## GM 61617

MICRODIAMOND EXTRACTION, SELECTION AND DESCRIPTION


# SGS Lakefield Research Limited <br> Mineralogical Services <br> Microdiamond Extraction, Selection and Description <br> Bathuueer naturelles et Fane, Quebec <br> 06 OCT. 2005 <br> Service de la Géoinformation 

FEGU AU Mme
07 OCT 2004
BUREAUDUREGISTRAIRE

NOTE: This report refers to the samples as received.
The practice of this Company in issuing reports of this nature is to require the recipient not to publish the report or any part thereof without the written consent of SGS Lakefield Research Limited.

## Lakefield Research

SGS Lakefield Research Limited | P.O. Box 4300, 185 Concession Street, Lakefield, Ontario, Canada KOL 2H0 Tel: (705) 652-2000 Fax: (705) 652.6365 www.lakefield.com www.sgs.com
Member of SGS Group (Societes Genéraie de Surveillance)

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\text { Tn } 04281027
$$

## Summary

## Microdiamond Extraction, Selection and Description

Microdiamond extraction, selection and description was performed for the fifteen rock samples listed below. The caustic dissolution residues were collected on a 150 mesh ( $100 \mu \mathrm{~m}$ ) screen, and then submitted for Frantz magnetic separation to concentrate the microdiamonds into the non-paramagnetic fraction. The results of the diamond selection process are reported as a Certificate of Analysis in Appendix A.

| $1: 90904$ | $4: 90908$ | $7: 90936$ | $10: 90942$ | $13: 92227$ |
| :---: | :---: | :---: | :---: | :---: |
| $2: 90905$ | $5: 90909$ | $8: 90938$ | $11: 92220$ | $14: 92228$ |
| $3: 90907$ | $6: 90927$ | $9: 90941$ | $12: 92226$ | $15: 92245$ |

As part of our on-going commitment to providing a high quality service and to monitor the recovery efficiency of sample material in each kiln pot, we put spikes in each sample and recovered these spikes at the end of the process during microdiamond selection. The recovery of coarse, 35 mesh spikes in this group of samples was $90 \%$ whereas the recovery of relatively fine, 80 mesh spikes was $85 \%$.

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

19 May 2004
Technical Support: Rob Gill and Scott Young, Elena Valeyeva and Zakia Al Haddad.

## APPENDIX A

CERTIFICATE OF ANAL.YSIS
RESULTS OF MICRODIAMOND EXTRACTION, SELECTION AND DESCRIPTION

## Diamond Discoveries International Corp. c/o Prospecting Geophysics <br> Attn: Peter Ferderber <br> Lakefield Friday, April 30, 2004

114 Villeneuve Street

- Val D'Or, Quebec - j9P 3L7

Canada
Fax :(819) 824-3866

Date Rec. : 22 March 2004
LR. Ref. : M10005-MAR04
Project: 8901-278

## CERTIFICATE OF ANALYSIS

| Sample ID | *Login Wt <br> kg | \# Pours <br> *Dia <br> $\#$ | *Dia <br> (ct) |  |
| :--- | ---: | ---: | ---: | ---: |
| $1: 90904$ | 19.3 | 3 | 0 | 0.000 |
| $2: 90905$ | 60.5 | 9 | 0 | 0.000 |
| $3: 90907$ | 37.1 | 6 | 0 | 0.000 |
| $4: 90908$ | 52.4 | 8 | 0 | 0.000 |
| $5: 90916$ | 43.5 | 7 | 0 | 0.000 |
| $6: 90927$ | 61.0 | 9 | 0 | 0.000 |
| $7: 90936$ | 35.3 | 5 | 0 | 0.000 |
| $8: 90938$ | 22.1 | 3 | 0 | 0.000 |
| $9: 90941$ | 48.1 | 7 | 0 | 0.000 |
| $10: 90942$ | 15.0 | 2 | 0 | 0.000 |
| $11: 92220$ | 15.2 | 2 | 0 | 0.000 |
| $12: 92226$ | 15.3 | 2 | 0 | 0.000 |
| $13: 92227$ | 14.5 | 2 | 0 | 0.000 |
| $14: 92228$ | 18.5 | 3 | 0 | 0.000 |
| $15: 92245$ | 22.8 | 3 | 0 | 0.000 |



## SCS LakefieldResearch

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Lakefield, Ontario
Fax: (705) 652-3123
KOL 2HO, CANADA
Email: bjago@lakefield.com

## DIAMOND RECOVERY BY CAUSTIC DISSOIUTION

Project: 8901-278
Clicnt: Diamond Discoveries International Corp.

Date: April 20, 2004
LIMS No. MI0005-MAR04
Sample No. 90904

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

Sarnple Weight: 19.30 kg Number of Syudites: 0

Total Weight (carats)*: 0.000

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


Selection and Description
Zakia AL-LLaddad
Mincralogy Technician


Note:
SGS Lakefield Researeh Limited is not responsible for the detemination of the origin, cuality or value of any diamonds recovered. Each +35 mosh ( $T$ yler sieve; +0.420 mm ) stone was individually weighed, and the -35 mesh stones were weighed in groups. Stone dimensions are limited to acearacy of three dimensional measurements of irregular shapes using a pelrographic microscope.

Accrodiled by the Standards Council of Conada to the ISOAEC' Guide 25 standend for specific resisterced texts.

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## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278
Client: Diamond Discoveries International Corp.

Date: April 20, 2004
LIMS No. MI0005-MAR04 Sample No. 90904


Sample Weight: 19.30 kg 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
Zakia AI-Haddad
Mineralogy Technician


Quality Control
I:lena Valeyeva
Mineralogy Technician

Note:
SGS Lakefied 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 BOAEC Guide 25 standard for specific registered tests.

## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

## Project: 8901-278

Client: Djamond Discoveries International Corp.
LIMS No. MIO005-MAR04 Sample No. 90904
Sample Weight: $19.30 \mathbf{k g}$

| No. | Stone Dimension, mm |  |  | Weight |  | Colour | Clarity | Percent Preservation | Stone DescriptionMorphology |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | X | Y | 2 | mg | Carats |  |  |  |  |
| +4.75 mm fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tot |  |  |  |
| -4.75 / + 3.35 mm fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.creceo |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000 ClO | Sub-Tot |  |  |  |
| $-3.35 /+2.36 \mathrm{~mm}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.600000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.600000 | Sub-Tot |  |  |  |
| $-2.36 /+1.70 \mathrm{~mm}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.600000 | Sub-Tot |  |  |  |
| $-1.70 /+1.18 \mathrm{~mm}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.00000 | Sub-Tot |  |  |  |
| $-1.18 /+0.85 \mathrm{~mm}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.600 | 0.000000 | Sub-Tot |  |  |  |
| $-850 /+600 \mu m$ fracfion |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tot |  |  |  |
| $-600 /+425 \mu m$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tot |  |  |  |

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

## Project: 8901-278

Client: Diamond Discoveries International Corp.

LIMS No. M10005-MLAR04 Sample No. 90904
Sample Weight: 19.30 kg

| No. | Stone Dimension, mm |  |  | Weight |  | Colour | Clarity | Percent Preservation | $\frac{\text { Stone Description }}{\text { Morphology }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | X | Y | Z | mg | Carats |  |  |  |  |
| -425/+300 $\mu \mathrm{m}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tota |  |  |  |
| $-300 /+212 \mu m$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.600 | 0.000000 | Sub-Tot |  |  |  |
| $-212 /+150 \mu m$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.090 | 0.000000 | Sub-Tota |  |  |  |
| $-150 /+100 \mu m$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tota |  |  |  |


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

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## DIAMOND RECOVERY BY CAUSTIIC DISSOLUTION

Project: 8901-278
Client: Diamond Discoverics International Corp.

Date: April 27, 2004
LIMS No. M10005-MAR04
Sample No. 90905

|  | Diamond Size Fractions | Number of Stones in Group | $\begin{gathered} \text { Group Weight } \\ (\mathrm{mgg}) \end{gathered}$ | Group Carats (calculated) |
| :---: | :---: | :---: | :---: | :---: |
|  | + 4.75 mm | 0 | 0.000 | 0.000 |
|  | $-4.75 /+3.35 \mathrm{~mm}$ | 0 | 0.000 | 0.000 |
|  | -3.35/+2.36 mm | 0 | 0.000 | 0.000 |
|  | $-2.36 /+1.70 \mathrm{~mm}$ | 0 | 0.000 | 0.000 |
|  | $-1.70 /+1.18 \mathrm{~mm}$ | 0 | 0.000 | 0.000 |
|  | $-1.18 /+0.85 \mathrm{~mm}$ | 0 | 0.000 | 0.000 |
|  | $-850 /+600 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | $-600 /+425 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | -425 / + $300 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | -300/+212 $\mu \mathrm{m}$ | 0 | 0.000 | 0.000 |
|  | $-212 /+150 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | $-150 /+100 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | TOTAL | 0 | 0.000 | 0.000 |

Sample Weight: 60.50 kg
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
Takia AL-Haddad
Mineralogy Technician


Quality Control
Maria Mezei
Mineralogy Tecimician

Note:
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Accredited by the Standards Council of Canada to the ISOIEC. Guide 25 standard for specific ecgastered tests.

# Fax: 705-652-3123 

## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278
LIMS Ň̃. MI0005-:VAR04
Sample Nंo. 90905
Client: Diamond Discoveries International Corp.
Sample Weight: 60.50 kg

| No. | Stone Dimension, mm |  |  | Weight |  | Colour Clarity |  | Percent Preservation | Stone Description Morphology |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | X | Y | Z | mg | Carats |  |  |  |  |
| +4.75 mm fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tota |  |  |  |
| -4.75/+3.35 mm fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tota |  |  |  |
| $-3.35 /+2.36 \mathrm{~mm}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tota |  |  |  |
| $-2.36 /+1.70 \mathrm{~mm}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tota |  |  |  |
| $-1.70 /+1.18 \mathrm{~mm}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tot |  |  |  |
| $-1.18 /+0.85 \mathrm{~mm}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tota |  |  |  |
| $.850 /+600 \mu \mathrm{~m}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tota |  |  |  |
| $-600 /+425 \mu m$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tot |  |  |  |

## SGS LAKEFIELD RESEARCH LIMITED

## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

## Project: 8901-278

Client: Diamond Discoveries International Corp.
LIMS No. MI0005-MAR04
Sample No. 90905
Sample Weight: 60.50 kg

| No. | Stone Dimension, mm |  |  | Weight |  | Colour |  | Percent Preservation | $\begin{aligned} & \text { Stone Description } \\ & \hline \text { Morphology } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | X | Y | Z | mg | Carats |  | Clarity |  |  |
| $-425 /+300 \mu m$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000600 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.060060 | Sub-Tota |  |  |  |
| $-300 /+212 \mu m$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.060000 | Sub-Tota |  |  |  |
| $-212 /+150 \mu \mathrm{~m}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000600 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.030060 | Sub-Tota |  |  |  |
| $-150 /+100 \mu m$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tota |  |  |  |


| 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
Client: Diamond Discoveries International Corp.

Datc: Apri] 27, 2004
LIMS No. M10005-MAR04 Sample No. 90907

| Mesh | Fraction | Dissolution Residuc Description |
| :---: | :--- | :--- |
| +6 | Ferromagnetic Non-mag | Not applicable |
| $-6+20$ | Fcromagnetic Non-mag | Oxides and rock fragments |
| +150 | Ferromagnctic Mag | Oxides and rock fragments |
| $-20+150$ | Paramagnetic Mag (0.1 amp) | Not applicable |
| $-20+150$ | Paramagnetic Mag ( 0.3 amp ) | Not applicable |
| $-20+150$ | Diamagnetic Mag (0.5 amp) | Oxides, silicates, and rock fragments |
| $-20+150$ | Diamagnetic Non-mag (0.5 amp) | Oxides, silicates, and graphite |

Sample Weight: 37.10 kg Number of Syudites: 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 .


Sclection and Description
Zakia AL-Haddad
Mincralogy Technician


Note:
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Aceredited by the Standards Council of Canada to the ISOOIEC Guide 25 standard for specific registered tests.

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278
Client: Diamond Discoveries International Corp.

Date: April 27, 2004
LIMS No. MI0005-MAR04 Sample No. 90907


Sample Weight: 37.10 kg
Total Weight (carats)*: 0.000
Number of Syndites: 0
Number of Diamonds: 0

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


Selection and Description
Zakia AL-Haddad
Mineralogy Technician


Quality Control
Fiona Valcyeva
Mineralogy Technician

Note:
SGS Lakeficid 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 ISOIEC Guide 25 standard for specific registered tests.

## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

## Project: 8901-278

Client: Diamond Discoveries International Corp.

| No. | Ston | mens | mm |  | ght |  |  | Percent | Stone Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | X | Y | Z | mg | Carats | Colour | Clarity | Preservation | Morphology |
| +4.75 mm fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.065600 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000060 | Sub-Total |  |  |  |
| -4.75/+3.35 mm fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000009 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Total |  |  |  |
| -3.35/+2.36 mm fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Total |  |  |  |
| -2.36/+1.70 mm fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Total |  |  |  |
| -1.70/+1.18 mm fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Total |  |  |  |
| $-1.18 /+0.85 \mathrm{~mm}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Total |  |  |  |
| -850/+600 $\mu \mathrm{m}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0. |  |  |  | 0.600 | 0.000000 | Sub-Total |  |  |  |
| -600/ $+425 \mu \mathrm{~m}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Total |  |  |  |

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## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278

Client: Diamond Discoveries International Corp.

| No. | Stone Dimension, mm |  |  | Weight |  | Colour | Clarity | PercentPreservation | Stone Description Morpholagy |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | X | Y | Z | mg | Carats |  |  |  |  |
| $-425 /+300 \mu m$ fracfion |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tot |  |  |  |
| $-300 /+212 \mu m$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tol |  |  |  |
| $-212 /+150 \mu m$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tot |  |  |  |
| $-150 /+100 \mu m$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0 COO | 0.000000 | Sub-Tol |  |  |  |


| 0 |  | 0.000000 | TOTAL |
| :--- | :--- | :--- | :--- |

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

LIMS No. MI0005-MAR04
Sample No. 90907
Sample Weight: $\mathbf{3 7 . 1 0} \mathbf{~ k g}$

## SBI LakefieldResearch $\rightarrow$

SGS Lakefield Research Limited 185 Concession St., Box 4300
Lakefield, Ontario
KOL 2HO, CANADA
Tel: (705) 652-2112
Fax: (705) 652-3123
Email: bjago@lakefield.com

## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278
Clicnt: Diamond Discoveries International Corp.

Datc: April 27, 2004
LIMS No. MI0005-MAR04
Sample No. 90908

| Mesh | Fraction | Dissolution Residue Description |
| :---: | :--- | :--- |
| +6 | Ferromagnetic Non-mag | Not applicable |
| $-6+20$ | Terromagnetic Non-mag | Oxides and rock fragments |
| +150 | Ferromagnetic Mag | Oxides, silicates, and rock fragments |
| $-20+150$ | Paramagnetic Mag (0.1 amp) | Not applicable |
| $-20+150$ | Paramagnctic 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: 52.40 kg
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
Zakia AL-Haddad
Mincralogy Technician


Quality Control
Elena Valeyeva
Mincralogy Technician

Note:
SGS Lakefied Rescarch Limited is nol responsible for the determination of the origin, qualily or value of any diamonds recovered. Each +35 mesh (Tyler sieve; +0.420 mm ) storte was individnally weighed, and the -35 mesh stones were weighed in groups. Stone dimensions are limited to accuracy of thee dimensional measurements of imegular shapas using a petrographic microscope.

Accredited by the Standards Council of Canada to the $1 S O$ IIEC Guide 25 stamdard for specific: registered test.s.

## SCS LakefieldResearch

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Email: bjago@lakefield.com

## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278
Client: Diamond Discoverics International Corp.

Date: April 27, 2004
LIMS No. M10005-MAR04 Sample No. 90908

|  | Diamond Size Fractions | Number of Stones in Group | Group Weight (mg) | Group Carats (calculated) |
| :---: | :---: | :---: | :---: | :---: |
|  | $+4.75 \mathrm{~mm}$ | 0 | 0.000 | 0.000 |
|  | $-4.75 /+3.35 \mathrm{~mm}$ | 0 | 0.000 | 0.000 |
|  | $-3.35 /+2.36 \mathrm{~mm}$ | 0 | 0.000 | 0.000 |
|  | $-2.36 /+1.70 \mathrm{~mm}$ | 0 | 0.000 | 0.000 |
|  | $-1.70 /+1.18 \mathrm{~mm}$ | 0 | 0.000 | 0.000 |
|  | $-1.18 /+0.85 \mathrm{~mm}$ | 0 | 0.000 | 0.000 |
|  | $-850 /+600 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | $-600 /+425 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | $-425 /+300 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | $-300 /+212 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | $-212 /+150 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | $-150 /+100 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | TOTAL | 0 | 0.000 | 0.000 |

Sample Weight: 52.40 kg 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 .


Selcetion and Description
Zakia AL-Haddad
Mineralogy Technician


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

Accredited by the Standards Conncil of Canada to the ISOMEC Guide 25 standard for specifoe registered tests.

## SGS LAKEFIELD RESEARCH LIMITED

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Fax: 705-652-3123

## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278

Client: Diamond Discoveries Internatiomal Corp.

| No. | Stone Dimension, mm |  |  | Weight |  |  |  | Peicent Preservation | Stone DescriptionMorphology |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | X | Y | Z | mg | Carats | Colour | Clarity |  |  |
| +4.75 mm fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tota |  |  |  |
| $-4.75 /+3.35 \mathrm{~mm}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.100 | 0.000000 | Sub-Tota |  |  |  |
| -3.35/+2.36 mm fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tota |  |  |  |
| $-2.36 /+1.70 \mathrm{~mm}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tota |  |  |  |
| $-1.70 /+1.18 \mathrm{~mm}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tota |  |  |  |
| -1.18/+0.85 mm fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.600000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.600000 | Sub-Tota |  |  |  |
| $-850 /+600 \mu m$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.600000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tota |  |  |  |
| $-600 /+425 \mu m$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tota |  |  |  |

## SGS LAKEFIELD RESEARCH LIMITED

April 27, 2004
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Fax: 705-652-3123

## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278

Client: Diamond Discoveries International Corp.

| No. | Stone Dimension, mm |  |  | Weight |  | Colour | Clarity | Percent Preservation | Stone DescriptionMorphology |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | X | $Y$ | Z | mg | Carats |  |  |  |  |
| $-425 /+300 \mu m$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tot |  |  |  |
| $-300 /+212 \mu m$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.060000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0 Cracto | Sub-Tot |  |  |  |
| $-212 /+150 \mu \mathrm{~m}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | B.emedo |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tot |  |  |  |
| $-150 /+100 \mu \mathrm{~m}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tot |  |  |  |


| 0 |  | 0.000000 | TOTAL |
| :--- | :--- | :--- | :--- |

Note 1: Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannol be estimated.

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## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278
Client: Diamond Discoveries Intermational Corp.

Datc: April 27, 2004
LIMS No. MI0005-MAR04
Sample No. 90916

| Mesli | 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: 43.50 kg
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
Zakia AL-Haddad
Mineralogy Tcchnician


Note:
SGS Lakefield Research Limited is nol responsible for the determination of the origin, quality or valuc of any diamonds recovered. Each 4.35 mesin (Tyler sieve; +0.420 mm ) stone was individually weighed, and the -35 mesh stones were weighed in groups. Stone dimensions are limited to aceuracy of three dimersional measurements of irregular shapes using a petrographic microseope.

Accredited by the Standards Council of Canade to the ISOIECC Guide 25 standard for specific registered tests.

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## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278
Client: Diamond Discoveries International Corp.

Datc: April 27, 2004
LIMS No. M10005-MAR04 Sample No. 90916

|  | Diamond Size Fractions | Number of Stones in Group | $\begin{gathered} \text { Group Weight } \\ (\mathrm{mg}) \end{gathered}$ | Group Carats (calculated) |
| :---: | :---: | :---: | :---: | :---: |
|  | + 4.75 mm | 0 | 0.000 | 0.000 |
|  | $-4.75 /+3.35 \mathrm{~mm}$ | 0 | 0.000 | 0.000 |
|  | - $3.35 /+2.36 \mathrm{~mm}$ | 0 | 0.000 | 0.000 |
|  | $-2.36 /+1.70 \mathrm{~mm}$ | 0 | 0.000 | 0.000 |
|  | -1.70/+1.18 mm | 0 | 0.000 | 0.000 |
|  | $-1.18 /+0.85 \mathrm{~mm}$ | 0 | 0.000 | 0.000 |
|  | $-850 /+600 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | $-600 /+425 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | $-425 /+300 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | $-300 /+212 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | $-212 /+150 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | $-150 /+100 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | TOTAL | 0 | 0.000 | 0.000 |

Sample Weight: $\mathbf{4 3 . 5 0} \mathbf{~ k g}$ 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 .


Note:
SGS Lakefield Rescarch Limited is not responsible for the detemination of the origin, quality or value of any diamonds recovered. Each +35 mesh (Tyler sieve; +0.420 mm ) stonc was mdividually weighed, and the 35 mesh stones were weighed in groups.

Accredited by the Stundards Council of Canada to the ISOIIEC. Guide 25 standard for specifie registered texts.

## SGS LAKEFIELD RESEARCH LIMITED

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278
Client: Diamond Discoveries International Corp.

| No. | Stone Dimension, mm |  |  | Weight |  | Colour | Clarity | Percent Preservation | Stone Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | X | Y | Z | mg | Carats |  |  |  |  |
| +4.75 mm fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tot |  |  |  |
| $-4.75 /+3.35 \mathrm{~mm}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000009 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tot |  |  |  |
| $-3.35 /+2.36 \mathrm{~mm}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tot |  |  |  |
| $-2.36 /+1.70 \mathrm{~mm}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.600 | 0.000000 | Sub-Tot |  |  |  |
| $-1.70 /+1.18 \mathrm{~mm}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.600 | 0.000000 | Sub-Tot |  |  |  |
| $-1.18 /+0.85 \mathrm{~mm}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tot |  |  |  |
| $-850 /+600 \mu m$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000006 | Sub-Tot |  |  |  |
| -600/+425 $\mu \mathrm{m}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tot |  |  |  |

## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278

Client: Diamond Discoveries International Corp.

| No. | Stone Dimension, mm |  |  | Weight |  | Colour | Clarity | Percent Preservation | Stone Description Morphology |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | X | Y | z | mg | Carats |  |  |  |  |
| $-425 /+300 \mu m$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.60000 |  |  |  |  |
| 0 |  |  |  | 0.60 | 0.000000 | Sub-Tota |  |  |  |
| $-300 /+212 \mu m$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tota |  |  |  |
| $-212 /+150 \mu m$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tota |  |  |  |
| $-150 /+100 \mu m$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000600 |  |  |  |  |
| 0 | 0.0010 |  |  |  | 0.000060 | Sub-Total |  |  |  |
| 0 0.000000 TOTAL |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Nole 1: Diamond Fragments - No Cr/stal Faces - Preservation (Resorption) cannot be estimated.

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## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278
Client: Diamond Discoveries International Corp.

Tel: (705) 652-2112
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Email: bjago@lakefield.com

Datc: April 27, 2004
LIMS No. MI0005-MAR04
Sample No. 90927

| Mesh | Fraction | Dissolution Residue Description |
| :---: | :--- | :--- |
| +6 | Fcromagnetic Non-mag | Not applicable |
| $-6+20$ | Ferromagnetic Non-mag | Oxides |
| +150 | Fermomagnetic 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 |
| $-20+150$ | Diamagnetic Non-mag (0.5 amp) | Oxides, silicates, and grapbite |

Sample Weight: 61.00 kg 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
Zakia AL-Haddad
Mineralogy Technician


Quality Conirol
Elena Valcyeva
Mincralogy Tcchnician

Note:
SGS Lakefield Research Limited is not responsible for the determination of the origin, quality or value of any diamonds recovered. Each $\cdot 135$ 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 microseope.

Accredited by the Standards Council of Canada to the 1 SOMEC Guide 25 standard for specific registered tests.

## Ses LakefieldResearch $\rightarrow$

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## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278
Clicnt: Diamond Discoveries International Corp.

Datc: April 27, 2004
LIMS No. M10005-MAR04 Sample No. 90927

|  | Diamond Size Fractions | Number of Stones in Group | $\begin{gathered} \text { Group Weight } \\ \text { (mg) } \end{gathered}$ | Group Carats (calculated) |
| :---: | :---: | :---: | :---: | :---: |
|  | $+4.75 \mathrm{~mm}$ | 0 | 0.000 | 0.000 |
|  | $-4.75 /+3.35 \mathrm{~mm}$ | 0 | 0.000 | 0.000 |
|  | $-3.35 /+2.36 \mathrm{~mm}$ | 0 | 0.000 | 0.000 |
|  | $-2.36 /+1.70 \mathrm{~mm}$ | 0 | 0.000 | 0.000 |
|  | $-1.70 /+1.18 \mathrm{~mm}$ | 0 | 0.000 | 0.000 |
|  | $-1.18 /+0.85 \mathrm{~mm}$ | 0 | 0.000 | 0.000 |
|  | $-850 /+600 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | $-600 /+425 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | $-425 /+300 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | $-300 /+212 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | $-212 /+150 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | $-150 /+100 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | TOTAL | 0 | 0.000 | 0.000 |

Sample Weight: 61.00 kg Number of Syndites: 0

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

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


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

## SGS LAKEFIELD RESEARCH LIMITED

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## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278
Client: Diamond Discoveries International Corp.

| No. | Stone Dimension, mm |  |  | Weight |  | Colour | Clarity | Percent Preservation | Stone Description Morphology |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | X | Y | Z | mg | Carats |  |  |  |  |
| +4.75 mm fracion |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.006000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.006000 | Sub-Tota |  |  |  |
| $-4.75 /+3.35 \mathrm{~mm}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000600 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000060 | Sub-Tota |  |  |  |
| $-3.35 /+2.36 \mathrm{~mm}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tot |  |  |  |
| $-2.36 /+1.70 \mathrm{~mm}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.006000 | Sub-Tot |  |  |  |
| $-1.70 /+1.18 \mathrm{~mm}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tot |  |  |  |
| $-1.18 /+0.85 \mathrm{~mm}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tot |  |  |  |
| $-850 /+600 \mu m$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.600 | 0.000000 | Sub-Tot |  |  |  |
| $-600 /+425 \mu m$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tot |  |  |  |

Sample No. 90927
Sample Weight: 61.00 kg

## SGS LAKEFIELD RESEARCH LIMITED

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E-mail: bjago@lakefield.com
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## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278
Client: Diamond Discoveries International Corp.
LIMS No. Mr0005-MAR04
Sample No. 90927
Sample Weight: 61.00 kg

| No. | Stone Dimension, mm |  |  | Weight |  |  |  | Percent Preservation | Stone Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | X | Y | z | mg | Carats | Colour | Clarity |  |  |
| -425/+300 $\mu \mathrm{m}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Total |  |  |  |
| $-300 /+212 \mu \mathrm{~m}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | $0 . C C 0000$ | Sub-Total |  |  |  |
| .212/+150 $\mu \mathrm{m}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Total |  |  |  |
| -150/+100 $\mu \mathrm{m}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-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
Client: Diamond Discoveries International Corp.

Date: April 27, 2004
LIMS No. M10005-MAR04
Sample No. 90936

| Mesh | Fraction | Dissolution Residue Description |
| :---: | :--- | :--- |
| +6 | Ferromagnetic Non-mag | Not applicable |
| $-6+20$ | Ferromagnctic Non-mag | Oxides and rock fragments |
| +150 | Ferromagnctic Mag | Oxides and rock fragments |
| $-20+150$ | Paramagnetic Mag (0.1 amp) | Not applicable |
| $-20+150$ | Paramagnetic Mag (0.3 amp) | Not applicable |
| $-20+150$ | Diamagnetic Mag ( 0.5 amp $)$ | Oxides, silicates, and rock fragments |
| $-20+150$ | Diamagnctic Non-mag (0.5 amp) | Oxides, silicatcs, and graphite |

Sample Weight: 35.30 kg
Number of Syadites: 0

Total Weight (carals)*: 0.000
Number of Diamonds: 0

* Total Weight (carats) was calculated from my weights. All reported mg woights are measured to within 0.0012 mg .


Note:
SOS Lakefied Research Limited is net responsible for the determination of the origin, quality or value of any diamonds recovered. Each +35 mesh (Tyler sieve; 40.420 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.

## LakefieldResearch $\rightarrow$

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278
Client: Diamond Discoveries International Corp.

Date: April 27, 2004
LIMS No. MI0005-MAR04
Sample No. 90936


Sample Weight: 35.30 kg Number of Syndites: 0

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

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


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

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## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278
Client: Diamond Discoveries International Corp.

| No. | Stone Dimension, mm |  |  | Weight |  | Colour | Clarity | Percent Preservation | Stone Description Morphology |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | X | Y | Z | mg | Carats |  |  |  |  |
| +4.75 mm fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tot |  |  |  |
| $-4.75 /+3.35 \mathrm{~mm}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tot |  |  |  |
| $-3.35 /+2.36 \mathrm{~mm}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tot |  |  |  |
| $-2.36 /+1.70 \mathrm{~mm}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Total |  |  |  |
| $-1.70 /+1.18 \mathrm{~mm}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.050000 | Sub-Tot |  |  |  |
| $-1.18 /+0.85 \mathrm{~mm}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.CECECO |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tot |  |  |  |
| $-850 /+600 \mu m$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tot |  |  |  |
| $-600 /+425 \mu \mathrm{~m}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tot |  |  |  |

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## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278
Client: Diamond Discoveries International Corp.
LIMS No. MI0005-MAR04
Sample No. 90936
Sample Weight: $\mathbf{3 5 . 3 0} \mathbf{~ k g}$

| No. | Stone Dimension, mm |  |  | Weight |  | Colour |  | Percent Preservation | $\begin{aligned} & \text { Stone Description } \\ & \text { Morphology } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | X | Y | 2 | mg | Carats |  | Clarity |  |  |
| $-425 /+300 \mu m$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-rot |  |  |  |
| $-300 /+212 \mu m$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.600 | 0.000000 | Sub-Tot |  |  |  |
| $-212 /+150 \mu m$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.030 | 0.000000 | Sub-Tot |  |  |  |
| $-150 /+100 \mu m$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.440 | 0.000000 | Sub-Tot |  |  |  |

0
0.000000 TTOTAL

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

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## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

$\begin{aligned} \text { Project: } & \text { 8901-278 } \\ \text { Client: } & \text { Diamond Discoveries International Corp. }\end{aligned}$

Date: April 27, 2004
LIMS No. MI0005-MAR04
Sample No. 90938

| Meslı | Fraction | Dissolution Residue Description |
| :---: | :--- | :--- |
| +6 | Ferromagnetic Non-mag | Not applicable |
| $-6+20$ | Fcrromagnetic Non-mag | Oxides and rock fragments |
| +150 | Fcromagnetic Mag | Oxides, silicates, and rock fragments |
| $-20+150$ | 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 |
| $-20+150$ | Diamagnctic Non-mag ( 0.5 amp ) | Oxides, silicates, and graphite |

Sample Weight: 22.10 kg Number of Syndites: 0

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

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


Selection and Description
Zakia AL-Haddad
Mincralogy Technician


Note:
SGS Lakefield Rescarch Limited is not responsible for the determination of the origin, quality or value of any diamonds recovered. Each +35 mesh (Tyler sieve; $+0,420 \mathrm{~mm}$ ) stone was individually weighed, and the -35 mesh stones were weighed in groups. Stome dimensions are limited to accuracy of three dimensional meanutements of irregular shapes using a petrographic microscope.

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## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278
Clicnt: Diamond Discoveries International Corp.

Date: April 27, 2004
LIMS No. M10005-MAR04
Sample No. 90938

|  | Diamond Size Fractions | Number of Stones in Group | Group Weight (mg) | Group Carals (calculated) |
| :---: | :---: | :---: | :---: | :---: |
|  | $+4.75 \mathrm{~mm}$ | 0 | 0.000 | 0.000 |
|  | $-4.75 /+3.35 \mathrm{~mm}$ | 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 |
|  | $-1.18 /+0.85 \mathrm{~mm}$ | 0 | 0.000 | 0.000 |
|  | $-850 /+600 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | $-600 /+425 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | $-425 /+300 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | $-300 /+212 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | $-212 /+150 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | -150/+100 $\mu \mathrm{m}$ | 0 | 0.000 | 0.000 |
|  | TOTAL | 0 | 0.000 | 0.000 |

Sample Weight: 22.10 kg
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 withm 0.002 mg .

Selection and Description
Zakia AL-Haddad Mincralogy Technician


Note:
SGS Lakeficld Rescarch Limited is not responsible for the detcrmination of the ongin, quality or value of any diamonds recovered. Each +35 mesh (Tyler sicve; +0.420 mm ) stone was individually weighed, and the -35 mesh stones were weighed in groups.

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## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278

Client: Diamond Discoveries International Corp.

LIMS No. M10005-MAR04
Sample No. 90938
Sample Weight: 22.10 kg


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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278

Client: Diamond Discoveries International Corp.

LIMS No. M10005-MAR04
Sample No. 90938
Sample Weight: 22.10 kg

| No. | Stone Dimension, mm |  |  | Weight |  |  |  | Percent | Stone Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | X | Y | Z | mg | Carals | Colour | Clarity | Preservation | Marphology |
| $-425 /+300 \mu m$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.600000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.008000 | Sub-Tota |  |  |  |
| $-300 /+212 \mu m$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tota |  |  |  |
| $-212 /+150 \mu m$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tota |  |  |  |
| $-150 /+100 \mu \mathrm{~m}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tota |  |  |  |


| 0 | 0.000000 | TOTAL |
| :--- | :--- | :--- | :--- |

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

## SCS LakefieldResearch

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## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278
Date: April 27, 2004
Client: Diamond Discoveries Intexnational Corp.
LIMS No. M10005-MAR04

Sample No. 90941

| Mesh | Fraction | Dissolution Residue Description |
| :---: | :--- | :--- |
| +6 | Feromagnetic Non-mag | Not applicable |
| $-6+20$ | Ferromagnetic Non-mag | Oxides |
| +150 | Ferromagnetic Mag | Oxides and silicates |
| $-20+150$ | Paramagnctic Mag ( 0.1 amp$)$ | Not applicable |
| $-20+150$ | Paramagnctic Mag ( 0.3 amp$)$ | Not applicable |
| $-20+150$ | Diamagnetic Mag $(0.5 \mathrm{amp})$ | Oxides and silicates |
| $-20+150$ | Diamagnetic Non-mag $(0.5 \mathrm{amp})$ | Oxides, silicates, and graphite |

Sample Weight: 48.10 kg
Number of Syndites: 0

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

* Total Woight (carats) was calculated from mg weights. All reporied nig weights are measured to within 0.002 mg .


Selection and Description Zakia AL-Haddad
Mincralogy Teemician


Quality Control
Maria Mczei
Mineralogy Tcelnnician

Note:
SGS Lakefiell Researeh Limited is wot responsible for the detemination of the origin, quality or value of sny diamonds recovered. Each 1.35 mesh (Tylet sieve; +0.420 mm ) stone was individually weighed, and the -35 mesh stones were weighed in groups. Stone dimensions are limited to aceuracy of ehree dimensional measurements of inegular shapes using a perrographic microscope.

Accredited by the Standards Conncil of Canada to the ISOMEC: Guvide 25 wandard for specific registered tests.

## SEM LakefieldResearch <br> 

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## DLAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278
Client: Diamond Discoveries International Corp.

Date: April 27, 2004
LIMS No. MI0005-MAR04 Sample No. 90941

|  | Diamond Size Fractions | Number of Stones in Group | $\begin{gathered} \text { Group Weight } \\ (\mathrm{mg}) \end{gathered}$ | Group Carats (calculated) |
| :---: | :---: | :---: | :---: | :---: |
|  | $+4.75 \mathrm{~mm}$ | 0 | 0.000 | 0.000 |
|  | $-4.75 /+3.35 \mathrm{~mm}$ | 0 | 0.000 | 0.000 |
|  | $-3.35 /+2.36 \mathrm{~mm}$ | 0 | 0.000 | 0.000 |
|  | $-2.36 /+1.70 \mathrm{~mm}$ | 0 | 0.000 | 0.000 |
|  | $-1.70 /+1.18 \mathrm{~mm}$ | 0 | 0.000 | 0.000 |
|  | -1.18/+0.85 mm | 0 | 0.000 | 0.000 |
|  | $-850 /+600 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | $-600 /+425 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | $-425 /+300 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | $-300 /+212 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | $-212 /+150 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | $-150 /+100 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | TOTAL | 0 | 0.000 | 0.000 |

Sample Weight: 48.10 kg Number of Syndites: 0

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

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


Sclection and Description
Zakia $1 \mathrm{~L}-\mathrm{Haddad}$
Mincralogy Technician


Quality Conlrol
Maria Mezei
Mincralogy Tcchnician

Note:
SGS Lakeficid Rescarch Limited is not responsible for the determination of the origin, quality or value of any diamonds recovered, Each 435 mesh (lyler sieve; 10.420 mm ) stone was individually weighed, and the -3.5 mesh stones were weighed in groups.

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## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278

Client: Diamond Discoveries International Corp.


Page 2

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## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

## Project: 8901-278

Client: Diamond Discoveries International Corp.

| No. | Stone Dimension, mm |  |  | Weight |  | Colour | Clarity | Percent Preservation | Stone Description Morphology |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | X | Y | Z | mg | Carats |  |  |  |  |
| $-425 /+300 \mu m$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.600 | 0.000000 | Sub-Total |  |  |  |
| $-300 /+212 \mu m$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tota |  |  |  |
| $-212 /+150 \mu m$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.600 | 0.000cco | Sub-Total |  |  |  |
| .150/+100 $\mu \mathrm{m}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Total |  |  |  |

Note 1: Diamond Fragments - No Crys!al Faces - Preservation (Resorption) cannot be estimaled.

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278
Client: Diamond Discoveries International Corp.

Date: April 27, 2004
LIMS No. M10005-MAR04
Sample No. 90942

| Mesh | Fractiont | Dissolution Residue Description |
| :---: | :--- | :--- |
| +6 | Ferromagnetic Non-mag | Not applicable |
| $-6+20$ | Ferromagnctic Non-mag | Rock fragments |
| +150 | Ferromagnctic Mag | Oxides and silicates |
| $-20+150$ | Paramagnetic Mag $(0.1 \mathrm{amp})$ | Not applicablc |
| $-20+150$ | Paramagnetic Mag $(0.3 \mathrm{amp})$ | Not applicablc |
| $-20+150$ | Diamagnetic Mag $(0.5 \mathrm{amp})$ | Oxides and silicarcs |
| $-20+150$ | Diamagnetic Non-mag ( 0.5 amp$)$ | Oxides, silicatcs, and graphite |

Sample Weight: 15.00 kg
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
Elena Valeyeva
Mincralogy Tcchnician


Quality Control
Zakia AL-Haddad
Mineralogy Tcehnician

## Note:

SGS Lakefield Research Limited is not responsibic for the detemination of the origin, guality or value of any diamonds recovered. Each +35 mesh (Tyler sicve; +0.420 mm ) stone was individually weighed, and the -3.5 mesh stones were weighed in groups. Stone dimensions are limited to aceuracy of harec dimensional measurcments of irmegular shapes using a petrographic microscope.

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## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278
Client: Diamond Discoveries International Corp.

Date: April 27, 2004
LIMS No. MI0005-MAR04 Sample No. 90942


Sample Weight: 15.00 kg Number of Syndites: 0

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

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


Selection and Description
Elena Valeyova
Mineralogy Technician


Quality Control
Takia AL-Haddad
Mineralogy Technician

Note:
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## SGS LAKEFIELD RESEARCH LIMITED

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION
Project: 8901-278
Client: Diamond Discoveries International Corp.
LIMS No. Mil 0005 MAR04
Sample No. 90942
Sample Weight: 15.00 kg


Page 2

## SGS LAKEFIELD RESEARCH LIMITED

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278
Chient: Diamond Discoveries International Corp.
LIMS No. MIO005-MAR04
Sample No. 90942
Sample Weight: 15.00 kg

| No. | Stone Dimension, mm |  |  | Weight |  | Colour Clarity |  | PercentPreservation | $\frac{\text { Stone Description }}{\text { Morphology }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | X | Y | Z | mg | Carats |  |  |  |  |
| -425/+300 $\mu \mathrm{m}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.060 | 0.000600 | Sub-Tota |  |  |  |
| $-300 /+212 \mu \mathrm{~m}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.040000 | Sub-Tota |  |  |  |
| $-212 /+150 \mu \mathrm{~m}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.629000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.600000 | Sub-Total |  |  |  |
| $-150 /+100 \mu \mathrm{~m}$ fracfion |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.008000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.0000500 | Sub-Tota |  |  |  |


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

SGS Lakefield Research Limited 185 Concession St., Box 4300

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## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278
Clicnt: Diamond Discoveries International Corp.

Date: April 27,2004
I.IMS No. M10005-MAR04

Sample No. 92220

| Mesh | Fraction | Dissolution Residuc Description |
| :---: | :--- | :--- |
| +6 | Ferromagnetic Non-mag | Not applicable |
| $-6+20$ | Ferromagnctic Non-mag | Not applicable |
| +150 | Ferromagnctic 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, silicates, and graphite |
| $-20+150$ | Diamagnetic Non-mag ( 0.5 amp$)$ | Oxides, silicatcs, and graphite |

Sample Weight: 15.20 kg
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
Zakia NLHaddad
Mincralogy Technician


Note:
SGS Lakefield Rescarch Limited is not responsible for the detennination of the origin, quality or value of any diamonds recovered. Each +35 mesh (Tyler sicve; +0.420 mm ) stone was individually weighed, and the -35 mesh stones were weighed in groups. Stone dimensions are limitad to aceuracy of ihree dimensional meusurements of irtegular shapes using a petrographic microscope.

Accredited by the Standards Council of Canada to the ISOMEC: Guide 25 standard for specific registered tests.

## SEP LakefieldResearch $\rightarrow$

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## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278
Client: Diamond Discoveries International Corp.

Date: April 27, 2004
LIMS No. M10005-MAR04
Sample No. 92220


Sample Weight: 15.20 kg
Number of Syndites: 0

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

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


Selection and Description
Zakia AL-Haddad
Mineralogy Technician


Quality Control
E: lena Valeycva
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.

Accredited by the Standards Council of Canada to the ISOMEC. Guide 25 standard for specif regesterch tests.

## SGS LAKEFIELD RESEARCH LIMITED

April 27, 2004
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$\begin{array}{ll}\begin{aligned} \text { Phone: } 705-652-2112 \\ \text { Fax: } 705-652-3123\end{aligned} & \text { E-mail: bjago alakefield.com } \\ & \text { DIAMOND RECOVERY BY CAUSTIC DISSOLUTION }\end{array}$

Project: 8901-278

Client: Diamond Discoveries International Corp.
LIMS No. MI0005-MAR04
Sample No. 92220
Sample Weight: 15.20 kg


## SGS LAKEFIELD RESEARCH LIMITED

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## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278
Client: Diamond Discoveries International Corp.

LIMS No. MI0005-MAR04
Sample No. 92220
Sample Weight: 15.20 kg


| 0 | 0.000000 | TOTAL |
| :---: | :---: | :---: | :---: |

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

## SUS LakefieldResearch $\rightarrow$

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## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278
Client: Diamond Discoveries International Corp.
LIMS No. M10005-MAl204
Sample No. 9226

| Mesh | Fraction | Dissolution Residue Descriptiont |
| :---: | :--- | :--- |
| +6 | Ferromagnetic Non-mag | Not applicablc |
| $-6+20$ | Ferromagnctic Non-mag | Oxides |
| +150 | Fcromagnetic Mag | Oxides |
| $-20+150$ | Paramagnctic Mag ( 0.1 amp ) | Not applicable |
| $-20+150$ | Paramagnctic Mag ( 0.3 amp ) | Not applicable |
| $-20+150$ | Diamagnetic Mag ( 0.5 amp ) | Oxides and silicatcs |
| $-20+150$ | Diamagnetic Non-mag ( 0.5 amp ) | Oxides, silicates, and graphitc |

Sample Weight: 15.30 kg
Total Weight (carats)*: 0.000
Number of Diamonds: 0

## Number of Syndites: 0

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


Selecton and Description
Elena Valeyeva
Mincralogy Technician


Quality Control
Zakia AL.-Haddad
Mincralogy Techwician

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

Aceredited by the Standards Conncil of Candila to the 1SOHEC Guide 2.5 standard for specific registered tests.

## SC LakefieldResearch $\rightarrow>$

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## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278
Client: Diamond Discoveries International Corp.

Date: April 27, 2004
LIMS No. MI0005-MAR04
Sample No. 92226

|  | Diamond Size Fractions | Number of Stones in Group | Group Weight (mg) | Group Carats (calculated) |
| :---: | :---: | :---: | :---: | :---: |
|  | $+4.75 \mathrm{~mm}$ | 0 | 0.000 | 0.000 |
|  | $-4.75 /+3.35 \mathrm{~mm}$ | 0 | 0.000 | 0.000 |
|  | $-3.35 /+2.36 \mathrm{~mm}$ | 0 | 0.000 | 0.000 |
|  | $-2.36 /+1.70 \mathrm{~mm}$ | 0 | 0.000 | 0.000 |
|  | $-1.70 /+1.18 \mathrm{~mm}$ | 0 | 0.000 | 0.000 |
|  | $-1.18 /+0.85 \mathrm{~mm}$ | 0 | 0.000 | 0.000 |
|  | $-850 /+600 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | $-600 /+425 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | $-425 /+300 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | $-300 /+212 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | $-212 /+150 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | $-150 /+100 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | TOTAL | 0 | 0.000 | 0.000 |

Sample Weight: 15.30 kg Number of Syndites: 0

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

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


Sclection and Description
Elena Valcyeva
Mineralogy Techioician


Quality Conirol
Zakia AL-Haddad
Mincralogy 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.

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

## SGS LAKEFIELD RESEARCH LIMITED

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

## Project: 8901-278

Client: Diamond Discoveries International Corp.
LIMS No. M10005-MAR04
Sample No. 92226
Sample Weight: $\mathbf{1 5 . 3 0} \mathrm{kg}$

|  | Ston | men | , mm |  | ight |  |  | Percent | Stone Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | X | Y | 2 | mg | Carats | Colour | Clarity | Preservation | Morphology |
| + +4.75 mm fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tota |  |  |  |
| $-4.75 /+3.35 \mathrm{~mm}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tota |  |  |  |
| $-3.35 /+2.36 \mathrm{~mm}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tot |  |  |  |
| -2.36/+1.70 mm fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tota |  |  |  |
| -1.70/+1.18 mm fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tot |  |  |  |
| $-1.18 /+0.85 \mathrm{~mm}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.600 | 0.00080 | Sub-Tot |  |  |  |
| -850/+600 $\mu \mathrm{m}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000060 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.666000 | Sub-Tot |  |  |  |
| -600/+425 $\mu \mathrm{m}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.080000 |  |  |  |  |
| 0 |  |  |  | 0.000 | $0.006 C C O$ | Sub-Tot |  |  |  |

## SGS LAKEFIELD RESEARCH LIMITED

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## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278

Client: Dianond Discoveries International Corp.

| No. | Stone Dimension, mm |  |  | Weight |  |  |  | Percent | Stone Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | X | Y | 2 | mg | Carats | Colour | Clarity | Preservation | Morphology |
| $-425 /+300 \mu m$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tota |  |  |  |
| $-300 /+212 \mu m$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tota |  |  |  |
| $-212 /+150 \mu m$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tot |  |  |  |
| $-150 /+100 \mu m$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tot |  |  |  |

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
Client: Diamond Discoveries International Corp.

Date: April 27, 2004
LIMS No. Mx0005-MAR04
Sample No. 92227

| Mesh | Fraction | Dissolution Residuc Description |
| :---: | :---: | :---: |
| +6 | Ferromagnetic Non-mag | Not applicable |
| -64-20 | Ferromagnetic Non-mag | Oxides |
| $+150$ | Ferromagnetic Mag | Oxides |
| $-20+150$ | Paramagnctic 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 |

Saunple Weight: 14.50 kg
Number of Syndites: 0

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

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


Selection and Description
Elena Valcyeva
Mincralogy'Technician


Note:
SGS Lakeficld Kescarch Limited is not responsible for the detenmination of the origin, quality or value of any diamonds recovered. Each +35 mesh (Tyler sieve; +0.420 min) stone was individually weighed, and the -35 mesh stones were weigheal in groups. Slone dimensions are limited to accurncy of fhree dimensional measarements of irregular shapes using a perrographic microscope.

Aceredited by the Standards Cowncil of Canade to the 1 SOMBC: Guide 2.5 standard for specific registered tests.

## Sa LakefieldResearch $\rightarrow \rightarrow$

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## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278
Client: Diamond Discoveries International Corp.

Date: April 27, 2004
LIMS No. M10005-MAR04
Sample No. 92227

|  | Diamond Size Fractions | Number of Stones in Group | Group Weight (mg) | Group Carats (calculated) |
| :---: | :---: | :---: | :---: | :---: |
|  | + 4.75 mm | 0 | 0.000 | 0.000 |
|  | $-4.75 /+3.35 \mathrm{~mm}$ | 0 | 0.000 | 0.000 |
|  | $-3.35 /+2.36 \mathrm{~mm}$ | 0 | 0.000 | 0.000 |
|  | $-2.36 /+1.70 \mathrm{~mm}$ | 0 | 0.000 | 0.000 |
|  | -1.70/+1.18 mm | 0 | 0.000 | 0.000 |
|  | - $1.18 /+0.85 \mathrm{~mm}$ | 0 | 0.000 | 0.000 |
|  | $-8501+600 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | $-600 /+425 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | $-425 /+300 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | $-300 /+212 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | $-212 /+150 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | $-150 /+100 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | TOTAL | 0 | 0.000 | 0.000 |

Sample Weight: 14.50 kg
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.



Note:
SGS Lakefiold Researeh I.imited is not responsible for the determmation of the origin, quality or value of any diamonds recovered. Each +35 mesh (Tyler sieve; 10.420 mm ) stone wis individually weighed, and the -35 mesh stones were weighed in groups.

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

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## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

## Project: 8901-278

Client: Diamond Discoveries International Corp.


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## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278

Client: Diamond Discoveries International Corp.

| No. | Stone Dimension, mm |  |  | Weight |  | Colour |  | Percent Preservation | Stone Description Morphology |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | X | Y | Z | mg | Carats |  | Clarity |  |  |
| $-425 /+300 \mu m$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tota |  |  |  |
| $-300 /+212 \mu m$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Total |  |  |  |
| $-212 /+150 \mu m$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tot |  |  |  |
| $-150 /+100 \mu m$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tota |  |  |  |

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

LIMS No. MI0005-MAR04
Sample No. 92227
Sample Weight: 14.50 kg

## SCI LakefieldResearch <br> $\leftrightarrow$

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Email: bjago@lakefield.com

## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278
Client: Diamond Discoveries International Corp.

Datc: $\Lambda$ pril 27, 2004
LIMS No. M10005-MAR04
Sample No. 92228

| Mesh | Fraction | Dissolution Residue Description |
| :---: | :--- | :--- |
| +6 | Ferromagnetic Non-mag | Not applicable |
| $-6+20$ | Fcrromagnctic Non-mag | Rock fragments |
| +150 | Ferromagnetic Mag | Oxides and silicates |
| $-20+150$ | Paramagnctic Mag (0.1 amp) | Not applicable |
| $-20+150$ | Paramagnctic Mag (0.3 amp) | Not applicable |
| $-20+150$ | Diamagnctic Mag ( 0.5 amp) | Oxides and silicates |
| $-20+150$ | Diamagnctic Non-mag ( 0.5 amp$)$ | Oxides, silicatcs, and graphite |

Sample Weight: 18.50 kg 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
Elena Valeyeva
Mincralogy Tcelmician


Notc:
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## SCS LakefieldResearch $\rightarrow$

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## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278
Clicnt: Diamond Discoveries International Corp.

Date: April 27, 2004
LIMS No. M10005-MAR04 Sample No. 92228

|  | Diamond Size Fractions | Number of Stones in Group | Group Weight (mg) | Group Carats (calculated) |
| :---: | :---: | :---: | :---: | :---: |
|  | + 4.75 mm | 0 | 0.000 | 0.000 |
|  | $-4.75 /+3.35 \mathrm{~mm}$ | 0 | 0.000 | 0.000 |
|  | $-3.35 /+2.36 \mathrm{~mm}$ | 0 | 0.000 | 0.000 |
|  | $-2.36 /+1.70 \mathrm{~mm}$ | 0 | 0.000 | 0.000 |
|  | $-1.70 /+1.18 \mathrm{~mm}$ | 0 | 0.000 | 0.000 |
|  | $-1.18 /+0.85 \mathrm{~mm}$ | 0 | 0.000 | 0.000 |
|  | $-850 /+600 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | $-600 /+425 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | $-425 /+300 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | $-300 /+212 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | $-212 /+150 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | $-150 /+100 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | TOTAL | 0 | 0.000 | 0.000 |

Sample Weight: 18.50 kg Number of Syndites: 0

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

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



Note:
SGS Lakefield Rescarch Limited is not respensibie for the determmation of the orgin, quabhy or value of any diamonds recovered. Each 435 mesh (lyter sieve; 10.420 mm ) stone was individually weighed. and the .35 mosh stones wert weighed in groups.

Aceredited by the Standards Council of Canata to the 150 IIEC Guide 25 whandurd for spectio regintered tests.

## SGS LAKEFIELD RESEARCH LIMITED

April 27, 2004
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## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278
Client: Diamond Discoveries International Corp.

LIMS No. M10005-MAR04
Sample No. 92228
Sample Weight: 18.50 kg

| No. | Stone Dimension, mm |  |  | Weight |  | Colour Clarity |  | Percent Preservation | $\begin{aligned} & \text { Stone Description } \\ & \text { Morphology } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | X | Y | z | mg | Carats |  |  |  |  |
| $\pm 4.75 \mathrm{~mm}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tota |  |  |  |
| $-4.75 /+3.35 \mathrm{~mm}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tota |  |  |  |
| $-3.35 /+2.36 \mathrm{~mm}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tota |  |  |  |
| $-2.36 /+1.70 \mathrm{~mm}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tota |  |  |  |
| $-1.70 /+1.18 \mathrm{~mm}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000600 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.008000 | Sub-Tota |  |  |  |
| $-1.18 /+0.85 \mathrm{~mm}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tota |  |  |  |
| $-850 /+600 \mu m$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tota |  |  |  |
| -600/+425 $\mu \mathrm{m}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tot |  |  |  |

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278

Client: Diamond Discoveries International Corp.
LIMS No. MI0005-:MAR04
Sample No. 92228
Sample Weight: 18.50 kg


| 0 | 0.000000 | TOTAL |
| :--- | :--- | :--- |

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## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278
Client: Diamond Discoveries lntermatiomal Corp.

Date: April 27, 2004
I.IMS No. M10005-MAR04

Sample No. 92245

| Mesh | Fraction | Dissolition Residue Description |
| :---: | :--- | :--- |
| +6 | Ferromagnetic Non-mag | Not applicable |
| $-6+20$ | Ferromagnetic Non-mag | Oxides, silicates, and rock fragments |
| +150 | Ferromagnctic Mag | Oxides |
| $-20+150$ | Paramagnctic 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$)$ | Oxides, silicates, and graphite |

Sample Weight: 22.80 kg 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 .


Selcction and Description
Elena Valcyeva
Mineralogy Technician


Note:
SGS Lakefield Rescarch Limited is not responsible for the determination of the origin, quality or value of ary diamonds recovered. Ench +35 mesh (Tyler sicve; 1.0 .420 mm ) stone was individually weighed, and the -35 mesh stones were weighed in groups. Stonc dinensions are limited to accutacy of three dimensional measurements of imegular shapes using a petrographic microscope.

Aceredited by the Standards Comeil of Caneda to the ISOMEC Guide 25 standard for , specifie registered tests.

## SCe LakefieldResearch

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## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278
Client: Diamond Discoveries International Corp.

Date: April 27, 2004
LIMS No. MI0005-MAR04 Sample No. 92245

|  | Diamond Size Fractions | Number of Stones in Group | $\begin{gathered} \text { Group Weight } \\ (\mathrm{mg}) \end{gathered}$ | Group Carats (calculated) |
| :---: | :---: | :---: | :---: | :---: |
|  | $+4.75 \mathrm{~mm}$ | 0 | 0.000 | 0.000 |
|  | $-4.75 /+3.35 \mathrm{~mm}$ | 0 | 0.000 | 0.000 |
|  | $-3.35 /+2.36 \mathrm{~mm}$ | 0 | 0.000 | 0.000 |
|  | $-2.36 /+1.70 \mathrm{~mm}$ | 0 | 0.000 | 0.000 |
|  | $-1.70 /+1.18 \mathrm{~mm}$ | 0 | 0.000 | 0.000 |
|  | $-1.18 /+0.85 \mathrm{~mm}$ | 0 | 0.000 | 0.000 |
|  | $-850 /+600 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | $-600 /+425 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | $-425 /+300 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | $-300 /+212 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | $-212 /+150 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | $-150 /+100 \mu \mathrm{~m}$ | 0 | 0.000 | 0.000 |
|  | TOTAL | 0 | 0.000 | 0.000 |

Sample Weight: 22.80 kg
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
Flena Valcycva
Mineralogy Technician


Qusitity Control
Maria Me\%ci
Mincralogy'rechnician

Note:
SGS Lakefietd Rescarch Limited is not responsible for the determination of the origin, quatity or value of any diamonds recovered. Each +35 mesh (Tyler sicve; +0.420 mm ) stone was individually weighed, and the -35 mesh stones were weighed in groups.

Accredited by the Standards Council of Cantade to the ISOIIEC Guide 25 standard for specific registered texts.

## SGS LAKEFIELD RESEARCH LIMITED

April 27, 2004
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## DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278
Client: Diamond Discoveries International Corp.

LIMS No. MII0005-MAR04
Sample No. 92245
Sample Weight: 22.80 kg

| No. | Stone Dimension, mm |  |  | Weight |  | Colour Clarily |  | Percent Preservation | Stone Descriplion |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | X | $Y$ | Z | mg | Carats |  |  |  |  |
| +4.75 mm fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tota |  |  |  |
| $-4.75 /+3.35 \mathrm{~mm}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tota |  |  |  |
| $-3.35 /+2.36 \mathrm{~mm}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tata |  |  |  |
| $-2.36 /+1.70 \mathrm{~mm}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tota |  |  |  |
| $-1.70 /+1.18 \mathrm{~mm}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tota |  |  |  |
| $-1.18 /+0.85 \mathrm{~mm}$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tota |  |  |  |
| $-850 /+600 \mu m$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tot |  |  |  |
| . $600 /+425 \mu m$ fraction |  |  |  |  |  |  |  |  |  |
| 0 |  |  |  |  | 0.000000 |  |  |  |  |
| 0 |  |  |  | 0.000 | 0.000000 | Sub-Tot |  |  |  |

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DIAMOND RECOVERY BY CAUSTIC DISSOLUTION

Project: 8901-278
Client: Diamond Discoveries International Corp.
LIMS No. MI0005-MAR04
Sample No. 92245
Sample Weight: 22.80 kg


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

## APPENDIX B

## EXPLANATION OF MICRODIAMOND EXTRACTION AND SELECTION PROCEDURE AND FLOWSHEET

# 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 200 mesh $(74 \mu \mathrm{~m})$ screen. The +200 mesh residue is liberated from the NaOH by washing the sample in a series of water and acid leach $(\mathrm{HCl})$ 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 $40 x$ 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.

## Quality Control

Routine quality control tests are utilised to evaluate the efficiency of the caustic dissolution processing technique. Since the beginning of 2004, we have started reporting SGS-LR spike recoveries together with diamond results. During 2003, we experimented with the addition of two sizes ( 80 and 35 mesh) of synthetic diamond spikes with great success including one project, which ran for approximately six months, in which one of our clients used "Congo Rounds" as natural diamond spikes. Diamond spikes recoveries for our client's spikes ran at $95 \%$ whereas recoveries for our 35 and 80 mesh synthetic diamond spikes were $96 \%$ and $93 \%$, respectively.

In addition to the above aspect of Quality control, each caustic dissolution residue is picked twice by separate diamond pickers. Questionable grains are examined by SEM-EDS for verification.

Every effort is made at each stage of sample handling during caustic dissolution, residue preparation and diamond picking to eliminate the possibility of contamination. These steps include:

- A rigorous sample tracking procedure.
- Dedicated screens and equipment for each sample during sample processing.
- Replacement of screens between each sample after pouring caustic soda.
- Thorough washing and scrubbing of all sample containers.
- Thorough cleaning of equipment used to prepare caustic residues between each processed sample.
- Sandblasting of each kiln pot between clients projects to ensure the removal of any microdiamonds or indicator minerals.

Customized flowsheets for sample processing utilising caustic dissolution and other sample preparation techniques (magnetic, gravity, flotation, acid leaching, etc.) can be developed, in consultation with the client, to meet specialised requirements.

SGS Lakefield Research Limited is not responsible for the determination of the origin, quality or valuation of any diamonds recovered uniess otherwise instructed by the client.

Microdiamond Extraction, Selection and Description

Caustic Dissolution for Microdiamond Recovery



[^0]:    Note 1: Diamond Fragments - No Crystal Faces - Preservation (Resorption) cannot be estimated.

