

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



11/04/04

Technical Report for

Camp Dresser & McKee

Global Petroleum, Revere MA

Accutest Job Number: M42578

Sampling Dates: 10/14/04 - 10/15/04

Report to:

Camp, Dresser & McKee

WinklerJH@cdm.com

ATTN: Jim Winkler

Total number of pages in report: 16



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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Table of Contents

Sections:



-1-

Section 1: Sample Summary	3
Section 2: Sample Results	4
2.1: M42578-1: INF-101504	4
2.2: M42578-2: CIN-101504	6
2.3: M42578-3: MID-1-101504	8
2.4: M42578-4: MID-2-101504	10
2.5: M42578-5: EFF-101504	12
2.6: M42578-6: TB	14
Section 3: Misc. Forms	15
3.1: Chain of Custody	16



Sample Summary

Camp Dresser & McKee

Job No: M42578

Global Petroleum, Revere MA

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
M42578-1	10/15/04	10:50 TAN	10/20/04	AQ	Influent	INF-101504
M42578-2	10/15/04	11:10 TAN	10/20/04	AQ	Ground Water	CIN-101504
M42578-3	10/15/04	12:05 TAN	10/20/04	AQ	Ground Water	MID-1-101504
M42578-4	10/15/04	12:15 TAN	10/20/04	AQ	Ground Water	MID-2-101504
M42578-5	10/15/04	12:25 TAN	10/20/04	AQ	Effluent	EFF-101504
M42578-6	10/14/04	08:30 TAN	10/20/04	AQ	Trip Blank Water	TB

Report of Analysis

Client Sample ID: INF-101504	
Lab Sample ID: M42578-1	Date Sampled: 10/15/04
Matrix: AQ - Influent	Date Received: 10/20/04
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	AB17588.D	1	10/23/04	AF	n/a	n/a	GAB888
Run #2	AB17602.D	200	10/25/04	AF	n/a	n/a	GAB889
Run #3	AB17662.D	1000	10/27/04	AF	n/a	n/a	GAB892

Run #	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml
Run #3	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	2770 ^a	200	ug/l	
108-88-3	Toluene	3380 ^a	200	ug/l	
100-41-4	Ethylbenzene	343	1.0	ug/l	
1330-20-7	Xylenes (total)	3840 ^a	200	ug/l	
1634-04-4	Methyl Tert Butyl Ether	172000 ^b	1000	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
	2,3,4-Trifluorotoluene	69%	74%	70%	61-124%

- (a) Result is from Run# 2
- (b) Result is from Run# 3

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-101504	Date Sampled: 10/15/04
Lab Sample ID: M42578-1	Date Received: 10/20/04
Matrix: AQ - Influent	Percent Solids: n/a
Project: Global Petroleum, Revere MA	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Petroleum Hydrocarbons	0.88	0.62	mg/l	1	10/20/04	BF	EPA 418.1

RL = Reporting Limit

Report of Analysis

Client Sample ID: CIN-101504 Lab Sample ID: M42578-2 Matrix: AQ - Ground Water Method: EPA 602 Project: Global Petroleum, Revere MA	Date Sampled: 10/15/04 Date Received: 10/20/04 Percent Solids: n/a
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Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB17589.D	1	10/23/04	AF	n/a	n/a	GAB888
Run #2	AB17603.D	5	10/25/04	AF	n/a	n/a	GAB889

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	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)	2.3	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1160 ^a	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	68%	72%	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-101504	Date Sampled:	10/15/04
Lab Sample ID:	M42578-2	Date Received:	10/20/04
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	< 0.62	0.62	mg/l	1	10/20/04	BF	EPA 418.1

RL = Reporting Limit

Report of Analysis

Client Sample ID: MID-1-101504 Lab Sample ID: M42578-3 Matrix: AQ - Ground Water Method: EPA 602 Project: Global Petroleum, Revere MA	Date Sampled: 10/15/04 Date Received: 10/20/04 Percent Solids: n/a
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Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB17590.D	1	10/23/04	AF	n/a	n/a	GAB888
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	7.9	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	66%		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-1-101504	Date Sampled: 10/15/04
Lab Sample ID: M42578-3	Date Received: 10/20/04
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	10/20/04	BF	EPA 418.1

RL = Reporting Limit

Report of Analysis

Client Sample ID: MID-2-101504	Date Sampled: 10/15/04
Lab Sample ID: M42578-4	Date Received: 10/20/04
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	AB17591.D	1	10/23/04	AF	n/a	n/a	GAB888
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	65%		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-2-101504	Date Sampled: 10/15/04
Lab Sample ID: M42578-4	Date Received: 10/20/04
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	< 0.63	0.63	mg/l	1	10/20/04	BF	EPA 418.1

RL = Reporting Limit

Report of Analysis

2.5
2

Client Sample ID: EFF-101504	
Lab Sample ID: M42578-5	Date Sampled: 10/15/04
Matrix: AQ - Effluent	Date Received: 10/20/04
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	AB17592.D	1	10/23/04	AF	n/a	n/a	GAB888
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	65%		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-101504	Date Sampled: 10/15/04
Lab Sample ID: M42578-5	Date Received: 10/20/04
Matrix: AQ - Effluent	Percent Solids: n/a
Project: Global Petroleum, Revere MA	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Petroleum Hydrocarbons	< 0.63	0.63	mg/l	1	10/20/04	BF	EPA 418.1

RL = Reporting Limit

Report of Analysis

Client Sample ID: TB Lab Sample ID: M42578-6 Matrix: AQ - Trip Blank Water Method: EPA 602 Project: Global Petroleum, Revere MA	Date Sampled: 10/14/04 Date Received: 10/20/04 Percent Solids: n/a
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Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB17593.D	1	10/23/04	AF	n/a	n/a	GAB888
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	64%		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



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

495 TECHNOLOGY CENTER WEST • BUILDING ONE
MARLBOROUGH, MA 01752
TEL: 508-481-8200 • FAX: 508-481-7753

ACCUTEST JOB #: M42578

ACCUTEST QUOTE #:

CLIENT INFORMATION			FACILITY INFORMATION				ANALYTICAL INFORMATION				MATRIX CODES
NAME <u>CDM</u> ADDRESS <u>50 HAMPSHIRE ST</u> <u>CAMBRIDGE MA</u> CITY, STATE, ZIP <u>JIM WINKLER</u> SEND REPORT TO: <u>617-452-6263</u> PHONE #			PROJECT NAME <u>GLOBAL PETROUQUUM</u> LOCATION <u>140 LEE BURBANK HWY</u> <u>RELIERE, MA</u> PROJECT NO. <u>20394-85913-01.MIP</u> FAX #				202 1 2 4 1 1 1 1 1 1 1 1 1				DW - DRINKING WATER GW - GROUND WATER WW - WASTE WATER SO - SOIL SL - SLUDGE OL - OIL LIQ - OTHER LIQUID SOL - OTHER SOLID
ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION		SAMPLED BY:	MATRIX	PRESERVATION				LAB USE ONLY	
		DATE	TIME			NO	REF	HEAT	FREEZE		
M42578-1	<u>INF-101504</u>	<u>10-15-04</u>	<u>10:50</u>	<u>TAN GW</u>		<input checked="" type="checkbox"/>				<u>X</u> <u>X</u>	
-2	<u>INF-101504</u>	<u>10-15-04</u>	<u>11:10</u>			<input checked="" type="checkbox"/>				<u>X</u> <u>X</u>	
-3	<u>MID-1-101504</u>	<u>10-15-04</u>	<u>12:15</u>			<input checked="" type="checkbox"/>				<u>X</u> <u>X</u>	
-4	<u>MID-2-101504</u>	<u>10-15-04</u>	<u>12:15</u>			<input checked="" type="checkbox"/>				<u>X</u> <u>X</u>	
-5	<u>EFF-101504</u>	<u>10-15-04</u>	<u>12:25</u>	<u>TAN GW</u>		<input checked="" type="checkbox"/>				<u>X</u> <u>X</u>	
-6	<u>TR</u>	<u>11-14-04</u>	<u>8:30</u>	<u>R 560</u>		<input checked="" type="checkbox"/>				<u>X</u>	

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>MCA PRESUMPTIVE CERTAINTY</u> <u>Loc. 4C, 1B7</u>
APPROVED BY: _____		

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY							
RELINQUISHED BY SAMPLER: 1. <u>L. G. [Signature]</u>	DATE TIME: <u>10-15-04 15:20</u>	RECEIVED BY: 1. <u>[Signature]</u>	RELINQUISHED BY: 2. <u>[Signature]</u>	DATE TIME: <u>10/19/04 15:40</u>	RECEIVED BY: 2. <u>[Signature]</u>	RELINQUISHED BY: 3. <u>[Signature]</u>	DATE TIME: <u>10/19/04 17:20</u>
RELINQUISHED BY: 3. <u>[Signature]</u>	DATE TIME: <u>10/19/04</u>	RECEIVED BY: 3. <u>[Signature]</u>	RELINQUISHED BY: 4. _____	DATE TIME: _____	RECEIVED BY: 4. _____	SEAL # _____	PRESERVE WHERE APPLICABLE <input type="checkbox"/> ON ICE <input checked="" type="checkbox"/> TEMPERATURE <u>2.7 C</u>

3.1
3