



Florida Canyon Zinc Project, Peru



Lik Zinc Project, Alaska

Solitario Zinc Corp.

Solitario Zinc Corp. is a zinc focused exploration company engaging in the acquisition, exploration, and development of zinc properties in safe jurisdictions in North and South America.

Following the acquisition of Zazu Metals in 2017, Solitario grew from a company with just over 361 million pounds of attributable zinc-equivalent in the measured and indicated resource category to one with over 2.76 billion pounds of attributable zinc-equivalent. The inferred resource category increased from approximately 970 million pounds of attributable zinc-equivalent to 1.7 billion pounds of attributable zinc-equivalent.

Solitario now has significant joint venture interests in two large, high-grade zinc development projects with world-class partners:

- Florida Canyon Zinc Project in Peru is a high-grade development asset held jointly with Nexa Resources, the world's fourth largest zinc producer.
- Lik Zinc Project represents a large-tonnage, high-grade, open-pit development project in Alaska in partnership with Teck Resources.

This merger reduces development risks as both projects are located in favorable jurisdictions with experienced zinc producing joint venture partners, increases the Company's exploration potential upside and reduces shareholder risk by diversifying Solitario's asset base.

In addition, Solitario hopes to drill test its 100%-owned La Promesa property in central Peru during 2018, provided it signs a community agreement and secures permitting approvals. Solitario also has an ongoing generative exploration program in Peru to identify new project areas based on its 50,000-sample proprietary geochemical data base.

Our goal is to transition Solitario from a single-asset junior company to a multiple-asset intermediate-sized company focused on zinc. We are optimistic that we will be successful

What Solitario Zinc Corp. Offers the Resource Investor

- Joint venture interest in two large, high-grade zinc projects:
 - Florida Canyon (Peru) held jointly with Nexa
 - Lik (Alaska) in partnership with Teck Resources
- Strong operating partners lower project development risks and costs
- Well financed with ≈\$13.8 million in cash and securities
- Portfolio of high quality exploration properties & royalties in the Americas
- Strong management/director equity ownership at 9.2%, excluding options

Stock Exchange Listings:	NYSE American: XPL TSX: SLR
Issued and Outstanding:	58.45 million
Options:	4.28 million*
Warrants:	0 million
Fully Diluted:	62.73 million
Cash Marketable Securities:	US \$13.8 million
52-week High Low:	XPL: US \$0.91 US \$0.43
2-year XPL Stock Chart (in US \$):	4/6/2018
* 2.3 million options subject to shareholder approval	



Category	100% Basis	Tonnes (millions)	Grade			Contained Zn Eq. Pounds (millions)		
			Zn (%)	Pb (%)	Ag (g/t)	Zn Eq* (%)	100% Basis	Solitario Attributable
Indicated								
Lik		18.11	8.10	2.72	50.20	11.37	4,542	2,271
Florida Canyon		2.78	12.77	1.78	18.20	14.62	896	349
Total		20.89	8.72	2.59	45.94	11.80	5,438	2,620
Inferred								
Lik		5.34	8.66	2.69	38.00	11.66	1,373	687
Florida Canyon		9.07	10.87	1.21	12.20	12.12	2,425	946
Total		14.41	10.05	1.76	21.76	11.95	3,798	1,632

* Price Assumptions for Zinc-Equivalent Grade: Zinc \$1.20/lb; Lead \$1.00/lb; Silver \$16.50/oz.
 ** Solitario attributable interests: Lik-50%; Florida Canyon-39%

Officers:

Christopher E. Herald
CEO & President

James R. Maronick
Chief Financial Officer

Walter H. Hunt
Chief Operating Officer

Directors:

Brian Labadie
Chairman of the Board

Gil Atzman
Joshua Crumb

Christopher E. Herald

Jim Hesketh
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Solitario Zinc Corp.

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Projects and Properties:

Project	Partner	2018 Plans	Classification
Florida Canyon (Zinc, Peru)	Nexa (61%)	Road Building & Permitting	Pre-feasibility
Lik (Zinc, Alaska)	Teck (50%)	Technical Studies	Pre-feasibility
Pedra Branca (PGM, Brazil)	NSR-Royalty		
Montana Royalties (Cu Cu-Au Cu-Ag, USA)	NSR-Royalty		
Yanacocha Royalty (Gold, Peru)	NSR-Royalty		



Florida Canyon Zinc Project: (PERU)

Florida Canyon is a high grade (12.7% Zn-Eq), advanced exploration project joint ventured with Nexa Resources, one of the largest zinc producers in Peru. To date, our partners have spent over \$60 million on the project including 487 drill holes with 117,380 meters of drilling. Solitario's 30% is financed to production by our partner with no participation in any funding costs until cash flow is achieved. Solitario will repay its 30% share of construction costs from 50% of its net cash flow. In August, 2017 a Preliminary Economic Assessment ("PEA") on Florida Canyon was released revealing robust economics provided here.

NPV @ 8%-discount rate (after-tax)	\$198 million
Operating Margin (EBITDA)	\$958 million
Internal Rate of Return (after-tax)	24.7%
Payback	2.6 years
Initial Capital (incl. \$40 million contingency)	\$214 million
Sustaining Capital	\$83 million
Mine Life / Operating Rate	12.5 years / 2,500 tonnes/day
Average Annual Payable Metal Production	111.7 million lbs. payable zinc
	12.6 million lbs. payable lead
	160 thousand oz. payable silver
Direct and Indirect Cash Costs	\$64.15/tonne or \$0.51/Zn-Eq payable lb.
All-in-Cost	\$90.64/tonne or \$0.73/Zn-Eq payable lb.

Zinc Price Sensitivity

Zn Price	\$1.00		\$1.10		\$1.20		\$1.30	
	Pre-tax	After-tax	Pre-tax	After-tax	Pre-tax	After Tax	Pre-tax	After Tax
FCF (\$ millions)	408	267	535	352	662	437	788	521
NPV 8% (\$ millions)	187	96	263	147	339	198	414	248
IRR	24.5%	17.0%	29.7%	21.0%	34.5%	24.7%	38.9%	28.1%

Pb: \$1.00; Ag: \$16.50

Lik Zinc Project: (ALASKA)

Lik is a large tonnage, high-grade, open-pittable zinc deposit with significant underground expansion potential. The LIK property is comprised of 47 contiguous state mining claims covering ≈ 2,225 hectares (6,000 acres) in northern Alaska. The project is a 50/50 joint venture with Teck Resources and is located approximately 22 kilometers from Teck's Red Dog Mine, one of the largest and lowest cost zinc mines in the world. Solitario is the project operator. A PEA was completed in 2014 on the Lik deposit, a summary of which is provided here.

Location	Cut-off % Pb + Zn	Indicated Resources				Inferred Resources			
		M tons	% Zn	% Pb	g/t Ag	M tons	% Zn	% Pb	g/t Ag
Potential Open Pit									
Lik South	5%	16.85	8.04	2.70	50.1	0.74	7.73	1.94	13.4
Lik North	5%	0.44	10.03	2.77	59.0	2.13	8.88	2.94	45.8
Sub-Total		17.29	8.09	2.70	50.3	2.87	8.59	2.68	37.5
Additional Underground Resource									
Lik South	7%	0.69	8.04	3.15	51.0	0.51	6.97	1.59	11.3
Lik North	7%	0.13	8.93	2.93	37.5	1.96	9.22	2.99	45.8
Sub-Total		0.82	8.18	3.12	48.9	2.47	8.76	2.70	38.7
Total		18.11	8.10	2.72	50.2	5.34	8.66	2.69	38.0

Zinc Price Sensitivity	US\$1.00/lb	US\$1.10/lb	US\$1.20/lb	US\$1.30/lb
After Tax IRR	14.4	20.0	25.2	30.0
After Tax Payback (yrs)	4.5	3.4	2.8	2.4
After Tax NPV @ 8%	US\$99M	US\$195M	US\$291M	US\$386M

This publication includes certain "Forward-Looking Statements" within the meaning of section 21E of the United States Securities Exchange Act of 1934, as amended. All statements, other than statements of historical fact, included herein, including without limitation, statements regarding potential mineralization and reserves, exploration results and future plans and objectives of Solitario, are forward-looking statements that involve various risks and uncertainties. There can be no assurance that such statements will prove to be accurate and actual results and future events could differ materially from those anticipated in such statements. Development of Solitario's properties are subject to the success of exploration, completion and implementation of an economically viable mining plan, obtaining the necessary permits and approvals from various regulatory authorities, compliance with operating parameters established by such authorities and political risks such as higher tax and royalty rates, foreign ownership controls and our ability to finance in countries that may become politically unstable. Important factors that could cause actual results to differ materially from Solitario's expectations are disclosed under the heading "Risk Factors" and elsewhere in Solitario's documents filed from time to time with Canadian Securities Commissions, the United States Securities and Exchange Commission and other regulatory authorities. Cautionary Note to U.S. Investors concerning estimates of Resources: This publication uses the terms "Measured, Indicated and Inferred Resources." The Company advises U.S. investors that while these terms are recognized and required by Canadian regulations, the SEC does not recognize the terms. U.S. investors are cautioned not to assume that any part or all of Measured or Indicated Mineral Resources will ever be converted into Reserves. Inferred Resources have a great amount of uncertainty as to their existence, and great uncertainty as to their economic and legal feasibility. It cannot be assumed that all or any part of an Inferred Mineral Resource will ever be upgraded to a higher category. Under Canadian rules, estimates of Inferred Mineral Resources may not form the basis of feasibility or pre-feasibility studies, except in rare cases. U.S. investors are cautioned not to assume that any part or all of a measured, indicated or inferred resource exists, or is economically or legally minable. This document (including drill hole information and mineral reserve and resource numbers) has been reviewed for accuracy by Mr. Walt Hunt, COO for Solitario Exploration & Royalty Corp., who is a qualified person as defined by National Instrument 43-101.