

OVERBURDEN DRILLING MANAGEMENT LIMITED
 107-15 CAPELLA COURT, NEPEAN, ONTARIO, K2E 7X1
 TELEPHONE: (613) 226-1771
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DATA TRANSMITTAL REPORT

DATE: 3-Jun-10
 ATTENTION: **Mr. Don Elsenheimer, Ph.D, Economic Geologist**
 CLIENT: **Minnesota Department of Natural Resources**
 500 Lafayette Rd
 St. Paul, MN
 55155-4045 USA
 E-MAIL: **donald.elsenheimer@dnr.state.mn.us**
 NO. OF PAGES: _____
 PROJECT: **Bigfork Greenstone Belt**
 FILE NO: **MDNR - Antonson (BF) - Nov 2009**
 SAMPLE NUMBERS: **BF-08, 09, 12, 14, 24, 26, 30, 31, 39, 46, 50 and 52**
 BATCH NUMBER: **4974**
 TOTAL SAMPLES: **12**
 THESE SAMPLES WERE PROCESSED FOR: **MMSIMs**

Batch # Sample Numbers

This batch done for gold/hmc only
4804 BF-08, 09, 12, 14, 24, 26, 30, 31, 39, 46, 50 and 52

This batch done for KIM/MMSIMs
4974 BF-08, 09, 12, 14, 24, 26, 30, 31, 39, 46, 50 and 52

SPECIFICATIONS:

- Submitted by client: Twelve nonferromagnetic heavy mineral concentrates S.G >3.3 selected from samples previously processed for gold grain count.
- 0.25-2.0 mm fraction picked for indicator minerals.

REMARKS:

*Calculated PPB Au based on assumed nonmagnetic HMC weight equivalent to 1/250th of the table feed.

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Remy Huneault, P.Geo.
Laboratory Manager

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**OVERBURDEN DRILLING MANAGEMENT LIMITED
HEAVY MINERAL PROCESSING WEIGHTS**

Project: Bigfork Greenstone Belt

Filename: MDNR - Antonson (BF) - Nov 2009

Total Number of Samples in this Report = 12

Sample Number	Weight (g)								
	Nonferromagnetic HMC								
	Total	-0.25 mm	0.25 to 2.0 mm Nonferromagnetic HMC						
			Total	Processed Split				Total	
				%	Weight	<0.25 mm (wash)	0.25 to 0.5 mm	0.5 to 1.0 mm	1.0 to 2.0 mm
BF-08	102.5	86.9	15.6	100	15.6	2.3	10.9	2.2	0.20
BF-09	50.6	35.4	15.2	100	15.2	0.8	10.5	3.3	0.60
BF-12	33.6	27.5	6.1	100	6.1	0.5	4.3	1.1	0.20
BF-14	87.2	71.1	16.1	100	16.1	1.9	11.4	2.6	0.20
BF-24	61.2	52.5	8.7	100	8.7	1.0	6.5	1.1	0.06
BF-26	70.6	59.7	10.9	100	10.9	1.5	8.1	1.2	0.10
BF-30	106.0	87.0	19.0	100	19.0	2.0	14.3	2.5	0.20
BF-31	70.0	59.4	10.6	100	10.6	0.9	8.1	1.5	0.10
BF-39	50.6	43.8	6.8	100	6.8	0.8	5.3	0.7	0.04
BF-46	85.1	73.8	11.3	100	11.3	1.1	8.4	1.5	0.30
BF-50	23.5	19.0	4.5	100	4.5	0.6	3.4	0.5	<0.01
BF-52	52.7	43.3	9.4	100	9.4	1.1	6.9	1.3	0.10

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OVERBURDEN DRILLING MANAGEMENT LIMITED
MMS INDICATOR MINERAL DATA

Project: Bigfork Greenstone Belt
Filename: MDNR - Antonson (BF) - Nov 2009
Total Number of Samples in this Report = 12

Sample Number	Sulphide/Arsenide + Related Minerals 0.25-0.5 mm										Mg/Mn/Al/Cr Minerals 0.25-0.5 mm										Phosphates			INPUT Assemblage	INPUT Remarks
	>1 amp					<1.0 amp					>1.0 amp					<0.8 amp					>1.0 amp				
	% Cpy	Misc. Prime MMSiMs	% Py	% Gth	# Grains + Colour Spinel	Misc. Prime MMSiMs	% Red Rutile	% Ky	% Sil	% Tm	% St	% Sps	% Ol	% Opx	% Cr	% Ap	% Mz	Remarks	Picked Grains						
BF-08	0	0	Tr (2 gr)	Tr	1 grey	Tr ruby corundum (1 gr) Tr low-Cr diopside (1 gr)	Tr (2 gr)	Tr	0	Tr	40	0	0	Tr	Tr (13 gr)	0	0	Almandine/epidote-staurolite assemblage. SEM checks from 0.25-0.5 mm fraction: 8 chromite versus ilmenite candidates = 4 chromite and 4 ilmenite; and 1 Cr-pyrope (KIM) versus ruby corundum candidate = 1 ruby corundum.	0.25-0.5 mm fraction: 1 spinel 1 ruby corundum 1 low-Cr diopside 2 red rutile 13 chromite 4 ilmenite resembling chromite	Almandine/epidote-staurolite	SEM checks from 0.25-0.5 mm fraction: 8 chromite versus ilmenite candidates = 4 chromite and 4 ilmenite; and 1 Cr-pyrope (KIM) versus ruby corundum candidate = 1 ruby corundum.				
BF-09	0	0	Tr (6 gr)	Tr	1 pink	Tr low-Cr diopside (2 gr)	Tr (2 gr)	0	0	Tr	30	0	Tr	Tr (5 gr)	0	0	Almandine-augite/epidote-staurolite assemblage. SEM checks from 0.5-1.0 mm fraction: 6 chromite versus ilmenite candidates = 1 chromite and 5 ilmenite. SEM checks from 0.25-0.5 mm fraction: 2 fayalite versus siderite candidates = 2 fayalite; and 8 chromite versus ilmenite candidates = 3 chromite and 5 ilmenite.	0.5-1.0 mm fraction: 1 chromite 5 ilmenite resembling chromite 0.25-0.5 mm fraction: 1 spinel 2 low-Cr diopside 2 red rutile 2 fayalite 5 chromite 5 ilmenite resembling chromite	Almandine-augite/epidote-staurolite	SEM checks from 0.5-1.0 mm fraction: 6 chromite versus ilmenite candidates = 1 chromite and 5 ilmenite. SEM checks from 0.25-0.5 mm fraction: 2 fayalite versus siderite candidates = 2 fayalite; and 8 chromite versus ilmenite candidates = 3 chromite and 5 ilmenite.					
BF-12	0	0	0	Tr	1 blue-green gahnite; 1 colourless spinel	Tr Cr-grossular (1 gr) Tr low-Cr diopside (1 gr)	0	0	0	Tr	30	0	0	Tr	Tr (7 gr)	0	0	Almandine-augite/epidote-staurolite assemblage. SEM checks from 0.25-0.5 mm fraction: 1 blue-green gahnite versus spinel candidate = 1 gahnite; and 1 green Cr-garnet candidate = 1 Cr-grossular.	0.25-0.5 mm fraction: 1 gahnite 1 spinel 1 Cr-grossular 1 low-Cr diopside 7 chromite	Almandine-augite/epidote-staurolite	SEM checks from 0.25-0.5 mm fraction: 1 blue-green gahnite versus spinel candidate = 1 gahnite; and 1 green Cr-garnet candidate = 1 Cr-grossular.				
BF-14	0	0	0	Tr	2 blue-green, pale blue	Tr low-Cr diopside (3 gr)	Tr (2 gr)	0	0	Tr	30	0	Tr	Tr (15 gr)	0	0	Almandine/epidote-staurolite assemblage. SEM check from 0.25-0.5 mm fraction: 1 blue-green gahnite versus spinel candidate = 1 spinel.	0.25-0.5 mm fraction: 2 spinel 3 low-Cr diopside 2 red rutile 15 chromite	Almandine/epidote-staurolite	SEM check from 0.25-0.5 mm fraction: 1 blue-green gahnite versus spinel candidate = 1 spinel.					
BF-24	0	0	0	Tr	0	Tr low-Cr diopside (1 gr)	Tr (3 gr)	Tr	0	Tr	25	0	0	Tr	0	0	Tr	Almandine-ilmenite/epidote-staurolite assemblage.	0.25-0.5 mm fraction: 1 low-Cr diopside 3 red rutile	Almandine-ilmenite/epidote-staurolite					
BF-26	0	0	0	Tr	1 green gahnite	Tr low-Cr diopside (1 gr)	Tr (2 gr)	Tr	0	Tr	20	0	Tr	Tr (3 gr)	0	0	Almandine-ilmenite/epidote-staurolite assemblage. SEM check from 0.25-0.5 mm fraction: 1 green gahnite versus spinel candidate = 1 gahnite.	0.25-0.5 mm fraction: 1 gahnite 1 low-Cr diopside 2 red rutile 3 chromite	Almandine-ilmenite/epidote-staurolite	SEM check from 0.25-0.5 mm fraction: 1 green gahnite versus spinel candidate = 1 gahnite.					
BF-30	0	0	Tr (2 gr)	Tr	0	Tr low-Cr diopside (2 gr)	Tr (5 gr)	Tr	0	Tr	25	0	Tr	Tr (12 gr)	0	0	Tr	Almandine-ilmenite/epidote-staurolite assemblage.	0.25-0.5 mm fraction: 2 low-Cr diopside 5 red rutile 12 chromite	Almandine-ilmenite/epidote-staurolite					
BF-31	0	0	0	Tr	0	Tr low-Cr diopside (4 gr)	Tr (1 gr)	Tr	0	Tr	30	0	Tr	Tr (7 gr)	0	0	Almandine-hornblende/epidote-staurolite assemblage.	0.25-0.5 mm fraction: 4 low-Cr diopside 1 red rutile 7 chromite	Almandine-hornblende/epidote-staurolite						
BF-39	Tr (1 gr)	0	0	Tr	2 pink, grey-green	Tr Mn-epidote (1 gr)	Tr (3 gr)	Tr	0	Tr	25	0	0	Tr	Tr (12 gr)	0	0	Almandine-ilmenite/epidote-staurolite assemblage.	0.25-0.5 mm fraction: 1 chalcopyrite 2 spinel 1 Mn-epidote 3 red rutile 12 chromite	Almandine-ilmenite/epidote-staurolite					
BF-46	0	0	0	Tr	0	Tr low-Cr diopside (1 gr)	Tr (9 gr)	Tr	0	Tr	30	0	Tr	Tr (11 gr)	Tr	0	Almandine-ilmenite/epidote-staurolite assemblage.	1 low-Cr diopside 9 red rutile 11 chromite	Almandine-ilmenite/epidote-staurolite						
BF-50	0	0	0	Tr	1 green gahnite; 1 grey spinel	Tr low-Cr diopside (1 gr)	Tr (1 gr)	Tr	0	Tr	35	0	0.5	Tr	Tr (6 gr)	0	0	Almandine-ilmenite/epidote-staurolite assemblage. SEM checks from 0.25-0.5 mm fraction: 1 green gahnite versus spinel candidate = 1 gahnite; and 1 ruby corundum versus Cr-pyrope candidate = 1 Cr-pyrope (KIM).	0.25-0.5 mm fraction: 1 gahnite 1 spinel 1 low-Cr diopside 1 red rutile 6 chromite 1 Cr-pyrope (KIM)	Almandine-ilmenite/epidote-staurolite	SEM checks from 0.25-0.5 mm fraction: 1 green gahnite versus spinel candidate = 1 gahnite; and 1 ruby corundum versus Cr-pyrope candidate = 1 Cr-pyrope (KIM).				

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	>1 amp		<1.0 amp		>1.0 amp						<0.8 amp						>1.0 amp							
	% Cpy	Misc. Prime MMSiMs	% Py	% Gth	# Grains + Colour Spinel	Misc. Prime MMSiMs	% Red Rutile	% Ky	% Sil	% Tm	% St	% Sps	% Ol	% Opx	% Cr	% Ap	% Mz							
BF-52	0	0	0	0	1 green gahnite; 1 pink spinel	Tr ruby corundum (1 gr) Tr low-Cr diopside (1 gr)	Tr (4 gr)	Tr	0	Tr	30	0	Tr	Tr	Tr	0	Tr	Almandine-ilmenite/epidote-staurolite assemblage. SEM checks from 0.25-0.5 mm fraction: 1 green gahnite versus spinel candidate = 1 gahnite; and 1 ruby corundum versus Cr-pyrope (KIM) candidate = 1 ruby corundum.	0.25-0.5 mm fraction: 1 gahnite 1 spinel 1 ruby corundum 1 low-Cr diopside 4 red rutile 10 chromite	Almandine-ilmenite/epidote-staurolite	SEM checks from 0.25-0.5 mm fraction: 1 green gahnite versus spinel candidate = 1 gahnite; and 1 ruby corundum versus Cr-pyrope (KIM) candidate = 1 ruby corundum.			

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