



**NEWS RELEASE**  
**TSX.V: GPY**  
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**NR 16-01**

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## **Golden Predator Recovers 79.9 to 90.8% Gold from 3 Aces Preliminary Test Samples**

**Vancouver, BC, January 25<sup>th</sup>, 2016: Golden Predator Mining Corp. (TSX.V: GPY)** (the “Company”) is pleased to announce results from its preliminary process testing in advance of its announced bulk sampling program expected to begin in Q1-2016 at the 3 Aces project, Yukon. Gold recovery has been calculated at 90.8% from a 108kg composite rock sample processed through a conventional gravity recovery facility. A second sample consisting of 61.5kg of material composited from rejects from previous Rotary Air Blast (RAB) drilling <sup>(1)</sup> returned a calculated gold recovery of 79.9%. The calculated head grades of these samples, based on the sampling methodology described below, are 82.03 g/t Au and 40.49 g/t respectively.

“We are encouraged by the very high recoveries indicated in these preliminary processing tests,” said Janet Lee-Sheriff, CEO of Golden Predator. “The numbers are consistent with expectations, and coincide with results from previous metallurgical work <sup>(2)</sup> completed on quartz vein material obtained from the same 3 Aces location. These tests have enabled us to source an economical processing plant to be used for the upcoming bulk sampling program. We look forward to refining our understanding of the mineralization, its distribution and its potential for recovery from the high grade veins present at 3 Aces.”

Preliminary processing was conducted on two composite samples; a 108kg grab sample composite of vein material collected from the bulk sample zone at 3 Aces during the RAB drill program and a 61.5kg composite of RAB drilling rejects prepared by ALS Minerals’ (ALS) Whitehorse sample prep facility. Both samples were shipped to Mt. Baker Mining and Metals (MBMM), LLC in Bellingham Washington, USA for individual processing through a 1 ton per hour (20 tpd) demonstration plant consisting of a 6” x 10” jaw crusher, a 16” x 12” hammer mill and a single 4’ x 8’ shaker table. The shaker table produces 2 gravity concentrates and tailings.

The following table shows the weight and gold content for each concentrate as well as for the tails.

Sample Description	Weight (Kg)	Weight (Tonnes)	Au (g/t)	Contained Au (g)
Rock - Panned gold concentrate*	-	-	-	4.97
Rock - Primary concentrate after panning	0.32	0.00	9,530.00	3.05
Rock - Secondary concentrate	0.65	0.00	34.10	0.02
Rock - Tailings	107.03**	0.11	7.64	0.82
Total:	108.00	0.11		8.86
RAB Drill - Panned gold concentrate*	-	-	-	0.68
RAB Drill - Primary concentrate after panning	0.25	0.00	5,160.00	1.29
RAB Drill - Secondary concentrate	0.64	0.00	32.10	0.02
RAB Drill - Tailings	60.61**	0.06	8.24	0.50
Total:	61.50	0.06		2.49

\* Panned gold concentrates were treated with hot nitric acid (HNO<sub>3</sub>) following magnetic separation of trace amounts of magnetite, removing approximately 17% of associated gangue minerals by weight.

\*\* Tailings weights are calculated using the original sample weight

Sample	Weight (Kg)	Au (g/t)	Contained Au (g)	Head Grade (Au g/t)	Recoverable Au (%)
Rock - Panned gold concentrate*	-	-	4.97	82.03	90.8%
Rock - Primary concentrate after panning	0.32	9,530.00	3.05		
Rock - Secondary concentrate	0.65	34.10	0.02		
Rock - Tailings	107.03**	7.64	0.82		
Total:	108.00		8.86		
RAB Drill - Panned gold concentrate*	-	-	0.68	40.49	79.9%
RAB Drill - Primary concentrate after panning	0.25	5,160.00	1.29		
RAB Drill - Secondary concentrate	0.64	32.10	0.02		
RAB Drill - Tailings	60.61**	8.24	0.50		
Total:	61.50		2.49		

\* Panned gold concentrates were treated with hot nitric acid (HNO<sub>3</sub>) following magnetic separation of trace amounts of magnetite, removing approximately 17% of associated gangue minerals by weight.

\*\* Tailings weights are calculated using the original sample weight

Further testing of the tails included screening to size with each resulting size fraction being assayed for gold. The results of this testing is shown below. These results indicate that the initial crushing and grinding process may sufficiently grind the feed without the need for further classification or re-grinding.

Tailings Sample	Weight (g)	Au-ICP21 (g/t)	Au-GRA21 (g/t)	Au Weighted Avg. (g/t)
Rock +8 mesh	67.8*			7.64
Rock -8 +20 mesh	129.9**	7.67		
Rock -20 +70 mesh	867.00	4.91		
Rock -70 +200 mesh	95.80	>10.0	21.90	
Rock -200 mesh	27.30	>10.0	44.00***	

RAB Drill +8 mesh	42.6*			
RAB Drill -8 +20 mesh	60.6**	7.26		
RAB Drill -20 +70 mesh	700.90	3.87		8.24
RAB Drill -70 +200 mesh	197.70	>10.0	19.70	
RAB Drill -200 mesh	40.80	>10.0	29.30	

\* *Calculated Weight*

\*\* *Weight is the combined weight of the +8 fraction combined with the -8+20 fraction; resulting in a +20 mesh composite sample; fractions were combined to provide enough material for assay*

\*\*\* *Gold value estimated from ICP21 overlimit, as not enough sample material remained to run Au-GRA21*

### **Sampling Methodology, Quality Control and Analysis**

The composite of quartz vein material was collected by Mike Burke, Chief Geologist for Golden Predator. These samples were stored in a secured facility until preparation and weighing prior to shipping to the MBMM facility. Reject material from previous RAB drilling was stored at the ALS facility in Whitehorse until being shipped directly to the MBMM facility.

All samples were securely stored at the MBMM facility until the arrival of Company personnel who supervised the processing. Concentrates and tailings-splits produced from the sample processing were analyzed by ALS at their Reno, Nevada facility. Gold was using ALS Au-ICP21 method, and any overlimit samples (>10 g/t Au) were fire assayed using ALS AU-GRA21 method. Prior to ALS analysis, Company Chairman, William Sheriff, facilitated the processing of an additional panned gold concentrate, whereby precision weights were attained using a Mettler balance, after magnetic separation and treatment with nitric acid, at the University of Texas, Dallas, Geoscience Laboratory. The sample head grades were calculated by adding back the recovered gold (grams) to the total contained gold (grams) in all sample fractions as determined from ALS assays, divided by the total sample composite weight (tonnes).

The technical content of this news release has been reviewed and approved by Mike Burke, P. Geo, Chief Geologist and a Qualified Person as defined by National Instrument 43-101.

### **Golden Predator Mining Corp.**

Golden Predator Mining Corp. holds the Brewery Creek Project, a past producing heap leach gold mine with a preliminary economic assessment delivered in Q4 2014. The Company also holds the 3 Aces Gold Project in the Yukon, which it continues to delineate and test, and the Castle West Project in Nevada.

(1) Golden Predator Mining Corp., News Release dated September 14, 2015.

(2) Golden Predator Mining Corp., News Release dated December 2, 2014

### **For additional information:**

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