



Paramount
resources ltd.

EA01-005

Fax

To:	Janpeter Lennie-Misgeld	# of pages	4
Company	MVLWB	Date	June 25, 2002
Fax #:	867-873-6610	cc	File Cameron G 4.3 Hernan Romero
From:	Tom Hong Phone: 290-3696 Fax: 266-6032 Email: tom.hong@paramountres.com		
Re:	Cameron C-50 Pipeline Failure		

Dear Peter;

Attached are the initial analyses of the samples taken at the immediate location of the pipeline failure. The acceptable limits are hand-written beside each component.

Yours truly,

Tom Hong

**Mackenzie Valley Land
& Water Board**

File

JUN 25 2002

Application # MV2000POUSS
Copied To KLIPWIEPB/Reg

PARAMOUNT RESOURCES LTD.
Engineering & Construction

4700, 888 - 3rd Street S.W.
Calgary, AB T2P 5C5
Ph: 403 290-3600 Fax: 403 266-6032

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Certificate of Analysis

CLIENT NAME PARAMOUNT RESOURCES LTD.

AGAT WORK ORDER 02C014928

ATTENTION: GORD FERGUSON

Petroleum Hydrocarbons in Soil							
SAMPLE TYPE				DATE SAMPLED			
SAMPLE ID				DATE RECEIVED			
SAMPLE DESCRIPTION				DATE REPORTED			
PARAMETER	RESULTS	UNITS	M.D.L.	DATE ANALYZED	INITIALS	DATE PREPARED	
Benzene	0.13 *	0.569	mg/kg	0.005	Jun 07, 2002	CL	Jun 04, 2002
Toluene	1.6	10.2	mg/kg	0.005	Jun 07, 2002	CL	Jun 04, 2002
Ethylbenzene	0.36	4.36	mg/kg	0.005	Jun 07, 2002	CL	Jun 04, 2002
Xylenes	49	40.4	mg/kg	0.005	Jun 07, 2002	CL	Jun 04, 2002
C6 - C10 (Fraction 1)	130	834	mg/kg	0.05	Jun 07, 2002	CL	Jun 04, 2002
PKF1							
C10 - C16 (Fraction 2)	PHC F2 450	110	mg/kg	10	Jun 05, 2002	CM	Jun 03, 2002
C16 - C34 (Fraction 3)	PHC F3 400	130	mg/kg	10	Jun 05, 2002	CM	Jun 03, 2002
C34 - C50 (Fraction 4)	PHC F4 1800	50	mg/kg	10	Jun 05, 2002	CM	Jun 03, 2002
Total C6 - C50		920	mg/kg	10			
Gravimetric Heavy Hydrocarbons	N/A		mg/kg	1000			

COMMENTS:

M.D.L. - Method Detection Limit

Sample Percent Moisture: 31%

Results are based on the dry weight of the sample.

The C6 - C10 fraction is calculated using the o-xylene response factor.

The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.

Gravimetric Heavy Hydrocarbons are not included in the Total C6-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.

Fraction 1 results have NOT been corrected for BTEX contributions

N/A: Not Applicable

Sample container inappropriate as per analysis requirements.

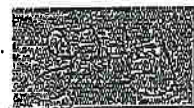
Sample arrived at laboratory with air (headspace) included in sample container.

* AENV NATURAL AREA CRITERIA (COARSE SURFACE SOILS)

CANADIAN COUNCIL

MINISTRY OF ENVIRONMENT

Certified By:



AGAT CERTIFICATE OF ANALYSIS

AGAT Laboratories is accredited by the Standards Council of Canada (SCC), in co-operation with the Canadian Association for Environmental Analytical Laboratories (CAEAL), for analytical tests listed in the scope of accreditation approved by the SCC.

AGAT Laboratories Calgary is accredited by the American Industrial Hygiene Association (AIHA) for specific tests.

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Certificate of Analysis

CLIENT NAME PARAMOUNT RESOURCES LTD.

AGAT WORK ORDER 02C014928

ATTENTION: GORD FERGUSON

Salinity Package (Water) + Oil & Grease						
SAMPLE TYPE		DATE RECEIVED		DATE REPORTED		
SAMPLE DESCRIPTION		DATE RECEIVED		DATE REPORTED		
PARAMETER	RESULTS	UNITS	M.D.L.	DATE ANALYZED	INITIALS	DATE PREPARED
pH 6-8.5	6.3		NA	Jun 06, 2002	CN	Jun 05, 2002
Electrical Conductivity 2	160	uS/cm	1	Jun 06, 2002	CF	Jun 05, 2002
Calcium NC	17.2	mg/L	0.3	Jun 06, 2002	MG	Jun 05, 2002
Magnesium NC	4.2	mg/L	0.2	Jun 06, 2002	MG	Jun 05, 2002
Sodium NC	8.8	mg/L	0.5	Jun 06, 2002	MG	Jun 05, 2002
Potassium	5.0	mg/L	0.5	Jun 06, 2002	MG	Jun 05, 2002
Chloride 500	2.9	mg/L	0.1	Jun 07, 2002	MS	Jun 05, 2002
Sulfate NC	3.5	mg/L	0.1	Jun 07, 2002	MS	Jun 05, 2002
Oil & Grease	230	mg/L	0.2	Jun 06, 2002	KT	Jun 05, 2002
SAR (Water) 6	0.38					
COMMENTS:						
M.D.L. - Method Detection Limit						

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Certificate of Analysis

CLIENT NAME PARAMOUNT RESOURCES LTD.

ATTENTION: GORD FERGUSON

AGAT WORK ORDER 02C014928

Soil Analysis - Salinity						
PARAMETER	RESULTS	UNITS	M.D.L.	DATE ANALYZED	INITIALS	DATE PREPARED
pH (Saturated Paste)			NA			
Electrical Conductivity (Sat. Paste)		dS/m	0.01			
Saturation Percentage		%	NA			
Chloride, Soluble		mg/L	0.1			
Calcium, Soluble		mg/L	3			
Potassium, Soluble		mg/L	6			
Magnesium, Soluble		mg/L	2			
Sodium, Soluble		mg/L	0.5			
Sulfate, Soluble		mg/L	9			
Sodium Adsorption Ratio	ERROR					
Theoretical Gypsum Requirement	0	tonnes/ha				
COMMENTS:						
M.D.L. = Method Detection Limit						

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