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

New England
ACCUTEST
Laboratories

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**

ACCREDITED IN ACCORDANCE WITH nelac

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
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	Matrix 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

Accutest Laboratories

Report of Analysis

Client Sample ID:	INF-112204		
Lab Sample ID:	M43477-1	Date Sampled:	11/22/04
Matrix:	AQ - Influent	Date Received:	11/24/04
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	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

	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

Accutest Laboratories

Report of Analysis

Client Sample ID:	INF-112204		
Lab Sample ID:	M43477-1	Date Sampled:	11/22/04
Matrix:	AQ - Influent	Date Received:	11/24/04
		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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CIN-112204		
Lab Sample ID:	M43477-2	Date Sampled:	11/22/04
Matrix:	AQ - Ground Water	Date Received:	11/24/04
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	AB18420.D	1	12/01/04	AA	n/a	n/a	GAB932
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	1.9	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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CIN-112204		
Lab Sample ID:	M43477-2	Date Sampled:	11/22/04
Matrix:	AQ - Ground Water	Date Received:	11/24/04
		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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MID-1-112204		
Lab Sample ID:	M43477-3	Date Sampled:	11/22/04
Matrix:	AQ - Ground Water	Date Received:	11/24/04
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	AB18421.D	1	12/01/04	AA	n/a	n/a	GAB932
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	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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MID-1-112204		
Lab Sample ID:	M43477-3	Date Sampled:	11/22/04
Matrix:	AQ - Ground Water	Date Received:	11/24/04
		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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MID-2-112204		
Lab Sample ID:	M43477-4	Date Sampled:	11/22/04
Matrix:	AQ - Ground Water	Date Received:	11/24/04
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	AB18422.D	1	12/01/04	AA	n/a	n/a	GAB932
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	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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MID-2-112204		
Lab Sample ID:	M43477-4	Date Sampled:	11/22/04
Matrix:	AQ - Ground Water	Date Received:	11/24/04
		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

Accutest Laboratories

Report of Analysis

Client Sample ID:	EFF-112204		
Lab Sample ID:	M43477-5	Date Sampled:	11/22/04
Matrix:	AQ - Effluent	Date Received:	11/24/04
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	AB18423.D	1	12/01/04	AA	n/a	n/a	GAB932
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	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

Accutest Laboratories

Report of Analysis

Client Sample ID:	EFF-112204		
Lab Sample ID:	M43477-5	Date Sampled:	11/22/04
Matrix:	AQ - Effluent	Date Received:	11/24/04
		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

ACCUTEST Laboratories

CHAIN OF CUSTODY

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

ACCUTEST JOB #: M43477
ACCUTEST QUOTE #:

CLIENT INFORMATION

NAME: CDM
ADDRESS: 50 HAMPSHIRE ST
CITY, STATE, ZIP: CAMBRIDGE, MA
SEND REPORT TO: JIM WINKLER
PHONE #: 617-452-6263

FACILITY INFORMATION

PROJECT NAME: GLOBAL
LOCATION: 140 LEE BURBANK HGHY REVERE, MA
PROJECT NO.: 20394-35913-OM.INP
FAX #:

ANALYTICAL INFORMATION

MATRIX CODES

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 DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	PRESERVATION NaOH	PRESERVATION HNO3	PRESERVATION H2SO4	PRESERVATION NONE	BTEX/MTBE 602	TPH 418.1	LAB USE ONLY
-1	INF-112204	11-22-4	10:10	TAN	GW	4	X					X	X	
-2	CIN-112204		10:20			4	X					X	X	
-3	MID-1-112204		10:30			4	X					X	X	
-4	MID-2-112204		10:35			4	X					X	X	
-5	EFF-112204	11-22-4	10:40	TAN	GW	4	X					X	X	

DATA TURNAROUND INFORMATION

- [x] 14 DAYS STANDARD
- [ ] 7 DAYS *RUSH*
- [ ] 48 HOUR EMERGENCY
- [ ] OTHER

APPROVED BY:

14 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [ ] STANDARD
- [ ] COMMERCIAL "B"
- [ ] DISK DELIVERABLE
- [ ] STATE FORMS
- [ ] OTHER (SPECIFY)

COMMENTS/REMARKS

MCP-PRESUMPTIVE CERTAINTY

Loc. 1A6, 4A

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

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. T. A. Nelson	11-22-4 12:00	1. Ryan M. Sweeney 11-24-04 1240	2. Ryan M. Sweeney	11/24/04 1600	2. Ryan M. Sweeney
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☑ TEMPERATURE 2.6 C

M43477: Chain of Custody
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