO: <u>20394-36A13-DM.INP</u> FAX #: _____				DW - DRINKING WATER GW - GROUND WATER WW - WASTE WATER SO - SOIL SL - SLUDGE OI - OIL LIQ - OTHER LIQUID SOL - OTHER SOLID				LAB USE ONLY																																																																	
ACCUTEST SAMPLE # _____ FIELD ID / POINT OF COLLECTION _____		COLLECTION DATE TIME SAMPLED BY: MATRIX # OF BOTTLES PRESERVATION																																																																									
		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>DATE</th> <th>TIME</th> <th>SAMPLED BY:</th> <th>MATRIX</th> <th># OF BOTTLES</th> <th>NO.</th> <th>NO.</th> <th>NO.</th> <th>NO.</th> <th>NO.</th> <th>NO.</th> </tr> </thead> <tbody> <tr> <td>-1</td> <td>11-22-04</td> <td>10:10</td> <td>TAN</td> <td>GLD</td> <td>4</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>-2</td> <td>11-22-04</td> <td>10:20</td> <td></td> <td></td> <td>4</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>-3</td> <td>11-22-04</td> <td>10:30</td> <td></td> <td></td> <td>4</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>-4</td> <td>11-22-04</td> <td>10:35</td> <td></td> <td></td> <td>4</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>-5</td> <td>11-22-04</td> <td>10:40</td> <td>TAN</td> <td>GLD</td> <td>4</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				DATE	TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	NO.	NO.	NO.	NO.	NO.	NO.	-1	11-22-04	10:10	TAN	GLD	4	X					-2	11-22-04	10:20			4	X					-3	11-22-04	10:30			4	X					-4	11-22-04	10:35			4	X					-5	11-22-04	10:40	TAN	GLD	4	X					BUREAU # <u>602</u> <u>TPH 418.1</u>			
DATE	TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	NO.	NO.	NO.	NO.	NO.	NO.																																																																	
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-4	11-22-04	10:35			4	X																																																																					
-5	11-22-04	10:40	TAN	GLD	4	X																																																																					
DATA TURNAROUND INFORMATION <input checked="" type="checkbox"/> 14 DAYS STANDARD APPROVED BY: _____ <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		DATA DELIVERABLE INFORMATION <input type="checkbox"/> STANDARD <input type="checkbox"/> COMMERCIAL "B" <input type="checkbox"/> DISK DELIVERABLE <input type="checkbox"/> STATE FORMS <input type="checkbox"/> OTHER (SPECIFY) _____				COMMENTS/REMARKS <u>MID-PRESUMPTIVE CERTAINTY</u> <u>Loc. 1A6, 4A</u>																																																																					
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY																																																																											
RELINQUISHED BY: <u>1. T. Callahan</u>	DATE TIME: <u>11-22-04 12:00</u>	RECEIVED BY: <u>1. Brian M. Sweeney 1240</u>	DATE TIME: <u>11-24-04</u>	RELINQUISHED BY: <u>2. Brian M. Sweeney</u>	DATE TIME: <u>11/24/04 1600</u>	RECEIVED BY: <u>2. Brian M. Sweeney</u>																																																																					
RELINQUISHED BY: _____	DATE TIME: _____	RECEIVED BY: _____	DATE TIME: _____	RELINQUISHED BY: _____	DATE TIME: _____	RECEIVED BY: _____																																																																					
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				SEAL # _____	PRESERVE WHERE APPLICABLE <input type="checkbox"/>	ON ICE <input type="checkbox"/>	TEMPERATURE <u>2.6 C</u>																																																																				

3.1
3