

**Remediation General Permit
Notice of Intent**

**Global Revco Terminal, LLC.
Revere, Massachusetts**

Prepared For:

**Global Revco Terminal, LLC
Revere, Massachusetts**

Tighe & Bond

March 2007

LETTER OF TRANSMITTAL

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Global Revco Terminal, LLC (Global) is proposing to install a remediation system for contaminated stormwater contained within the containment areas of Tanks 11 and 13 at 101 Lee Burbank Highway in Revere, Massachusetts.

1.1 BACKGROUND

Global is currently authorized to discharge treated stormwater from its facility from Outfalls 001 and 005 under NPDES Permit No. MA0003298, which was issued on January 21, 1998 and renewed on June 30, 2005. A copy of this permit is included in Appendix E. Revco is a bulk petroleum facility with operations consisting of receipt, storage, and distribution of petroleum products. The facility is located on the east shore of the Chelsea River in Revere, MA. The parcel of Revco's land located on the west side of the highway is addressed as 186/186A Lee Burbank Highway and the parcels located in the east side of the highway are addressed as 101/201 Lee Burbank Highway.

For the proposed remediation system, the contaminated stormwater from the containment areas of Tanks 11 and 13 will be pumped through a series of bag filters to remove coarse solids, and through a granulated activated carbon (GAC) filter to removed oils. The treated stormwater will then be discharged to the containment area of Tank 17. From this point, the treated stormwater will discharge to the facility's existing tank farm stormwater treatment system, prior to the oil and water separator (OWS), and will flow through Outfall 005 to the Sales Creek.

**SECTION 2 SUGGESTED FORM FOR NOTICE OF
INTENT (NOI)**

Tighe&Bond

F:\PROJECTS\WW-3300 TO W-3399\W-3322 GLOBAL TANKS\REMEDIAL GENERAL PERMIT\RGP.DOC

B. Suggested Form for Notice of Intent (NOI) for the Remediation General Permit

1. General site information. Please provide the following information about the site:

a) Name of facility/site : GLOBAL REVCO TERMINAL, LLC.		Facility/site address : 101 LEE BURBANK HIGHWAY	
Location of facility/site : longitude: <u>42.39</u> latitude: <u>71.00</u>	Facility SIC code(s): 5171	Street: 140 LEE BURBANK HIGHWAY	
b) Name of facility/site owner : GLOVAL REVCO TERMINAL, LLC		Town: REVERE	
Email address of owner:		State: MA	Zip: 02151
Telephone no. of facility/site owner : (617) 660-1117		County: SUFFOLK	
Fax no. of facility/site owner : (617) 660-1140		Owner is (check one): 1. Federal____ 2. State/Tribal____	
Address of owner (if different from site):		3. Private <input checked="" type="checkbox"/> 4. other, if so, describe:	
Street:			
Town:	State:	Zip:	County:
c) Legal name of operator : ASHWIN PATEL		Operator telephone no : (617) 660-1117	
		Operator fax no.: (617) 660-1140	Operator email: APATEL@GLOBALP.COM
Operator contact name and title : COMPLIANCE OFFICER / MANAGER			

Address of operator (if different from owner):	Street: 11 BROADWAY		
Town: CHELSEA	State: MA	Zip: 02150	County: SUFFOLK
d) Check "yes" or "no" for the following: 1. Has a prior NPDES permit exclusion been granted for the discharge? Yes___ No <input checked="" type="checkbox"/> , if "yes," number: 2. Has a prior NPDES application (Form 1 & 2C) ever been filed for the discharge? Yes___ No <input checked="" type="checkbox"/> , if "yes," date and tracking #: 3. Is the discharge a "new discharge" as defined by 40 CFR 122.2? Yes <input checked="" type="checkbox"/> No___ 4. For sites in Massachusetts, is the discharge covered under the MA Contingency Plan (MCP) and exempt from state permitting? Yes <input checked="" type="checkbox"/> No___			
e) Is site/facility subject to any State permitting or other action which is causing the generation of discharge? Yes___ No <input checked="" type="checkbox"/> If "yes," please list: 1. site identification # assigned by the state of NH or MA: 2. permit or license # assigned: 3. state agency contact information: name, location, and telephone number:	f) Is the site/facility covered by any other EPA permit, including: 1. multi-sector storm water general permit? Y___ N <input checked="" type="checkbox"/> , if Y, number: 2. phase I or II construction storm water general permit? Y___ N <input checked="" type="checkbox"/> , if Y, number: 3. individual NPDES permit? Y <input checked="" type="checkbox"/> N___, if Y, number: MA0003298 4. any other water quality related permit? Y___ N <input checked="" type="checkbox"/> , if Y, number:		

2. Discharge information. Please provide information about the discharge, (attaching additional sheets as needed) including:

a) Describe the discharge activities for which the owner/applicant is seeking coverage: STORMWATER THAT WAS IN CONTACT WITH A #2 FUEL OIL SPILL, WILL BE PUMPED THROUGH BAG FILTERS FOR SOLIDS REMOVAL, AND THROUGH A GAC FILTER FOR OIL REMOVAL. THE TREATED STORMWATER WILL THEN BE DISCHARGED TO THE CONTAINMENT AREA OF TANK 17. FROM THIS POINT, THE TREATED STORMWATER WILL DISCHARGE TO THE FACILITY'S EXISTING TANK FARM STORMWATER TREATMENT SYSTEM, PRIOR TO THE OWS, AND WILL FLOW THROUGH OUTFALL 005 TO SALES CREEK.		
b) Provide the following information about each discharge:	1) Number of discharge points: 1	2) What is the maximum and average flow rate of discharge (in cubic feet per second, ft ³ /s)? Max. flow <u>0.66</u> Average flow <u>0.66</u> Is maximum flow a design value ? Y <input checked="" type="checkbox"/> N___ For average flow, include the units and appropriate notation if this value is a design value or estimate if not available.
3) Latitude and longitude of each discharge within 100 feet: pt.1: long. <u>71.00</u> lat. <u>42.39</u> ; pt.2: long. _____ lat. _____ ; pt.3: long. _____ lat. _____ ; pt.4: long. _____ lat. _____ ; pt.5: long. _____ lat. _____ ; pt.6: long. _____ lat. _____ ; pt.7: long. _____ lat. _____ ; pt.8: long. _____ lat. _____ ; etc.		

4) If hydrostatic testing, total volume of the discharge (gals): N/A	5) Is the discharge intermittent <input checked="" type="checkbox"/> or seasonal <input type="checkbox"/> ? Is discharge ongoing Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> ?
c) Expected dates of discharge (mm/dd/yy): start <u>04/19/07</u> end <u>06/07/07</u>	
d) Please attach a line drawing or flow schematic showing water flow through the facility including: 1. sources of intake water, 2. contributing flow from the operation, 3. treatment units, and 4. discharge points and receiving waters(s).	

3. Contaminant information. In order to complete this section, the applicant will need to take a minimum of one sample of the untreated water and have it analyzed for all of the parameters listed in Appendix III. Historical data, (i.e., data taken no more than 2 years prior to the effective date of the permit) may be used if obtained pursuant to: i. Massachusetts' regulations 310 CMR 40.0000, the Massachusetts Contingency Plan ("Chapter 21E"); ii. New Hampshire's Title 50 RSA 485-A: Water Pollution and Waste Disposal or Title 50 RSA 485-C: Groundwater Protection Act; or iii. an EPA permit exclusion letter issued pursuant to 40 CFR 122.3, provided the data was analyzed with test methods that meet the requirements of this permit. Otherwise, a new sample shall be taken and analyzed.

a) Based on the analysis of the sample(s) of the untreated influent, the applicant must check the box of the sub-categories that the potential discharge falls within.

Gasoline Only	VOC Only	Primarily Metals	Urban Fill Sites	Contaminated Sumps	Mixed Contaminants	Aquifer Testing
Fuel Oils (and Other Oils) only	VOC with Other Contaminants	Petroleum with Other Contaminants	Listed Contaminated Sites	Contaminated Dredge Condensates	Hydrostatic Testing of Pipelines/Tanks	Well Development or Rehabilitation

b) Based on the analysis of the untreated influent, the applicant must indicate whether each listed chemical is **believed present** or **believed absent** in the potential discharge. Attach additional sheets as needed.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
1. Total Suspended Solids		✓	4	GRAB	160.2	4000	11000		9250	
2. Total Residual Chlorine	✓		4	GRAB	8167	162	ND		ND	
3. Total Petroleum Hydrocarbons		✓	4	GRAB	8100	215	1070		820	
4. Cyanide	✓		4	GRAB	E335	16	ND		ND	
5. Benzene	✓		4	GRAB	8260B	5	ND		ND	
6. Toluene	✓		4	GRAB	8260B	5	ND		ND	
7. Ethylbenzene	✓		4	GRAB	8260B	5	ND		ND	
8. (m,p,o) Xylenes	✓		4	GRAB	8260B	5	ND		ND	
9. Total BTEX ⁴	✓		4	GRAB	8260B	5	ND		ND	

⁴BTEX = Sum of Benzene, Toluene, Ethylbenzene, total Xylenes.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
10. Ethylene Dibromide (1,2- Dibromo-methane)	✓		4	GRAB	8260B	2	ND		ND	
11. Methyl-tert-Butyl Ether (MtBE)	✓		4	GRAB	8260B	5	ND		ND	
12. tert-Butyl Alcohol (TBA)			4	GRAB	8260B					
13. tert-Amyl Methyl Ether (TAME)			4	GRAB	8260B					
14. Naphthalene		✓	4	GRAB	8260B	2.08	9.59		6.005	
15. Carbon Tetra-chloride	✓		4	GRAB	8260B	2	ND		ND	
16. 1,4 Dichlorobenzene	✓		4	GRAB	8260B	2.08	ND		ND	
17. 1,2 Dichlorobenzene	✓		4	GRAB	8260B	5	ND		ND	
18. 1,3 Dichlorobenzene	✓		4	GRAB	8260B	5	ND		ND	
19. 1,1 Dichloroethane	✓		4	GRAB	8260B	5	ND		ND	
20. 1,2 Dichloroethane	✓		4	GRAB	8260B	2	ND		ND	
21. 1,1 Dichloroethylene	✓		4	GRAB	8260B	5	ND		ND	
22. cis-1,2 Dichloro-ethylene	✓		4	GRAB	8260B	5	ND		ND	
23. Dichloromethane (Methylene Chloride)	✓		4	GRAB	8260B	5	ND		ND	
24. Tetrachloroethylene	✓		4	GRAB	8260B	5	ND		ND	

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily Value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
25. 1,1,1 Trichloroethane	✓		4	GRAB	8260B	5	ND		ND	
26. 1,1,2 Trichloroethane	✓		4	GRAB	8260B	5	ND		ND	
27. Trichloroethylene	✓		4	GRAB	8260B	5	ND		ND	
28. Vinyl Chloride	✓		4	GRAB	8260B	2	ND		ND	
29. Acetone	✓		4	GRAB	8260B	50	ND		ND	
30. 1,4 Dioxane										
31. Total Phenols	✓		4	GRAB	8270C	2.08	ND		ND	
32. Pentachlorophenol	✓		4	GRAB	8270C	2.08	ND		ND	
33. Total Phthalates ⁵ (Phthalate esthers)	✓		4	GRAB	8270C	2.08	ND		ND	
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	✓		44	GRAB	8270C	2.08	ND		ND	
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)	✓		4	GRAB	8270C	0.208	ND		ND	
a. Benzo(a) Anthracene	✓		4	GRAB	8270C	0.208	ND		ND	
b. Benzo(a) Pyrene	✓		4	GRAB	8270C	0.208	ND		ND	
c. Benzo(b)Fluoranthene	✓		4	GRAB	8270C	2.08	ND		ND	
d. Benzo(k) Fluoranthene	✓		4	GRAB	8270C	2.08	ND		ND	
e. Chrysene	✓		4	GRAB	8270C	2.08	ND		ND	

⁵The sum of individual phthalate compounds.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
f. Dibenzo(a,h) anthracene	✓		4	GRAB	8270C	0.208	ND		ND	
g. Indeno(1,2,3-cd) Pyrene	✓		4	GRAB	8270C	0.208	ND		ND	
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)		✓	4	GRAB	8270C	2.08	5.41		4.043	
h. Acenaphthene	✓		4	GRAB	8270C	2.08	ND		ND	
i. Acenaphthylene	✓		4	GRAB	8270C	2.08	ND		ND	
j. Anthracene		✓	4	GRAB	8270C	2.08	2.22		2.22	
k. Benzo(ghi) Perylene	✓		4	GRAB	8270C	2.08	ND		ND	
l. Fluoranthene	✓		4	GRAB	8270C	2.08	ND		ND	
m. Fluorene		✓	4	GRAB	8270C	2.08	3.00		2.43	
n. Naphthalene-		✓	4	GRAB	8270C	2.08	9.59		6.005	
o. Phenanthrene		✓	4	GRAB	8270C	2.08	6.83		5.518	
p. Pyrene	✓		4	GRAB	8270C	2.08	ND		ND	
37. Total Polychlorinated Biphenyls (PCBs)	✓		4	GRAB	8082	0.111	ND		ND	
38. Antimony		✓	4	GRAB	200.7	6	1650		1650	
39. Arsenic	✓		4	GRAB	200.7	10	ND		ND	
40. Cadmium	✓		4	GRAB	200.7	5	ND		ND	
41. Chromium III	✓		4	GRAB	200.7	60	ND		ND	
42. Chromium VI	✓		4	GRAB	M3500	50	ND		ND	

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
43. Copper	✓		4	GRAB	200.7	8	ND		ND	
44. Lead	✓		4	GRAB	200.7	15	ND		ND	
45. Mercury	✓		4	GRAB	245.1	0.2	ND		ND	
46. Nickel	✓		4	GRAB	200.7	10	ND		ND	
47. Selenium	✓		4	GRAB	200.7	50	68		68	
48. Silver	✓		4	GRAB	200.7	7	ND		ND	
49. Zinc		✓	4	GRAB	200.7	100	176		170	
50. Iron		✓	4	GRAB	200.7	60	1500		1166	
Other (describe):										

c) For discharges where **metals** are believed present, please fill out the following:

<p><i>Step 1:</i> Do any of the metals in the influent have a reasonable potential to exceed the effluent limits in Appendix III (i.e., the limits set at zero to five dilutions)? Y <input checked="" type="checkbox"/> N <input type="checkbox"/></p>	<p>If yes, which metals? ZINC AND IRON</p>
<p><i>Step 2:</i> For any metals which have reasonable potential to exceed the Appendix III limits, calculate the dilution factor (DF) using the formula in Part I.A.3.c) (step 2) of the NOI instructions or as determined by the State prior to the submission of this NOI. What is the dilution factor for applicable metals? Metals: ZINC AND IRON DF: 0</p>	<p>Look up the limit calculated at the corresponding dilution factor in Appendix IV. Do any of the metals in the influent have the potential to exceed the corresponding effluent limits in Appendix IV (i.e., is the influent concentration above the limit set at the calculated dilution factor)? Y <input checked="" type="checkbox"/> N <input type="checkbox"/> If "Yes," list which metals: SELENIUM, ZINC AND IRON</p>

4. Treatment system information. Please describe the treatment system using separate sheets as necessary, including:

a) A description of the treatment system, including a schematic of the proposed or existing treatment system:
 THE TREATMENT SYSTEM WILL INCLUDE PUMPING THE CONTACT STORMWATER THROUGH A SERIES OF BAG FILTERS AND A GRANULATED ACTIVATED CARBON FILTER. THE TREATED STORMWATER WILL BE DISCHARGE TO THE CONTAINMENT AREA OF TANK 17, WHERE IT WILL ENTER THE EXISTING FACILITY'S STORMWATER TREATMENT SYSTEM, PRIOR TO THE OIL AND WATER SEPARATOR. IF REQUIRED, A METAL REMOVAL SYSTEM WILL BE ADDED.

b) Identify each applicable treatment unit (check all that apply):	Frac. tank	Air stripper	Oil/water separator ✓	Equalization tanks	Bag filter	GAC filter ✓
	Chlorination	Dechlorination	Other (please describe):			

c) Proposed **average** and **maximum flow rates** (gallons per minute) for the discharge and the **design flow rate(s)** (gallons per minute) of the treatment system:
 Average flow rate of discharge 300 Maximum flow rate of treatment system 300 Design flow rate of treatment system 300

d) A description of chemical additives being used or planned to be used (attach MSDS sheets):
 N/A

5. Receiving surface water(s). Please provide information about the receiving water(s), using separate sheets as necessary:

a) Identify the discharge pathway:	Direct <input checked="" type="checkbox"/>	Within facility <input type="checkbox"/>	Storm drain <input type="checkbox"/>	River/brook <input type="checkbox"/>	Wetlands <input type="checkbox"/>	Other (describe):
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b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters:
 THE TREATED STORMWATER WILL BE DISCHARGED TO THE CONTAINMENT AREA OF TANK 17, WHERE IT WILL ENTER THE EXISTING FACILITY'S STORMWATER TANK FARM TREATMENT SYSTEM, PRIOR TO THE OIL AND WATER SEPARATOR, AND WILL FLOW THROUGH OUTFALL 005 TO THE SALES CREEK.

c) Attach a detailed map(s) indicating the site location and location of the outfall to the receiving water:

1. For multiple discharges, number the discharges sequentially.

2. For indirect dischargers, indicate the location of the discharge to the indirect conveyance and the discharge to surface water

The map should also include the location and distance to the nearest sanitary sewer as well as the locus of nearby sensitive receptors (based on USGS topographical mapping), such as surface waters, drinking water supplies, and wetland areas.

d) Provide the state water quality classification of the receiving water SB,

e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water N/A cfs

Please attach any calculation sheets used to support stream flow and dilution calculations.

f) Is the receiving water a listed 303(d) water quality impaired or limited water? Yes No If yes, for which pollutant(s)?

Is there a TMDL? Yes No If yes, for which pollutant(s)?

6. Results of Consultation with Federal Services: Please provide the following information according to requirements of Part I.B.4 and Appendices II and VII.

a) Are any listed threatened or endangered species, or designated critical habitat, in proximity to the discharge? Yes No

Has any consultation with the federal services been completed? No or is consultation underway? No

What were the results of the consultation with the U.S. Fish and Wildlife Service and/or National Marine Fisheries Service (check one):

a "no jeopardy" opinion? or written concurrence on a finding that the discharges are not likely to adversely affect any endangered species or critical habitat?

b) Are any historic properties listed or eligible for listing on the National Register of Historic Places located on the facility or site or in proximity to the discharge?

Yes No Have any state or tribal historic preservation officer been consulted in this determination (Massachusetts only)? Yes No

7. Supplemental information. :

Please provide any supplemental information. Attach any analytical data used to support the application. Attach any certification(s) required by the general permit.

A REVIEW OF ENDANGERED SPECIES AND CRITICAL HABITATS IN THE PROXIMITY OF THE SITE WAS CONDUCTED WHEN THE FACILITY RENEWED ITS INDIVIDUAL NPDES PERMIT NO. MA0003298 AND IT WAS FOUND THAT THERE ARE NO ENDANGERED SPECIES NOR CRITICAL HABITATS IN PROXIMITY TO THE SITE. IN ADDITION, THERE WERE NO HISTORIC PROPERTIES LISTED ON THE NATIONAL REGISTER OF HISTORIC PLACES LOCATED ON THE SITE.

8. Signature Requirements: The Notice of Intent must be signed by the operator in accordance with the signatory requirements of 40 CFR Section 122.22, including the following certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I certify that I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Facility/Site Name: GLOBAL REVCO TERMINAL, LLC.
Operator signature: 
Title: Proj. Mgr
Date: 3/21/07

Appendix A
Flow Schematic

Appendix B

Laboratory Analytical Results



Friday, March 16, 2007

Ashvin Patel
Global Petroleum
140 Lee Burbank Hwy
Revere, MA 02151

GeoLabs, Inc.
45 Johnson Lane
Braintree MA 02184
Tele: 781 848 7844
Fax: 781 848 7811

TEL: (617) 660-1150
FAX: (617) 660-1190

Project: Tk 11 & Tk 13 Dike
Location: 101 Lee Burbank Hwy, Revere, MA

Order No.: 0703098

Dear Ashvin Patel:

GeoLabs, Inc. received 4 sample(s) on 3/8/2007 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in black ink, appearing to read "Jim Chen", is written in a cursive style.

Jim Chen
Laboratory Director

GeoLabs, Inc.

Reported Date:

CLIENT: Global Petroleum
Lab Order: 0703098
Project: Tk 11 & Tk 13 Dike
Lab ID: 0703098-001

Client Sample ID: 11 Dike (Pump)
Collection Date: 3/8/2007
Date Received: 3/8/2007
Matrix: WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL SUSPENDED SOLIDS BY E160.2						
Total Suspended Solids	8.00	4.00		mg/L	1	3/9/2007
						Analyst: FC
TOTAL PETROLEUM HYDROCARBONS BY 8100						
Total Petroleum Hydrocarbons	1.07	0.238		mg/L	1	3/9/2007
Surr: o-Terphenyl	97.0	40-140		%REC	1	3/9/2007
						Analyst: KH
POLYCHLORINATED BIPHENYLS BY SW8082						
						(SW3510B)
						Analyst: GP
Aroclor 1016/1242	ND	0.103		µg/L	1	3/9/2007
Aroclor 1221	ND	0.103		µg/L	1	3/9/2007
Aroclor 1232	ND	0.103		µg/L	1	3/9/2007
Aroclor 1248	ND	0.103		µg/L	1	3/9/2007
Aroclor 1254	ND	0.103		µg/L	1	3/9/2007
Aroclor 1260	ND	0.103		µg/L	1	3/9/2007
Aroclor 1262	ND	0.103		µg/L	1	3/9/2007
Aroclor 1268	ND	0.103		µg/L	1	3/9/2007
Surr: Decachlorobiphenyl Sig 1	146	30-150		%REC	1	3/9/2007
Surr: Decachlorobiphenyl Sig 2	82.0	30-150		%REC	1	3/9/2007
Surr: Tetrachloro-m-Xylene Sig 1	92.0	30-150		%REC	1	3/9/2007
Surr: Tetrachloro-m-Xylene Sig 2	84.0	30-150		%REC	1	3/9/2007
TOTAL METALS BY ICP - E200.7						
						(SW3010A)
						Analyst: QS
Antimony	1.65	0.00600		mg/L	1	3/12/2007
Arsenic	ND	0.0100		mg/L	1	3/12/2007
Cadmium	ND	0.00500		mg/L	1	3/12/2007
Chromium	ND	0.0600		mg/L	1	3/12/2007
Copper	ND	0.00800		mg/L	1	3/12/2007
Iron	0.955	0.0600		mg/L	1	3/12/2007
Lead	ND	0.0150		mg/L	1	3/12/2007
Nickel	ND	0.0100		mg/L	1	3/12/2007
Selenium	0.0680	0.0500		mg/L	1	3/12/2007
Zinc	0.174	0.100		mg/L	1	3/12/2007
TOTAL SILVER BY E200.7						
						(SW3010A)
						Analyst: QS
Silver	ND	0.00700		mg/L	1	3/12/2007
TOTAL MERCURY BY E245.1						
						(SW7470A/E245.1)
						Analyst: BF
Mercury	ND	0.0002		mg/L	1	3/12/2007

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit S Spike Recovery outside accepted recovery limits

CLIENT: Global Petroleum
 Lab Order: 0703098
 Project: Tk 11 & Tk 13 Dike
 Lab ID: 0703098-001

Client Sample ID: 11 Dike (Pump)
 Collection Date: 3/8/2007
 Date Received: 3/8/2007
 Matrix: WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS BY SW8270C				(SW3510)		Analyst: ZYZ
1,2,4-Trichlorobenzene	ND	2.11		µg/L	1	3/12/2007 1:12:00 PM
1,2-Dichlorobenzene	ND	2.11		µg/L	1	3/12/2007 1:12:00 PM
1,2-Dinitrobenzene	ND	2.11		µg/L	1	3/12/2007 1:12:00 PM
1,3-Dichlorobenzene	ND	2.11		µg/L	1	3/12/2007 1:12:00 PM
1,3-Dinitrobenzene	ND	2.11		µg/L	1	3/12/2007 1:12:00 PM
1,4-Dichlorobenzene	ND	2.11		µg/L	1	3/12/2007 1:12:00 PM
1,4-Dinitrobenzene	ND	2.11		µg/L	1	3/12/2007 1:12:00 PM
2,3,4,6-Tetrachlorophenol	ND	2.11		µg/L	1	3/12/2007 1:12:00 PM
2,4,5-Trichlorophenol	ND	2.11		µg/L	1	3/12/2007 1:12:00 PM
2,4,6-Trichlorophenol	ND	2.11		µg/L	1	3/12/2007 1:12:00 PM
2,4-Dichlorophenol	ND	2.11		µg/L	1	3/12/2007 1:12:00 PM
2,4-Dimethylphenol	ND	2.11		µg/L	1	3/12/2007 1:12:00 PM
2,4-Dinitrophenol	ND	10.5		µg/L	1	3/12/2007 1:12:00 PM
2,4-Dinitrotoluene	ND	2.11		µg/L	1	3/12/2007 1:12:00 PM
2,6-Dinitrotoluene	ND	2.11		µg/L	1	3/12/2007 1:12:00 PM
2-Chloronaphthalene	ND	2.11		µg/L	1	3/12/2007 1:12:00 PM
2-Chlorophenol	ND	2.11		µg/L	1	3/12/2007 1:12:00 PM
2-Methylnaphthalene	21.7	2.11		µg/L	1	3/12/2007 1:12:00 PM
2-Methylphenol	3.53	2.11		µg/L	1	3/12/2007 1:12:00 PM
2-Nitroaniline	ND	2.11		µg/L	1	3/12/2007 1:12:00 PM
2-Nitrophenol	ND	2.11		µg/L	1	3/12/2007 1:12:00 PM
3,3'-Dichlorobenzidine	ND	2.11		µg/L	1	3/12/2007 1:12:00 PM
3-Methylphenol/4-Methylphenol	5.39	2.11		µg/L	1	3/12/2007 1:12:00 PM
3-Nitroaniline	ND	2.11		µg/L	1	3/12/2007 1:12:00 PM
4,6-Dinitro-2-Methylphenol	ND	10.5		µg/L	1	3/12/2007 1:12:00 PM
4-Bromophenyl Phenyl Ether	ND	2.11		µg/L	1	3/12/2007 1:12:00 PM
4-Chloro-3-Methylphenol	ND	2.11		µg/L	1	3/12/2007 1:12:00 PM
4-Chloroaniline	ND	2.11		µg/L	1	3/12/2007 1:12:00 PM
4-Chlorophenyl Phenyl Ether	ND	2.11		µg/L	1	3/12/2007 1:12:00 PM
4-Nitroaniline	ND	2.11		µg/L	1	3/12/2007 1:12:00 PM
4-Nitrophenol	ND	2.11		µg/L	1	3/12/2007 1:12:00 PM
Acenaphthene	ND	2.11		µg/L	1	3/12/2007 1:12:00 PM
Acenaphthylene	ND	2.11		µg/L	1	3/12/2007 1:12:00 PM
Acetophenone	ND	2.11		µg/L	1	3/12/2007 1:12:00 PM
Aniline	ND	10.5		µg/L	1	3/12/2007 1:12:00 PM
Anthracene	ND	2.11		µg/L	1	3/12/2007 1:12:00 PM
Azobenzene	ND	10.5		µg/L	1	3/12/2007 1:12:00 PM
Benz(a)Anthracene	ND	0.211		µg/L	1	3/12/2007 1:12:00 PM
Benzidine	ND	10.5		µg/L	1	3/12/2007 1:12:00 PM
Benzo(a)Pyrene	ND	0.211		µg/L	1	3/12/2007 1:12:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit

E Value above quantitation range
 J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits

GeoLabs, Inc.

Reported Date:

CLIENT: Global Petroleum
 Lab Order: 0703098
 Project: Tk 11 & Tk 13 Dike
 Lab ID: 0703098-001

Client Sample ID: 11 Dike (Pump)
 Collection Date: 3/8/2007
 Date Received: 3/8/2007
 Matrix: WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS BY SW8270C				(SW3510)		Analyst: ZYZ
Benzo(b)Fluoranthene	ND	2.11		µg/L	1	3/12/2007 1:12:00 PM
Benzo(g,h,i)Perylene	ND	2.11		µg/L	1	3/12/2007 1:12:00 PM
Benzo(k)Fluoranthene	ND	2.11		µg/L	1	3/12/2007 1:12:00 PM
Benzyl Alcohol	ND	2.11		µg/L	1	3/12/2007 1:12:00 PM
Bis(2-Chloroethoxy)Methane	ND	2.11		µg/L	1	3/12/2007 1:12:00 PM
Bis(2-Chloroethyl)Ether	ND	2.11		µg/L	1	3/12/2007 1:12:00 PM
Bis(2-Chloroisopropyl)Ether	ND	2.11		µg/L	1	3/12/2007 1:12:00 PM
Bis(2-Ethylhexyl)Phthalate	ND	2.11		µg/L	1	3/12/2007 1:12:00 PM
Butyl Benzyl Phthalate	ND	2.11		µg/L	1	3/12/2007 1:12:00 PM
Carbazole	ND	2.11		µg/L	1	3/12/2007 1:12:00 PM
Chrysene	ND	2.11		µg/L	1	3/12/2007 1:12:00 PM
Dibenz(a,h)Anthracene	ND	0.211		µg/L	1	3/12/2007 1:12:00 PM
Dibenzofuran	ND	2.11		µg/L	1	3/12/2007 1:12:00 PM
Diethyl Phthalate	ND	2.11		µg/L	1	3/12/2007 1:12:00 PM
Dimethyl Phthalate	ND	2.11		µg/L	1	3/12/2007 1:12:00 PM
Di-n-Butyl Phthalate	ND	2.11		µg/L	1	3/12/2007 1:12:00 PM
Di-n-Octyl Phthalate	ND	2.11		µg/L	1	3/12/2007 1:12:00 PM
Fluoranthene	ND	2.11		µg/L	1	3/12/2007 1:12:00 PM
Fluorene	3.00	2.11		µg/L	1	3/12/2007 1:12:00 PM
Hexachlorobenzene	ND	0.211		µg/L	1	3/12/2007 1:12:00 PM
Hexachlorobutadiene	ND	0.211		µg/L	1	3/12/2007 1:12:00 PM
Hexachlorocyclopentadiene	ND	10.5		µg/L	1	3/12/2007 1:12:00 PM
Hexachloroethane	ND	2.11		µg/L	1	3/12/2007 1:12:00 PM
Indeno(1,2,3-cd)Pyrene	ND	0.211		µg/L	1	3/12/2007 1:12:00 PM
Isophorone	ND	2.11		µg/L	1	3/12/2007 1:12:00 PM
Naphthalene	9.59	2.11		µg/L	1	3/12/2007 1:12:00 PM
Nitrobenzene	ND	2.11		µg/L	1	3/12/2007 1:12:00 PM
N-Nitrosodimethylamine	ND	10.5		µg/L	1	3/12/2007 1:12:00 PM
N-Nitrosodi-n-Propylamine	ND	2.11		µg/L	1	3/12/2007 1:12:00 PM
N-Nitrosodiphenylamine	ND	10.5		µg/L	1	3/12/2007 1:12:00 PM
Pentachlorophenol	ND	2.11		µg/L	1	3/12/2007 1:12:00 PM
Phenanthrene	6.46	2.11		µg/L	1	3/12/2007 1:12:00 PM
Phenol	ND	2.11		µg/L	1	3/12/2007 1:12:00 PM
Pyrene	ND	2.11		µg/L	1	3/12/2007 1:12:00 PM
Pyridine	ND	10.5		µg/L	1	3/12/2007 1:12:00 PM
Surr: 2,4,6-Tribromophenol	41.4	15-110		%REC	1	3/12/2007 1:12:00 PM
Surr: 2-Fluorobiphenyl	54.2	30-130		%REC	1	3/12/2007 1:12:00 PM
Surr: 2-Fluorophenol	36.9	15-110		%REC	1	3/12/2007 1:12:00 PM
Surr: Nitrobenzene-d5	53.3	30-130		%REC	1	3/12/2007 1:12:00 PM
Surr: Phenol-d6	41.7	15-110		%REC	1	3/12/2007 1:12:00 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
 H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit S Spike Recovery outside accepted recovery limits

GeoLabs, Inc.

Reported Date:

CLIENT: Global Petroleum
 Lab Order: 0703098
 Project: Tk 11 & Tk 13 Dike
 Lab ID: 0703098-001

Client Sample ID: 11 Dike (Pump)
 Collection Date: 3/8/2007
 Date Received: 3/8/2007
 Matrix: WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS BY SW8270C						Analyst: ZYZ
Surr: Terphenyl-d14	56.7	30-130		%REC	1	3/12/2007 1:12:00 PM
VOLATILE ORGANIC COMPOUNDS BY SW8260B						Analyst: JG
1,1,1,2-Tetrachloroethane	ND	5.00		µg/L	1	3/12/2007 6:53:00 PM
1,1,1-Trichloroethane	ND	5.00		µg/L	1	3/12/2007 6:53:00 PM
1,1,2,2-Tetrachloroethane	ND	2.00		µg/L	1	3/12/2007 6:53:00 PM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	3/12/2007 6:53:00 PM
1,1-Dichloroethane	ND	5.00		µg/L	1	3/12/2007 6:53:00 PM
1,1-Dichloroethene	ND	5.00		µg/L	1	3/12/2007 6:53:00 PM
1,1-Dichloropropene	ND	5.00		µg/L	1	3/12/2007 6:53:00 PM
1,2,3-Trichlorobenzene	ND	5.00		µg/L	1	3/12/2007 6:53:00 PM
1,2,3-Trichloropropane	ND	5.00		µg/L	1	3/12/2007 6:53:00 PM
1,2,4-Trichlorobenzene	ND	5.00		µg/L	1	3/12/2007 6:53:00 PM
1,2,4-Trimethylbenzene	7.29	5.00		µg/L	1	3/12/2007 6:53:00 PM
1,2-Dibromo-3-Chloropropane	ND	5.00		µg/L	1	3/12/2007 6:53:00 PM
1,2-Dibromoethane	ND	2.00		µg/L	1	3/12/2007 6:53:00 PM
1,2-Dichlorobenzene	ND	5.00		µg/L	1	3/12/2007 6:53:00 PM
1,2-Dichloroethane	ND	2.00		µg/L	1	3/12/2007 6:53:00 PM
1,2-Dichloropropane	ND	2.00		µg/L	1	3/12/2007 6:53:00 PM
1,3,5-Trimethylbenzene	ND	5.00		µg/L	1	3/12/2007 6:53:00 PM
1,3-Dichlorobenzene	ND	5.00		µg/L	1	3/12/2007 6:53:00 PM
1,3-Dichloropropane	ND	5.00		µg/L	1	3/12/2007 6:53:00 PM
1,4-Dichlorobenzene	ND	5.00		µg/L	1	3/12/2007 6:53:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	3/12/2007 6:53:00 PM
2-Butanone	ND	10.0		µg/L	1	3/12/2007 6:53:00 PM
2-Chloroethyl Vinyl Ether	ND	5.00		µg/L	1	3/12/2007 6:53:00 PM
2-Chlorotoluene	ND	5.00		µg/L	1	3/12/2007 6:53:00 PM
2-Hexanone	ND	10.0		µg/L	1	3/12/2007 6:53:00 PM
4-Chlorotoluene	ND	5.00		µg/L	1	3/12/2007 6:53:00 PM
4-isopropyltoluene	ND	5.00		µg/L	1	3/12/2007 6:53:00 PM
4-Methyl-2-Pentanone	ND	5.00		µg/L	1	3/12/2007 6:53:00 PM
Acetone	ND	50.0		µg/L	1	3/12/2007 6:53:00 PM
Acrolein	ND	50.0		µg/L	1	3/12/2007 6:53:00 PM
Acrylonitrile	ND	50.0		µg/L	1	3/12/2007 6:53:00 PM
Benzene	ND	5.00		µg/L	1	3/12/2007 6:53:00 PM
Bromobenzene	ND	5.00		µg/L	1	3/12/2007 6:53:00 PM
Bromochloromethane	ND	2.00		µg/L	1	3/12/2007 6:53:00 PM
Bromodichloromethane	ND	2.00		µg/L	1	3/12/2007 6:53:00 PM
Bromoform	ND	2.00		µg/L	1	3/12/2007 6:53:00 PM
Bromomethane	ND	2.00		µg/L	1	3/12/2007 6:53:00 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
 H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit S Spike Recovery outside accepted recovery limits

GeoLabs, Inc.

Reported Date:

CLIENT: Global Petroleum
 Lab Order: 0703098
 Project: Tk 11 & Tk 13 Dike
 Lab ID: 0703098-001

Client Sample ID: 11 Dike (Pump)
 Collection Date: 3/8/2007
 Date Received: 3/8/2007
 Matrix: WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY SW8260B						Analyst: JG
Carbon Disulfide	ND	5.00		µg/L	1	3/12/2007 6:53:00 PM
Carbon Tetrachloride	ND	2.00		µg/L	1	3/12/2007 6:53:00 PM
Chlorobenzene	ND	5.00		µg/L	1	3/12/2007 6:53:00 PM
Chloroethane	ND	5.00		µg/L	1	3/12/2007 6:53:00 PM
Chloroform	ND	5.00		µg/L	1	3/12/2007 6:53:00 PM
Chloromethane	ND	5.00		µg/L	1	3/12/2007 6:53:00 PM
cis-1,2-Dichloroethene	ND	5.00		µg/L	1	3/12/2007 6:53:00 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/12/2007 6:53:00 PM
Dibromochloromethane	ND	2.00		µg/L	1	3/12/2007 6:53:00 PM
Dibromomethane	ND	5.00		µg/L	1	3/12/2007 6:53:00 PM
Dichlorodifluoromethane	ND	5.00		µg/L	1	3/12/2007 6:53:00 PM
Ethylbenzene	ND	5.00		µg/L	1	3/12/2007 6:53:00 PM
Hexachlorobutadiene	ND	0.500		µg/L	1	3/12/2007 6:53:00 PM
Isopropylbenzene	ND	5.00		µg/L	1	3/12/2007 6:53:00 PM
11. Methyl Tert-Butyl Ether	ND	5.00		µg/L	1	3/12/2007 6:53:00 PM
Methylene Chloride	ND	5.00		µg/L	1	3/12/2007 6:53:00 PM
Naphthalene	ND	20.0		µg/L	1	3/12/2007 6:53:00 PM
n-Butylbenzene	ND	5.00		µg/L	1	3/12/2007 6:53:00 PM
n-Propylbenzene	ND	5.00		µg/L	1	3/12/2007 6:53:00 PM
sec-Butylbenzene	ND	5.00		µg/L	1	3/12/2007 6:53:00 PM
Styrene	ND	5.00		µg/L	1	3/12/2007 6:53:00 PM
tert-Butylbenzene	ND	5.00		µg/L	1	3/12/2007 6:53:00 PM
Tetrachloroethene	ND	5.00		µg/L	1	3/12/2007 6:53:00 PM
Toluene	ND	5.00		µg/L	1	3/12/2007 6:53:00 PM
trans-1,2-Dichloroethene	ND	5.00		µg/L	1	3/12/2007 6:53:00 PM
trans-1,3-Dichloropropene	ND	0.500		µg/L	1	3/12/2007 6:53:00 PM
Trichloroethene	ND	5.00		µg/L	1	3/12/2007 6:53:00 PM
Trichlorofluoromethane	ND	5.00		µg/L	1	3/12/2007 6:53:00 PM
Vinyl Chloride	ND	2.00		µg/L	1	3/12/2007 6:53:00 PM
Xylenes, Total	ND	5.00		µg/L	1	3/12/2007 6:53:00 PM
Surr: 1,2-Dichloroethane-d4	107	70-130		%REC	1	3/12/2007 6:53:00 PM
Surr: 4-Bromofluorobenzene	94.4	70-130		%REC	1	3/12/2007 6:53:00 PM
Surr: Dibromofluoromethane	109	70-130		%REC	1	3/12/2007 6:53:00 PM
Surr: Toluene-d8	97.6	70-130		%REC	1	3/12/2007 6:53:00 PM

CYANIDE, TOTAL BY E335.2

Cyanide, Total ND 0.016 mg/L 1

Analyst: RP

3/9/2007

TRIVALENT CHROMIUM IN WATER BY 200.7&350

Analyst: RP

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike Recovery outside accepted recovery limits

GeoLabs, Inc.

Reported Date:

CLIENT: Global Petroleum
Lab Order: 0703098
Project: Tk 11 & Tk 13 Dike
Lab ID: 0703098-001

Client Sample ID: 11 Dike (Pump)
Collection Date: 3/8/2007
Date Received: 3/8/2007
Matrix: WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TRIVALENT CHROMIUM IN WATER BY 200.7&350						
Trivalent Chromium	ND	0.060		mg/L	1	3/15/2007
HEXAVALENT CHROMIUM BY SM3500-CR-D						
Chromium, Hexavalent	ND	0.0500		mg/L	1	3/8/2007
TOTAL RESIDUAL CHLORINE BY HACH 8167						
Total Residual Chlorine	ND	0.162		mg/L	1	3/8/2007

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

GeoLabs, Inc.

Reported Date:

CLIENT: Global Petroleum
Lab Order: 0703098
Project: Tk 11 & Tk 13 Dike
Lab ID: 0703098-002

Client Sample ID: Tk 13 Dike Front
Collection Date: 3/8/2007
Date Received: 3/8/2007
Matrix: WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL SUSPENDED SOLIDS BY E160.2						
Total Suspended Solids	8.00	4.00		mg/L	1	3/9/2007
						Analyst: FC
TOTAL PETROLEUM HYDROCARBONS BY 8100						
				(8100M)		
Total Petroleum Hydrocarbons	0.667	0.237		mg/L	1	3/9/2007
Surr: o-Terphenyl	86.0	40-140		%REC	1	3/9/2007
						Analyst: KH
POLYCHLORINATED BIPHENYLS BY SW8082						
				(SW3510B)		
Aroclor 1016/1242	ND	0.111		µg/L	1	3/9/2007
Aroclor 1221	ND	0.111		µg/L	1	3/9/2007
Aroclor 1232	ND	0.111		µg/L	1	3/9/2007
Aroclor 1248	ND	0.111		µg/L	1	3/9/2007
Aroclor 1254	ND	0.111		µg/L	1	3/9/2007
Aroclor 1260	ND	0.111		µg/L	1	3/9/2007
Aroclor 1262	ND	0.111		µg/L	1	3/9/2007
Aroclor 1268	ND	0.111		µg/L	1	3/9/2007
Surr: Decachlorobiphenyl Sig 1	106	30-150		%REC	1	3/9/2007
Surr: Decachlorobiphenyl Sig 2	88.0	30-150		%REC	1	3/9/2007
Surr: Tetrachloro-m-Xylene Sig 1	94.0	30-150		%REC	1	3/9/2007
Surr: Tetrachloro-m-Xylene Sig 2	94.0	30-150		%REC	1	3/9/2007
						Analyst: GP
TOTAL METALS BY ICP - E200.7						
				(SW3010A)		
Antimony	ND	0.00600		mg/L	1	3/12/2007
Arsenic	ND	0.0100		mg/L	1	3/12/2007
Cadmium	ND	0.00500		mg/L	1	3/12/2007
Chromium	ND	0.0600		mg/L	1	3/12/2007
Copper	ND	0.00800		mg/L	1	3/12/2007
Iron	1.19	0.0600		mg/L	1	3/12/2007
Lead	ND	0.0150		mg/L	1	3/12/2007
Nickel	ND	0.0100		mg/L	1	3/12/2007
Selenium	ND	0.0500		mg/L	1	3/12/2007
Zinc	0.160	0.100		mg/L	1	3/12/2007
						Analyst: QS
TOTAL SILVER BY E200.7						
				(SW3010A)		
Silver	ND	0.00700		mg/L	1	3/12/2007
						Analyst: QS
TOTAL MERCURY BY E245.1						
				(SW7470A/E245.1)		
Mercury	ND	0.0002		mg/L	1	3/12/2007
						Analyst: BF

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 H Holding times for preparation or analysis exceeded
 J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit
 S Spike Recovery outside accepted recovery limits

GeoLabs, Inc.

Reported Date:

CLIENT: Global Petroleum
Lab Order: 0703098
Project: Tk 11 & Tk 13 Dike
Lab ID: 0703098-002

Client Sample ID: Tk 13 Dike Front
Collection Date: 3/8/2007
Date Received: 3/8/2007
Matrix: WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS BY SW8270C				(SW3510)		Analyst: ZYZ
1,2,4-Trichlorobenzene	ND	2.56		µg/L	1	3/12/2007 1:48:00 PM
1,2-Dichlorobenzene	ND	2.56		µg/L	1	3/12/2007 1:48:00 PM
1,2-Dinitrobenzene	ND	2.56		µg/L	1	3/12/2007 1:48:00 PM
1,3-Dichlorobenzene	ND	2.56		µg/L	1	3/12/2007 1:48:00 PM
1,3-Dinitrobenzene	ND	2.56		µg/L	1	3/12/2007 1:48:00 PM
1,4-Dichlorobenzene	ND	2.56		µg/L	1	3/12/2007 1:48:00 PM
1,4-Dinitrobenzene	ND	2.56		µg/L	1	3/12/2007 1:48:00 PM
2,3,4,6-Tetrachlorophenol	ND	2.56		µg/L	1	3/12/2007 1:48:00 PM
2,4,5-Trichlorophenol	ND	2.56		µg/L	1	3/12/2007 1:48:00 PM
2,4,6-Trichlorophenol	ND	2.56		µg/L	1	3/12/2007 1:48:00 PM
2,4-Dichlorophenol	ND	2.56		µg/L	1	3/12/2007 1:48:00 PM
2,4-Dimethylphenol	ND	2.56		µg/L	1	3/12/2007 1:48:00 PM
2,4-Dinitrophenol	ND	12.8		µg/L	1	3/12/2007 1:48:00 PM
2,4-Dinitrotoluene	ND	2.56		µg/L	1	3/12/2007 1:48:00 PM
2,6-Dinitrotoluene	ND	2.56		µg/L	1	3/12/2007 1:48:00 PM
2-Chloronaphthalene	ND	2.56		µg/L	1	3/12/2007 1:48:00 PM
2-Chlorophenol	ND	2.56		µg/L	1	3/12/2007 1:48:00 PM
2-Methylnaphthalene	6.69	2.56		µg/L	1	3/12/2007 1:48:00 PM
2-Methylphenol	3.58	2.56		µg/L	1	3/12/2007 1:48:00 PM
2-Nitroaniline	ND	2.56		µg/L	1	3/12/2007 1:48:00 PM
2-Nitrophenol	ND	2.56		µg/L	1	3/12/2007 1:48:00 PM
3,3'-Dichlorobenzidine	ND	2.56		µg/L	1	3/12/2007 1:48:00 PM
3-Methylphenol/4-Methylphenol	5.44	2.56		µg/L	1	3/12/2007 1:48:00 PM
3-Nitroaniline	ND	2.56		µg/L	1	3/12/2007 1:48:00 PM
4,6-Dinitro-2-Methylphenol	ND	12.8		µg/L	1	3/12/2007 1:48:00 PM
4-Bromophenyl Phenyl Ether	ND	2.56		µg/L	1	3/12/2007 1:48:00 PM
4-Chloro-3-Methylphenol	ND	2.56		µg/L	1	3/12/2007 1:48:00 PM
4-Chloroaniline	ND	2.56		µg/L	1	3/12/2007 1:48:00 PM
4-Chlorophenyl Phenyl Ether	ND	2.56		µg/L	1	3/12/2007 1:48:00 PM
4-Nitroaniline	ND	2.56		µg/L	1	3/12/2007 1:48:00 PM
4-Nitrophenol	ND	2.56		µg/L	1	3/12/2007 1:48:00 PM
Acenaphthene	ND	2.56		µg/L	1	3/12/2007 1:48:00 PM
Acenaphthylene	ND	2.56		µg/L	1	3/12/2007 1:48:00 PM
Acetophenone	ND	2.56		µg/L	1	3/12/2007 1:48:00 PM
Aniline	ND	12.8		µg/L	1	3/12/2007 1:48:00 PM
Anthracene	ND	2.56		µg/L	1	3/12/2007 1:48:00 PM
Azobenzene	ND	12.8		µg/L	1	3/12/2007 1:48:00 PM
Benz(a)Anthracene	ND	0.256		µg/L	1	3/12/2007 1:48:00 PM
Benzidine	ND	12.8		µg/L	1	3/12/2007 1:48:00 PM
Benzo(a)Pyrene	ND	0.256		µg/L	1	3/12/2007 1:48:00 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit S Spike Recovery outside accepted recovery limits

GeoLabs, Inc.

Reported Date:

CLIENT: Global Petroleum
Lab Order: 0703098
Project: Tk 11 & Tk 13 Dike
Lab ID: 0703098-002

Client Sample ID: Tk 13 Dike Front
Collection Date: 3/8/2007
Date Received: 3/8/2007
Matrix: WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS BY SW8270C				(SW3510)		Analyst: ZYZ
Benzo(b)Fluoranthene	ND	2.56		µg/L	1	3/12/2007 1:48:00 PM
Benzo(g,h,i)Perylene	ND	2.56		µg/L	1	3/12/2007 1:48:00 PM
Benzo(k)Fluoranthene	ND	2.56		µg/L	1	3/12/2007 1:48:00 PM
Benzyl Alcohol	ND	2.56		µg/L	1	3/12/2007 1:48:00 PM
Bis(2-Chloroethoxy)Methane	ND	2.56		µg/L	1	3/12/2007 1:48:00 PM
Bis(2-Chloroethyl)Ether	ND	2.56		µg/L	1	3/12/2007 1:48:00 PM
Bis(2-Chloroisopropyl)Ether	ND	2.56		µg/L	1	3/12/2007 1:48:00 PM
Bis(2-Ethylhexyl)Phthalate	ND	2.56		µg/L	1	3/12/2007 1:48:00 PM
Butyl Benzyl Phthalate	ND	2.56		µg/L	1	3/12/2007 1:48:00 PM
Carbazole	ND	2.56		µg/L	1	3/12/2007 1:48:00 PM
Chrysene	ND	2.56		µg/L	1	3/12/2007 1:48:00 PM
Dibenz(a,h)Anthracene	ND	0.256		µg/L	1	3/12/2007 1:48:00 PM
Dibenzofuran	ND	2.56		µg/L	1	3/12/2007 1:48:00 PM
Diethyl Phthalate	ND	2.56		µg/L	1	3/12/2007 1:48:00 PM
Dimethyl Phthalate	ND	2.56		µg/L	1	3/12/2007 1:48:00 PM
Di-n-Butyl Phthalate	ND	2.56		µg/L	1	3/12/2007 1:48:00 PM
Di-n-Octyl Phthalate	ND	2.56		µg/L	1	3/12/2007 1:48:00 PM
Fluoranthene	ND	2.56		µg/L	1	3/12/2007 1:48:00 PM
Fluorene	ND	2.56		µg/L	1	3/12/2007 1:48:00 PM
Hexachlorobenzene	ND	0.256		µg/L	1	3/12/2007 1:48:00 PM
Hexachlorobutadiene	ND	0.256		µg/L	1	3/12/2007 1:48:00 PM
Hexachlorocyclopentadiene	ND	12.8		µg/L	1	3/12/2007 1:48:00 PM
Hexachloroethane	ND	2.56		µg/L	1	3/12/2007 1:48:00 PM
Indeno(1,2,3-cd)Pyrene	ND	0.256		µg/L	1	3/12/2007 1:48:00 PM
Isophorone	ND	2.56		µg/L	1	3/12/2007 1:48:00 PM
Naphthalene	3.17	2.56		µg/L	1	3/12/2007 1:48:00 PM
Nitrobenzene	ND	2.56		µg/L	1	3/12/2007 1:48:00 PM
N-Nitrosodimethylamine	ND	12.8		µg/L	1	3/12/2007 1:48:00 PM
N-Nitrosodi-n-Propylamine	ND	2.56		µg/L	1	3/12/2007 1:48:00 PM
N-Nitrosodiphenylamine	ND	12.8		µg/L	1	3/12/2007 1:48:00 PM
Pentachlorophenol	ND	2.56		µg/L	1	3/12/2007 1:48:00 PM
Phenanthrene	4.35	2.56		µg/L	1	3/12/2007 1:48:00 PM
Phenol	ND	2.56		µg/L	1	3/12/2007 1:48:00 PM
Pyrene	ND	2.56		µg/L	1	3/12/2007 1:48:00 PM
Pyridine	ND	12.8		µg/L	1	3/12/2007 1:48:00 PM
Surr: 2,4,6-Tribromophenol	39.0	15-110		%REC	1	3/12/2007 1:48:00 PM
Surr: 2-Fluorobiphenyl	62.3	30-130		%REC	1	3/12/2007 1:48:00 PM
Surr: 2-Fluorophenol	40.4	15-110		%REC	1	3/12/2007 1:48:00 PM
Surr: Nitrobenzene-d5	62.0	30-130		%REC	1	3/12/2007 1:48:00 PM
Surr: Phenol-d6	46.6	15-110		%REC	1	3/12/2007 1:48:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 E Value above quantitation range
 J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits

CLIENT: Global Petroleum
 Lab Order: 0703098
 Project: Tk 11 & Tk 13 Dike
 Lab ID: 0703098-002

Client Sample ID: Tk 13 Dike Front
 Collection Date: 3/8/2007
 Date Received: 3/8/2007
 Matrix: WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS BY SW8270C				(SW3510)		Analyst: ZYZ
Surr: Terphenyl-d14	58.8	30-130		%REC	1	3/12/2007 1:48:00 PM
VOLATILE ORGANIC COMPOUNDS BY SW8260B						Analyst: JG
1,1,1,2-Tetrachloroethane	ND	5.00		µg/L	1	3/12/2007 7:30:00 PM
1,1,1-Trichloroethane	ND	5.00		µg/L	1	3/12/2007 7:30:00 PM
1,1,2,2-Tetrachloroethane	ND	2.00		µg/L	1	3/12/2007 7:30:00 PM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	3/12/2007 7:30:00 PM
1,1-Dichloroethane	ND	5.00		µg/L	1	3/12/2007 7:30:00 PM
1,1-Dichloroethene	ND	5.00		µg/L	1	3/12/2007 7:30:00 PM
1,1-Dichloropropene	ND	5.00		µg/L	1	3/12/2007 7:30:00 PM
1,2,3-Trichlorobenzene	ND	5.00		µg/L	1	3/12/2007 7:30:00 PM
1,2,3-Trichloropropane	ND	5.00		µg/L	1	3/12/2007 7:30:00 PM
1,2,4-Trichlorobenzene	ND	5.00		µg/L	1	3/12/2007 7:30:00 PM
1,2,4-Trimethylbenzene	ND	5.00		µg/L	1	3/12/2007 7:30:00 PM
1,2-Dibromo-3-Chloropropane	ND	5.00		µg/L	1	3/12/2007 7:30:00 PM
1,2-Dibromoethane	ND	2.00		µg/L	1	3/12/2007 7:30:00 PM
1,2-Dichlorobenzene	ND	5.00		µg/L	1	3/12/2007 7:30:00 PM
1,2-Dichloroethane	ND	2.00		µg/L	1	3/12/2007 7:30:00 PM
1,2-Dichloropropane	ND	2.00		µg/L	1	3/12/2007 7:30:00 PM
1,3,5-Trimethylbenzene	ND	5.00		µg/L	1	3/12/2007 7:30:00 PM
1,3-Dichlorobenzene	ND	5.00		µg/L	1	3/12/2007 7:30:00 PM
1,3-Dichloropropane	ND	5.00		µg/L	1	3/12/2007 7:30:00 PM
1,4-Dichlorobenzene	ND	5.00		µg/L	1	3/12/2007 7:30:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	3/12/2007 7:30:00 PM
2-Butanone	ND	10.0		µg/L	1	3/12/2007 7:30:00 PM
2-Chloroethyl Vinyl Ether	ND	5.00		µg/L	1	3/12/2007 7:30:00 PM
2-Chlorotoluene	ND	5.00		µg/L	1	3/12/2007 7:30:00 PM
2-Hexanone	ND	10.0		µg/L	1	3/12/2007 7:30:00 PM
4-Chlorotoluene	ND	5.00		µg/L	1	3/12/2007 7:30:00 PM
4-Isopropyltoluene	ND	5.00		µg/L	1	3/12/2007 7:30:00 PM
4-Methyl-2-Pentanone	ND	5.00		µg/L	1	3/12/2007 7:30:00 PM
Acetone	ND	50.0		µg/L	1	3/12/2007 7:30:00 PM
Acrolein	ND	50.0		µg/L	1	3/12/2007 7:30:00 PM
Acrylonitrile	ND	50.0		µg/L	1	3/12/2007 7:30:00 PM
Benzene	ND	5.00		µg/L	1	3/12/2007 7:30:00 PM
Bromobenzene	ND	5.00		µg/L	1	3/12/2007 7:30:00 PM
Bromochloromethane	ND	2.00		µg/L	1	3/12/2007 7:30:00 PM
Bromodichloromethane	ND	2.00		µg/L	1	3/12/2007 7:30:00 PM
Bromoform	ND	2.00		µg/L	1	3/12/2007 7:30:00 PM
Bromomethane	ND	2.00		µg/L	1	3/12/2007 7:30:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 E Value above quantitation range
 J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits

GeoLabs, Inc.

Reported Date:

CLIENT: Global Petroleum
Lab Order: 0703098
Project: Tk 11 & Tk 13 Dike
Lab ID: 0703098-002

Client Sample ID: Tk 13 Dike Front
Collection Date: 3/8/2007
Date Received: 3/8/2007
Matrix: WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY SW8260B						Analyst: JG
Carbon Disulfide	ND	5.00		µg/L	1	3/12/2007 7:30:00 PM
Carbon Tetrachloride	ND	2.00		µg/L	1	3/12/2007 7:30:00 PM
Chlorobenzene	ND	5.00		µg/L	1	3/12/2007 7:30:00 PM
Chloroethane	ND	5.00		µg/L	1	3/12/2007 7:30:00 PM
Chloroform	ND	5.00		µg/L	1	3/12/2007 7:30:00 PM
Chloromethane	ND	5.00		µg/L	1	3/12/2007 7:30:00 PM
cis-1,2-Dichloroethene	ND	5.00		µg/L	1	3/12/2007 7:30:00 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/12/2007 7:30:00 PM
Dibromochloromethane	ND	2.00		µg/L	1	3/12/2007 7:30:00 PM
Dibromomethane	ND	5.00		µg/L	1	3/12/2007 7:30:00 PM
Dichlorodifluoromethane	ND	5.00		µg/L	1	3/12/2007 7:30:00 PM
Ethylbenzene	ND	5.00		µg/L	1	3/12/2007 7:30:00 PM
Hexachlorobutadiene	ND	0.500		µg/L	1	3/12/2007 7:30:00 PM
Isopropylbenzene	ND	5.00		µg/L	1	3/12/2007 7:30:00 PM
Methyl Tert-Butyl Ether	ND	5.00		µg/L	1	3/12/2007 7:30:00 PM
Methylene Chloride	ND	5.00		µg/L	1	3/12/2007 7:30:00 PM
Naphthalene	ND	20.0		µg/L	1	3/12/2007 7:30:00 PM
n-Butylbenzene	ND	5.00		µg/L	1	3/12/2007 7:30:00 PM
n-Propylbenzene	ND	5.00		µg/L	1	3/12/2007 7:30:00 PM
sec-Butylbenzene	ND	5.00		µg/L	1	3/12/2007 7:30:00 PM
Styrene	ND	5.00		µg/L	1	3/12/2007 7:30:00 PM
tert-Butylbenzene	ND	5.00		µg/L	1	3/12/2007 7:30:00 PM
Tetrachloroethene	ND	5.00		µg/L	1	3/12/2007 7:30:00 PM
Toluene	ND	5.00		µg/L	1	3/12/2007 7:30:00 PM
trans-1,2-Dichloroethene	ND	5.00		µg/L	1	3/12/2007 7:30:00 PM
trans-1,3-Dichloropropene	ND	0.500		µg/L	1	3/12/2007 7:30:00 PM
Trichloroethene	ND	5.00		µg/L	1	3/12/2007 7:30:00 PM
Trichlorofluoromethane	ND	5.00		µg/L	1	3/12/2007 7:30:00 PM
Vinyl Chloride	ND	2.00		µg/L	1	3/12/2007 7:30:00 PM
Xylenes, Total	ND	5.00		µg/L	1	3/12/2007 7:30:00 PM
Surr: 1,2-Dichloroethane-d4	101	70-130		%REC	1	3/12/2007 7:30:00 PM
Surr: 4-Bromofluorobenzene	93.4	70-130		%REC	1	3/12/2007 7:30:00 PM
Surr: Dibromofluoromethane	111	70-130		%REC	1	3/12/2007 7:30:00 PM
Surr: Toluene-d8	94.4	70-130		%REC	1	3/12/2007 7:30:00 PM

CYANIDE, TOTAL BY E335.2

Cyanide, Total	ND	0.016		mg/L	1	3/9/2007
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Analyst: RP

TRIVALENT CHROMIUM IN WATER BY 200.7&350

Analyst: RP

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike Recovery outside accepted recovery limits

GeoLabs, Inc.

Reported Date:

CLIENT: Global Petroleum
Lab Order: 0703098
Project: Tk 11 & Tk 13 Dike
Lab ID: 0703098-002

Client Sample ID: Tk 13 Dike Front
Collection Date: 3/8/2007
Date Received: 3/8/2007
Matrix: WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TRIVALENT CHROMIUM IN WATER BY 200.7&350						
Trivalent Chromium	ND	0.060		mg/L	1	3/15/2007
HEXAVALENT CHROMIUM BY SM3500-CR-D						
Chromium, Hexavalent	ND	0.0500		mg/L	1	3/8/2007
TOTAL RESIDUAL CHLORINE BY HACH 8167						
Total Residual Chlorine	ND	0.162		mg/L	1	3/8/2007

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

GeoLabs, Inc.

Reported Date:

CLIENT: Global Petroleum
 Lab Order: 0703098
 Project: Tk 11 & Tk 13 Dike
 Lab ID: 0703098-003

Client Sample ID: Tk 11 Dike Stairs
 Collection Date: 3/8/2007
 Date Received: 3/8/2007
 Matrix: WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL SUSPENDED SOLIDS BY E160.2						
Total Suspended Solids	10.0	4.00		mg/L	1	3/9/2007
						Analyst: FC
TOTAL PETROLEUM HYDROCARBONS BY 8100 (8100M)						
Total Petroleum Hydrocarbons	0.908	0.215		mg/L	1	3/9/2007
Surr: o-Terphenyl	86.0	40-140		%REC	1	3/9/2007
						Analyst: KH
POLYCHLORINATED BIPHENYLS BY SW8082 (SW3510B)						
Aroclor 1016/1242	ND	0.108		µg/L	1	3/9/2007
Aroclor 1221	ND	0.108		µg/L	1	3/9/2007
Aroclor 1232	ND	0.108		µg/L	1	3/9/2007
Aroclor 1248	ND	0.108		µg/L	1	3/9/2007
Aroclor 1254	ND	0.108		µg/L	1	3/9/2007
Aroclor 1260	ND	0.108		µg/L	1	3/9/2007
Aroclor 1262	ND	0.108		µg/L	1	3/9/2007
Aroclor 1268	ND	0.108		µg/L	1	3/9/2007
Surr: Decachlorobiphenyl Sig 1	136	30-150		%REC	1	3/9/2007
Surr: Decachlorobiphenyl Sig 2	102	30-150		%REC	1	3/9/2007
Surr: Tetrachloro-m-Xylene Sig 1	92.0	30-150		%REC	1	3/9/2007
Surr: Tetrachloro-m-Xylene Sig 2	90.0	30-150		%REC	1	3/9/2007
						Analyst: GP
TOTAL METALS BY ICP - E200.7 (SW3010A)						
Antimony	ND	0.00600		mg/L	1	3/12/2007
Arsenic	ND	0.0100		mg/L	1	3/12/2007
Cadmium	ND	0.00500		mg/L	1	3/12/2007
Chromium	ND	0.0600		mg/L	1	3/12/2007
Copper	ND	0.00800		mg/L	1	3/12/2007
Iron	1.02	0.0600		mg/L	1	3/12/2007
Lead	ND	0.0150		mg/L	1	3/12/2007
Nickel	ND	0.0100		mg/L	1	3/12/2007
Selenium	ND	0.0500		mg/L	1	3/12/2007
Zinc	0.168	0.100		mg/L	1	3/12/2007
						Analyst: QS
TOTAL SILVER BY E200.7 (SW3010A)						
Silver	ND	0.00700		mg/L	1	3/12/2007
						Analyst: QS
TOTAL MERCURY BY E245.1 (SW7470A/E245.1)						
Mercury	ND	0.0002		mg/L	1	3/12/2007
						Analyst: BF

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 E Value above quantitation range
 J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits

GeoLabs, Inc.

Reported Date:

CLIENT: Global Petroleum
 Lab Order: 0703098
 Project: Tk 11 & Tk 13 Dike
 Lab ID: 0703098-003

Client Sample ID: Tk 11 Dike Stairs
 Collection Date: 3/8/2007
 Date Received: 3/8/2007
 Matrix: WATER

Analyses	Result	Def. Limit	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS BY SW8270C				(SW3510)		Analyst: ZYZ
1,2,4-Trichlorobenzene	ND	2.11		µg/L	1	3/12/2007 2:24:00 PM
1,2-Dichlorobenzene	ND	2.11		µg/L	1	3/12/2007 2:24:00 PM
1,2-Dinitrobenzene	ND	2.11		µg/L	1	3/12/2007 2:24:00 PM
1,3-Dichlorobenzene	ND	2.11		µg/L	1	3/12/2007 2:24:00 PM
1,3-Dinitrobenzene	ND	2.11		µg/L	1	3/12/2007 2:24:00 PM
1,4-Dichlorobenzene	ND	2.11		µg/L	1	3/12/2007 2:24:00 PM
1,4-Dinitrobenzene	ND	2.11		µg/L	1	3/12/2007 2:24:00 PM
2,3,4,6-Tetrachlorophenol	ND	2.11		µg/L	1	3/12/2007 2:24:00 PM
2,4,5-Trichlorophenol	ND	2.11		µg/L	1	3/12/2007 2:24:00 PM
2,4,6-Trichlorophenol	ND	2.11		µg/L	1	3/12/2007 2:24:00 PM
2,4-Dichlorophenol	ND	2.11		µg/L	1	3/12/2007 2:24:00 PM
2,4-Dimethylphenol	ND	2.11		µg/L	1	3/12/2007 2:24:00 PM
2,4-Dinitrophenol	ND	10.5		µg/L	1	3/12/2007 2:24:00 PM
2,4-Dinitrotoluene	ND	2.11		µg/L	1	3/12/2007 2:24:00 PM
2,6-Dinitrotoluene	ND	2.11		µg/L	1	3/12/2007 2:24:00 PM
2-Chloronaphthalene	ND	2.11		µg/L	1	3/12/2007 2:24:00 PM
2-Chlorophenol	ND	2.11		µg/L	1	3/12/2007 2:24:00 PM
2-Methylnaphthalene	18.1	2.11		µg/L	1	3/12/2007 2:24:00 PM
2-Methylphenol	3.49	2.11		µg/L	1	3/12/2007 2:24:00 PM
2-Nitroaniline	ND	2.11		µg/L	1	3/12/2007 2:24:00 PM
2-Nitrophenol	ND	2.11		µg/L	1	3/12/2007 2:24:00 PM
3,3'-Dichlorobenzidine	ND	2.11		µg/L	1	3/12/2007 2:24:00 PM
3-Methylphenol/4-Methylphenol	4.21	2.11		µg/L	1	3/12/2007 2:24:00 PM
3-Nitroaniline	ND	2.11		µg/L	1	3/12/2007 2:24:00 PM
4,6-Dinitro-2-Methylphenol	ND	10.5		µg/L	1	3/12/2007 2:24:00 PM
4-Bromophenyl Phenyl Ether	ND	2.11		µg/L	1	3/12/2007 2:24:00 PM
4-Chloro-3-Methylphenol	ND	2.11		µg/L	1	3/12/2007 2:24:00 PM
4-Chloroaniline	ND	2.11		µg/L	1	3/12/2007 2:24:00 PM
4-Chlorophenyl Phenyl Ether	ND	2.11		µg/L	1	3/12/2007 2:24:00 PM
4-Nitroaniline	ND	2.11		µg/L	1	3/12/2007 2:24:00 PM
4-Nitrophenol	ND	2.11		µg/L	1	3/12/2007 2:24:00 PM
Acenaphthene	ND	2.11		µg/L	1	3/12/2007 2:24:00 PM
Acenaphthylene	ND	2.11		µg/L	1	3/12/2007 2:24:00 PM
Acetophenone	ND	2.11		µg/L	1	3/12/2007 2:24:00 PM
Aniline	ND	10.5		µg/L	1	3/12/2007 2:24:00 PM
Anthracene	2.22	2.11		µg/L	1	3/12/2007 2:24:00 PM
Azobenzene	ND	10.5		µg/L	1	3/12/2007 2:24:00 PM
Benz(a)Anthracene	ND	0.211		µg/L	1	3/12/2007 2:24:00 PM
Benzidine	ND	10.5		µg/L	1	3/12/2007 2:24:00 PM
Benzo(a)Pyrene	ND	0.211		µg/L	1	3/12/2007 2:24:00 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
 H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit S Spike Recovery outside accepted recovery limits

CLIENT: Global Petroleum
 Lab Order: 0703098
 Project: Tk 11 & Tk 13 Dike
 Lab ID: 0703098-003

Client Sample ID: Tk 11 Dike Stairs
 Collection Date: 3/8/2007
 Date Received: 3/8/2007
 Matrix: WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS BY SW8270C				(SW3510)		Analyst: ZYZ
Benzo(b)Fluoranthene	ND	2.11		µg/L	1	3/12/2007 2:24:00 PM
Benzo(g,h,i)Perylene	ND	2.11		µg/L	1	3/12/2007 2:24:00 PM
Benzo(k)Fluoranthene	ND	2.11		µg/L	1	3/12/2007 2:24:00 PM
Benzyl Alcohol	ND	2.11		µg/L	1	3/12/2007 2:24:00 PM
Bis(2-Chloroethoxy)Methane	ND	2.11		µg/L	1	3/12/2007 2:24:00 PM
Bis(2-Chloroethyl)Ether	ND	2.11		µg/L	1	3/12/2007 2:24:00 PM
Bis(2-Chloroisopropyl)Ether	ND	2.11		µg/L	1	3/12/2007 2:24:00 PM
Bis(2-Ethylhexyl)Phthalate	ND	2.11		µg/L	1	3/12/2007 2:24:00 PM
Butyl Benzyl Phthalate	ND	2.11		µg/L	1	3/12/2007 2:24:00 PM
Carbazole	ND	2.11		µg/L	1	3/12/2007 2:24:00 PM
Chrysene	ND	2.11		µg/L	1	3/12/2007 2:24:00 PM
Dibenz(a,h)Anthracene	ND	0.211		µg/L	1	3/12/2007 2:24:00 PM
Dibenzofuran	ND	2.11		µg/L	1	3/12/2007 2:24:00 PM
Diethyl Phthalate	ND	2.11		µg/L	1	3/12/2007 2:24:00 PM
Dimethyl Phthalate	ND	2.11		µg/L	1	3/12/2007 2:24:00 PM
Di-n-Butyl Phthalate	ND	2.11		µg/L	1	3/12/2007 2:24:00 PM
Di-n-Octyl Phthalate	ND	2.11		µg/L	1	3/12/2007 2:24:00 PM
Fluoranthene	ND	2.11		µg/L	1	3/12/2007 2:24:00 PM
Fluorene	2.78	2.11		µg/L	1	3/12/2007 2:24:00 PM
Hexachlorobenzene	ND	0.211		µg/L	1	3/12/2007 2:24:00 PM
Hexachlorobutadiene	ND	0.211		µg/L	1	3/12/2007 2:24:00 PM
Hexachlorocyclopentadiene	ND	10.5		µg/L	1	3/12/2007 2:24:00 PM
Hexachloroethane	ND	2.11		µg/L	1	3/12/2007 2:24:00 PM
Indeno(1,2,3-cd)Pyrene	ND	0.211		µg/L	1	3/12/2007 2:24:00 PM
Isophorone	ND	2.11		µg/L	1	3/12/2007 2:24:00 PM
Naphthalene	7.96	2.11		µg/L	1	3/12/2007 2:24:00 PM
Nitrobenzene	ND	2.11		µg/L	1	3/12/2007 2:24:00 PM
N-Nitrosodimethylamine	ND	10.5		µg/L	1	3/12/2007 2:24:00 PM
N-Nitrosodi-n-Propylamine	ND	2.11		µg/L	1	3/12/2007 2:24:00 PM
N-Nitrosodiphenylamine	ND	10.5		µg/L	1	3/12/2007 2:24:00 PM
Pentachlorophenol	ND	2.11		µg/L	1	3/12/2007 2:24:00 PM
Phenanthrene	6.83	2.11		µg/L	1	3/12/2007 2:24:00 PM
Phenol	ND	2.11		µg/L	1	3/12/2007 2:24:00 PM
Pyrene	ND	2.11		µg/L	1	3/12/2007 2:24:00 PM
Pyridine	ND	10.5		µg/L	1	3/12/2007 2:24:00 PM
Surr: 2,4,6-Tribromophenol	38.7	15-110		%REC	1	3/12/2007 2:24:00 PM
Surr: 2-Fluorobiphenyl	57.7	30-130		%REC	1	3/12/2007 2:24:00 PM
Surr: 2-Fluorophenol	37.4	15-110		%REC	1	3/12/2007 2:24:00 PM
Surr: Nitrobenzene-d5	56.6	30-130		%REC	1	3/12/2007 2:24:00 PM
Surr: Phenol-d6	43.1	15-110		%REC	1	3/12/2007 2:24:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 H Holding times for preparation or analysis exceeded
 J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit
 S Spike Recovery outside accepted recovery limits

CLIENT: Global Petroleum
 Lab Order: 0703098
 Project: Tk 11 & Tk 13 Dike
 Lab ID: 0703098-003

Client Sample ID: Tk 11 Dike Stairs
 Collection Date: 3/8/2007
 Date Received: 3/8/2007
 Matrix: WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS BY SW8270C				(SW3510)		Analyst: ZYZ
Surr: Terphenyl-d14	59.0	30-130		%REC	1	3/12/2007 2:24:00 PM
VOLATILE ORGANIC COMPOUNDS BY SW8260B						Analyst: JG
1,1,1,2-Tetrachloroethane	ND	5.00		µg/L	1	3/12/2007 8:07:00 PM
1,1,1-Trichloroethane	ND	5.00		µg/L	1	3/12/2007 8:07:00 PM
1,1,2,2-Tetrachloroethane	ND	2.00		µg/L	1	3/12/2007 8:07:00 PM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	3/12/2007 8:07:00 PM
1,1-Dichloroethane	ND	5.00		µg/L	1	3/12/2007 8:07:00 PM
1,1-Dichloroethene	ND	5.00		µg/L	1	3/12/2007 8:07:00 PM
1,1-Dichloropropene	ND	5.00		µg/L	1	3/12/2007 8:07:00 PM
1,2,3-Trichlorobenzene	ND	5.00		µg/L	1	3/12/2007 8:07:00 PM
1,2,3-Trichloropropane	ND	5.00		µg/L	1	3/12/2007 8:07:00 PM
1,2,4-Trichlorobenzene	ND	5.00		µg/L	1	3/12/2007 8:07:00 PM
1,2,4-Trimethylbenzene	5.71	5.00		µg/L	1	3/12/2007 8:07:00 PM
1,2-Dibromo-3-Chloropropane	ND	5.00		µg/L	1	3/12/2007 8:07:00 PM
1,2-Dibromoethane	ND	2.00		µg/L	1	3/12/2007 8:07:00 PM
1,2-Dichlorobenzene	ND	5.00		µg/L	1	3/12/2007 8:07:00 PM
1,2-Dichloroethane	ND	2.00		µg/L	1	3/12/2007 8:07:00 PM
1,2-Dichloropropane	ND	2.00		µg/L	1	3/12/2007 8:07:00 PM
1,3,5-Trimethylbenzene	ND	5.00		µg/L	1	3/12/2007 8:07:00 PM
1,3-Dichlorobenzene	ND	5.00		µg/L	1	3/12/2007 8:07:00 PM
1,3-Dichloropropane	ND	5.00		µg/L	1	3/12/2007 8:07:00 PM
1,4-Dichlorobenzene	ND	5.00		µg/L	1	3/12/2007 8:07:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	3/12/2007 8:07:00 PM
2-Butanone	ND	10.0		µg/L	1	3/12/2007 8:07:00 PM
2-Chloroethyl Vinyl Ether	ND	5.00		µg/L	1	3/12/2007 8:07:00 PM
2-Chlorotoluene	ND	5.00		µg/L	1	3/12/2007 8:07:00 PM
2-Hexanone	ND	10.0		µg/L	1	3/12/2007 8:07:00 PM
4-Chlorotoluene	ND	5.00		µg/L	1	3/12/2007 8:07:00 PM
4-Isopropyltoluene	ND	5.00		µg/L	1	3/12/2007 8:07:00 PM
4-Methyl-2-Pentanone	ND	5.00		µg/L	1	3/12/2007 8:07:00 PM
Acetone	ND	50.0		µg/L	1	3/12/2007 8:07:00 PM
Acrolein	ND	50.0		µg/L	1	3/12/2007 8:07:00 PM
Acrylonitrile	ND	50.0		µg/L	1	3/12/2007 8:07:00 PM
Benzene	ND	5.00		µg/L	1	3/12/2007 8:07:00 PM
Bromobenzene	ND	5.00		µg/L	1	3/12/2007 8:07:00 PM
Bromochloromethane	ND	2.00		µg/L	1	3/12/2007 8:07:00 PM
Bromodichloromethane	ND	2.00		µg/L	1	3/12/2007 8:07:00 PM
Bromoform	ND	2.00		µg/L	1	3/12/2007 8:07:00 PM
Bromomethane	ND	2.00		µg/L	1	3/12/2007 8:07:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 E Value above quantitation range
 J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits

GeoLabs, Inc.

Reported Date:

CLIENT: Global Petroleum
 Lab Order: 0703098
 Project: Tk 11 & Tk 13 Dike
 Lab ID: 0703098-003

Client Sample ID: Tk 11 Dike Stairs
 Collection Date: 3/8/2007
 Date Received: 3/8/2007
 Matrix: WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY SW8260B						Analyst: JG
Carbon Disulfide	ND	5.00		µg/L	1	3/12/2007 8:07:00 PM
Carbon Tetrachloride	ND	2.00		µg/L	1	3/12/2007 8:07:00 PM
Chlorobenzene	ND	5.00		µg/L	1	3/12/2007 8:07:00 PM
Chloroethane	ND	5.00		µg/L	1	3/12/2007 8:07:00 PM
Chloroform	ND	5.00		µg/L	1	3/12/2007 8:07:00 PM
Chloromethane	ND	5.00		µg/L	1	3/12/2007 8:07:00 PM
cis-1,2-Dichloroethene	ND	5.00		µg/L	1	3/12/2007 8:07:00 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/12/2007 8:07:00 PM
Dibromochloromethane	ND	2.00		µg/L	1	3/12/2007 8:07:00 PM
Dibromomethane	ND	5.00		µg/L	1	3/12/2007 8:07:00 PM
Dichlorodifluoromethane	ND	5.00		µg/L	1	3/12/2007 8:07:00 PM
Ethylbenzene	ND	5.00		µg/L	1	3/12/2007 8:07:00 PM
Hexachlorobutadiene	ND	0.500		µg/L	1	3/12/2007 8:07:00 PM
Isopropylbenzene	ND	5.00		µg/L	1	3/12/2007 8:07:00 PM
Methyl Tert-Butyl Ether	ND	5.00		µg/L	1	3/12/2007 8:07:00 PM
Methylene Chloride	ND	5.00		µg/L	1	3/12/2007 8:07:00 PM
Naphthalene	ND	20.0		µg/L	1	3/12/2007 8:07:00 PM
n-Butylbenzene	ND	5.00		µg/L	1	3/12/2007 8:07:00 PM
n-Propylbenzene	ND	5.00		µg/L	1	3/12/2007 8:07:00 PM
sec-Butylbenzene	ND	5.00		µg/L	1	3/12/2007 8:07:00 PM
Styrene	ND	5.00		µg/L	1	3/12/2007 8:07:00 PM
tert-Butylbenzene	ND	5.00		µg/L	1	3/12/2007 8:07:00 PM
Tetrachloroethene	ND	5.00		µg/L	1	3/12/2007 8:07:00 PM
Toluene	ND	5.00		µg/L	1	3/12/2007 8:07:00 PM
trans-1,2-Dichloroethene	ND	5.00		µg/L	1	3/12/2007 8:07:00 PM
trans-1,3-Dichloropropene	ND	0.500		µg/L	1	3/12/2007 8:07:00 PM
Trichloroethene	ND	5.00		µg/L	1	3/12/2007 8:07:00 PM
Trichlorofluoromethane	ND	5.00		µg/L	1	3/12/2007 8:07:00 PM
Vinyl Chloride	ND	2.00		µg/L	1	3/12/2007 8:07:00 PM
Xylenes, Total	ND	5.00		µg/L	1	3/12/2007 8:07:00 PM
Surr: 1,2-Dichloroethane-d4	106	70-130		%REC	1	3/12/2007 8:07:00 PM
Surr: 4-Bromofluorobenzene	93.4	70-130		%REC	1	3/12/2007 8:07:00 PM
Surr: Dibromofluoromethane	111	70-130		%REC	1	3/12/2007 8:07:00 PM
Surr: Toluene-d8	94.0	70-130		%REC	1	3/12/2007 8:07:00 PM

CYANIDE, TOTAL BY E335.2

Cyanide, Total	ND	0.016		mg/L	1	3/9/2007
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Analyst: RP

TRIVALENT CHROMIUM IN WATER BY 200.7&350

Analyst: RP

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike Recovery outside accepted recovery limits

GeoLabs, Inc.

Reported Date:

CLIENT: Global Petroleum
Lab Order: 0703098
Project: Tk 11 & Tk 13 Dike
Lab ID: 0703098-003

Client Sample ID: Tk 11 Dike Stairs
Collection Date: 3/8/2007
Date Received: 3/8/2007
Matrix: WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TRIVALENT CHROMIUM IN WATER BY 200.7&350						
Trivalent Chromium	ND	0.060		mg/L	1	3/15/2007
HEXAVALENT CHROMIUM BY SM3500-CR-D						
Chromium, Hexavalent	ND	0.0500		mg/L	1	3/8/2007
TOTAL RESIDUAL CHLORINE BY HACH 8167						
Total Residual Chlorine	ND	0.162		mg/L	1	3/8/2007

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 E Value above quantitation range
 J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits

GeoLabs, Inc.

Reported Date:

CLIENT: Global Petroleum
 Lab Order: 0703098
 Project: Tk 11 & Tk 13 Dike
 Lab ID: 0703098-004

Client Sample ID: Tk 13 Dike Pump
 Collection Date: 3/8/2007
 Date Received: 3/8/2007
 Matrix: WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL SUSPENDED SOLIDS BY E160.2						
Total Suspended Solids	11.0	4.00		mg/L	1	3/9/2007
						Analyst: FC
TOTAL PETROLEUM HYDROCARBONS BY 8100						
Total Petroleum Hydrocarbons	0.635	0.230		mg/L	1	3/9/2007
						(8100M) Analyst: KH
Surr: o-Terphenyl	83.0	40-140		%REC	1	3/9/2007
POLYCHLORINATED BIPHENYLS BY SW8082						
						(SW3510B) Analyst: GP
Aroclor 1016/1242	ND	0.104		µg/L	1	3/9/2007
Aroclor 1221	ND	0.104		µg/L	1	3/9/2007
Aroclor 1232	ND	0.104		µg/L	1	3/9/2007
Aroclor 1248	ND	0.104		µg/L	1	3/9/2007
Aroclor 1254	ND	0.104		µg/L	1	3/9/2007
Aroclor 1260	ND	0.104		µg/L	1	3/9/2007
Aroclor 1262	ND	0.104		µg/L	1	3/9/2007
Aroclor 1268	ND	0.104		µg/L	1	3/9/2007
Surr: Decachlorobiphenyl Sig 1	82.0	30-150		%REC	1	3/9/2007
Surr: Decachlorobiphenyl Sig 2	70.0	30-150		%REC	1	3/9/2007
Surr: Tetrachloro-m-Xylene Sig 1	90.0	30-150		%REC	1	3/9/2007
Surr: Tetrachloro-m-Xylene Sig 2	88.0	30-150		%REC	1	3/9/2007
TOTAL METALS BY ICP - E200.7						
						(SW3010A) Analyst: QS
Antimony	ND	0.00600		mg/L	1	3/12/2007
Arsenic	ND	0.0100		mg/L	1	3/12/2007
Cadmium	ND	0.00500		mg/L	1	3/12/2007
Chromium	ND	0.0600		mg/L	1	3/12/2007
Copper	ND	0.00800		mg/L	1	3/12/2007
Iron	1.50	0.0600		mg/L	1	3/12/2007
Lead	ND	0.0150		mg/L	1	3/12/2007
Nickel	ND	0.0100		mg/L	1	3/12/2007
Selenium	ND	0.0500		mg/L	1	3/12/2007
Zinc	0.176	0.100		mg/L	1	3/12/2007
TOTAL SILVER BY E200.7						
						(SW3010A) Analyst: QS
Silver	ND	0.00700		mg/L	1	3/12/2007
TOTAL MERCURY BY E245.1						
						(SW7470A/E245.1) Analyst: BF
Mercury	ND	0.0002		mg/L	1	3/12/2007

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 E Value above quantitation range
 J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits

CLIENT: Global Petroleum
 Lab Order: 0703098
 Project: Tk 11 & Tk 13 Dike
 Lab ID: 0703098-004

Client Sample ID: Tk 13 Dike Pump
 Collection Date: 3/8/2007
 Date Received: 3/8/2007
 Matrix: WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS BY SW8270C						
				(SW3510)		Analyst: ZYZ
1,2,4-Trichlorobenzene	ND	2.08		µg/L	1	3/12/2007 3:01:00 PM
1,2-Dichlorobenzene	ND	2.08		µg/L	1	3/12/2007 3:01:00 PM
1,2-Dinitrobenzene	ND	2.08		µg/L	1	3/12/2007 3:01:00 PM
1,3-Dichlorobenzene	ND	2.08		µg/L	1	3/12/2007 3:01:00 PM
1,3-Dinitrobenzene	ND	2.08		µg/L	1	3/12/2007 3:01:00 PM
1,4-Dichlorobenzene	ND	2.08		µg/L	1	3/12/2007 3:01:00 PM
1,4-Dinitrobenzene	ND	2.08		µg/L	1	3/12/2007 3:01:00 PM
2,3,4,6-Tetrachlorophenol	ND	2.08		µg/L	1	3/12/2007 3:01:00 PM
2,4,5-Trichlorophenol	ND	2.08		µg/L	1	3/12/2007 3:01:00 PM
2,4,6-Trichlorophenol	ND	2.08		µg/L	1	3/12/2007 3:01:00 PM
2,4-Dichlorophenol	ND	2.08		µg/L	1	3/12/2007 3:01:00 PM
2,4-Dimethylphenol	ND	2.08		µg/L	1	3/12/2007 3:01:00 PM
2,4-Dinitrophenol	ND	10.4		µg/L	1	3/12/2007 3:01:00 PM
2,4-Dinitrotoluene	ND	2.08		µg/L	1	3/12/2007 3:01:00 PM
2,6-Dinitrotoluene	ND	2.08		µg/L	1	3/12/2007 3:01:00 PM
2-Chloronaphthalene	ND	2.08		µg/L	1	3/12/2007 3:01:00 PM
2-Chlorophenol	ND	2.08		µg/L	1	3/12/2007 3:01:00 PM
2-Methylnaphthalene	6.86	2.08		µg/L	1	3/12/2007 3:01:00 PM
2-Methylphenol	4.55	2.08		µg/L	1	3/12/2007 3:01:00 PM
2-Nitroaniline	ND	2.08		µg/L	1	3/12/2007 3:01:00 PM
2-Nitrophenol	ND	2.08		µg/L	1	3/12/2007 3:01:00 PM
3,3'-Dichlorobenzidine	ND	2.08		µg/L	1	3/12/2007 3:01:00 PM
3-Methylphenol/4-Methylphenol	6.47	2.08		µg/L	1	3/12/2007 3:01:00 PM
3-Nitroaniline	ND	2.08		µg/L	1	3/12/2007 3:01:00 PM
4,6-Dinitro-2-Methylphenol	ND	10.4		µg/L	1	3/12/2007 3:01:00 PM
4-Bromophenyl Phenyl Ether	ND	2.08		µg/L	1	3/12/2007 3:01:00 PM
4-Chloro-3-Methylphenol	ND	2.08		µg/L	1	3/12/2007 3:01:00 PM
4-Chloroaniline	ND	2.08		µg/L	1	3/12/2007 3:01:00 PM
4-Chlorophenyl Phenyl Ether	ND	2.08		µg/L	1	3/12/2007 3:01:00 PM
4-Nitroaniline	ND	2.08		µg/L	1	3/12/2007 3:01:00 PM
4-Nitrophenol	ND	2.08		µg/L	1	3/12/2007 3:01:00 PM
Acenaphthene	ND	2.08		µg/L	1	3/12/2007 3:01:00 PM
Acenaphthylene	ND	2.08		µg/L	1	3/12/2007 3:01:00 PM
Acetophenone	ND	2.08		µg/L	1	3/12/2007 3:01:00 PM
Aniline	ND	10.4		µg/L	1	3/12/2007 3:01:00 PM
Anthracene	ND	2.08		µg/L	1	3/12/2007 3:01:00 PM
Azobenzene	ND	10.4		µg/L	1	3/12/2007 3:01:00 PM
Benz(a)Anthracene	ND	0.208		µg/L	1	3/12/2007 3:01:00 PM
Benzidine	ND	10.4		µg/L	1	3/12/2007 3:01:00 PM
Benzo(a)Pyrene	ND	0.208		µg/L	1	3/12/2007 3:01:00 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
 H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit S Spike Recovery outside accepted recovery limits

GeoLabs, Inc.

Reported Date:

CLIENT:	Global Petroleum	Client Sample ID:	Tk 13 Dike Pump
Lab Order:	0703098	Collection Date:	3/8/2007
Project:	Tk 11 & Tk 13 Dike	Date Received:	3/8/2007
Lab ID:	0703098-004	Matrix:	WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS BY SW8270C				(SW3510)		Analyst: ZYZ
Benzo(b)Fluoranthene	ND	2.08		µg/L	1	3/12/2007 3:01:00 PM
Benzo(g,h,i)Perylene	ND	2.08		µg/L	1	3/12/2007 3:01:00 PM
Benzo(k)Fluoranthene	ND	2.08		µg/L	1	3/12/2007 3:01:00 PM
Benzyl Alcohol	ND	2.08		µg/L	1	3/12/2007 3:01:00 PM
Bis(2-Chloroethoxy)Methane	ND	2.08		µg/L	1	3/12/2007 3:01:00 PM
Bis(2-Chloroethyl)Ether	ND	2.08		µg/L	1	3/12/2007 3:01:00 PM
Bis(2-Chloroisopropyl)Ether	ND	2.08		µg/L	1	3/12/2007 3:01:00 PM
Bis(2-Ethylhexyl)Phthalate	ND	2.08		µg/L	1	3/12/2007 3:01:00 PM
Butyl Benzyl Phthalate	ND	2.08		µg/L	1	3/12/2007 3:01:00 PM
Carbazole	ND	2.08		µg/L	1	3/12/2007 3:01:00 PM
Chrysene	ND	2.08		µg/L	1	3/12/2007 3:01:00 PM
Dibenz(a,h)Anthracene	ND	0.208		µg/L	1	3/12/2007 3:01:00 PM
Dibenzofuran	ND	2.08		µg/L	1	3/12/2007 3:01:00 PM
Diethyl Phthalate	ND	2.08		µg/L	1	3/12/2007 3:01:00 PM
Dimethyl Phthalate	ND	2.08		µg/L	1	3/12/2007 3:01:00 PM
Di-n-Butyl Phthalate	ND	2.08		µg/L	1	3/12/2007 3:01:00 PM
Di-n-Octyl Phthalate	ND	2.08		µg/L	1	3/12/2007 3:01:00 PM
Fluoranthene	ND	2.08		µg/L	1	3/12/2007 3:01:00 PM
Fluorene	ND	2.08		µg/L	1	3/12/2007 3:01:00 PM
Hexachlorobenzene	ND	0.208		µg/L	1	3/12/2007 3:01:00 PM
Hexachlorobutadiene	ND	0.208		µg/L	1	3/12/2007 3:01:00 PM
Hexachlorocyclopentadiene	ND	10.4		µg/L	1	3/12/2007 3:01:00 PM
Hexachloroethane	ND	2.08		µg/L	1	3/12/2007 3:01:00 PM
Indeno(1,2,3-cd)Pyrene	ND	0.208		µg/L	1	3/12/2007 3:01:00 PM
Isophorone	ND	2.08		µg/L	1	3/12/2007 3:01:00 PM
Naphthalene	3.30	2.08		µg/L	1	3/12/2007 3:01:00 PM
Nitrobenzene	ND	2.08		µg/L	1	3/12/2007 3:01:00 PM
N-Nitrosodimethylamine	ND	10.4		µg/L	1	3/12/2007 3:01:00 PM
N-Nitrosodi-n-Propylamine	ND	2.08		µg/L	1	3/12/2007 3:01:00 PM
N-Nitrosodiphenylamine	ND	10.4		µg/L	1	3/12/2007 3:01:00 PM
Pentachlorophenol	ND	2.08		µg/L	1	3/12/2007 3:01:00 PM
Phenanthrene	4.43	2.08		µg/L	1	3/12/2007 3:01:00 PM
Phenol	ND	2.08		µg/L	1	3/12/2007 3:01:00 PM
Pyrene	ND	2.08		µg/L	1	3/12/2007 3:01:00 PM
Pyridine	ND	10.4		µg/L	1	3/12/2007 3:01:00 PM
Surr: 2,4,6-Tribromophenol	39.2	15-110		%REC	1	3/12/2007 3:01:00 PM
Surr: 2-Fluorobiphenyl	60.5	30-130		%REC	1	3/12/2007 3:01:00 PM
Surr: 2-Fluorophenol	37.0	15-110		%REC	1	3/12/2007 3:01:00 PM
Surr: Nitrobenzene-d5	61.1	30-130		%REC	1	3/12/2007 3:01:00 PM
Surr: Phenol-d6	42.9	15-110		%REC	1	3/12/2007 3:01:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike Recovery outside accepted recovery limits

CLIENT: Global Petroleum	Client Sample ID: Tk 13 Dike Pump
Lab Order: 0703098	Collection Date: 3/8/2007
Project: Tk 11 & Tk 13 Dike	Date Received: 3/8/2007
Lab ID: 0703098-004	Matrix: WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
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SEMIVOLATILE ORGANICS BY SW8270C				(SW3510)		Analyst: ZYZ
Surr: Terphenyl-d14	60.0	30-130		%REC	1	3/12/2007 3:01:00 PM

VOLATILE ORGANIC COMPOUNDS BY SW8260B						Analyst: JG
1,1,1,2-Tetrachloroethane	ND	5.00		µg/L	1	3/12/2007 8:44:00 PM
1,1,1-Trichloroethane	ND	5.00		µg/L	1	3/12/2007 8:44:00 PM
1,1,2,2-Tetrachloroethane	ND	2.00		µg/L	1	3/12/2007 8:44:00 PM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	3/12/2007 8:44:00 PM
1,1-Dichloroethane	ND	5.00		µg/L	1	3/12/2007 8:44:00 PM
1,1-Dichloroethene	ND	5.00		µg/L	1	3/12/2007 8:44:00 PM
1,1-Dichloropropene	ND	5.00		µg/L	1	3/12/2007 8:44:00 PM
1,2,3-Trichlorobenzene	ND	5.00		µg/L	1	3/12/2007 8:44:00 PM
1,2,3-Trichloropropane	ND	5.00		µg/L	1	3/12/2007 8:44:00 PM
1,2,4-Trichlorobenzene	ND	5.00		µg/L	1	3/12/2007 8:44:00 PM
1,2,4-Trimethylbenzene	ND	5.00		µg/L	1	3/12/2007 8:44:00 PM
1,2-Dibromo-3-Chloropropane	ND	5.00		µg/L	1	3/12/2007 8:44:00 PM
1,2-Dibromoethane	ND	2.00		µg/L	1	3/12/2007 8:44:00 PM
1,2-Dichlorobenzene	ND	5.00		µg/L	1	3/12/2007 8:44:00 PM
1,2-Dichloroethane	ND	2.00		µg/L	1	3/12/2007 8:44:00 PM
1,2-Dichloropropane	ND	2.00		µg/L	1	3/12/2007 8:44:00 PM
1,3,5-Trimethylbenzene	ND	5.00		µg/L	1	3/12/2007 8:44:00 PM
1,3-Dichlorobenzene	ND	5.00		µg/L	1	3/12/2007 8:44:00 PM
1,3-Dichloropropane	ND	5.00		µg/L	1	3/12/2007 8:44:00 PM
1,4-Dichlorobenzene	ND	5.00		µg/L	1	3/12/2007 8:44:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	3/12/2007 8:44:00 PM
2-Butanone	ND	10.0		µg/L	1	3/12/2007 8:44:00 PM
2-Chloroethyl Vinyl Ether	ND	5.00		µg/L	1	3/12/2007 8:44:00 PM
2-Chlorotoluene	ND	5.00		µg/L	1	3/12/2007 8:44:00 PM
2-Hexanone	ND	10.0		µg/L	1	3/12/2007 8:44:00 PM
4-Chlorotoluene	ND	5.00		µg/L	1	3/12/2007 8:44:00 PM
4-Isopropyltoluene	ND	5.00		µg/L	1	3/12/2007 8:44:00 PM
4-Methyl-2-Pentanone	ND	5.00		µg/L	1	3/12/2007 8:44:00 PM
Acetone	ND	50.0		µg/L	1	3/12/2007 8:44:00 PM
Acrolein	ND	50.0		µg/L	1	3/12/2007 8:44:00 PM
Acrylonitrile	ND	50.0		µg/L	1	3/12/2007 8:44:00 PM
Benzene	ND	5.00		µg/L	1	3/12/2007 8:44:00 PM
Bromobenzene	ND	5.00		µg/L	1	3/12/2007 8:44:00 PM
Bromochloromethane	ND	2.00		µg/L	1	3/12/2007 8:44:00 PM
Bromodichloromethane	ND	2.00		µg/L	1	3/12/2007 8:44:00 PM
Bromoform	ND	2.00		µg/L	1	3/12/2007 8:44:00 PM
Bromomethane	ND	2.00		µg/L	1	3/12/2007 8:44:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike Recovery outside accepted recovery limits

CLIENT: Global Petroleum
 Lab Order: 0703098
 Project: Tk 11 & Tk 13 Dike
 Lab ID: 0703098-004

Client Sample ID: Tk 13 Dike Pump
 Collection Date: 3/8/2007
 Date Received: 3/8/2007
 Matrix: WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY SW8260B						Analyst: JG
Carbon Disulfide	ND	5.00		µg/L	1	3/12/2007 8:44:00 PM
Carbon Tetrachloride	ND	2.00		µg/L	1	3/12/2007 8:44:00 PM
Chlorobenzene	ND	5.00		µg/L	1	3/12/2007 8:44:00 PM
Chloroethane	ND	5.00		µg/L	1	3/12/2007 8:44:00 PM
Chloroform	ND	5.00		µg/L	1	3/12/2007 8:44:00 PM
Chloromethane	ND	5.00		µg/L	1	3/12/2007 8:44:00 PM
cis-1,2-Dichloroethene	ND	5.00		µg/L	1	3/12/2007 8:44:00 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/12/2007 8:44:00 PM
Dibromochloromethane	ND	2.00		µg/L	1	3/12/2007 8:44:00 PM
Dibromomethane	ND	5.00		µg/L	1	3/12/2007 8:44:00 PM
Dichlorodifluoromethane	ND	5.00		µg/L	1	3/12/2007 8:44:00 PM
Ethylbenzene	ND	5.00		µg/L	1	3/12/2007 8:44:00 PM
Hexachlorobutadiene	ND	0.500		µg/L	1	3/12/2007 8:44:00 PM
Isopropylbenzene	ND	5.00		µg/L	1	3/12/2007 8:44:00 PM
Methyl Tert-Butyl Ether	ND	5.00		µg/L	1	3/12/2007 8:44:00 PM
Methylene Chloride	ND	5.00		µg/L	1	3/12/2007 8:44:00 PM
Naphthalene	ND	20.0		µg/L	1	3/12/2007 8:44:00 PM
n-Butylbenzene	ND	5.00		µg/L	1	3/12/2007 8:44:00 PM
n-Propylbenzene	ND	5.00		µg/L	1	3/12/2007 8:44:00 PM
sec-Butylbenzene	ND	5.00		µg/L	1	3/12/2007 8:44:00 PM
Styrene	ND	5.00		µg/L	1	3/12/2007 8:44:00 PM
tert-Butylbenzene	ND	5.00		µg/L	1	3/12/2007 8:44:00 PM
Tetrachloroethene	ND	5.00		µg/L	1	3/12/2007 8:44:00 PM
Toluene	ND	5.00		µg/L	1	3/12/2007 8:44:00 PM
trans-1,2-Dichloroethene	ND	5.00		µg/L	1	3/12/2007 8:44:00 PM
trans-1,3-Dichloropropene	ND	0.500		µg/L	1	3/12/2007 8:44:00 PM
Trichloroethene	ND	5.00		µg/L	1	3/12/2007 8:44:00 PM
Trichlorofluoromethane	ND	5.00		µg/L	1	3/12/2007 8:44:00 PM
Vinyl Chloride	ND	2.00		µg/L	1	3/12/2007 8:44:00 PM
Xylenes, Total	ND	5.00		µg/L	1	3/12/2007 8:44:00 PM
Surr: 1,2-Dichloroethane-d4	107	70-130		%REC	1	3/12/2007 8:44:00 PM
Surr: 4-Bromofluorobenzene	93.7	70-130		%REC	1	3/12/2007 8:44:00 PM
Surr: Dibromofluoromethane	112	70-130		%REC	1	3/12/2007 8:44:00 PM
Surr: Toluene-d8	99.1	70-130		%REC	1	3/12/2007 8:44:00 PM

CYANIDE, TOTAL BY E335.2

Cyanide, Total	ND	0.016		mg/L	1	3/9/2007
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Analyst: RP

TRIVALENT CHROMIUM IN WATER BY 200.7&350

Analyst: RP

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike Recovery outside accepted recovery limits

GeoLabs, Inc.

Reported Date:

CLIENT: Global Petroleum
Lab Order: 0703098
Project: Tk 11 & Tk 13 Dike
Lab ID: 0703098-004

Client Sample ID: Tk 13 Dike Pump
Collection Date: 3/8/2007
Date Received: 3/8/2007
Matrix: WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TRIVALENT CHROMIUM IN WATER BY 200.7&350						
Trivalent Chromium	ND	0.060		mg/L	1	3/15/2007
HEXAVALENT CHROMIUM BY SM3500-CR-D						
Chromium, Hexavalent	ND	0.0500		mg/L	1	3/8/2007
TOTAL RESIDUAL CHLORINE BY HACH 8167						
Total Residual Chlorine	ND	0.162		mg/L	1	3/8/2007

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

CHAIN OF CUSTODY

GeoLabs CHAIN NUMBER:

CHECKED ITEMS MUST BE FILLED IN	24/48 HOUR RUSHES ONLY WITH APPROVAL OF DIRECTOR OR LAB DIRECTOR
GeoLabs, Inc. Environmental Laboratories 45 Johnson Lane Braintree, MA 02184 Office: 781-848-7844 Fax: 781-848-7811	Turnaround Time RUSH: 24hrs <input type="checkbox"/> STANDARD: <input checked="" type="checkbox"/>
	0703098 Page 1 of 8 SPECIAL INSTRUCTIONS

Note: JOBS WITH INCOMPLETELY FILLED OUT CHAINS WILL NOT BE RUN. CHAIN WILL BE RETURNED TO CLIENT FOR COMPLETION

TYPE OF CLIENT: BUS <input checked="" type="checkbox"/> LAB <input type="checkbox"/> HOMEOWNER <input type="checkbox"/>		NOTE: HOMEOWNERS, LAW FIRMS MUST PAY WHEN DROPPING OFF SAMPLES	
Client: X Global Petroleum Revo Address: X 101 Lee Burbank P.O. BOXES Revere, MA Phone: X 617 660 1150 Fax: 617 660 1190 Contact: X Ashwin Patel E-mail:	Project Number: X TR-11 DIKE Project Location: X 101 Lee Burbank Hwy Revo Revere, MA Purchase Order #:	CHANGES REQUESTED? Y N BY: DATE	Received on ice? <input type="checkbox"/>
Collected By: X Don Jonik Global		ANALYSES REQUESTED	

SAMPLE ID	COLLECTION			SAMPLE LOCATION	CONTAINER					GEOLABS SAMPLE NUMBER	TSS	TRC	TPH	CN	VOC	TEMPERATURE	LAB PH
	DATE	TIME	SAMP BY		TYPE	QUANT	MATRIX	COMP	GRAB								
11A	3/8/07	1300	DJ	11 DIKE	P	1			X		3098-001	X					
11B			DJ	(Pump)	P	1			X				X				
11C			DJ		G	1			X	3			X				
11D			DJ		G	1			X	3			X				
11E			DJ		P	1			X	5				X			
11F			DJ		V	1			X	1				X			
11G			DJ		V	1			X	1				X			
11H			DJ		V	1			X	1				X			
11I	Verbal results given to								X					X			

MATRIX CODES: GW = Ground Water WW = Wastewater DW = Drinking Water SL = Sludge S = Soil A = Air O = Oil OT = Other	CONTAINER CODES: A = Amber B = Bag G = Glass P = Plastic S = Summa Canister O = Other V = VOA	PRESERVATIVE CODES: 1 = HCl 5 = NaOH 2 = HNO ₃ 6 = MeOH 3 = H ₂ SO ₄ 7 = ICE 4 = Na ₂ S ₂ O ₃	Relinquished By: [Signature] Date/Time: 3/8/07 PRINT: DM Jonik Relinquished By: [Signature] Date/Time: 3/8/07	Received By: [Signature] Date/Time: 3/8/07 3:35
Terms: Payment due within 30 days unless other arrangements are made. Past due balances subject to interest and collection costs.			Relinquished By: [Signature] Date/Time: 3/8/07 4:20	Received By GeoLabs: [Signature] Date/Time: 3/8/07 4:30

CHAIN OF CUSTODY

GeoLabs CHAIN NUMBER:

CHECKED ITEMS MUST BE FILLED IN

24/48 HOUR RUSHES ONLY WITH APPROVAL OF D. KATLER OR LAB DIRECTOR

GeoLabs, Inc.
 Environmental Laboratories
 45 Johnson Lane
 Braintree, MA 02184
 Office: 781-848-7844
 Fax: 781-848-7811

Turnaround Time

RUSH: 24hrs 48hrs 72hrs

STANDARD: 5-7 Days

Page 2 of 8

SPECIAL INSTRUCTIONS

Metals: SI, AS, CD, CR + T and CS, CU, PB, Hg, NI, SE, Ag, ZN, FE

Note: JOBS WITH INCOMPLETELY FILLED OUT CHAINS WILL NOT BE RUN. CHAIN WILL BE RETURNED TO CLIENT FOR COMPLETION

TYPE OF CLIENT: BUS LAB HOMEOWNER NOTE: HOMEOWNERS, LAW FIRMS MUST PAY WHEN DROPPING OFF SAMPLES

Client: X Global Petroleum Refco Project Number: X TRU DIKE CHANGES REQUESTED? Y N
 Address: X 101 Lee Burbonk Project Location: X 101 Lee Burbonk BY DATE
Revere, ma Revere, ma
 Phone: X 617 660 1150 Purchase Order #: Revere, ma
 Fax: 617 660 1190 Collected By: X Don Janke Received on ice?
 Contact: X Ashvin Pat Global

SAMPLE ID	COLLECTION			SAMPLE LOCATION	CONTAINER					GEOLABS SAMPLE NUMBER	ANALYSES REQUESTED											
	DATE	TIME	SAMP BY		TYPE	QUANT	MATRIX	COMP	GRAB		PRES	SVOC	PCB	METALS	CR6	TEMPERATURE	LABPH					
11J	3/8/07	1300	DJ	TRU DIKE	G	1					3098-001	X										
11K			DJ	pump	G	1						X										
11L			DJ		G	1							X									
11M			DJ		G	1							X									
11N			DJ		P	1									X							
11O			DJ		P	1										X						

Verbal results given to _____ by (date/initial)

MATRIX CODES: GW = Ground Water WW = Wastewater DW = Drinking Water SL = Sludge S = Soil A = Air O = Oil OT = Other	CONTAINER CODES: A = Amber B = Bag G = Glass P = Plastic S = Summa Canister O = Other V = VOA	PRESERVATIVE CODES: 1 = HCl 5 = NaOH 2 = HNO ₃ 6 = MeOH 3 = H ₂ SO ₄ 7 = ICE 4 = Na ₂ S ₂ O ₃	Relinquished By: <u>Don Janke</u> Date/Time: <u>3/8/07</u> PRINT: <u>Don Janke</u>	Received By: <u>Don Janke</u> Date/Time: <u>3/8/07 3:35</u>
Terms: Payment due within 30 days unless other arrangements are made. Past due balances subject to interest and collection costs.			Relinquished By: <u>Don Janke</u> Date/Time: <u>3/8/07 4:20</u>	Received By: <u>Don Janke</u> Date/Time: <u>3/8/07 4:20</u>

CHAIN OF CUSTODY

GeoLabs CHAIN NUMBER:

CHECKED ITEMS MUST BE FILLED IN

24/48 HOUR RUSHES ONLY WITH APPROVAL OF DON KANIER, DIR. OF LAB DIRECTOR

GeoLabs, Inc.
 Environmental Laboratories
 45 Johnson Lane
 Braintree, MA 02184
 Office: 781-848-7844
 Fax: 781-848-7811

Turnaround Time
 RUSH: 24hrs **STANDARD**
 5:00 PM - 5:00 PM

Page 3 of 8
SPECIAL INSTRUCTIONS

Note: JOBS WITH INCOMPLETELY FILLED OUT CHAINS WILL NOT BE RUN. CHAIN WILL BE RETURNED TO CLIENT FOR COMPLETION

TYPE OF CLIENT: BUS LAB HOMEOWNER NOTE: HOMEOWNERS, LAW FIRMS MUST PAY WHEN DROPPING OFF SAMPLES

Client: X Global Petroleum Revco Project Number: X Tk13 DIKE CHANGES REQUESTED? Y N
 Address: X 101 Lee Burbank Ave R.O. BOXES Project Location: X 101 Lee Burbank Ave BY DATE
Revere, MA
 Phone: X 617 666 1150 Revere, MA
 Fax: 617 666 1190 Purchase Order #:
 Contact: X Ashwin PATEL Collected By: X Don Janik Received on ice?
 E-mail: GeoLabs

SAMPLE ID	COLLECTION			SAMPLE LOCATION	CONTAINER					GEOLABS SAMPLE NUMBER	ANALYSES REQUESTED							
	DATE	TIME	SAMPLED BY		TYPE	QUANT	MATRIX	COMP	GRAB		PRES	TSS	TCR	TPH	CN	VOC	TEMPERATURE	LAB PH
13A	3/8/07	1330	DJ	Tk13 DIKE	P	1			X		3098-008	X						
13B			DJ	Front	P	1			X				X					
13C			DJ		G	1			X	3				X				
13D			DJ		G	1			X	3				X				
13E			DJ		P	1			X	5				X				
13F			DJ		V	1			X	1				X				
13G					V	1			X	1				X				
13H					V	1			X	1				X				

13I Verbal results given to V by (date/initial) V

MATRIX CODES: GW = Ground Water WW = Wastewater DW = Drinking Water SL = Sludge S = Soil A = Air O = Oil OT = Other	CONTAINER CODES: A = Amber B = Bag G = Glass P = Plastic S = Summa Canister O = Other V = VOA Terms: Payment due within 30 days unless other arrangements are made. Past due balances subject to interest and collection costs.	PRESERVATIVE CODES: 1 = HCl 5 = NaOH 2 = HNO ₃ 6 = MeOH 3 = H ₂ SO ₄ 7 = ICE 4 = Na ₂ S ₂ O ₃	Relinquished By: <u>Don Janik</u> Date/Time: <u>3/8/07</u> PRINT: <u>Don Janik</u> Relinquished By: <u>Don Janik</u> Date/Time: <u>3/8/07</u>	Received By: <u>Don Janik</u> Date/Time: <u>3/8/07</u> Received By: <u>Don Janik</u> Date/Time: <u>3/8/07</u>
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CHAIN OF CUSTODY

GeoLabs CHAIN NUMBER:

CHECKED ITEMS MUST BE FILLED IN

24/48 HOUR RUSHES ONLY WITH APPROVAL OF D. KAHLER OR LAB DIRECTOR

GeoLabs, Inc.
 Environmental Laboratories
 45 Johnson Lane
 Braintree, MA 02184
 Office: 781-848-7844
 Fax: 781-848-7811

Turnaround Time

RUSH: 24hrs 48hrs 72hrs

STANDARD: 5-7 Days

Page 4 of 8

SPECIAL INSTRUCTIONS

Metals: Sb, As, Cd, Cr + total Cr, Cu, Pb, Hg, Ni, Se, Ag, Zn, Fe

Note: JOBS WITH INCOMPLETELY FILLED OUT CHAINS WILL NOT BE RUN. CHAIN WILL BE RETURNED TO CLIENT FOR COMPLETION

TYPE OF CLIENT: BUS LAB HOMEOWNER **NOTE: HOMEOWNERS, LAW FIRMS MUST PAY WHEN DROPPING OFF SAMPLES**

Client: <u>X Global Revo</u>	Project Number: <u>X TR13 DIKE</u>	CHANGES REQUESTED? <u>Y</u> <u>N</u>
Address: <u>X 101 Lee Burbank</u> P.O. BOXES	Project Location: <u>X 101 Lee Burbank Hwy</u>	BY _____ DATE _____
<u>Revo Revere, MA</u>	<u>Revo</u>	
Phone: <u>X 617 660 1150</u>	Purchase Order #: _____	Received on Ice? <input type="checkbox"/>
Fax: <u>617 660 1190</u>	Collected By: <u>X Don Tomk</u>	
Contact: <u>X Ashwin Patel</u>	<u>elwbol</u>	
E-mail: _____		

SAMPLE ID	COLLECTION			SAMPLE LOCATION	CONTAINER					GEOLABS SAMPLE NUMBER	ANALYSES REQUESTED						TEMPERATURE	LAB PH
	DATE	TIME	SAMP BY		TYPE	QUANT	MATRIX	COMP	GRAB		PRES	SVGC	PCB	METALS	CRG			
13 J	3/8/07	1230	DJ	TR13 DIKE	G	1			X	3098-002	X							
13 K			DJ	FRONT	G	1			X		X							
13 L			DJ		G	1			X			X						
13 M			DJ		G	1			X			X						
13 N			DJ		P	1			X 2				X					
13 O			DJ		P	1			X					X				

Verbal results given to _____ by (date/initial)

MATRIX CODES: GW = Ground Water WW = Wastewater DW = Drinking Water SL = Sludge S = Soil A = Air O = Oil OT = Other	CONTAINER CODES: A = Amber B = Bag G = Glass P = Plastic S = Summa Canister O = Other V = VOA	PRESERVATIVE CODES: 1 = HCl 5 = NaOH 2 = HNO ₃ 6 = MeOH 3 = H ₂ SO ₄ 7 = ICE 4 = Na ₂ S ₂ O ₃	Relinquished By: <u>Don Tomk</u> Date/Time: <u>3/8/07</u> PRINT <u>Don Tomk</u>	Received By: <u>Ken McKenna</u> Date/Time: <u>3/8/07 3:35</u>
Terms: Payment due within 30 days unless other arrangements are made. Past due balances subject to interest and collection costs.			Relinquished By: <u>Ken McKenna</u> Date/Time: <u>3/8/07 4:20</u>	Received By GeoLabs: <u>Ken McKenna</u> Date/Time: <u>3/8/07 4:30</u>

CHAIN OF CUSTODY

GeoLabs CHAIN NUMBER:

CHECKED ITEMS MUST BE FILLED IN

24 HOUR RUSHES ONLY WITH APPROVAL OF D. KAHLER OR LAB DIRECTOR

GeoLabs, Inc.
 Environmental Laboratories
 45 Johnson Lane
 Braintree, MA 02184
 Office: 781-848-7844
 Fax: 781-848-7811

Turnaround Time
 RUSH: 24hrs STANDARD:
 48hrs 5-7 Days

Page 5 of 8
 SPECIAL INSTRUCTIONS

Note: JOBS WITH INCOMPLETELY FILLED OUT CHAINS WILL NOT BE RUN. CHAIN WILL BE RETURNED TO CLIENT FOR COMPLETION

TYPE OF CLIENT: BUS LAB HOMEOWNER NOTE: HOMEOWNERS, LAW FIRMS MUST PAY WHEN DROPPING OFF SAMPLES

Client: X Global Revo
 Address: X 101 Lee Burbank P.O. BOXES
 Revere, MA
 Phone: X 617 660 1150
 Fax: 617 660 1190
 Contact: X Ashwin Patel
 E-mail:

Project Number: X TK11
 Project Location: X 101 Lee Burbank
 Revere, MA
 Purchase Order #:
 Collected By: X Don Jorvik
 (-Libal)

CHANGES REQUESTED? Y N
 BY DATE
 Received on ice?

SAMPLE ID	COLLECTION			SAMPLE LOCATION	CONTAINER					GEOLABS SAMPLE NUMBER	ANALYSES REQUESTED											
	DATE	TIME	SAMPLED BY		TYPE	QUANT	MATRIX	COMP	GRAB		PRES	TSS	TRC	TPH	CN	VOC	TEMPERATURE	LABPH				
11AA	3/8/07	1400	DJ	TK11 Dike	P	1			X		3088-003	X										
11BB			DJ	STAMS	P	1			X				X									
11CC			DJ		G	1			X	3				X								
11DD			DJ		G	1			X	3				X								
11EE			DJ		P	1			X	5				X								
11FF			DJ		V	1			X	1												
11GG			DJ		V	1			X	1												
11HH			DJ		V	1			X	1												

11II Verbal results given to V by (date/initial)

MATRIX CODES:
 GW = Ground Water
 WW = Wastewater
 DW = Drinking Water
 SL = Sludge
 S = Soil A = Air
 O = Oil OT = Other

CONTAINER CODES:
 A = Amber B = Bag
 G = Glass P = Plastic
 S = Summa Canister
 O = Other V = VOA

PRESERVATIVE CODES:
 1 = HCl 5 = NaOH
 2 = HNO₃ 6 = MeOH
 3 = H₂SO₄ 7 = ICE
 4 = Na₂S₂O₃

Relinquished By: [Signature] Date/Time: 3/8/07
 PRINT: Don Jorvik
 Relinquished By: [Signature] Date/Time: 3/8/07
 4:20

Received By: [Signature] Date/Time: 3/8/07 3:35
 Received By: [Signature] Date/Time: 3/8/07 4:30

CHAIN OF CUSTODY

GeoLabs CHAIN NUMBER:

CHECKED ITEMS MUST BE FILLED IN

24 HOUR RUSHES ONLY WITH APPROVAL OF D. KATLER OR THE DIRECTOR

GeoLabs, Inc.
 Environmental Laboratories
 45 Johnson Lane
 Braintree, MA 02184
 Office: 781-848-7844
 Fax: 781-848-7811

Turnaround Time
 RUSH: 24hrs 48hrs 72hrs
 STANDARD: 5-7 Days

Page 6 of 8
SPECIAL INSTRUCTIONS
 Metals: Sb, As, Cd, Cr+T+V, CA, Cu, Pb, Hg, Ni, SE, Ag, Zn, FE

Note: JOBS WITH INCOMPLETELY FILLED OUT CHAINS WILL NOT BE RUN. CHAIN WILL BE RETURNED TO CLIENT FOR COMPLETION

TYPE OF CLIENT: BUS LAB HOMEOWNER **NOTE: HOMEOWNERS, LAW FIRMS MUST PAY WHEN DROPPING OFF SAMPLES**

Client: X Global Recs Project Number: X TK11 DKE
 Address: X 101 Lee Burbank Ave Project Location: X 101 Lee Burbank Ave
Revere, MA Revere, MA
 Phone: X 617 660 1150 Purchase Order #: Revere, MA
 Fax: 617 660 1190 Collected By: X Don Jamik
 Contact: X Ashvin Patel Global
 E-mail:

CHANGES REQUESTED? Y N
 BY DATE
 Received on ice?
ANALYSES REQUESTED

SAMPLE ID	COLLECTION			SAMPLE LOCATION	CONTAINER					GEOLABS SAMPLE NUMBER	S V O C	P C B	M P T A S	C R B	TEMPERATURE	LAB PH
	DATE	TIME	SAMPLE BY		TYPE	QUANT	MATRIX	COMP	GRAB							
11 JJ	3/8/07	14:30	DJ	TK11 DKE	G	1				X						
11 KK			DJ	SPARROW	G	1				X						
11 LL			DJ		G	1				X		X				
11 MM			DJ		G	1				X		X				
11 NN			DJ		P	1				X	2		X			
11 OO			DJ		P	1				X			X			

Verbal results given to _____ by (date/initial)

MATRIX CODES: GW = Ground Water, WW = Wastewater, DW = Drinking Water, SL = Sludge, S = Soil, A = Air, O = Oil, OT = Other
CONTAINER CODES: A = Amber, B = Bag, G = Glass, P = Plastic, S = Summa Canister, O = Other, V = VOA
PRESERVATIVE CODES: 1 = HCl, 2 = HNO₃, 3 = H₂SO₄, 4 = Na₂S₂O₃, 5 = NaOH, 6 = MeOH, 7 = ICE
 Relinquished By: Don Jamik Date/Time: 3/8/07
 Received By: Ken McLean Date/Time: 3/8/07 3:35
 Relinquished By: Don Jamik Date/Time: 3/8/07 4:30
 Received By GeoLabs: Donella Baily Date/Time: 3/8/07 4:30
 Terms: Payment due within 30 days unless other arrangements are made. Past due balances subject to interest and collection costs.

CHAIN OF CUSTODY

GeoLabs CHAIN NUMBER:

GeoLabs, Inc.
 Environmental Laboratories
 45 Johnson Lane
 Braintree, MA 02184
 Office: 781-848-7844
 Fax: 781-848-7811

Turnaround Time

RUSH: 24hrs 48hrs 72hrs

STANDARD: 5-7 Days

Page 8 of 8

SPECIAL INSTRUCTIONS

Metals: SB, AS, CD, CS + Total Cr
 CU, PD, Hg, NI, SE, Ag, Zn, Fe

Note: JOBS WITH INCOMPLETELY FILLED OUT CHAINS WILL NOT BE RUN. CHAIN WILL BE RETURNED TO CLIENT FOR COMPLETION

TYPE OF CLIENT: BUS LAB HOMEOWNER **NOTE: HOMEOWNERS, LAW FIRMS MUST PAY WHEN DROPPING OFF SAMPLES**

Client: X Global Revco Project Number: X TK 13 Dike CHANGES REQUESTED? Y N

Address: X 101 Lee Burbank P.O. BOXES Project Location: X 101 Lee Burbank BY DATE

Revere, MA

Phone: X 617 660 1150 Purchase Order #: Collected By: X Don Tomk Received on ice?

Fax: 617 660 1190 Global

Contact: X Ashum Patel E-mail:

ANALYSES REQUESTED

SAMPLE ID	COLLECTION			SAMPLE LOCATION	CONTAINER					GEOLABS SAMPLE NUMBER	SVC	PCB	METALS	CR6	TEMPERATURE	LABPH
	DATE	TIME	SAMP BY		TYPE	QUANT	MATRIX	COMP	GRAB							
13 JJ	3/8/07	1500	DJ	TK13 Dike	G	1				X						
13 KK			DJ	Pump	G	1				X						
13 LL			DJ		G	1				X						
13 mm			DJ		G	1				X						
13 NN			DJ		P	1				X						
13 OO			DJ		P	1				X						

Verbal results given to _____ by (date/initial) _____

MATRIX CODES: GW = Ground Water WW = Wastewater DW = Drinking Water SL = Sludge S = Soil A = Air O = Oil OT = Other	CONTAINER CODES: A = Amber B = Bag G = Glass P = Plastic S = Summa Canister O = Other V = VOA	PRESERVATIVE CODES: 1 = HCl 5 = NaOH 2 = HNO ₃ 6 = MeOH 3 = H ₂ SO ₄ 7 = ICE 4 = Na ₂ S ₂ O ₃	Relinquished By: <u>Don Tomk</u> Date/Time: <u>3/8/07</u> PRINT: <u>Don Tomk</u> Relinquished By: _____	Received By: <u>Barbara Kean</u> Date/Time: <u>3/8/07 3:35</u> Received By: _____
Terms: Payment due within 30 days unless other arrangements are made. Past due balances subject to interest and collection costs.			Relinquished By: <u>Don Tomk</u> Date/Time: <u>3/8/07 4:20</u>	Received By GeoLabs: <u>Barbara Kean</u> Date/Time: <u>3/8/07 4:30</u>

Certified: MA, NH, RI, CT, NY, NJ, PA

Appendix C
Site Locus Map



SITE LOCATION

1:25,000

0 2,000
Feet

Based on USGS Topographic Map for Boston North & Lynn, MA Quadrangle. Revised 1985
Circles indicate 500-foot and half-mile radii

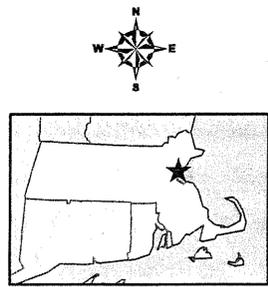


FIGURE 1
SITE LOCUS MAP

Global Revco Terminal
101 Lee Burbank Highway
Revere, MA

Tighe & Bond
March 2007

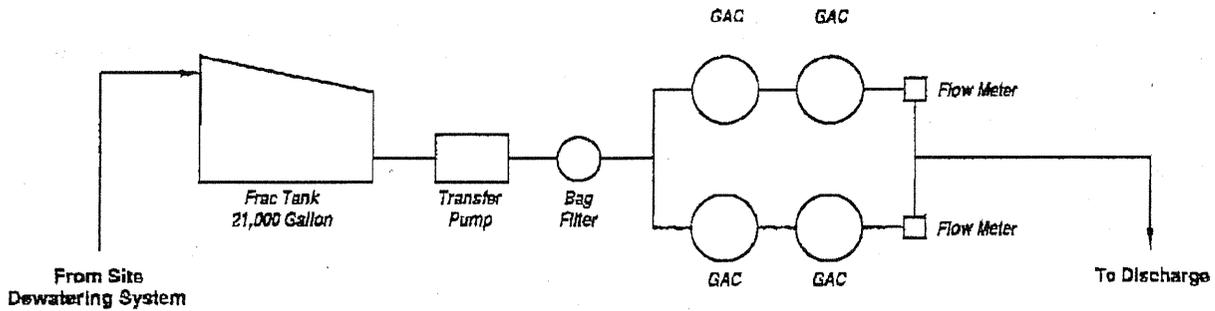
Appendix D

Schematic of Proposed Treatment System

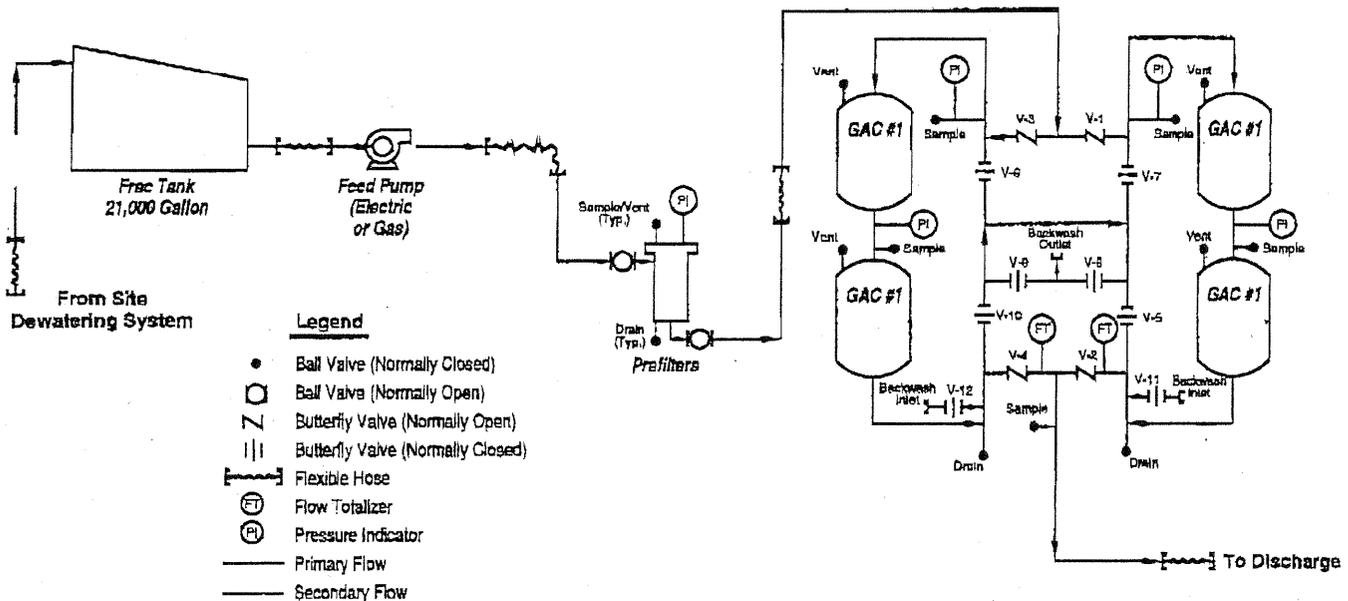


SERVICE TECH, INC.

Activated Carbon Engineering, Sales and Service



**Process Flow Diagram
Dewatering Treatment System (Typical)
Pound Vessels**



**Piping & Instrumentation Diagram
Dewatering Treatment System (Typical)
Pound Vessels**

Appendix E

Copy of NPDES Permit No. MA0003298

AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Clean Water Act as amended, (33 U.S.C. §§1251 *et seq.*; the "CWA", and the Massachusetts Clean Waters Act, as amended, (M.G.L. Chap. 21, §§26-53),

Global REVCO Terminal, LLC

is authorized to discharge from a facility located at

**Global REVCO Terminal, LLC
101 and 186 Lee Burbank Highway
Revere, MA 02151**

to receiving waters named

**Chelsea River/Mystic River Watershed (MA71)
and
Sales Creek/Winthrop Harbor (MA70)**

in accordance with effluent limitations, monitoring requirements and other conditions set forth herein.

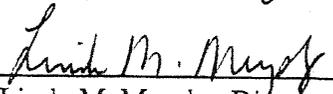
This permit shall become effective sixty days from the date of signature.

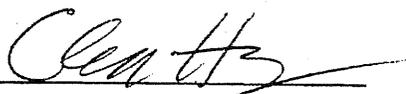
This permit and the authorization to discharge expire at midnight, five (5) years from the effective date.

This permit supersedes the permit issued on March 6, 1998.

This permit consists of 14 pages in Part I including effluent limitations, monitoring requirements, and 35 pages in Part II including General Conditions and Definitions.

Signed this 30 day of June, 2005


Linda M. Murphy, Director
Office of Ecosystem Protection
Environmental Protection Agency
Boston, MA


Glenn Haas, Director
Division of Watershed Management
Department of Environmental Protection
Commonwealth of Massachusetts
Boston, MA

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

- During the period beginning on the effective date and lasting through the expiration date, the permittee is authorized to discharge treated storm water runoff from the Global REVCO Terminal, LLC facility through Outfall Serial Number 001 to the Chelsea River. Such discharge shall: 1) be limited and monitored by the permittee as specified below; and 2) not cause a violation of the State Water Quality Standards of the receiving water.

Effluent Characteristic	Units	Discharge Limitation		Monitoring Requirements ⁽¹⁾	
		Average Monthly	Maximum Daily	Measurement Frequency	Sample Type
Flow Rate ⁽³⁾	gpm	----	75	When Discharging	Estimate
Total Flow ⁽⁴⁾	Mgal/ Month	Report Monthly Total	----	When Discharging	Estimate
Total Suspended Solids (TSS)	mg/L	30	100	2/Month ⁽²⁾	Grab
Oil and Grease (O&G) ⁽⁵⁾	mg/L	----	15	2/Month ⁽²⁾	Grab
pH	S.U.	----	6.5 to 8.5 ⁽⁶⁾	2/Month ⁽²⁾	Grab

See page 6 for explanation of footnotes

Part I.A.1, Continued

Effluent Characteristic	Units	Discharge Limitation		Monitoring Requirements ⁽¹⁾	
		Average Monthly	Maximum Daily	Measurement Frequency	Sample Type
Polynuclear Aromatic Hydrocarbons (PAHs) ⁽⁷⁾					
Benzo(a)anthracene	µg/L	----	Report	Quarterly ⁽²⁾	Grab
Benzo(a)pyrene	µg/L	----	Report	Quarterly ⁽²⁾	Grab
Benzo(b)fluoranthene	µg/L	----	Report	Quarterly ⁽²⁾	Grab
Benzo(k)fluoranthene	µg/L	----	Report	Quarterly ⁽²⁾	Grab
Chrysene	µg/L	----	Report	Quarterly ⁽²⁾	Grab
Dibenzo(a,h)anthracene	µg/L	----	Report	Quarterly ⁽²⁾	Grab
Indeno(1,2,3-cd)pyrene	µg/L	----	Report	Quarterly ⁽²⁾	Grab
Naphthalene	µg/L	----	Report	Quarterly ⁽²⁾	Grab
Volatile Organic Compounds (VOCs)					
Benzene	µg/L	----	51	Quarterly ⁽²⁾	Grab
Toluene	µg/L	----	Report	Quarterly ⁽²⁾	Grab
Ethylbenzene	µg/L	----	Report	Quarterly ⁽²⁾	Grab
Total Xylenes	µg/L	----	Report	Quarterly ⁽²⁾	Grab
Methyl Tertiary-Butyl Ether (MTBE)	µg/L	----	Report	Quarterly ⁽²⁾	Grab

See page 6 for explanation of footnotes

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

2. During the period beginning on the effective date and lasting through the expiration date, the permittee is authorized to discharge treated storm water runoff from the Global REVCO Terminal, LLC facility through Outfall Serial Number 005 to Sales Creek. Such discharge shall: 1) be limited and monitored by the permittee as specified below; and 2) not cause a violation of the State Water Quality Standards of the receiving water.

Effluent Characteristic	Units	Discharge Limitation		Monitoring Requirements ⁽¹⁾	
		Average Monthly	Maximum Daily	Measurement Frequency	Sample Type
Flow Rate ⁽³⁾	gpm	----	500	When Discharging	Estimate
Total Flow ⁽⁴⁾	Mgal/ Month	Report Monthly Total	----	When Discharging	Estimate
Total Suspended Solids (TSS)	mg/L	30	100	2/Month ⁽²⁾	Grab
Oil and Grease (O&G) ⁽⁵⁾	mg/L	----	15	2/Month ⁽²⁾	Grab
pH	S.U.	----	6.5 to 8.5 ⁽⁶⁾	2/Month ⁽²⁾	Grab

See page 6 for explanation of footnotes

Part I.A.2, Continued

Effluent Characteristic	Units	Discharge Limitation		Monitoring Requirements ⁽¹⁾	
		Average Monthly	Maximum Daily	Measurement Frequency	Sample Type
Polynuclear Aromatic Hydrocarbons (PAHs) ⁽⁷⁾					
Benzo(a)anthracene	µg/L	----	Report	Quarterly ⁽²⁾	Grab
Benzo(a)pyrene	µg/L	----	Report	Quarterly ⁽²⁾	Grab
Benzo(b)fluoranthene	µg/L	----	Report	Quarterly ⁽²⁾	Grab
Benzo(k)fluoranthene	µg/L	----	Report	Quarterly ⁽²⁾	Grab
Chrysene	µg/L	----	Report	Quarterly ⁽²⁾	Grab
Dibenzo(a,h)anthracene	µg/L	----	Report	Quarterly ⁽²⁾	Grab
Indeno(1,2,3-cd)pyrene	µg/L	----	Report	Quarterly ⁽²⁾	Grab
Naphthalene	µg/L	----	Report	Quarterly ⁽²⁾	Grab
Volatile Organic Compounds (VOCs)					
Benzene	µg/L	----	51	Quarterly ⁽²⁾	Grab
Toluene	µg/L	----	Report	Quarterly ⁽²⁾	Grab
Ethylbenzene	µg/L	----	Report	Quarterly ⁽²⁾	Grab
Total Xylenes	µg/L	----	Report	Quarterly ⁽²⁾	Grab
Methyl Tertiary-Butyl Ether (MTBE)	µg/L	----	Report	Quarterly ⁽²⁾	Grab

See page 6 for explanation of footnotes

Footnotes:

1. All samples shall be collected from a storm event that is greater than 0.1 inches in magnitude and that occurs at least 72 hours from the previously measurable (i.e., greater than 0.1 inch rainfall) storm event. All samples are to be grab samples taken within thirty (30) minutes of the initiation of the discharge from the outfall(s) where practicable, but in no case later than within the first hour of discharge from the outfall(s). Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location: after treatment in the Oil/Water (O/W) Separator but before the effluent is discharged into and/or mixes with the Chelsea River and/or Sales Creek.
2. Sampling frequency of 2/month is defined as the sampling of two (2) storm event (as defined above in Footnote No. 1) in each calendar month. Sampling frequency of quarterly is defined as the sampling of one (1) storm event (as defined above in Footnote No. 1) in each quarter. Quarters are defined as the interval of time between the months of: January through March, inclusive; April through June, inclusive; July through September, inclusive; and October through December, inclusive. **Quarterly sampling shall be performed concurrently with one of the monthly monitoring events.** The permittee shall submit the results to EPA and MADEP of any additional testing done to that required herein, if it is conducted in accordance with EPA approved methods consistent with the provisions of 40 CFR §122.41(1)(4)(ii).
3. For Flow Rate, the maximum daily value represents the estimated maximum instantaneous flow rate identified by the facility as passing through the Oil/Water (O/W) Separator for each day that storm water is discharged during the reporting period. The maximum instantaneous flow rate, which is to be reported in the units of gallons per minute (gpm), shall be based upon the estimated flow rate passing through the flow reduction device installed by the facility to control the rate of flow entering the O/W Separator.
4. For Total Flow, the value reported represents the estimated sum of the flow for each day that storm water is discharged during that month. The total monthly flow rate shall be determined based upon the estimated flow rate passing through the flow reduction device and the estimated total number of hours that storm water is discharged during the reporting period. Total Flow shall be reported in the units of millions of gallons/month (Mgal/month). The permittee shall also report the total number of days during the reporting period in which there was a discharge from the outfall(s) (to be noted on DMR form under "Event Total" parameter).
5. O&G is to be measured using EPA Method 1664
6. See Part I.A.4., Page 7
7. See Part I.A.17., Page 8

Part 1.A. (Continued)

3. The discharges either individually or in combination shall not cause a violation of State Water Quality Standards of the receiving waters.
4. The pH of the effluent shall not be less than 6.5 nor greater than 8.5 at any time unless these values are exceeded as a result of natural causes.
5. The discharge shall not cause objectionable discoloration of the receiving waters.
6. The discharge shall not contain a visible oil sheen, foam, nor floating solids at any time.
7. The discharge shall not contain materials in concentrations or combinations which are hazardous or toxic to human health, aquatic life of the receiving surface waters or which would impair the uses designated by its classification.
8. There shall be no discharge of tank bottom water and/or bilge water alone or in combination with storm water discharge or other wastewater.
9. The discharge shall not impart color, taste, turbidity, toxicity, radioactivity or other properties which cause those waters to be unsuitable for the designated uses and characteristics ascribed to their use.
10. Notwithstanding specific conditions of this permit, the effluent must not lower the quality of any classified body of water below such classification, or lower the existing quality of any body of water if the existing quality is higher than the classification.
11. The permittee shall inspect, operate, and maintain the O/W Separator(s) at the facility to ensure that the Effluent Limitations and Conditions contained in this permit are met. The permittee shall ensure that all components of the facility's Storm Water Pollution Prevention Plan including those which specifically address the operation and maintenance of the O/W Separator(s) and other components of the storm water conveyance system are complied with.
12. Chemicals (i.e. disinfecting agents, detergents, emulsifiers, etc.), bioremedial agents including microbes shall not be added to the collection and treatment systems without prior approval by the U. S. Environmental Protection Agency (EPA) and the Massachusetts Department of Environmental Protection (MADEP) to prevent hydrocarbon and/or particulate matter carryover into the Chelsea River and/or Sales Creek.

13. There shall be no discharge of any sludge and/or bottom deposits from any storage tank(s), basin(s), and/or diked area(s) to the receiving waters. Examples of storage tanks and/or basins include, but are not limited to: primary catch basins, stilling basins, O/W Separators, petroleum product storage tanks, baffled storage tanks collecting spills, and tank truck loading rack sumps.
14. The bypass of storm water runoff, wash water, or water used at the facility is prohibited except where necessary to avoid loss of life, injury, or severe property damage. Each bypass shall be sampled for all of the effluent characteristics identified in Part I.A.1 and/or Part I.A.2 of this permit (i.e., monthly and quarterly) and the results reported to EPA within forty-five (45) days of the initiation of the bypass. These bypass reporting requirements are in addition to those already identified in 40 Code of Federal Regulations (CFR) §122.41(m).
15. EPA may modify this permit in accordance with EPA regulations in 40 Code of Federal Regulations (CFR) §122.62 and §122.63 to incorporate more stringent effluent limitations, increase the frequency of analyses, or impose additional sampling and analytical requirements.
16. The appearance of any size sheen attributable to the discharge from this facility shall be reported immediately by the permittee to the appropriate U.S. Coast Guard Officer in accordance with Section 311 of the Clean Water Act (CWA). This requirement is in addition to any reporting requirements contained in this National Pollutant Discharge Elimination System (NPDES) permit.
17. Reporting of Polynuclear Aromatic Hydrocarbons (PAHs) will be based on the Minimum Level (ML) of reporting. The ML is defined as the level at which the entire analytical system gives recognizable mass spectra and acceptable calibration points. This level corresponds to the lower points at which the calibration curve is determined based on the analysis of the pollutant(s) of concern in reagent water. PAH analysis shall include the following compounds and their respective MLs as identified in parenthesis for each compound: benzo(a)anthracene (<0.05 µg/L), benzo(a)pyrene (<2.0 µg/L), benzo(b)fluoranthene (<0.1 µg/L), benzo(k)fluoranthene (<2.0 µg/L), chrysene (<5.0 µg/L), dibenzo(a,h)anthracene (<0.1 µg/L), indeno(1,2,3-cd)pyrene (<0.15 µg/L), and naphthalene (0.2 µg/L).
18. The permittee shall attach a copy of the laboratory case narrative to the respective Discharge Monitoring Report Form submitted to EPA and MADEP for each sampling event reported. The laboratory case narrative shall include a copy of the laboratory data sheets for each analyses (identifying the test method, the analytical results, and the detection limits for each analyte) and provide a brief discussion of whether all appropriate QA/QC procedures were met and were within acceptable limits.

19. All existing manufacturing, commercial, mining and silvicultural dischargers must notify the Director as soon as they know or have reason to believe:
- a. That any activity has occurred or will occur which would result in the discharge, on a routine basis, of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"
- (1) One hundred micrograms per liter (100 ug/l);
 - (2) Two hundred micrograms per liter (200 ug/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/l) for 2,4-dinitrophenol; and one milligram per liter (1 mg/l) for antimony;
 - (3) Five (5) times the maximum concentration value reported for that pollutant in the permit application in accordance with 40 C.F.R. §122.21(g)(7); or
 - (4) Any other notification level established by the Director in accordance with 40 C.F.R. §122.44(f).
- b. That any activity has occurred or will occur which would result in the discharge, on a non-routine or infrequent basis, of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"
- (1) Five hundred micrograms per liter (500 ug/l);
 - (2) One milligram per liter (1 mg/l) for antimony;
 - (3) Ten (10) times the maximum concentration value reported for that pollutant in the permit application in accordance with 40 C.F.R. §122.21(g)(7).
 - (4) Any other notification level established by the Director in accordance with 40 C.F.R. §122.44(f).
- c. That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant which was not reported in the permit application.
20. Wastewater Treatment System Flow Control
- a. Written notification and approval by EPA and the MADEP shall be required, should the permittee propose changes to either the storm water conveyance or treatment systems which have the potential to cause the maximum design flow rate through the O/W Separator to be exceeded.

21. Toxics Control

- a. The permittee shall not discharge any pollutant or combination of pollutants in toxic amounts.
- b. Any toxic components of the effluent shall not result in any demonstrable harm to aquatic life or violate any state or federal water quality standard which has been or may be promulgated. Upon promulgation of any such standard, this permit may be revised or amended in accordance with such standards.

22. Hydrostatic Test Water Discharges

- a. The hydrostatic test water shall be monitored as described below and treated through the O/W separator prior to being discharged through Outfall 005 to Sales Creek. In addition, the flow of hydrostatic test water into the O/W separator shall be controlled to prevent it from exceeding the maximum design flow rate of the separator.
- b. At a minimum, four (4) representative samples shall be taken of the hydrostatic test water: one (1) grab sample of the influent test water; and three (3) serial-grab samples of the hydrostatic test water effluent. The influent grab sample shall be taken approximately midway through the fill segment of the hydrostatic test procedure. The three (3) effluent serial-grab samples shall be taken over the duration of the entire discharge segment of the hydrostatic test procedure. The first effluent serial-grab sample shall be taken during the initial phase of discharge; the second around the midpoint; and the third near the end of the discharge. The effluent serial-grab samples shall be obtained before discharge into the O/W Separator and/or mixing with any storm water or other non-storm water flow.

These influent and effluent samples shall be analyzed for the following parameters:

1. Total Suspended Solids (TSS)
2. Oil & Grease (O&G)
3. pH
4. Dissolved Oxygen (DO)
5. Total Residual Chlorine
6. Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX)
7. MTBE
8. PAHs

c. Testing for total residual chlorine is only required when potable water or a similar source of water which is likely to contain a residual chlorine concentration is used for hydrostatic testing. Testing for MTBE is only required if the tank undergoing testing was recently (i.e., within three years of the proposed testing date) used to store gasoline.

d. During discharge (i.e., approximately at the same time the three effluent grab samples are taken), the flow exiting through the O/W Separator or outfall should be observed in order to prevent the inadvertent release of hydrocarbons to the receiving water(s). In the event that there is evidence of such a release (e.g., visible oil sheen and/or noticeable increase in turbidity of discharge water), the permittee shall immediately halt the discharge of hydrostatic test water and take steps to correct the problem.

e. Any changes to these procedures must be approved by EPA and the MADEP prior to their implementation.

f. The permittee shall submit a letter/report to EPA, the MADEP, and the Director of Public Works of the municipality in which the facility is located, summarizing the results of the hydrostatic test within forty-five (45) days of completion of the test. This report shall contain: the date(s) during which the hydrostatic testing occurred; the volume of hydrostatic test water discharged; a copy of the laboratory data sheets for each analyses, providing the test method, the detection limits for each analyte, and a brief discussion of whether all appropriate QA/QC procedures were met and were within acceptable limits; and a brief discussion of the overall test results and how they relate to the Effluent Limitations in this permit.

g. The U.S. Environmental Protection Agency shall reserve the right to re-open the permit, in accordance with 40 CFR §122.62(a)(2), to examine hydrostatic test water discharges in the event that sampling results indicate that the standards for the assigned classification of Sales Creek might not be attained using only an O/W Separator for treatment of such discharges.

B. BEST MANAGEMENT PRACTICES/STORM WATER POLLUTION PREVENTION PLAN

1. The permittee shall maintain, update and implement the Storm Water Pollution Prevention Plan (SWPPP) to account for any changes that occur at the facility which could impact the plan. The permittee shall be required to provide annual certification to EPA and the MADEP documenting that the previous year's inspections and maintenance activities were conducted, results recorded, records maintained, and that the facility is in compliance with the SWPPP.
2. In order to reduce the transportation of particulate matter to storm water conveyance and treatment devices at this facility, the permittee shall amend its existing SWPPP to include sweeping of paved areas at a frequency of no less than twice per year. At least one of the sweeping events shall occur in the early spring (i.e., March to April) to maximize the removal of solids which may have accumulated at the facility over the winter.

3. The permittee shall reevaluate its Best Management Practices (BMPs) for preventing and controlling the discharge of TSS. The results of this evaluation shall be submitted to EPA concurrent with the first annual certification by each facility of its SWPPP. Specifically, as part of this evaluation each facility shall be required to discuss and identify whether any changes, modifications and/or improvements are needed at the facility for the following items: 1) the effectiveness of the existing BMPs for reducing TSS loading; 2) the effectiveness of the current operation and maintenance performed on storm water conveyance and treatment systems for reducing TSS loading; 3) the effectiveness of surface soil conditions in the tank farm areas for reducing TSS loading; 4) the effectiveness of the existing treatment technology (i.e., Oil/Water Separator) for reducing TSS loading; and 5) the effectiveness of additional treatment technologies (and cost) which could be implemented to further reduce TSS levels.
4. The permittee shall submit a letter to the EPA and the MADEP notifying these agencies of the facility's intent to store ethanol, if applicable. Such notification shall be sent to the EPA and the MADEP at least ninety (90) days prior to the date that the facility intends to begin storing ethanol. The permittee shall also amend its existing SWPPP to identify what special provisions and conditions the facility will use for containing and treating ethanol, should it be spilled. This amendment shall take into account the analytical challenges for monitoring of this compound and the limited effectiveness of an Oil/Water Separator in treating this compound. The portions of the amended SWPPP shall accompany the ethanol notification letter sent to the EPA and the MADEP.
5. The certification shall be signed in accordance with the requirements identified in 40 CFR §122.22 and a copy of the certification will be sent each year to EPA and MADEP as well as appended to the SWPPP within thirty (30) days of the annual anniversary of the effective date of the Draft Permit. The permittee shall keep a copy of the most recent SWPPP at the facility and shall make it available for inspection by EPA and MADEP.
6. A copy of the SWPPP shall be provided to the municipality in which the facility is located upon written request by such municipality to the facility.

C. REOPENER CLAUSES

1. This permit shall be modified, or alternatively, revoked and reissued, to comply with any applicable standard or limitation promulgated or approved under sections 301(b)(2)(C) and (d), 304(b)(2), and 307(a)(2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
 - a. Contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
 - b. Controls any pollutants not limited in the permit.

2. This permit may be modified to incorporate new analytical methods and/or additional treatment for ethanol in the event that this facility elects to store ethanol in the future, and/or the changes to the SWPPP are not effective and protective in controlling the discharge of this compound to the receiving water.

D. MONITORING AND REPORTING

Monitoring results obtained during the previous month shall be summarized for each month and reported on separate Discharge Monitoring Report Form(s) postmarked no later than the 15th day of the month following the effective date of the permit.

Signed and dated originals of these, and all other reports and evaluations required herein, shall be submitted to EPA at the following address:

EPA New England - Region 1
Water Technical Unit (SEW)
P.O. Box 8127
Boston, Massachusetts 02114

In addition, a second copy of each hydrostatic testing letter/report submitted in accordance with this permit shall be sent to EPA at the following address:

EPA New England - Region 1
OEP/Industrial Permits Branch
1 Congress Street, Suite 1100 (CIP)
Boston, Massachusetts 02114

Signed and dated Discharge Monitoring Report Form(s) and all other reports required by this permit shall also be submitted to the State at the following addresses:

Massachusetts Department of Environmental Protection
Northeast Regional Office
Bureau of Waste Prevention
One Winter Street
Boston, MA 02108

and

Massachusetts Department of Environmental Protection
Division of Watershed Management
Surface Water Discharge Permit Program
627 Main Street, 2nd Floor
Worcester, Massachusetts 01608

E. STATE PERMIT CONDITIONS

1. This Discharge Permit is issued jointly by the EPA and the MADEP under Federal and State law, respectively. As such, all the terms and conditions of this permit are hereby incorporated into and constitute a discharge permit issued by the Commissioner of the MA DEP pursuant to M.G.L. Chap.21, §43.
2. Each Agency shall have the independent right to enforce the terms and conditions of this Permit. Any modification, suspension or revocation of this Permit shall be effective only with respect to the Agency taking such action, and shall not affect the validity or status of this Permit as issued by the other Agency, unless and until each Agency has concurred in writing with such modification, suspension or revocation. In the event any portion of this Permit is declared, invalid, illegal or otherwise issued in violation of State law such permit shall remain in full force and effect under Federal law as a NPDES Permit issued by the U.S. Environmental Protection Agency. In the event this Permit is declared invalid, illegal or otherwise issued in violation of Federal law, this Permit shall remain in full force and effect under State law as a Permit issued by the Commonwealth of Massachusetts.