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## PRESS RELEASE

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### **The Paul Zone remains open at depth**

**Saguenay, February 16, 2010.** The management of Arianne Resources Inc. (« Arianne » or « Company ») is pleased to announce drilling results from its Lac à Paul phosphate/titanium property located in Quebec, Canada.

This campaign included 18 drill holes for a total of 3,590 metres (PAU-09-14 to PAU-09-31) and took place exclusively on the Paul Zone. The objective was to upgrade a section of the inferred resources of this zone (**99.3 Mt** of ore grading **7.84% P<sub>2</sub>O<sub>5</sub>** and **8.24% TiO<sub>2</sub>**) into indicated resources. A compilation of assay results shows that the mineralized zone reaches a minimal vertical depth of 240 m and remains open at depth. The drill holes intersections are presented in the following table.

HOLE	Length of drill hole including overburden	Grades		Length of intersection along the hole (m)
		P <sub>2</sub> O <sub>5</sub>	TiO <sub>2</sub>	
PAU-09-14	171 m	<b>8.74%</b>	8.33%	over <b>64.45 m</b> (from 48.55 to 113m)
PAU-09-15	174 m	<b>5.64%</b>	6.55%	over <b>96 m</b> (from 3 to 99 m)
PAU-09-16	201 m	<b>7.06%</b>	7.38%	over <b>151.5 m</b> (from 42 to 193.5 m)
PAU-09-17	174 m	<b>6.67%</b>	5.59%	over <b>84 m</b> (from 3 to 87 m)
PAU-09-18	192 m	<b>5.19%</b>	6.01%	over <b>189 m</b> (du début to 192 m)
PAU-09-19	201 m	<b>8.39%</b>	8.66%	over <b>195 m</b> (from 6 to 201.0 m)
PAU-09-20	249 m	<b>8.19%</b>	9.45%	over <b>117 m</b> (from 132 to 249 m )
PAU-09-21	183 m	<b>4.90%</b>	4.96%	over <b>89.8 m</b> (from 80.7 to 170.5 m)
PAU-09-22	69 m	<b>6.53%</b>	6.41%	over <b>61 m</b> (from 8 to 69 m)
PAU-09-23	177 m	Outside the Zone		
PAU-09-24	198 m	<b>5.26%</b>	4.58%	over <b>192 m</b> (entire drill hole)
PAU-09-25	279 m	<b>7.44%</b>	7.23%	over <b>273 m</b> (from 6 to 279 m)
PAU-09-26	279 m	<b>8.29%</b>	8.37%	over <b>180 m</b> (from 12 to 192 m)
PAU-09-27	132 m	<b>6.91%</b>	11.26%	over <b>105 m</b> (from 12to 117 m)
PAU-09-28	92 m	<b>6.35%</b>	9.87%	over <b>83 m</b> (from 9 to 92 m)
PAU-09-29	279 m	<b>7.53%</b>	9.58%	over <b>231 m</b> (from 30.6 to 261.6 m)
PAU-09-30	279 m	<b>5.87%</b>	6.91%	over <b>99.7 m</b> (from 11 to 110.7 m)
		<b>6.06%</b>	8.64%	over <b>157.6 m</b> (from 121.4 to 279 m)
PAU-09-31	261 m	<b>8.76%</b>	11.01%	over <b>231.1 m</b> (from 14.9 to 246 m)
Total:	<b>3590 m</b>			

SGS Geostat Inc. will update the resource estimate of the Paul Zone.

**Arianne Resources** is a Canadian mining exploration company with the mission to explore and develop gold, silver and phosphate/titanium deposits in Canada and Mexico. The Company has less than 26 M shares outstanding. Investors can visit our website at [www.arianne-inc.com](http://www.arianne-inc.com).

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