

# GM 60875

MICRODIAMOND EXTRACTION, SELECTION AND DESCRIPTION

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Énergie et Ressources  
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Québec 

**SGS Lakefield Research Limited**

**Mineralogical Services**

***Microdiamond Extraction, Selection  
and Description***

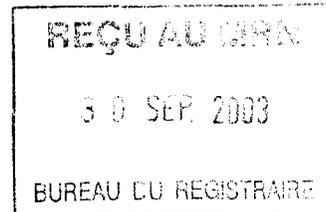
submitted by

**Diamond Discoveries International**

**8901-278 MI0007-JUN03**

MRNFP-GÉOINFORMATION 2004

**GM 60875**



NOTE: This report refers to the samples as received.

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Lakefield Research

SGS Lakefield Research Limited

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Member of SGS Group (Société Générale de Surveillance)

31 July 2003

03 2003 01 1

## Summary

### Microdiamond Extraction, Selection and Description

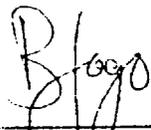
Microdiamond extraction, selection and description was performed on the 16 samples of rock listed in Table 1. The caustic dissolution residues were collected on a 150 mesh (100 µm) screen, and then submitted for Frantz magnetic separation to concentrate the microdiamonds into the diamagnetic fraction. Diamonds was not found in any of these samples. This result is reported as a Certificate of Analysis in Appendix A.

**Table 1:** Samples submitted for caustic dissolution and microdiamond description.

1: 105015	5: 105048	9: 105073	13: 105085
2: 105016	6: 105049	10: 105074	14: 105090
3: 105019	7: 105055	11: 105076	15: 105095
4: 105029	8: 105070	12: 105079	16: 105103

A detailed description of the microdiamond extraction process, as well as a generalized processing flow sheet, may be found in Appendix B.

### SGS Lakefield Research Limited



Bruce Craig Jago, Ph.D., P. Geo.  
Group Leader – Diamond Services  
SGS Lakefield Research Limited

1 August 2003

Technical Support: Rob Gill, Scott Young, Chris Pearson and Tracy Gill

## DIAMOND EXTRACTION BY CAUSTIC DISSOLUTION

### Introduction

Caustic dissolution of exploration samples efficiently produces a concentrate from which diamonds can readily be extracted during microscopic examination. The process takes advantage of diamond's property of high resistance to caustic soda (NaOH), eliminating diamond size reduction and loss that often occurs during extraction procedures that rely on crushing and attrition milling.

### Procedure

The samples are processed according to the attached flowsheet. Very few minerals survive the harsh chemical attack, therefore weight reductions commonly exceed 99% of the initial sample weight.

As-received samples are divided into equally sized charges of less than 8 kg. Smaller charge sizes are necessary if the sample contains a high proportion of carbonate minerals, which are vigorously reactive with NaOH (the carbonate content is evaluated by an acid test prior to charge preparation). If a high proportion of the sample is composed of fragments larger than 8 cm, simple breakage, crushing or attrition milling may be required for an effective dissolution, or the length of the dissolution process may be increased. Client consultation and approval is necessary before any size reduction of the sample is initiated.

After digestion in molten caustic soda, the sample is poured onto a large-diameter 150 mesh (100  $\mu$ m) screen. The + 150 mesh residue is liberated from the NaOH by washing the sample in a series of water and acid leach (HCl) baths. Once all of the NaOH is dissolved and removed, the concentrate is dried and screened on a 6 mesh screen to remove undigested material. The undigested material is examined microscopically by a mineralogist. If a significant amount of +6 mesh remains, or if the material consists of possible diamondiferous rock fragments, further digestion may be required. If the undigested material is of insignificant size or not considered as a possible source of diamonds, the -6 mesh residue is further processed by a two (possibly three if the residue is large) stage magnetic separation procedure utilising a permanent magnet and a Frantz Barrier Magnetic Separator.

The magnetically characterised residue is then submitted for microscopic examination and diamond selection. In addition to diamonds, the residue may contain partially undigested indicator minerals, colourless to opaque spinel, garnet, ilmenite, graphite, moissanite, zircon and kyanite. Each of the magnetic fractions is examined at a magnification of 40x using a binocular microscope. Grains of questionable mineralogy are examined using a scanning electron microscope equipped with an energy dispersive spectral (SEM-EDS) analyser. Although each magnetically characterised fraction is examined, particular emphasis is given to the diamagnetic portion.

The X, Y and Z dimensions of selected microdiamonds are measured in millimetres. Macrodiamonds are weighed individually while microdiamonds are weighed in groups of 20 or 30, with the milligram weight, in each case, converted to carats. The colour, clarity and morphology of each diamond are determined and all observations reported in a Certificate of Analysis. Synthetic diamonds released into a sample by diamond drill bits are selected and reported as "syndites" on the diamond description sheet.



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 Email: bjago@lakefield.com

## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278

Date: 30-Jul-03

Client: Diamond Discoveries International Corp.

LIMS No. MI0007-JUN03

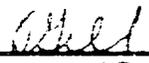
Sample No. 105015

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	- 850 / + 600 µm	0	0.000	0.000
Stones Described Individually / Group Weighed	- 600 / + 425 µm	0	0.000	0.000
	- 425 / + 300 µm	0	0.000	0.000
	- 300 / + 212 µm	0	0.000	0.000
	- 212 / + 150 µm	0	0.000	0.000
	- 150 / + 100 µm	0	0.000	0.000
	<b>TOTAL</b>	<b>0</b>	<b>0.000</b>	<b>0.000</b>

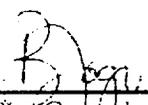
Sample Weight: 11.68kg  
 Number of Syndites: 0

Total Weight (carats)\*: 0.000  
 Number of Diamonds: 0

\* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

  
 Selection and Description

for Maria Mezer  
 Diamond Selection Specialist

  
 Quality Control

Bruce Jago  
 Manager, Mineralogical Services

**Note:**

SGS Lakefield Research Limited is not responsible for the determination of the origin, quality or value of any diamonds recovered. Each -35 mesh (Tyler sieve: +0.420 mm) stone was individually weighed, and the -35 mesh stones were weighed in groups.

Accredited by the Standards Council of Canada to the ISO/IEC Guide 25 standard for specific registered tests.

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Project: 8901-278

Date: 30-Jul-03

Client: Diamond Discoveries International Corp.

LIMS No. MI0007-JUN03

Sample No. 105015

Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Rock fragments
+150	Ferromagnetic Mag	Rock fragments, oxides and silicates
-20-150	Paramagnetic Mag (0.1 amp)	Not applicable
-20-150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Oxides and silicates
-20+150	Diamagnetic Non-mag (0.5 amp)	Oxides and silicates

Sample Weight: 11.68kg  
 Number of Syndites: 0

Total Weight (carats)\*: 0.000  
 Number of Diamonds: 0

\* Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

  
 Selection and Description  
 Maria Mezei  
 Diamond Selection Specialist

  
 Quality Control  
 Bruce Jago  
 Manager, Mineralogical Services

Note:

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30-Jul-03

## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278

LIMS No. MI0007-JUN03

Sample No. 105015

Client: Diamond Discoveries International Corp.

Sample Weight: 11.68kg

No.	Stone Dimension, mm			Weight		Colour	Clarity	Percent Preservation	Stone Description Morphology
	X	Y	Z	mg	Carats				
<b>+ 4.75 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-4.75 / + 3.35 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-3.35 / + 2.36 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-2.36 / + 1.70 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-1.70 / + 1.18 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-1.18 / + 0.85 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			

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## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278

LIMS No. MI0007-JUN03

Sample No. 105015

Client: Diamond Discoveries International Corp.

Sample Weight: 11.68kg

No.	Stone Dimension, mm			Weight		Colour	Clarity	Percent Preservation	Stone Description Morphology
	X	Y	Z	mg	Carats				
<b>-850 / + 600 <math>\mu</math>m fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-600 / + 425 <math>\mu</math>m fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-425 / + 300 <math>\mu</math>m fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-300 / + 212 <math>\mu</math>m fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-212 / + 150 <math>\mu</math>m fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-150 / + 100 <math>\mu</math>m fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
0					0.000000	TOTAL			

Note 1: Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated.

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## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278

Date: 30-Jul-03

Client: Diamond Discoveries International Corp. LIMS No. MI0007-JUN03

Sample No. 105016

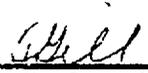
Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Rock fragments and oxides
+150	Ferromagnetic Mag	Rock fragments and oxides
-20+150	Paramagnetic Mag (0.1 amp)	Not applicable
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20-150	Diamagnetic Mag (0.5 amp)	Oxides and silicates
-20+150	Diamagnetic Non-mag (0.5 amp)	Oxides, silicates, and graphite

Sample Weight: 12.20kg  
 Number of Syndites: 0

Total Weight (carats)\*: 0.000  
 Number of Diamonds: 0

\* Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

  
 Selection and Description  
 Maria Mezei  
 Diamond Selection Specialist

  
 Quality Control  
 Tracy Gill  
 Mineralogy Technician

**Note:**

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Date: 30-Jul-03

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LIMS No. MI0007-JUN03

Sample No. 105016

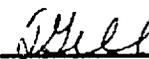
	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 µm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 µm	0	0.000	0.000
	-425 / + 300 µm	0	0.000	0.000
	-300 / +212 µm	0	0.000	0.000
	-212 / +150 µm	0	0.000	0.000
	-150 / +100 µm	0	0.000	0.000
	<b>TOTAL</b>	<b>0</b>	<b>0.000</b>	<b>0.000</b>

Sample Weight: 12.20kg  
 Number of Syndites: 0

Total Weight (carats)\*: 0.000  
 Number of Diamonds: 0

\* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

  
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Project: 8901-278

LIMS No. MI0007-JUN03

Sample No. 105016

Client: Diamond Discoveries International Corp.

Sample Weight: 12.20kg

No.	Stone Dimension, mm			Weight		Colour	Clarity	Percent Preservation	Stone Description
	X	Y	Z	mg	Carats				Morphology
<b>+ 4.75 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-4.75 / + 3.35 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-3.35 / + 2.36 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-2.36 / + 1.70 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-1.70 / + 1.18 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-1.18 / + 0.85 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			

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## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278

LIMS No. MI0007-JUN03

Sample No. 105016

Client: Diamond Discoveries International Corp.

Sample Weight: 12.20kg

No.	Stone Dimension, mm			Weight		Colour	Clarity	Percent Preservation	Stone Description Morphology
	X	Y	Z	mg	Carats				
<b>-850 / + 600 <math>\mu</math>m fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-600 / + 425 <math>\mu</math>m fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-425 / + 300 <math>\mu</math>m fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-300 / + 212 <math>\mu</math>m fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-212 / + 150 <math>\mu</math>m fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-150 / + 100 <math>\mu</math>m fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
0					0.000000	TOTAL			

Note 1: Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated.

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**DIAMOND RECOVERY BY CAUSTIC DISSOLUTION**

Project: 8901-278

Date: 30-Jul-03

Client: Diamond Discoveries International Corp.

LIMS No. MI0007-JUN03

Sample No. 105019

Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Rock fragments and oxides
+150	Ferromagnetic Mag	Rock fragments and oxides
-20+150	Paramagnetic Mag (0.1 amp)	Not applicable
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Silicates and graphite
-20+150	Diamagnetic Non-mag (0.5 amp)	Silicates and graphite

Sample Weight: 14.0kg  
 Number of Syndites: 0

Total Weight (carats)\*: 0.000  
 Number of Diamonds: 0

\* Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

  
 Selection and Description  
 Maria Mezei  
 Diamond Selection Specialist

  
 Quality Control  
 Tracy Gill  
 Mineralogy Technician

**Note:**

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Sample No. 105019

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 µm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 µm	0	0.000	0.000
	-425 / + 300 µm	0	0.000	0.000
	-300 / +212 µm	0	0.000	0.000
	-212 / +150 µm	0	0.000	0.000
	-150 / +100 µm	0	0.000	0.000
	<b>TOTAL</b>	<b>0</b>	<b>0.000</b>	<b>0.000</b>

Sample Weight: 14.0kg  
 Number of Syndites: 0

Total Weight (carats)\*: 0.000  
 Number of Diamonds: 0

\* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

  
 Selection and Description  
 Maria Merzi  
 Diamond Selection Specialist

  
 Quality Control  
 Tracy Gill  
 Mineralogy Technician

**Note:**

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Project: 8901-278

LIMS No. MI0007-JUN03

Sample No. 105019

Client: Diamond Discoveries International Corp.

Sample Weight: 14.0kg

No.	Stone Dimension, mm			Weight		Colour	Clarity	Percent Preservation	Stone Description
	X	Y	Z	mg	Carats				Morphology
<b>+ 4.75 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-4.75 / + 3.35 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-3.35 / + 2.36 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-2.36 / + 1.70 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-1.70 / + 1.18 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-1.18 / + 0.85 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			

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LIMS No. MI0007-JUN03

Sample No. 105019

Sample Weight: 14.0kg

Client: Diamond Discoveries International Corp.

No.	Stone Dimension, mm			Weight		Colour	Clarity	Percent Preservation	Stone Description Morphology
	X	Y	Z	mg	Carats				
<b>-850 / + 600 µm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-600 / + 425 µm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-425 / + 300 µm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-300 / + 212 µm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-212 / + 150 µm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-150 / + 100 µm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
0					0.000000	TOTAL			

Note 1: Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated.

SGS Lakefield Research Limited  
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 K0L 2H0, CANADA

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 Fax: (705) 652-3123  
 Email: [bjago@lakefield.com](mailto:bjago@lakefield.com)

## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278

Date: 30-Jul-03

Client: Diamond Discoveries International Corp.

LIMS No. MI0007-JUN03

Sample No. 105029

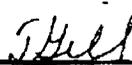
Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Rock fragments and silicates
+150	Ferromagnetic Mag	Rock fragments and oxides
-20+150	Paramagnetic Mag (0.1 amp)	Not applicable
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Oxides and silicates
-20+150	Diamagnetic Non-mag (0.5 amp)	Oxides, silicates, and graphite

Sample Weight: 6.75kg  
 Number of Syndites: 0

Total Weight (carats)\*: 0.000  
 Number of Diamonds: 0

\* Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

  
 Selection and Description  
 Maria Mezei  
 Diamond Selection Specialist

  
 Quality Control  
 Tracy Gill  
 Mineralogy Technician

**Note:**

SGS Lakefield Research Limited is not responsible for the determination of the origin, quality or value of any diamonds recovered. Each +35 mesh (Tyler sieve; -0.420 mm) stone was individually weighed, and the -35 mesh stones were weighed in groups. Stone dimensions are limited to accuracy of three dimensional measurements of irregular shapes using a petrographic microscope.

*Accredited by the Standards Council of Canada to the ISO/IEC Guide 25 standard for specific registered tests.*

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## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278

Date: 30-Jul-03

Client: Diamond Discoveries International Corp.

LIMS No. MI0007-JUN03

Sample No. 105029

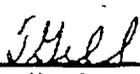
	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 µm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 µm	0	0.000	0.000
	-425 / + 300 µm	0	0.000	0.000
	-300 / +212 µm	0	0.000	0.000
	-212 / +150 µm	0	0.000	0.000
	-150 / +100 µm	0	0.000	0.000
	<b>TOTAL</b>	0	0.000	0.000

**Sample Weight: 6.75kg**  
**Number of Syndites: 0**

**Total Weight (carats)\*: 0.000**  
**Number of Diamonds: 0**

\* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

  
 Selection and Description  
 Maria Mezei  
 Diamond Selection Specialist

  
 Quality Control  
 Tracy Gill  
 Mineralogy Technician

**Note:**

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30-Jul-03

## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278

LIMS No. MI0007-IUN03

Sample No. 105029

Client: Diamond Discoveries International Corp.

Sample Weight: 6.75kg

No.	Stone Dimension, mm			Weight		Colour	Clarity	Percent Preservation	Stone Description Morphology
	X	Y	Z	mg	Carats				
<b>+ 4.75 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-4.75 / + 3.35 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-3.35 / + 2.36 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-2.36 / + 1.70 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-1.70 / + 1.18 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-1.18 / + 0.85 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			

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30-Jul-03

## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278

LIMS No. MI0007-JUN03

Sample No. 105029

Client: Diamond Discoveries International Corp.

Sample Weight: 6.75kg

No.	Stone Dimension, mm			Weight		Colour	Clarity	Percent Preservation	Stone Description Morphology
	X	Y	Z	mg	Carats				
<b>-850 / + 600 <math>\mu</math>m fraction</b>									
0					0.000000				
0				0.000	0.000000	<b>Sub-Total</b>			
<b>-600 / + 425 <math>\mu</math>m fraction</b>									
0					0.000000				
0				0.000	0.000000	<b>Sub-Total</b>			
<b>-425 / + 300 <math>\mu</math>m fraction</b>									
0					0.000000				
0				0.000	0.000000	<b>Sub-Total</b>			
<b>-300 / + 212 <math>\mu</math>m fraction</b>									
0					0.000000				
0				0.000	0.000000	<b>Sub-Total</b>			
<b>-212 / + 150 <math>\mu</math>m fraction</b>									
0					0.000000				
0				0.000	0.000000	<b>Sub-Total</b>			
<b>-150 / + 100 <math>\mu</math>m fraction</b>									
0					0.000000				
0				0.000	0.000000	<b>Sub-Total</b>			
0					0.000000	<b>TOTAL</b>			

Note 1: Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated.

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**DIAMOND RECOVERY BY CAUSTIC DISSOLUTION**

Project: 8901-278

Date: 30-Jul-03

Client: Diamond Discoveries International Corp.

LIMS No. MI0007-JUN03

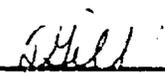
Sample No. 105049

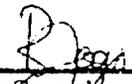
Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Rock fragments, silicates, and oxides
+150	Ferromagnetic Mag	Oxides
-20+150	Paramagnetic Mag (0.1 amp)	Not applicable
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Oxides and silicates
-20+150	Diamagnetic Non-mag (0.5 amp)	Oxides, silicates, and graphite

Sample Weight: 25.75kg  
 Number of Syndites: 0

Total Weight (carats)\*: 0.000  
 Number of Diamonds: 0

\* Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

  
 Selection and Description  
 Tracy Gill  
 Mineralogy Technician

  
 Quality Control  
 Bruce Jago  
 Manager, Mineralogical Services

Note:

SGS Lakefield Research Limited is not responsible for the determination of the origin, quality or value of any diamonds recovered. Each +35 mesh (Tyler sieve, +0.425 mm) stone was individually weighed, and the -35 mesh stones were weighed in groups. Stone dimensions are limited to accuracy of three dimensional measurements of irregular shapes using a petrographic microscope.

*Accredited by the Standards Council of Canada to the ISO/IEC Guide 25 standard for specific registered tests.*

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 Email: bjago@lakefield.com

## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278

Date: 30-Jul-03

Client: Diamond Discoveries International Corp.

LIMS No. MI0007-JUN03

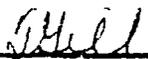
Sample No. 105049

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 µm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 µm	0	0.000	0.000
	-425 / + 300 µm	0	0.000	0.000
	-300 / +212 µm	0	0.000	0.000
	-212 / +150 µm	0	0.000	0.000
	-150 / +100 µm	0	0.000	0.000
	TOTAL	0	0.000	0.000

Sample Weight: 25.75kg  
 Number of Syndites: 0

Total Weight (carats)\*: 0.000  
 Number of Diamonds: 0

\* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

  
 Selection and Description  
 Tracy Gill  
 Mineralogy Technician

  
 Quality Control  
 Bruce Jago  
 Manager, Mineralogical Services

Note:

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30-Jul-03

## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278

LIMS No. M10007-JUN03

Sample No. 105049

Client: Diamond Discoveries International Corp.

Sample Weight: 25.75kg

No.	Stone Dimension, mm			Weight		Colour	Clarity	Percent Preservation	Stone Description
	X	Y	Z	mg	Carats				Morphology
<b>+ 4.75 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-4.75 / + 3.35 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-3.35 / + 2.36 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-2.36 / + 1.70 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-1.70 / + 1.18 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-1.18 / + 0.85 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			

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30-Jul-03

## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278

LIMS No. MI0007-JUN03

Sample No. 105049

Sample Weight: 25.75kg

Client: Diamond Discoveries International Corp.

No.	Stone Dimension, mm			Weight		Colour	Clarity	Percent Preservation	Stone Description Morphology
	X	Y	Z	mg	Carats				
<b>-850 / + 600 µm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-600 / + 425 µm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-425 / + 300 µm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-300 / + 212 µm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-212 / + 150 µm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-150 / + 100 µm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
0					0.000000	TOTAL			

Note 1: Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated.

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**DIAMOND RECOVERY BY CAUSTIC DISSOLUTION**

Project: 8901-278

Date: 30-Jul-03

Client: Diamond Discoveries International Corp.

LIMS No. MI0007-JUN03

Sample No. 105048

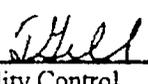
Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Oxides
+150	Ferromagnetic Mag	Oxides
-20+150	Paramagnetic Mag (0.1 amp)	Not applicable
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Oxides and silicates
-20+150	Diamagnetic Non-mag (0.5 amp)	Oxides, silicates, and graphite

Sample Weight: 22.41kg  
 Number of Syndites: 0

Total Weight (carats)\*: 0.000  
 Number of Diamonds: 0

\* Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

  
 Selection and Description  
 Maria Mezei  
 Diamond Selection Specialist

  
 Quality Control  
 Tracy Gill  
 Mineralogy Technician

Note:

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Accredited by the Standards Council of Canada to the ISO/IEC Guide 25 standard for specific registered tests.

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**DIAMOND RECOVERY BY CAUSTIC DISSOLUTION**

Project: 8901-278

Date: 30-Jul-03

Client: Diamond Discoveries International Corp.

LIMS No. MI0007-JUN03

Sample No. 105048

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 µm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 µm	0	0.000	0.000
	-425 / + 300 µm	0	0.000	0.000
	-300 / +212 µm	0	0.000	0.000
	-212 / +150 µm	0	0.000	0.000
	-150 / +100 µm	0	0.000	0.000
	<b>TOTAL</b>	<b>0</b>	<b>0.000</b>	<b>0.000</b>

Sample Weight: 22.41kg  
 Number of Syndites: 0

Total Weight (carats)\*: 0.000  
 Number of Diamonds: 0

\* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

  
 Selection and Description  
 Maria Mezei  
 Diamond Selection Specialist

  
 Quality Control  
 Tracy Gill  
 Mineralogy Technician

Note:

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# SGS LAKEFIELD RESEARCH LIMITED

30-Jul-03

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Fax: 705-652-3123

## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278

LIMS No. MI0007-JUN03

Sample No. 105048

Client: Diamond Discoveries International Corp.

Sample Weight: 22.41kg

No.	Stone Dimension, mm			Weight		Colour	Clarity	Percent Preservation	Stone Description Morphology
	X	Y	Z	mg	Carats				
<b>+ 4.75 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	<b>Sub-Total</b>			
<b>-4.75 / + 3.35 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	<b>Sub-Total</b>			
<b>-3.35 / + 2.36 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	<b>Sub-Total</b>			
<b>-2.36 / + 1.70 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	<b>Sub-Total</b>			
<b>-1.70 / + 1.18 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	<b>Sub-Total</b>			
<b>-1.18 / + 0.85 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	<b>Sub-Total</b>			

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## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278

LIMS No. MI0007-JUN03

Sample No. 105048

Sample Weight: 22.41kg

Client: Diamond Discoveries International Corp.

No.	Stone Dimension, mm			Weight		Colour	Clarity	Percent Preservation	Stone Description Morphology
	X	Y	Z	mg	Carats				
<b>-850 / + 600 µm fraction</b>									
0					0.000000				
0				0.000	0.000000				Sub-Total
<b>-600 / + 425 µm fraction</b>									
0					0.000000				
0				0.000	0.000000				Sub-Total
<b>-425 / + 300 µm fraction</b>									
0					0.000000				
0				0.000	0.000000				Sub-Total
<b>-300 / + 212 µm fraction</b>									
0					0.000000				
0				0.000	0.000000				Sub-Total
<b>-212 / + 150 µm fraction</b>									
0					0.000000				
0				0.000	0.000000				Sub-Total
<b>-150 / + 100 µm fraction</b>									
0					0.000000				
0				0.000	0.000000				Sub-Total
0					0.000000				TOTAL

Note 1: Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated.

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**DIAMOND RECOVERY BY CAUSTIC DISSOLUTION**

Project: 8901-278

Date: 30-Jul-03

Client: Diamond Discoveries International Corp.

LIMS No. MI0007-JUN03

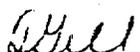
Sample No. 105055

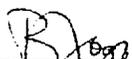
Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Rock fragments, silicates, and oxides
+150	Ferromagnetic Mag	Oxides
-20+150	Paramagnetic Mag (0.1 amp)	Not applicable
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Oxides and silicates
-20+150	Diamagnetic Non-mag (0.5 amp)	Oxides, silicates, and graphite

Sample Weight: 20.46kg  
 Number of Syndites: 0

Total Weight (carats)\*: 0.000  
 Number of Diamonds: 0

\* Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

  
 Selection and Description  
 Tracy Gill  
 Mineralogy Technician

  
 Quality Control  
 Bruce Jago  
 Manager, Mineralogical Services

Note:

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**DIAMOND RECOVERY BY CAUSTIC DISSOLUTION**

Project: 8901-278

Date: 30-Jul-03

Client: Diamond Discoveries International Corp.

LIMS No. MI0007-JUN03

Sample No. 105055

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 µm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 µm	0	0.000	0.000
	-425 / + 300 µm	0	0.000	0.000
	-300 / +212 µm	0	0.000	0.000
	-212 / +150 µm	0	0.000	0.000
	-150 / -100 µm	0	0.000	0.000
	<b>TOTAL</b>	<b>0</b>	<b>0.000</b>	<b>0.000</b>

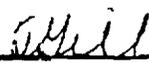
Sample Weight: 20.46kg

Total Weight (carats)\*: 0.000

Number of Syndites: 0

Number of Diamonds: 0

\* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

  
 Selection and Description

Tracy Gill

Mineralogy Technician

  
 Quality Control

Bruce Jago

Manager, Mineralogical Services

## Note:

SGS Lakefield Research Limited is not responsible for the determination of the origin, quality or value of any diamonds recovered. Each +35 mesh (Tyler sieve; +0.420 mm) stone was individually weighed, and the -35 mesh stones were weighed in groups.

Accredited by the Standards Council of Canada to the ISO/IEC Guide 25 standard for specific registered tests.

# SGS LAKEFIELD RESEARCH LIMITED

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Fax: 705-652-3123

30-Jul-03

## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278

LIMS No. MI0007-JUN03

Sample No. 105055

Client: Diamond Discoveries International Corp.

Sample Weight: 20.46kg

No.	Stone Dimension, mm			Weight		Colour	Clarity	Percent Preservation	Stone Description Morphology
	X	Y	Z	mg	Carats				
<b>+ 4.75 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-4.75 / + 3.35 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-3.35 / + 2.36 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-2.36 / + 1.70 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-1.70 / + 1.18 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-1.18 / + 0.85 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			

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30-Jul-03

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## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278

LIMS No. MI0007-JUN03

Sample No. 105055

Client: Diamond Discoveries International Corp.

Sample Weight: 20.46kg

No.	Stone Dimension, mm			Weight		Colour	Clarity	Percent Preservation	Stone Description Morphology
	X	Y	Z	mg	Carats				
<b>-850 / + 600 <math>\mu</math>m fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-600 / + 425 <math>\mu</math>m fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-425 / + 300 <math>\mu</math>m fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-300 / + 212 <math>\mu</math>m fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-212 / + 150 <math>\mu</math>m fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-150 / + 100 <math>\mu</math>m fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
0					0.000000	TOTAL			

Note 1: Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated.

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Email: [bjago@lakefield.com](mailto:bjago@lakefield.com)

## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278

Date: 30-Jul-03

Client: Diamond Discoveries International Corp.

LIMS No. MI0007-JUN03

Sample No. 105070

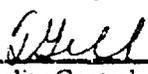
Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Rock fragments, oxides and silicates
+150	Ferromagnetic Mag	Rock fragments, oxides and silicates
-20+150	Paramagnetic Mag (0.1 amp)	Not applicable
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Oxides
-20+150	Diamagnetic Non-mag (0.5 amp)	Silicates, and graphite

Sample Weight: 16.07kg  
Number of Syndites: 0

Total Weight (carats)\*: 0.000  
Number of Diamonds: 0

\* Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

  
\_\_\_\_\_  
Selection and Description  
Maria Mezei  
Diamond Selection Specialist

  
\_\_\_\_\_  
Quality Control  
Tracy Gill  
Mineralogy Technician

### Note:

SGS Lakefield Research Limited is not responsible for the determination of the origin, quality or value of any diamonds recovered. Each +35 mesh (Tyler sieve; +0.420 mm) stone was individually weighed, and the -35 mesh stones were weighed in groups. Stone dimensions are limited to accuracy of three dimensional measurements of irregular shapes using a petrographic microscope.

Accredited by the Standards Council of Canada to the ISO/IEC Guide 25 standard for specific registered tests.

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 Email: bjago@lakefield.com

**DIAMOND RECOVERY BY CAUSTIC DISSOLUTION**

Project: 8901-278

Date: 30-Jul-03

Client: Diamond Discoveries International Corp.

LIMS No. MI0007-JUN03

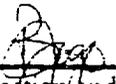
Sample No. 105070

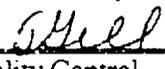
	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 µm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 µm	0	0.000	0.000
	-425 / + 300 µm	0	0.000	0.000
	-300 / +212 µm	0	0.000	0.000
	-212 / +150 µm	0	0.000	0.000
	-150 / +100 µm	0	0.000	0.000
	<b>TOTAL</b>	<b>0</b>	<b>0.000</b>	<b>0.000</b>

Sample Weight: 16.07kg  
 Number of Syndites: 0

Total Weight (carats)\*: 0.000  
 Number of Diamonds: 0

\* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

  
 Selection and Description  
 Maria Mezei  
 Diamond Selection Specialist

  
 Quality Control  
 Tracy Gill  
 Mineralogy Technician

Note:

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30-Jul-03

## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278

LIMS No. MI0007-JUN03

Sample No. 105070

Sample Weight: 16.07kg

Client: Diamond Discoveries International Corp.

No.	Stone Dimension, mm			Weight		Colour	Clarity	Percent Preservation	Stone Description	
	X	Y	Z	mg	Carats				Morphology	
<b>+ 4.75 mm fraction</b>										
0					0.000000					
0				0.000	0.000000	Sub-Total				
<b>-4.75 / + 3.35 mm fraction</b>										
0					0.000000					
0				0.000	0.000000	Sub-Total				
<b>-3.35 / + 2.36 mm fraction</b>										
0					0.000000					
0				0.000	0.000000	Sub-Total				
<b>-2.36 / + 1.70 mm fraction</b>										
0					0.000000					
0				0.000	0.000000	Sub-Total				
<b>-1.70 / + 1.18 mm fraction</b>										
0					0.000000					
0				0.000	0.000000	Sub-Total				
<b>-1.18 / + 0.85 mm fraction</b>										
0					0.000000					
0				0.000	0.000000	Sub-Total				

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30-Jul-03

## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278

LIMS No. MI0007-JUN03

Sample No. 105070

Client: Diamond Discoveries International Corp.

Sample Weight: 16.07kg

No.	Stone Dimension, mm			Weight		Colour	Clarity	Percent Preservation	Stone Description Morphology
	X	Y	Z	mg	Carats				
<b>-850 / + 600 <math>\mu</math>m fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-600 / + 425 <math>\mu</math>m fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-425 / + 300 <math>\mu</math>m fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-300 / + 212 <math>\mu</math>m fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-212 / + 150 <math>\mu</math>m fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-150 / + 100 <math>\mu</math>m fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
0					0.000000	TOTAL			

Note 1: Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated.

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**DIAMOND RECOVERY BY CAUSTIC DISSOLUTION**

Project: 8901-278

Date: 31-Jul-03

Client: Diamond Discoveries International Corp.

LIMS No. MI0007-JUN03

Sample No. 105073

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 µm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 µm	0	0.000	0.000
	-425 / + 300 µm	0	0.000	0.000
	-300 / +212 µm	0	0.000	0.000
	-212 / +150 µm	0	0.000	0.000
	-150 / +100 µm	0	0.000	0.000
	<b>TOTAL</b>	0	0.000	0.000

Sample Weight: 36.00kg  
 Number of Syndites: 0

Total Weight (carats)\*: 0.000  
 Number of Diamonds: 0

\* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg

  
 Selection and Description  
 Tracy Gill  
 Mineralogy Technician

  
 Quality Control  
 Bruce Jago  
 Manager, Mineralogical Services

Note:

SGS Lakefield Research Limited is not responsible for the determination of the origin, quality or value of any diamonds recovered. Each +35 mesh (Tyler sieve, +0.420 mm) stone was individually weighed, and the -35 mesh stones were weighed in groups.

Accredited by the Standards Council of Canada to the ISO/IEC Guide 25 standard for specific registered tests.

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 Fax: (705) 652-3123  
 Email: bjago@lakefield.com

**DIAMOND RECOVERY BY CAUSTIC DISSOLUTION**

Project: 8901-278

Date: 31-Jul-03

Client: Diamond Discoveries International Corp.

LIMS No. MI0007-JUN03

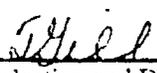
Sample No. 105073

Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Rock fragments, oxides and silicates
+150	Ferromagnetic Mag	Oxides and silicates
-20+150	Paramagnetic Mag (0.1 amp)	Not applicable
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Oxides and silicates
-20+150	Diamagnetic Non-mag (0.5 amp)	Oxides, silicates, and graphite

Sample Weight: 36.00kg  
 Number of Syndites: 0

Total Weight (carats)\*: 0.000  
 Number of Diamonds: 0

\* Total Weight: (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

  
 Selection and Description  
 Tracy Gill  
 Mineralogy Technician

  
 Quality Control  
 Bruce Jago  
 Manager, Mineralogical Services

Note:

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31-Jul-03

## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278

LIMS No. MI0007-JUN03

Sample No. 105073

Client: Diamond Discoveries International Corp.

Sample Weight: 36.00kg

No.	Stone Dimension, mm			Weight		Colour	Clarity	Percent Preservation	Stone Description	
	X	Y	Z	mg	Carats				Morphology	
<b>+ 4.75 mm fraction</b>										
0					0.000000					
0				0.000	0.000000	Sub-Total				
<b>-4.75 / + 3.35 mm fraction</b>										
0					0.000000					
0				0.000	0.000000	Sub-Total				
<b>-3.35 / + 2.36 mm fraction</b>										
0					0.000000					
0				0.000	0.000000	Sub-Total				
<b>-2.36 / + 1.70 mm fraction</b>										
0					0.000000					
0				0.000	0.000000	Sub-Total				
<b>-1.70 / + 1.18 mm fraction</b>										
0					0.000000					
0				0.000	0.000000	Sub-Total				
<b>-1.18 / + 0.85 mm fraction</b>										
0					0.000000					
0				0.000	0.000000	Sub-Total				

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 Fax: 705-652-3123

## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278

LIMS No. MI0007-JUN03

Sample No. 105073

Client: Diamond Discoveries International Corp.

Sample Weight: 36.00kg

No.	Stone Dimension, mm			Weight		Colour	Clarity	Percent Preservation	Stone Description Morphology
	X	Y	Z	mg	Carats				
<b>-850 / + 600 <math>\mu</math>m fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-600 / + 425 <math>\mu</math>m fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-425 / + 300 <math>\mu</math>m fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-300 / + 212 <math>\mu</math>m fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-212 / + 150 <math>\mu</math>m fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-150 / + 100 <math>\mu</math>m fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
0					0.000000	TOTAL			

Note 1: Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated

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30-Jul-03

## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278

LIMS No. MI0007-JUN03

Sample No. 105070

Client: Diamond Discoveries International Corp.

Sample Weight: 16.07kg

No.	Stone Dimension, mm			Weight		Colour	Clarity	Percent Preservation	Stone Description Morphology
	X	Y	Z	mg	Carats				
<b>-850 / + 600 µm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-600 / + 425 µm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-425 / + 300 µm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-300 / + 212 µm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-212 / + 150 µm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-150 / + 100 µm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
0					0.000000	TOTAL			

Note 1: Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated.

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## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

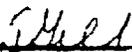
Project: 8901-278 Date: 30-Jul-03  
 Client: Diamond Discoveries International Corp. LIMS No. MI0007-JUN03  
Sample No. 105074

Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Oxides and silicates
+150	Ferromagnetic Mag	Oxides and silicates
-20+150	Paramagnetic Mag (0.1 amp)	Not applicable
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Oxides and silicates
-20+150	Diamagnetic Non-mag (0.5 amp)	Oxides, silicates, and graphite

**Sample Weight: 21.72kg**  
**Number of Syndites: 0**

**Total Weight (carats)\*: 0.000**  
**Number of Diamonds: 0**

\* Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

  
 \_\_\_\_\_  
 Selection and Description  
 Tracy Gill  
 Mineralogy Technician

  
 \_\_\_\_\_  
 Quality Control  
 Bruce Lago  
 Manager, Mineralogical Services

**Note:**

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## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278

Date: 30-Jul-03

Client: Diamond Discoveries International Corp.

LIMS No. MI0007-JUN03

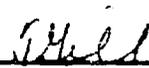
Sample No. 105074

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 µm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 µm	0	0.000	0.000
	-425 / + 300 µm	0	0.000	0.000
	-300 / +212 µm	0	0.000	0.000
	-212 / +150 µm	0	0.000	0.000
	-150 / +100 µm	0	0.000	0.000
	<b>TOTAL</b>	<b>0</b>	<b>0.000</b>	<b>0.000</b>

Sample Weight: 21.72kg  
 Number of Syndites: 0

Total Weight (carats)\*: 0.000  
 Number of Diamonds: 0

\* Total Weight: (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

  
 Selection and Description  
 Tracy Gill  
 Mineralogy Technician

  
 Quality Control  
 Bruce Jago  
 Manager, Mineralogical Services

**Note:**

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Fax: 705-652-3123

30-Jul-03

## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278

LIMS No. MI0007-JUN03

Sample No. 105074

Client: Diamond Discoveries International Corp.

Sample Weight: 21.72kg

No.	Stone Dimension, mm			Weight		Colour	Clarity	Percent Preservation	Stone Description	
	X	Y	Z	mg	Carats				Morphology	
<b>+ 4.75 mm fraction</b>										
0					0.000000					
0				0.000	0.000000	Sub-Total				
<b>-4.75 / + 3.35 mm fraction</b>										
0					0.000000					
0				0.000	0.000000	Sub-Total				
<b>-3.35 / + 2.36 mm fraction</b>										
0					0.000000					
0				0.000	0.000000	Sub-Total				
<b>-2.36 / + 1.70 mm fraction</b>										
0					0.000000					
0				0.000	0.000000	Sub-Total				
<b>-1.70 / + 1.18 mm fraction</b>										
0					0.000000					
0				0.000	0.000000	Sub-Total				
<b>-1.18 / + 0.85 mm fraction</b>										
0					0.000000					
0				0.000	0.000000	Sub-Total				

# SGS LAKEFIELD RESEARCH LIMITED

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 Fax: 705-652-3123

30-Jul-03

## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278

LIMS No. MI0007-JUN03

Sample No. 105074

Sample Weight: 21.72kg

Client: Diamond Discoveries International Corp.

No.	Stone Dimension, mm			Weight		Colour	Clarity	Percent Preservation	Stone Description Morphology
	X	Y	Z	mg	Carats				
<b>-850 / + 600 <math>\mu</math>m fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-600 / + 425 <math>\mu</math>m fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-425 / + 300 <math>\mu</math>m fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-300 / + 212 <math>\mu</math>m fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-212 / + 150 <math>\mu</math>m fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-150 / + 100 <math>\mu</math>m fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
0					0.000000	TOTAL			

Note 1: Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated.



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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278

Date: 30-Jul-03

Client: Diamond Discoveries International Corp.

LMS No. MI0007-JUN03

Sample No. 105076

Table with 3 columns: Mesh, Fraction, and Dissolution Residue Description. Rows include mesh sizes like +6, -6+20, +150, -20+150 and fractions like Ferromagnetic Non-mag, Ferromagnetic Mag, Paramagnetic Mag, and Diamagnetic Mag.

Sample Weight: 13.64kg

Total Weight (carats)\*: 0.000

Number of Syndites: 0

Number of Diamonds: 0

\* Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

Signature of Tracy Gill
Selection and Description
Tracy Gill
Mineralogy Technician

Signature of Bruce Jago
Quality Control
Bruce Jago
Manager, Mineralogical Services

Note:

SGS Lakefield Research Limited is not responsible for the determination of the origin, quality or value of any diamonds recovered. Each +35 mesh (Tyler sieve; +0.420 mm) stone was individually weighed, and the -35 mesh stones were weighed in groups. Stone dimensions are limited to accuracy of three dimensional measurements of irregular shapes using a petrographic microscope.

Accredited by the Standards Council of Canada to the ISO/IEC Guide 25 standard for specific registered tests.



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## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278

Date: 30-Jul-03

Client: Diamond Discoveries International Corp.

LIMS No. MI0007-JUN03

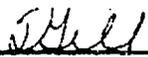
Sample No. 105076

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 µm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 µm	0	0.000	0.000
	-425 / + 300 µm	0	0.000	0.000
	-300 / +212 µm	0	0.000	0.000
	-212 / +150 µm	0	0.000	0.000
	-150 / +100 µm	0	0.000	0.000
	TOTAL	0	0.000	0.000

Sample Weight: 13.64kg  
 Number of Syndites: 0

Total Weight (carats)\*: 0.000  
 Number of Diamonds: 0

\* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

  
 Selection and Description  
 Tracy Gill  
 Mineralogy Technician

  
 Quality Control  
 Bruce Jago  
 Manager, Mineralogical Services

**Note:**

SGS Lakefield Research Limited is not responsible for the determination of the origin, quality or value of any diamonds recovered. Each -35 mesh (Tyler sieve: +0.420 mm) stone was individually weighed, and the -35 mesh stones were weighed in groups.

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30-Jul-03

## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278

LIMS No. MI0007-JUN03

Sample No. 105076

Client: Diamond Discoveries International Corp.

Sample Weight: 13.64kg

No.	Stone Dimension, mm			Weight		Colour	Clarity	Percent Preservation	Stone Description Morphology
	X	Y	Z	mg	Carats				
<b>+ 4.75 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-4.75 / + 3.35 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-3.35 / + 2.36 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-2.36 / + 1.70 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-1.70 / + 1.18 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-1.18 / + 0.85 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			

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30-Jul-03

## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278

LIMS No. MI0007-JUN03

Sample No. 105076

Client: Diamond Discoveries International Corp.

Sample Weight: 13.64kg

No.	Stone Dimension, mm			Weight		Colour	Clarity	Percent Preservation	Stone Description	
	X	Y	Z	mg	Carats				Morphology	
<b>-850 / + 600 <math>\mu</math>m fraction</b>										
0					0.000000					
0				0.000	0.000000	Sub-Total				
<b>-600 / + 425 <math>\mu</math>m fraction</b>										
0					0.000000					
0				0.000	0.000000	Sub-Total				
<b>-425 / + 300 <math>\mu</math>m fraction</b>										
0					0.000000					
0				0.000	0.000000	Sub-Total				
<b>-300 / + 212 <math>\mu</math>m fraction</b>										
0					0.000000					
0				0.000	0.000000	Sub-Total				
<b>-212 / + 150 <math>\mu</math>m fraction</b>										
0					0.000000					
0				0.000	0.000000	Sub-Total				
<b>-150 / + 100 <math>\mu</math>m fraction</b>										
0					0.000000					
0				0.000	0.000000	Sub-Total				
0					0.000000	TOTAL				

Note 1: Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated.



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## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278

Date: 31-Jul-03

Client: Diamond Discoveries International Corp.

LIMS No. MI0007-JUN03

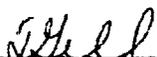
Sample No. 105079

Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Rock fragments, oxides and silicates
+150	Ferromagnetic Mag	Oxides
-20+150	Paramagnetic Mag (0.1 amp)	Not applicable
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Rock fragments, oxides and silicates
-20+150	Diamagnetic Non-mag (0.5 amp)	Oxides, silicates, and graphite

Sample Weight: 20.47kg  
 Number of Syndites: 0

Total Weight (carats)\*: 0.000  
 Number of Diamonds: 0

\* Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

  
 Selection and Description  
 Tracy Gill  
 Mineralogy Technician

  
 Quality Control  
 Bruce Jago  
 Manager, Mineralogical Services

**Note:**

SGS Lakefield Research Limited is not responsible for the determination of the origin, quality or value of any diamonds recovered. Each +35 mesh (Tyler sieve; +0.420 mm) stone was individually weighed, and the -35 mesh stones were weighed in groups. Stone dimensions are limited to accuracy of three dimensional measurements of irregular shapes using a petrographic microscope.

*Accredited by the Standards Council of Canada to the ISO/IEC Guide 25 standard for specific registered tests.*

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**DIAMOND RECOVERY BY CAUSTIC DISSOLUTION**

Project: 8901-278

Date: 31-Jul-03

Client: Diamond Discoveries International Corp.

LIMS No. MI0007-JUN03

Sample No. 105079

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 µm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 µm	0	0.000	0.000
	-425 / + 300 µm	0	0.000	0.000
	-300 / +212 µm	0	0.000	0.000
	-212 / +150 µm	0	0.000	0.000
	-150 / +100 µm	0	0.000	0.000
	TOTAL	0	0.000	0.000

Sample Weight: 20.47kg  
 Number of Syndites: 0

Total Weight (carats)\*: 0.000  
 Number of Diamonds: 0

\* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

  
 Selection and Description  
 Tracy Gill  
 Mineralogy Technician

  
 Quality Control  
 Bruce Jago  
 Manager, Mineralogical Services

Note:

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31-Jul-03

## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278

LIMS No. MI0007-JUN03

Sample No. 105079

Client: Diamond Discoveries International Corp.

Sample Weight: 20.47kg

No.	Stone Dimension, mm			Weight		Colour	Clarity	Percent Preservation	Stone Description Morphology
	X	Y	Z	mg	Carats				
<b>+ 4.75 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	<b>Sub-Total</b>			
<b>-4.75 / + 3.35 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	<b>Sub-Total</b>			
<b>-3.35 / + 2.36 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	<b>Sub-Total</b>			
<b>-2.36 / + 1.70 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	<b>Sub-Total</b>			
<b>-1.70 / + 1.18 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	<b>Sub-Total</b>			
<b>-1.18 / + 0.85 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	<b>Sub-Total</b>			

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31-Jul-02

## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278

LIMS No. MI0007-JUN03

Sample No. 105079

Client: Diamond Discoveries International Corp.

Sample Weight: 20.47kg

No.	Stone Dimension, mm			Weight		Colour	Clarity	Percent Preservation	Stone Description Morphology
	X	Y	Z	mg	Carats				
<b>-850 / + 600 µm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-600 / + 425 µm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-425 / + 300 µm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-300 / + 212 µm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-212 / + 150 µm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-150 / + 100 µm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
0					0.000000	TOTAL			

Note 1: Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated.

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**DIAMOND RECOVERY BY CAUSTIC DISSOLUTION**

Project: 8901-278

Date: 06-Aug-03

Client: Diamond Discoveries International Corp.

LIMS No. MI0007-JUN03

Sample No. 105085

Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Rock fragments, oxides and silicates
-150	Ferromagnetic Mag	Oxides and silicates
-20+150	Paramagnetic Mag (0.1 amp)	Not applicable
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20-150	Diamagnetic Mag (0.5 amp)	Oxides and silicates
-20-150	Diamagnetic Non-mag (0.5 amp)	Oxides, silicates, and graphite

Sample Weight: 55.36kg  
 Number of Syndites: 0

Total Weight (carats)\*: 0.000  
 Number of Diamonds: 0

\* Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

  
 Selection and Description  
 Tracy Gill  
 Mineralogy Technician

\_\_\_\_\_  
 Quality Control  
 Bruce Jago  
 Manager, Mineralogical Services

Note:

SGS Lakefield Research Limited is not responsible for the determination of the origin, quality or value of any diamonds recovered. Each +35 mesh (Tyler sieve; +0.420 mm) stone was individually weighed, and the -35 mesh stones were weighed in groups. Stone dimensions are limited to accuracy of three dimensional measurements of irregular shapes using a petrographic microscope.

*Accredited by the Standards Council of Canada to the ISO/IEC Guide 25 standard for specific registered tests.*



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**DIAMOND RECOVERY BY CAUSTIC DISSOLUTION**

Project: 8901-278

Date: 06-Aug-03

Client: Diamond Discoveries International Corp.

LIMS No. MI0007-JUN03

Sample No. 105085

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 µm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 µm	0	0.000	0.000
	-425 / + 300 µm	0	0.000	0.000
	-300 / +212 µm	0	0.000	0.000
	-212 / +150 µm	0	0.000	0.000
	-150 / +100 µm	0	0.000	0.000
	<b>TOTAL</b>	<b>0</b>	<b>0.000</b>	<b>0.000</b>

Sample Weight: 55.36kg  
 Number of Syndites: 0

Total Weight (carats)\*: 0.000  
 Number of Diamonds: 0

\* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.



Selection and Description  
 Tracy Gill  
 Mineralogy Technician

Quality Control  
 Bruce Jago  
 Manager, Mineralogical Services

Note:

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06-Aug-03

## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278

LIMS No. M10007-JUN03

Sample No. 105085

Client: Diamond Discoveries International Corp.

Sample Weight: 55.36kg

No.	Stone Dimension, mm			Weight		Colour	Clarity	Percent Preservation	Stone Description
	X	Y	Z	mg	Carats				Morphology
<b>+ 4.75 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-4.75 / + 3.35 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-3.35 / + 2.36 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-2.36 / + 1.70 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-1.70 / + 1.18 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-1.18 / + 0.85 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			

# SGS LAKEFIELD RESEARCH LIMITED

06-Aug-03

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## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278

LIMS No. MI0007-JUN03

Sample No. 105085

Client: Diamond Discoveries International Corp.

Sample Weight: 55.36kg

o.	Stone Dimension, mm			Weight		Colour	Clarity	Percent Preservation	Stone Description
	X	Y	Z	mg	Carats				Morphology
<b>-850 / + 600 µm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-600 / + 425 µm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-425 / + 300 µm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-300 / + 212 µm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-212 / + 150 µm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-150 / + 100 µm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
0					0.000000	TOTAL			

Note 1: Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated.

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**DIAMOND RECOVERY BY CAUSTIC DISSOLUTION**

Project: 8901-278

Date: 31-Jul-03

Client: Diamond Discoveries International Corp.

LIMS No. MI0007-JUN03

Sample No. 105090

Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Rock fragments, oxides and silicates
+150	Ferromagnetic Mag	Oxides
-20+150	Paramagnetic Mag (0.1 amp)	Not applicable
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Oxides and silicates
-20+150	Diamagnetic Non-mag (0.5 amp)	Oxides, silicates, and graphite

Sample Weight: 11.52kg

Total Weight (carats)\*: 0.000

Number of Syndites: 0

Number of Diamonds: 0

\* Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

  
 Selection and Description  
 Tracy Gill  
 Mineralogy Technician

  
 Quality Control  
 Bruce Jago  
 Manager, Mineralogical Services

Note:

SGS Lakefield Research Limited is not responsible for the determination of the origin, quality or value of any diamonds recovered. Each +35 mesh (Tyler sieve: +0.420 mm) stone was individually weighed, and the -35 mesh stones were weighed in groups. Stone dimensions are limited to accuracy of three dimensional measurements of irregular shapes using a petrographic microscope.

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## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278

Date: 31-Jul-03

Client: Diamond Discoveries International Corp.

LIMS No. MI0007-JUN03

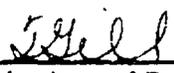
Sample No. 105090

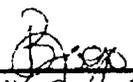
	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 µm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 µm	0	0.000	0.000
	-425 / + 300 µm	0	0.000	0.000
	-300 / +212 µm	0	0.000	0.000
	-212 / -150 µm	0	0.000	0.000
	-150 / +100 µm	0	0.000	0.000
	<b>TOTAL</b>	<b>0</b>	<b>0.000</b>	<b>0.000</b>

**Sample Weight: 11.52kg**  
**Number of Syndites: 0**

**Total Weight (carats)\*: 0.000**  
**Number of Diamonds: 0**

\* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

  
 Selection and Description  
 Tracy Gill  
 Mineralogy Technician

  
 Quality Control  
 Bruce Jago  
 Manager, Mineralogical Services

**Note:**

SGS Lakefield Research Limited is not responsible for the determination of the origin, quality or value of any diamonds recovered. Each +35 mesh (Tyler sieve; +0.420 mm) stone was individually weighed, and the -35 mesh stones were weighed in groups.

Accredited by the Standards Council of Canada to the ISO/IEC Guide 25 standard for specific registered tests.

# SGS LAKEFIELD RESEARCH LIMITED

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31-Jul-03

## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278

LIMS No. MI0007-JUN03

Sample No. 105090

Client: Diamond Discoveries International Corp.

Sample Weight: 11.52kg

No.	Stone Dimension, mm			Weight		Colour	Clarity	Percent Preservation	Stone Description Morphology
	X	Y	Z	mg	Carats				
<b>+ 4.75 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-4.75 / + 3.35 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-3.35 / + 2.36 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-2.36 / + 1.70 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-1.70 / + 1.18 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-1.18 / + 0.85 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			

# SGS LAKEFIELD RESEARCH LIMITED

31-Jul-03

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## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278

LIMS No. MI0007-JUN03

Sample No. 105090

Client: Diamond Discoveries International Corp.

Sample Weight: 11.52kg

No.	Stone Dimension, mm			Weight		Colour	Clarity	Percent Preservation	Stone Description
	X	Y	Z	mg	Carats				Morphology
<b>-850 / + 600 <math>\mu</math>m fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-600 / + 425 <math>\mu</math>m fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-425 / + 300 <math>\mu</math>m fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-300 / + 212 <math>\mu</math>m fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-212 / + 150 <math>\mu</math>m fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-150 / + 100 <math>\mu</math>m fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
0					0.000000	TOTAL			

Note 1: Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated.

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 Email: [bjago@lakefield.com](mailto:bjago@lakefield.com)

**DIAMOND RECOVERY BY CAUSTIC DISSOLUTION**

Project: 8901-278

Date: 31-Jul-03

Client: Diamond Discoveries International Corp.

LIMS No. MI0007-JUN02

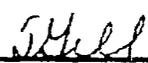
Sample No. 105095

Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Rock fragments, oxides and silicates
+150	Ferromagnetic Mag	Rock fragments and oxides
-20+150	Paramagnetic Mag (0.1 amp)	Not applicable
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Oxides and silicates
-20+150	Diamagnetic Non-mag (0.5 amp)	Oxides, silicates, and graphite

Sample Weight: 34.23kg  
 Number of Syndites: 0

Total Weight (carats)\*: 0.000  
 Number of Diamonds: 0

\* Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

  
 Selection and Description  
 Tracy Gill  
 Mineralogy Technician

  
 Quality Control  
 Bruce Jago  
 Manager, Mineralogical Services

**Note:**

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*Accredited by the Standards Council of Canada to the ISO/IEC Guide 25 standard for specific registered tests.*

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## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278

Date: 31-Jul-03

Client: Diamond Discoveries International Corp.

LIMS No. MI0007-JUN02

Sample No. 105095

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / + 0.85 mm	0	0.000	0.000
	-850 / + 600 µm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 µm	0	0.000	0.000
	-425 / + 300 µm	0	0.000	0.000
	-300 / +212 µm	0	0.000	0.000
	-212 / +150 µm	0	0.000	0.000
	-150 / +100 µm	0	0.000	0.000
	<b>TOTAL</b>	<b>0</b>	<b>0.000</b>	<b>0.000</b>

**Sample Weight: 34.23kg**  
**Number of Syndites: 0**

**Total Weight (carats)\*: 0.000**  
**Number of Diamonds: 0**

\* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

Selection and Description  
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 Mineralogy Technician

Quality Control  
 Bruce Jago  
 Manager, Mineralogical Services

**Note:**

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Fax: 705-652-3123

31-Jul-03

## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278

LIMS No. M10007-JUN02

Sample No. 105095

Client: Diamond Discoveries International Corp.

Sample Weight: 34.23kg

No.	Stone Dimension, mm			Weight		Colour	Clarity	Percent Preservation	Stone Description Morphology
	X	Y	Z	mg	Carats				
<b>+ 4.75 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-4.75 / + 3.35 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-3.35 / + 2.36 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-2.36 / + 1.70 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-1.70 / + 1.18 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			
<b>-1.18 / + 0.85 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	Sub-Total			

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31-Jul-03

## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278

LIMS No. MI0007-JUN02

Sample No. 105095

Client: Diamond Discoveries International Corp.

Sample Weight: 34.23kg

No.	Stone Dimension, mm			Weight		Colour	Clarity	Percent Preservation	Stone Description	
	X	Y	Z	mg	Carats				Morphology	
<b>-850 / + 600 <math>\mu</math>m fraction</b>										
0					0.000000					
0				0.000	0.000000	Sub-Total				
<b>-600 / + 425 <math>\mu</math>m fraction</b>										
0					0.000000					
0				0.000	0.000000	Sub-Total				
<b>-425 / + 300 <math>\mu</math>m fraction</b>										
0					0.000000					
0				0.000	0.000000	Sub-Total				
<b>-300 / + 212 <math>\mu</math>m fraction</b>										
0					0.000000					
0				0.000	0.000000	Sub-Total				
<b>-212 / + 150 <math>\mu</math>m fraction</b>										
0					0.000000					
0				0.000	0.000000	Sub-Total				
<b>-150 / + 100 <math>\mu</math>m fraction</b>										
0					0.000000					
0				0.000	0.000000	Sub-Total				
0					0.000000	TOTAL				

Note 1: Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated.

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Email: bjago@lakefield.com

## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278

Date: 31-Jul-03

Client: Diamond Discoveries International Corp.

LIMS No. MI0007-JUN03

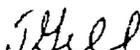
Sample No. 105103

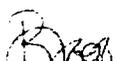
Mesh	Fraction	Dissolution Residue Description
+6	Ferromagnetic Non-mag	Not applicable
-6+20	Ferromagnetic Non-mag	Rock fragments, oxides and silicates
+150	Ferromagnetic Mag	Rock fragments, oxides and silicates
-20+150	Paramagnetic Mag (0.1 amp)	Not applicable
-20+150	Paramagnetic Mag (0.3 amp)	Not applicable
-20+150	Diamagnetic Mag (0.5 amp)	Oxides and silicates
-20+150	Diamagnetic Non-mag (0.5 amp)	Oxides, silicates, and graphite

Sample Weight: 16.94kg  
Number of Syndites: 0

Total Weight (carats)\*: 0.000  
Number of Diamonds: 0

\* Total Weight (carats) was calculated from mg weights. All reported mg weights are measured to within 0.002 mg.

  
\_\_\_\_\_  
Selection and Description  
Tracy Gill  
Mineralogy Technician

  
\_\_\_\_\_  
Quality Control  
Bruce Jago  
Manager, Mineralogical Services

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## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278

Date: 31-Jul-03

Client: Diamond Discoveries International Corp.

LIMS No. MI0007-JUN03

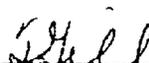
Sample No. 105103

	Diamond Size Fractions	Number of Stones in Group	Group Weight (mg)	Group Carats (calculated)
Stones Described and Weighed Individually	+ 4.75 mm	0	0.000	0.000
	- 4.75 / + 3.35 mm	0	0.000	0.000
	- 3.35 / + 2.36 mm	0	0.000	0.000
	- 2.36 / + 1.70 mm	0	0.000	0.000
	- 1.70 / + 1.18 mm	0	0.000	0.000
	- 1.18 / - 0.85 mm	0	0.000	0.000
	-850 / + 600 µm	0	0.000	0.000
Stones Described Individually / Group Weighed	-600 / + 425 µm	0	0.000	0.000
	-425 / + 300 µm	0	0.000	0.000
	-300 / +212 µm	0	0.000	0.000
	-212 / +150 µm	0	0.000	0.000
	-150 / +100 µm	0	0.000	0.000
	TOTAL	0	0.000	0.000

Sample Weight: 16.94kg  
 Number of Syndites: 0

Total Weight (carats)\*: 0.000  
 Number of Diamonds: 0

\* Total Weight (carats) was calculated from mg weights. All reported mg weights are weighed to within 0.002 mg.

  
 Selection and Description  
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 Quality Control  
 Bruce Jago  
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31-Jul-03

## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278

LIMS No. MI0007-JUN03

Sample No. 105103

Client: Diamond Discoveries International Corp.

Sample Weight: 16.94kg

No.	Stone Dimension, mm			Weight		Colour	Clarity	Percent Preservation	Stone Description Morphology
	X	Y	Z	mg	Carats				
<b>+ 4.75 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	<b>Sub-Total</b>			
<b>-4.75 / + 3.35 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	<b>Sub-Total</b>			
<b>-3.35 / + 2.36 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	<b>Sub-Total</b>			
<b>-2.36 / + 1.70 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	<b>Sub-Total</b>			
<b>-1.70 / + 1.18 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	<b>Sub-Total</b>			
<b>-1.18 / + 0.85 mm fraction</b>									
0					0.000000				
0				0.000	0.000000	<b>Sub-Total</b>			

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## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278

LIMS No. MI0007-JUN03

Sample No. 105103

Sample Weight: 16.94kg

Client: Diamond Discoveries International Corp.

No.	Stone Dimension, mm			Weight		Colour	Clarity	Percent Preservation	Stone Description
	X	Y	Z	mg	Carats				Morphology
<b>-850 / + 600 <math>\mu</math>m fraction</b>									
0					0.000000				
0				0.000	0.000000	<b>Sub-Total</b>			
<b>-600 / + 425 <math>\mu</math>m fraction</b>									
0					0.000000				
0				0.000	0.000000	<b>Sub-Total</b>			
<b>-425 / + 300 <math>\mu</math>m fraction</b>									
0					0.000000				
0				0.000	0.000000	<b>Sub-Total</b>			
<b>-300 / + 212 <math>\mu</math>m fraction</b>									
0					0.000000				
0				0.000	0.000000	<b>Sub-Total</b>			
<b>-212 / + 150 <math>\mu</math>m fraction</b>									
0					0.000000				
0				0.000	0.000000	<b>Sub-Total</b>			
<b>-150 / + 100 <math>\mu</math>m fraction</b>									
0					0.000000				
0				0.000	0.000000	<b>Sub-Total</b>			
0					0.000000	<b>TOTAL</b>			

Note 1: Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated.