



PRESS RELEASE

UPDATE ON ACTIVITIES – KIENA PROJECT, VAL D'OR, QUÉBEC

Val-d'Or, Québec, September 16, 2005 – During the summer work concentrated on establishing drifts to serve as future haulage ways and provide platforms for definition drilling. Work is focused on stope definition scale drilling in the VC, 388 and North zone areas located approximately 500 metres north of the shaft. Preliminary drilling also tested potential of the Martin zone structure located 1.5 kilometres east of the shaft from the exploration drift headed towards the Shawkey property. Drifting north towards Wesdome and east towards Shawkey has been temporarily suspended to focus on developing zones which will generate the earliest production tonnage.

VC ZONE

Work on the VC zone involves extending an access/diamond drilling drift towards the west where the deposit remains open and driving a crosscut into the zone to confirm grades, continuity and provide a bulk sample on the 520 metre level. Fan drilling has been completed on sections 13170E and 13155E at 15 metre spacings and we expect to release results of this work and the crosscut shortly. To date the zone has been traced by drilling for 60 metres of strikelength and over 500 metres downdip.

The VC zone is a series of at least three en echelon lenses consisting of stockwork style mineralization in a silicified and albitized breccia hosted in basalt within a basalt-komatiite sequence.

Results of drilling to date have been released in a series of press releases dated December 15, 2004; January 19, 2005; February 17, 2005; March 4, 2005; April 6, 2005 and June 1, 2005.

388 ZONE

Drilling has been completed on four sections, 15 metres apart to delineate the bottom of the 388 zone from the 330 metre level. This drilling has had some success and indicates the zone may remain open at depth on section 13215E where hole 3838 intersected 4.18 gAu/tonne over an estimated true width of 6.0 metres. All holes were drilled to the south (180° Azimuth) with results summarized in the following table:

Mine d'Or Wesdome Inc.

950, Chemin Kienawisik, C.P. / P.O. Box 268
Val-d'Or, Qc., J9P 4P3
Tel: (819) 738-4031 Fax: (819) 738-5452

Wesdome Gold Mines Inc.

8 King Street East, Suite 1305
Toronto, Ontario M5C 1B5
Tel: (416) 360-3743 Fax: (416) 360-7620
E-mail: rivgold@idirect.ca

Section	Hole No	Dip	From (m)	To (m)	Corelength (m)	Estimated True Width	Grade (g/t)	Cut Grade (34.3 g/t)
13185E	3872	+48	79.2	85.0	5.8	4.0	17.80	8.60
	3841	+33	62.5	66.5	4.0	3.5	3.09	3.09
	3842	+28	53.4	54.5	1.1	0.9	18.23	18.23
13200E	3839	+34	45.0	48.8	3.8	2.5	9.69	9.69
	3840	-12	17.5	18.4	0.9	0.9	5.80	5.80
13215E	3836	+47	62.7	75.5	12.8	7.0	6.04	6.04
		includes:	62.7	71.3	8.6	4.7	7.85	7.85
	3837	+24	29.9	32.0	2.1	2.0	28.62	18.50
	3838	-60	22.0	29.3	7.3	6.0	4.18	4.18
13230E	3832	+48	55.0	58.3	3.3	2.0	2.90	2.90
	3833	+31	31.0	40.2	9.2	6.1	3.11	3.11
		includes:	31.0	32.5	1.5	1.0	6.05	6.05
		and:	37.1	40.2	3.1	2.0	5.72	5.72
	3879	-33	30.5	35.2	4.7	4.1	0.48	0.48
	3835	-70	45.0	45.9	0.9	0.6	0.50	0.50

The 388 zone consists of quartz veins in albitized basalt flanking a diorite to granodiorite sill. The zone has been traced for 200 metres downdip with strikelengths of up to 130 metres. The zone was interpreted to taper and pinch out around the 330 metre level but these results give us some encouragement the zone might persist at depth.

Currently a drift is being excavated halfway between the 388 and the North zone on the 330 metre level. This will be used as a base for definition drilling in the heart of the 388 zone as well as to test the depth extension of the parallel North zone. The North zone was previously mined to a depth of 330 metres beyond which it remains open. This drift will soon be completed so the drill may be moved in by late September.

MARTIN ZONE STRUCTURE

A series of eight holes were fanned and winged from a single drill set up at the eastern end of the Shawkey exploration drift on the 330 metre level. The Martin structure strikes southeast and was the source of historic production of 140,000 tonnes from the Shawkey Mine located 1.0 kilometre to the southeast. Drilling identified widespread enriched gold mineralization in at least two parallel vein systems as shown below.

Hole No	Azimuth	Dip	From (m)	To (m)	Corelength (m)	Estimated True Width	Grade (g/t)	Cut Grade (34.3 g/t)
3843	030	+34	149.6	152.0	2.4	2.0	1.40	1.40
			177.0	178.0	1.0	0.8	3.05	3.05
			183.0	184.0	1.0	0.8	1.35	1.35
			188.5	189.5	1.0	0.8	6.20	6.20
3844	032	+20	163.0	165.0	2.0	1.9	3.62	3.62
			176.0	181.4	5.4	5.0	2.39	2.39
3845	037	+29	170.6	177.0	6.4	5.5	3.26	3.26
			183.0	183.3	0.3	0.3	6.40	6.40
			203.8	204.0	0.2	0.2	153.70	34.30
3846	037	+12	170.1	170.6	0.5	0.5	15.10	15.10
3847	037	-9	152.0	153.0	1.0	0.8	1.10	1.10
			167.0	168.0	1.0	0.8	1.00	1.00
3848	049	+31	171.0	172.0	1.0	0.9	3.65	3.65
			178.0	179.0	1.0	0.9	6.30	6.30
			182.0	183.0	1.0	0.9	1.30	1.30
3851	037	+21	145.6	146.1	0.5	0.3	5.08	5.08
			158.3	159.0	0.7	0.4	5.68	5.68
			162.5	163.0	0.5	0.3	7.95	7.95
			175.0	177.0	2.0	1.5	2.76	2.76
3852	037	+2	123.8	124.2	0.4	0.4	5.65	5.65
			138.0	138.9	0.9	0.08	12.55	12.55
			145.7	149.0	3.3	2.3	5.86	5.86
			164.3	166.0	1.7	1.4	1.52	1.52

Although these results are subeconomic, they confirm widespread mineralization along a favourable structure. Interestingly, one of the widest intervals was from flat hole 3852 which encountered 5.86 gAu/tonne over 2.3 metres. When Shawkey drift resumes, we will crosscut and drift along the Martin structure towards the 22 zone on the Shawkey property. This will open up a significant section (600 metres) of previously unexplored structure.

Assay work is conducted by commercial facility Bourlamaque Assay Laboratories in Val-d'Or, Québec, employing conventional fire assay techniques on one assay ton sample aliquots. Core samples with visible gold are analyzed by metallic sieve methods on 500 gram aliquots. Samples returning assays greater than 5.0gAu/tonne are checked using conventional fire assay techniques. Samples returning assays greater than 15.0gAu/tonne are checked using metallic sieve methods. Check assay

work is conducted by commercial facility Techni-Lab S.G.G Abitibi Inc. in Sainte-Germaine-Boulé, Québec.

All technical aspects of this press release have been compiled and reviewed by George Mannard, P.Geo. and qualified person as per NI 43-101 disclosure standards. Previous press releases, independent mineral resource estimates and corporate disclosure are available at www.sedar.com.

Wesdome Gold Mines Inc. trades on the TSX-V Exchange under the symbol “WDG” and has 46.0 million shares outstanding.

For further information and previous press releases please visit:

www.wesdomegoldmines.com

or contact:

Paul Cregheur, President or Murray Pollitt, Chairman
at: 819-738-4031 ext 5361 at: 416-803-2304

The TSX Venture Exchange has not reviewed and does not accept responsibility for the adequacy or accuracy of this release or the information contained herein.