

Security Class

Holder Account Number

Form of Proxy - Annual Meeting of Shareholders to be held on June 17, 2020

This Form of Proxy is solicited by and on behalf of the Board of Directors.

Notes to proxy

1. Every holder has the right to appoint some other person or company of their choice, who need not be a holder, to attend and act on their behalf at the meeting. If you wish to appoint a person or company other than the persons whose names are printed herein, please insert the name of your chosen proxyholder in the space provided (see reverse).
2. If the securities are registered in the name of more than one owner (for example, joint ownership, trustees, executors, etc.), then all those registered should sign this proxy. If you are voting on behalf of a corporation or another individual you may be required to provide documentation evidencing your power to sign this proxy with signing capacity stated.
3. This proxy should be signed in the exact manner as the name appears on the proxy.
4. If this proxy is not dated, it will be deemed to bear the date on which it is mailed to the holder.
5. **The securities represented by this proxy will be voted as directed by the holder, however, if such a direction is not made in respect of any matter, this proxy will be voted as recommended by the Board of Directors.**
6. The securities represented by this proxy will be voted or withheld from voting, in accordance with the instructions of the holder, on any ballot that may be called for and, if the holder has specified a choice with respect to any matter to be acted on, the securities will be voted accordingly.
7. This proxy confers discretionary authority in respect of amendments to matters identified in the Notice of Meeting or other matters that may properly come before the meeting.
8. This proxy should be read in conjunction with the accompanying documentation.

Proxies submitted must be received by 5:00 pm, Mountain Time, on June 15th, 2020.

VOTE USING THE TELEPHONE OR INTERNET 24 HOURS A DAY 7 DAYS A WEEK!



To Vote Using the Telephone

- Call the number listed BELOW from a touch tone telephone.

1-866-732-VOTE (8683) Toll Free



To Vote Using the Internet

- Go to the following web site:
www.investorvote.com
- **Smartphone?**
Scan the QR code to vote now.



If you vote by telephone or the Internet, DO NOT mail back this proxy.

Voting by mail may be the only method for securities held in the name of a corporation or securities being voted on behalf of another individual.

Voting by mail or by Internet are the only methods by which a holder may appoint a person as proxyholder other than the Management nominees named on the reverse of this proxy. Instead of mailing this proxy, you may choose one of the two voting methods outlined above to vote this proxy.

To vote by telephone or the Internet, you will need to provide your CONTROL NUMBER listed below.

CONTROL NUMBER



Appointment of Proxyholder

I/We being holder(s) of Solitario Zinc Corp. hereby appoint: Christopher E. Herald, a duly authorized officer of the Company, or failing this person, James R. Maronick, a duly authorized officer of the Company,

OR

Print the name of the person you are appointing if this person is someone other than the Management Nominees listed herein.

as my/our proxyholder with full power of substitution and to attend, act and vote for and on behalf of the shareholder in accordance with the following direction (or if no directions have been given, as the proxyholder sees fit) and all other matters that may properly come before the Annual Meeting of shareholders of Solitario Zinc Corp. to be held at 4251 Kipling Street, Suite 390, Wheat Ridge, CO 80033 on June 17th, 2020 at 10.00 a.m. M.D.T. and at any adjournment or postponement thereof.

VOTING RECOMMENDATIONS ARE INDICATED BY HIGHLIGHTED TEXT OVER THE BOXES.

1. Election of Directors

	For	Withhold	Against		For	Withhold	Against		For	Withhold	Against
01. Brian Labadie	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	02. John Labate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	03. James Hesketh	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
04. Christopher E. Herald	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	05. Gil Atzmon	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	06. Joshua Crumb	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2. Advisory Approval of the Company's Executive Compensation Program

Approval, on an advisory basis, of the compensation program of the Company's named executive officers.

For	Against
<input type="checkbox"/>	<input type="checkbox"/>

3. Appointment of Auditors

To ratify the appointment of Plante Moran PLLC, as Auditors of the Company for the fiscal year 2020.

For	Against	Abstain
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

4. The proxyholder is authorized to vote in their discretion on such other business as may properly come before the meeting and all adjournments thereof.

Authorized Signature(s) - This section must be completed for your instructions to be executed.

I/We authorize you to act in accordance with my/our instructions set out above. I/We hereby revoke any proxy previously given with respect to the Meeting. If no voting instructions are indicated above, this Proxy will be voted as recommended by the Board of Directors.

Signature(s)

Date

MM / DD / YY

Annual Report – Mark this box if you would like to receive the Annual Report and accompanying Management's Discussion and Analysis by mail

If you are not mailing back your proxy, you may register online to receive the above financial report(s) by mail at www.computershare.com/maillinglist.

