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SAMPLETOWN SS X9X 9X9

Security Class
COMMON

Holder Account Number
C1234567890 XXX

Form of Proxy - Annual General and Special Meeting of Shareholders to be held on June 19, 2025

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 or any adjournment or postponement thereof. If you wish to appoint a person or company other than the Management Nominees 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. If you are voting on behalf of a corporation you are required to provide your name and designation of office, e.g., ABC Inc. per John Smith, President.
3. This proxy should be signed in the exact manner as the name(s) appear(s) on the proxy.
4. If a date is not inserted in the space provided on the reverse of this proxy, it will be deemed to bear the date on which it was mailed to the holder by Management.
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, and the proxy appoints the Management Nominees listed on the reverse, this proxy will be voted as recommended by the Board of Directors.**
6. The securities represented by this proxy will be voted in favour, or withheld from voting, or voted against each of the matters described herein, as applicable, in accordance with the instructions of the holder, on any ballot that may be called for. If you have 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 or variations to matters identified in the Notice of Meeting and Management Information Circular or other matters that may properly come before the meeting or any adjournment or postponement thereof, unless prohibited by law.
8. This proxy should be read in conjunction with the accompanying documentation provided by Management.

Proxies submitted must be received by 5:00 pm, Mountain Time, on June 17, 2025.

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.



To Receive Documents Electronically

- You can enroll to receive future securityholder communications electronically by visiting www.investorcentre.com.

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 123456789012345



Appointment of Proxyholder

I/We being holder(s) of securities of Solitario Resources Corp. (the "Corporation") hereby appoint: Christopher E. Herald, or failing this person, James R. Maronick (the "Management Nominees")

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 General and Special Meeting of shareholders of Solitario Resources Corp. to be held at 4251 Kipling Street, Suite 390, Wheat Ridge, CO 80033 on June 19, 2025 at 10:00 am, Mountain Time, and at any adjournment or postponement thereof.

VOTING RECOMMENDATIONS ARE INDICATED BY HIGHLIGHTED TEXT OVER THE BOXES.

1. Election of Directors

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

2. Advisory Vote on Executive Compensation

RESOLVED THAT: Solitario shareholders approve the compensation of Solitario's Named Executive Officers, as disclosed in this Proxy Statement, pursuant to the compensation disclosure rules of the Securities and Exchange Commission set forth in Item 402 of Regulation S-K, including, but not limited to, the "Executive Compensation" section, the compensation tables, and any related material disclosed in the Proxy Statement for the 2025 annual meeting.

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

3. An Amendment to the Company's Articles of Incorporation to Increase the Number of Authorized Shares of Common Stock of Solitario to 200,000,000 Shares of Common Stock from the Current 100,000,000 Shares of Common Stock

To approve an amendment to the Company's Articles of Incorporation to increase the number of authorized shares of Common Stock to 200,000,000 from the current 100,000,000.

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

4. Appointment of Auditors

Appointment of Assure CPA, LLC as Auditors of the Corporation for the ensuing year and authorizing the Directors to fix their remuneration.

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

5. Other Business

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

THIS PROXY WILL BE VOTED AS DIRECTED OR, IF NO DIRECTION IS INDICATED, WILL BE VOTED "FOR" THE ELECTION OF THE DIRECTOR NOMINEES AND "FOR" PROPOSALS 2, 3 AND 4, AND WILL BE VOTED IN THE DISCRETION OF THE PROXY HOLDER ON SUCH OTHER MATTERS AS MAY PROPERLY COME BEFORE THE MEETING AND ANY ADJOURNMENT(S) OR POSTPONEMENT(S) 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. If you are voting on behalf of a corporation you are required to provide your name and designation of office, e.g., ABC Inc. per John Smith, President.

Signature(s)

Date

DD / MM / YY

Signing Capacity

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

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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.