

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	Jan-04		Feb-03		Mar-03	
			Influent	Effluent	Influent	Effluent	Influent	Effluent
	TPH	5 ppm	Note 1 mg/l	Note 1 mg/l	2.1 mg/l	ND mg/l	2.3 mg/l	ND mg/l
	Methyl Butyl Tert Ether	70 ppb	Note 1 ug/l	Note 1 ug/l	46,400 ug/l	1.7 ug/l	77,300 ug/l	ND ug/l
	Benzene	5 ppb	Note 1 ug/l	Note 1 ug/l	2,300 ug/l	ND ug/l	2,130 ug/l	ND ug/l
	Toluene	*	Note 1 ug/l	Note 1 ug/l	8,990 ug/l	ND ug/l	3,660 ug/l	ND ug/l
	Ethylbenzene	*	Note 1 ug/l	Note 1 ug/l	868 ug/l	ND ug/l	474 ug/l	ND ug/l
	Xylenes	*	Note 1 ug/l	Note 1 ug/l	8,970 ug/l	ND ug/l	4,690 ug/l	ND ug/l
	Total BTEX	100 ppb	Note 1 ug/l	Note 1 ug/l	21,128 ug/l	ND ug/l	10,954 ug/l	ND ug/l

ND - Not detected

Note 1 - System down. No sample collected.



New England

03/31/04

Technical Report for

Camp Dresser & McKee

Global Petroleum, Revere MA

Accutest Job Number: M38294

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 Pand
Reza Pand
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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Table of Contents

Sections:



-1-

Section 1: Sample Summary	3
Section 2: Sample Results	4
2.1: M38294-1: INF-31504	4
2.2: M38294-2: CIN-31504	6
2.3: M38294-3: MID-1-31504	8
2.4: M38294-4: MID-2-31504	10
2.5: M38294-5: EFF-31504	12
Section 3: Misc. Forms	14
3.1: Chain of Custody	15

Sample Summary

Camp Dresser & McKee

Job No: M38294

Global Petroleum, Revere MA

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
M38294-1	03/15/04	10:55	TAN	03/18/04	AQ Influent	INF-31504
M38294-2	03/15/04	11:00	TAN	03/18/04	AQ Ground Water	CIN-31504
M38294-3	03/15/04	11:05	TAN	03/18/04	AQ Ground Water	MID-1-31504
M38294-4	03/15/04	11:10	TAN	03/18/04	AQ Ground Water	MID-2-31504
M38294-5	03/15/04	11:15	TAN	03/18/04	AQ Effluent	EFF-31504

Report of Analysis

Client Sample ID: INF-31504 Lab Sample ID: M38294-1 Matrix: AQ - Influent Method: EPA 602 Project: Global Petroleum, Revere MA	Date Sampled: 03/15/04 Date Received: 03/18/04 Percent Solids: n/a
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Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MN26141.D	100	03/29/04	AP	n/a	n/a	GMN1006
Run #2	MN26148.D	250	03/29/04	AP	n/a	n/a	GMN1006

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	2130	100	ug/l	
108-88-3	Toluene	3660	100	ug/l	
100-41-4	Ethylbenzene	474	100	ug/l	
1330-20-7	Xylenes (total)	4690	100	ug/l	
1634-04-4	Methyl Tert Butyl Ether	77300 ^a	250	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	77%	76%	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-31504	Date Sampled: 03/15/04
Lab Sample ID: M38294-1	Date Received: 03/18/04
Matrix: AQ - Influent	Percent Solids: n/a
Project: Global Petroleum, Revere MA	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Petroleum Hydrocarbons	2.3	0.61	mg/l	1	03/22/04	BF	EPA 418.1

RL = Reporting Limit

Report of Analysis

Client Sample ID: CIN-31504	Date Sampled: 03/15/04
Lab Sample ID: M38294-2	Date Received: 03/18/04
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	MN26142.D	1	03/29/04	AP	n/a	n/a	GMN1006
Run #2	MN26145.D	50	03/29/04	AP	n/a	n/a	GMN1006

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	2.0	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	7.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	6130 ^a	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	79%	73%	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-31504	Date Sampled: 03/15/04
Lab Sample ID: M38294-2	Date Received: 03/18/04
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	03/22/04	BF	EPA 418.1

RL = Reporting Limit

Report of Analysis

Client Sample ID: MID-1-31504	Date Sampled: 03/15/04
Lab Sample ID: M38294-3	Date Received: 03/18/04
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	MN26143.D	1	03/29/04	AP	n/a	n/a	GMN1006
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	37.8	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	73%		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-1-31504	Date Sampled: 03/15/04
Lab Sample ID: M38294-3	Date Received: 03/18/04
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	03/22/04	BF	EPA 418.1

RL = Reporting Limit

Report of Analysis

Client Sample ID: MID-2-31504	Date Sampled: 03/15/04
Lab Sample ID: M38294-4	Date Received: 03/18/04
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	MN26146.D	1	03/29/04	AP	n/a	n/a	GMN1006
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	76%		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-2-31504	Date Sampled: 03/15/04
Lab Sample ID: M38294-4	Date Received: 03/18/04
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	03/22/04	BF	EPA 418.1

RL = Reporting Limit

Report of Analysis

Client Sample ID:	EFF-31504	Date Sampled:	03/15/04
Lab Sample ID:	M38294-5	Date Received:	03/18/04
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	MN26147.D	1	03/29/04	AP	n/a	n/a	GMN1006
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	74%		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-31504	Date Sampled: 03/15/04
Lab Sample ID: M38294-5	Date Received: 03/18/04
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	03/22/04	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

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

ACCUTEST JOB #: **M38294**

ACCUTEST QUOTE #:

CLIENT INFORMATION		FACILITY INFORMATION				ANALYTICAL INFORMATION						MATRIX CODES						
NAME: COM ADDRESS: 50 HAMPSHIRE ST CAMBRIDGE, MA CITY, STATE, ZIP: JIM WINKLER SEND REPORT TO: (617) 452-6263 PHONE #		PROJECT NAME: GLOBAL LOCATION: 140 LIFE BLVD BANK HWY REVERIE, MA PROJECT NO: 20394-35913-04.MIP FAX #				DW - DRINKING WATER GW - GROUND WATER WW - WASTE WATER SO - SOIL SL - SLUDGE OI - OIL LIQ - OTHER LIQUID SOL - OTHER SOLID												
ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION			MATRIX	# OF BOTTLES	PRESERVATION						LAB USE ONLY					
		DATE	TIME	SAMPLED BY:			HC	MSD	MSD	MSD	MSD	MSD		MSD				
038294-1	INF-31504	3-15-04	10:55	TAN	GW	4	X											
-2	LN-31504		11:00			4	X											
-3	MID-1-31504		11:05			4	X											
-4	MID-2-31504		11:10			4	X											
-5	EFF-31504	3-15-04	11:15	TAN	GW	4	X											
													loc: 4D, 205					
DATA TURNAROUND INFORMATION				DATA DELIVERABLE INFORMATION				COMMENTS/REMARKS										
<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				<input type="checkbox"/> STANDARD <input type="checkbox"/> COMMERCIAL "B" <input type="checkbox"/> DISK DELIVERABLE <input type="checkbox"/> STATE FORMS <input type="checkbox"/> OTHER (SPECIFY) _____				MCP - PRESUMPTIVE CERTAINTY REQUIRED										
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY																		
RELINQUISHED BY SAMPLER:		DATE TIME:		RECEIVED BY:		RELINQUISHED BY:		DATE TIME:		RECEIVED BY:								
1. J. NAWAN		3/16/04 7:10		1. Jack Wilson		2. Jack Wilson		3/18/04 11:14		2. [Signature]								
RELINQUISHED BY:		DATE TIME:		RECEIVED BY:		RELINQUISHED BY:		DATE TIME:		RECEIVED BY:								
3. [Signature]		3/18/04 15:00		3. [Signature]		4. [Signature]				4. [Signature]								
RELINQUISHED BY:		DATE TIME:		RECEIVED BY:		SEAL #		PRESERVE WHERE APPLICABLE		ON ICE		TEMPERATURE						
5. [Signature]				5. [Signature]				<input type="checkbox"/>		<input type="checkbox"/>		2.0 C						

3.1
3

M38294: Chain of Custody
Page 1 of 1