

Summary Prospectus

BlackRock Liquidity Funds | Cash Management Shares

- **TempCash**

Cash Management Shares: BLLXX

Before you invest, you may want to review the Fund's prospectus, which contains more information about the Fund and its risks. You can find the Fund's prospectus (including amendments and supplements), reports to shareholders and other information about the Fund, including the Fund's statement of additional information, online at <https://www.blackrock.com/prospectus>. You can also get this information at no cost by calling (800) 441-7450 or by sending an e-mail request to prospectus.request@blackrock.com, or from your financial professional. The Fund's prospectus and statement of additional information, both dated August 12, 2024, as amended and supplemented from time to time, are incorporated by reference into (legally made a part of) this Summary Prospectus.

This Summary Prospectus contains information you should know before investing, including information about risks. Please read it before you invest and keep it for future reference.

The Securities and Exchange Commission has not approved or disapproved these securities or passed upon the adequacy of this Summary Prospectus. Any representation to the contrary is a criminal offense.

Not FDIC Insured • May Lose Value • No Bank Guarantee

Summary Prospectus

Key Facts About TempCash

Investment Objective

The investment objective of TempCash (the “Fund”), a series of BlackRock Liquidity Funds (the “Trust”), is to seek as high a level of current income as is consistent with liquidity and stability of principal.

Fees and Expenses of the Fund

This table describes the fees and expenses that you may pay if you buy, hold and sell Cash Management Shares of TempCash. **You may pay other fees, such as brokerage commissions and other fees to your financial professional or your selected securities dealer, broker, investment adviser, service provider or industry professional (including BlackRock Advisors, LLC (“BlackRock”) and its affiliates) (each, a “Financial Intermediary”), which are not reflected in the table and example below.**

Annual Fund Operating Expenses

(expenses that you pay each year as a percentage of the value of your investment)

| | Cash Management Shares |
|---|------------------------|
| Management Fee | 0.21% |
| Distribution (12b-1) Fees | None |
| Other Expenses | 0.51% |
| Shareholder Servicing Fees | 0.50% |
| Miscellaneous/Other Expenses | 0.01% |
| Total Annual Fund Operating Expenses | 0.72% |
| Fee Waivers and/or Expense Reimbursements ¹ | (0.04)% |
| Total Annual Fund Operating Expenses After Fee Waivers and/or Expense Reimbursements ¹ | 0.68% |

¹ As described in the “Management of the Fund” section of the Fund’s prospectus beginning on page 25, BlackRock, the Fund’s investment manager, has contractually agreed to waive fees and/or reimburse ordinary operating expenses in order to keep combined Management Fees and Miscellaneous/Other Expenses (excluding Dividend Expense, Interest Expense, Acquired Fund Fees and Expenses and certain other Fund expenses) from exceeding 0.18% of average daily net assets through June 30, 2026. The agreement may be terminated upon 90 days’ notice by a majority of the non-interested trustees of the Trust or by a vote of a majority of the outstanding voting securities of the Fund.

Example:

This Example is intended to help you compare the cost of investing in the Fund with the cost of investing in other mutual funds. The Example assumes that you invest \$10,000 in the Fund for the time periods indicated and then redeem all of your shares at the end of those periods. The Example also assumes that your investment has a 5% return each year and that the Fund’s operating expenses remain the same. Although your actual costs may be higher or lower, based on these assumptions your costs would be:

| | 1 Year | 3 Years | 5 Years | 10 Years |
|------------------------|--------|---------|---------|----------|
| Cash Management Shares | 69 | 226 | 397 | 891 |

Principal Investment Strategies of the Fund

TempCash invests in a broad range of U.S. dollar-denominated money market instruments, including government, U.S. and foreign bank, and commercial obligations and repurchase agreements. Under normal market conditions, at least 25% and normally a substantial portion of the Fund's total assets will be invested in obligations of issuers in the financial services industry and repurchase agreements secured by such obligations. The Fund invests in securities maturing in 397 days or less (with certain exceptions) and the portfolio will have a dollar-weighted average maturity of 60 days or less and a dollar-weighted average life of 120 days or less.

In addition, the Fund may invest in mortgage- and asset-backed securities, short-term obligations issued by or on behalf of states, territories and possessions of the United States, the District of Columbia, and their respective authorities, agencies, instrumentalities and political subdivisions and derivative securities such as beneficial interests in municipal trust certificates and partnership trusts. The Fund may also invest in variable and floating rate instruments, and transact in securities on a when-issued, delayed delivery or forward commitment basis.

The securities purchased by the Fund are subject to the quality, diversification, and other requirements of Rule 2a-7 under the Investment Company Act of 1940, as amended (the "1940 Act"), and other rules of the Securities and Exchange Commission.

Principal Risks of Investing in the Fund

Risk is inherent in all investing. You could lose money by investing in the Fund. Because the share price of the Fund will fluctuate, when you sell your shares they may be worth more or less than what you originally paid for them. The Fund may impose a fee upon the sale of your shares. An investment in the Fund is not a bank account and is not insured or guaranteed by the Federal Deposit Insurance Corporation or any other government agency. The Fund's sponsor is not required to reimburse the Fund for losses, and you should not expect that the sponsor will provide financial support to the Fund at any time, including during periods of market stress. The following is a summary description of principal risks of investing in the Fund. The relative significance of each risk factor below may change over time and you should review each risk factor carefully.

- **Credit Risk** — Credit risk refers to the possibility that the issuer of a debt security (i.e., the borrower) will be unable or unwilling to make timely payments of interest and principal when due or otherwise honor their obligations. Changes in an issuer's credit rating or the market's perception of an issuer's creditworthiness may also adversely affect the value of the Fund's investment in that issuer.
- **Financial Services Industry Risk** — Because of its concentration in the financial services industry, the Fund will be more susceptible to any economic, business, political or other developments which generally affect this industry sector. As a result, the Fund will be exposed to a large extent to the risks associated with that industry, such as government regulation, the availability and cost of capital funds (including the availability and stability of deposits in the case of deposit-taking institutions), consolidation and general economic conditions. Financial services companies are also exposed to losses if borrowers and other counterparties experience financial problems and/or cannot repay their obligations.

When interest rates go up, the value of securities issued by many types of financial services companies generally goes down. In many countries, financial services and the companies that provide them are regulated by governmental entities, which can increase costs for new services or products and make it difficult to pass increased costs on to consumers. In certain areas, deregulation of financial services companies has resulted in increased competition and reduced profitability for certain companies.

The profitability of many types of financial services companies may be adversely affected in certain market cycles, including periods of rising interest rates, which may restrict the availability and increase the cost of capital, and declining economic conditions, which may cause credit losses due to financial difficulties of borrowers. Because many types of financial services companies are vulnerable to these economic cycles, a large portion of the Fund's investments may lose value during such periods.

- **Interest Rate Risk** — Interest rate risk is the risk that the value of a debt security may fall when interest rates rise. In general, the market price of debt securities with longer maturities will go up or down more in response to changes in interest rates than the market price of shorter-term securities. Due to fluctuations in interest rates, the market value of such securities may vary during the period shareholders own shares of the Fund. Very low or negative interest rates may magnify interest rate risk. During periods of very low or negative interest rates, the Fund may be unable to maintain positive returns or pay dividends to Fund shareholders. The Fund may be subject to a greater risk of rising interest rates during a period of

historically low interest rates. The Federal Reserve has raised the federal funds rate as part of its efforts to address rising inflation.

Changing interest rates may have unpredictable effects on markets, may result in heightened market volatility and may detract from the Fund's ability to achieve its investment objective..

- **Discretionary Liquidity Fee Risk** — The Board, or its delegate, has discretion to impose a liquidity fee of up to 2% upon sale of your shares if such fee is determined to be in the best interests of the Fund. Accordingly, your redemptions may be subject to a liquidity fee when you sell your shares at certain times.
- **Extension Risk** — When interest rates rise, certain obligations will be paid off by the obligor more slowly than anticipated, causing the value of these securities to fall.
- **Foreign Exposure Risk** — Securities issued or supported by foreign entities, including foreign banks and corporations, may involve additional risks and considerations. Extensive public information about the foreign issuer may not be available, and unfavorable political, economic or governmental developments in the foreign country involved could affect the payment of principal and interest.
- **Income Risk** — Income risk is the risk that the Fund's yield will vary as short-term securities in its portfolio mature and the proceeds are reinvested in securities with different interest rates.
- **Market Risk and Selection Risk** — Market risk is the risk that one or more markets in which the Fund invests will go down in value, including the possibility that the markets will go down sharply and unpredictably. The value of a security or other asset may decline due to changes in general market conditions, economic trends or events that are not specifically related to the issuer of the security or other asset, or factors that affect a particular issuer or issuers, exchange, country, group of countries, region, market, industry, group of industries, sector or asset class. Local, regional or global events such as war, acts of terrorism, the spread of infectious illness or other public health issues like pandemics or epidemics, recessions, or other events could have a significant impact on the Fund and its investments. Selection risk is the risk that the securities selected by Fund management will underperform the markets, the relevant indices or the securities selected by other funds with similar investment objectives and investment strategies. This means you may lose money.

An outbreak of an infectious coronavirus (COVID-19) that was first detected in December 2019 developed into a global pandemic that has resulted in numerous disruptions in the market and has had significant economic impact leaving general concern and uncertainty. Although vaccines have been developed and approved for use by various governments, the duration of the pandemic and its effects cannot be predicted with certainty. Because the Fund invests in short-term instruments these events have caused some instruments to have declining yields, which may impair the results of the Fund if these conditions persisted. The impact of this coronavirus, and other epidemics and pandemics that may arise in the future, could affect the economies of many nations, individual companies and the market in general ways that cannot necessarily be foreseen at the present time.

- **Mortgage- and Asset-Backed Securities Risks** — Mortgage- and asset-backed securities represent interests in "pools" of mortgages or other assets, including consumer loans or receivables held in trust. Mortgage- and asset-backed securities are subject to credit, interest rate, prepayment and extension risks. These securities also are subject to risk of default on the underlying mortgage or asset, particularly during periods of economic downturn. Small movements in interest rates (both increases and decreases) may quickly and significantly reduce the value of certain mortgage-backed securities.
- **Prepayment Risk** — When interest rates fall, certain obligations will be paid off by the obligor more quickly than originally anticipated, and the Fund may have to invest the proceeds in securities with lower yields.
- **Repurchase Agreements Risk** — If the other party to a repurchase agreement defaults on its obligation under the agreement, the Fund may suffer delays and incur costs or lose money in exercising its rights under the agreement. If the seller fails to repurchase the security and the market value of the security declines, the Fund may lose money.
- **Risk of Investing in the United States** — Certain changes in the U.S. economy, such as when the U.S. economy weakens or when its financial markets decline, may have an adverse effect on the securities to which the Fund has exposure.

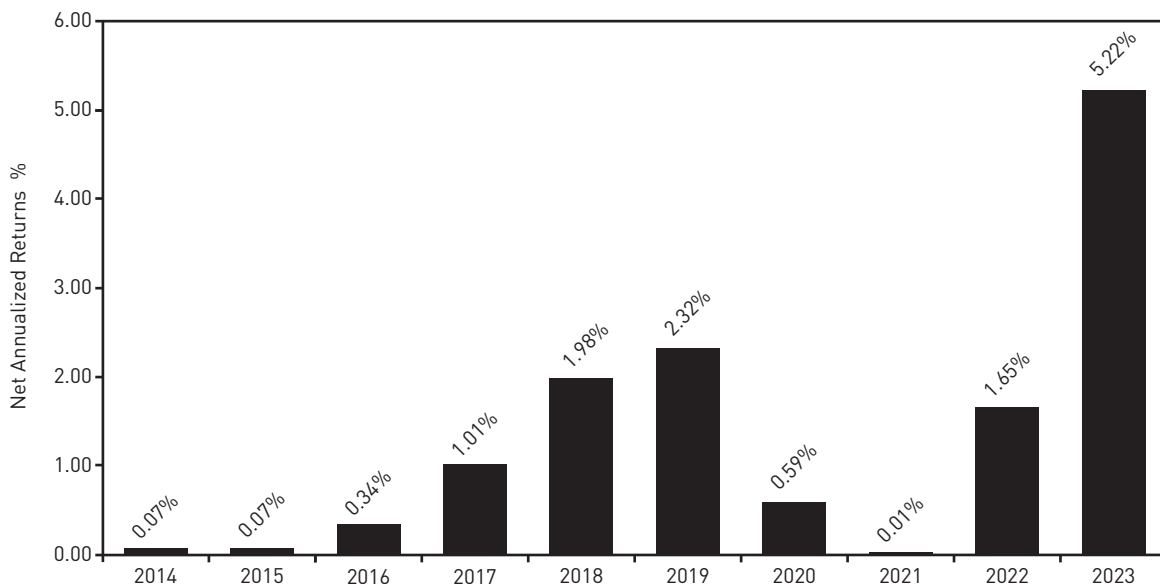
- **Treasury Obligations Risk** — Direct obligations of the U.S. Treasury have historically involved little risk of loss of principal if held to maturity. However, due to fluctuations in interest rates, the market value of such securities may vary during the period shareholders own shares of the Fund. In addition, notwithstanding that U.S. Treasury obligations are backed by the full faith and credit of the United States, circumstances could arise that could prevent the timely payment of interest or principal, such as reaching the legislative “debt ceiling.” Such non-payment could result in losses to the Fund and substantial negative consequences for the U.S. economy and the global financial system.
- **U.S. Government Obligations Risk** — Certain securities in which the Fund may invest, including securities issued by certain U.S. Government agencies and U.S. Government sponsored enterprises, are not guaranteed by the U.S. Government or supported by the full faith and credit of the United States. In addition, circumstances could arise that could prevent the timely payment of interest or principal on U.S. Government obligations, such as reaching the legislative “debt ceiling.” Such non-payment could result in losses to the Fund and substantial negative consequences for the U.S. economy and the global financial system.
- **Variable and Floating Rate Instrument Risk** — Variable and floating rate securities provide for periodic adjustment in the interest rate paid on the securities. These securities may be subject to greater illiquidity risk than other fixed income securities, meaning the absence of an active market for these securities could make it difficult for the Fund to dispose of them at any given time.
- **When-Issued and Delayed Delivery Securities and Forward Commitments Risk** — When-issued and delayed delivery securities and forward commitments involve the risk that the security the Fund buys will lose value prior to its delivery. There also is the risk that the security will not be issued or that the other party to the transaction will not meet its obligation. If this occurs, the Fund may lose both the investment opportunity for the assets it set aside to pay for the security and any gain in the security’s price.

Performance Information

There are currently no Cash Management Shares of TempCash outstanding as of the date of this prospectus. As a result, the chart, the table and the seven-day yield shown below give you a picture of the performance for Institutional Shares of the Fund, which are not offered in this prospectus. The performance of the Fund's Cash Management Shares would be substantially similar to Institutional Shares because Cash Management Shares and Institutional Shares are invested in the same portfolio of securities and performance would only differ to the extent that Cash Management Shares and Institutional Shares have different expenses. The actual returns of Cash Management Shares would have been lower than those of Institutional Shares because Cash Management Shares have higher expenses than Institutional Shares.

The information shows you how TempCash's performance has varied year by year and provides some indication of the risks of investing in the Fund. As with all such investments, past performance is not an indication of future results. To the extent that dividends and distributions have been paid by the Fund, the performance information for the Fund in the chart and table assumes reinvestment of the dividends and distributions. The table includes all applicable fees. If BlackRock and its affiliates had not waived or reimbursed certain Fund expenses during these periods, the Fund's returns would have been lower. The Fund is a money market fund managed pursuant to the requirements of Rule 2a-7 under the 1940 Act. Effective October 11, 2016, the Fund implemented additional amendments to Rule 2a-7, including the adoption of a floating net asset value ("NAV") per Fund share. Fund performance shown prior to October 11, 2016 is based on 1940 Act rules then in effect and is not an indication of future returns. Between October 1, 2015 and February 28, 2017, the Fund operated under a different investment policy such that it would invest only in securities that, under normal circumstances, would mature (without reference to interest rate adjustment dates), or were subject to an unconditional demand feature that was exercisable and payable, within 5 business days or less. Investors should note that the historical yield and performance information shown for this period are based on the investment policy of the Fund relating to maturity restrictions then in effect. Updated information on the Fund's performance can be obtained by visiting www.blackrock.com/cash or can be obtained by phone at (800) 441-7450.

TempCash Institutional Shares ANNUAL TOTAL RETURNS As of 12/31



During the ten-year period shown in the bar chart, the highest return for a quarter was 1.41% (quarter ended December 31, 2023) and the lowest return for a quarter was -0.03% (quarter ended March 31, 2022).

For the periods ended 12/31/23
Average Annual Total Returns

| | 1 Year | 5 Years | 10 Years |
|-------------------------------|--------|---------|----------|
| TempCash—Institutional Shares | 5.22% | 1.94% | 1.31% |

7-Day Yield
As of December 31, 2023

| | |
|-------------------------------|-------|
| TempCash—Institutional Shares | 5.43% |
|-------------------------------|-------|

Current Yield: You may obtain the Fund’s current 7-day yield by calling (800) 441-7450 or by visiting the Fund’s website at www.blackrock.com/cash.

Investment Manager

TempCash’s investment manager is BlackRock Advisors, LLC (previously defined as “BlackRock”). The Fund’s sub-adviser is BlackRock International Limited (the “Sub-Adviser”). Where applicable, “BlackRock” refers also to the Sub-Adviser.

Purchase and Sale of Fund Shares

You may purchase or sell shares without paying a sales charge. You may generally purchase or redeem shares of the Fund each day on which the New York Stock Exchange and the Federal Reserve Bank of Philadelphia are open for business. To purchase or sell shares of the Fund, purchase orders and redemption orders must be transmitted to the Fund’s office in Wilmington, Delaware by telephone (800-441-7450; in Delaware 302-797-2350), through the Fund’s internet-based order entry program, or by such other electronic means as the Fund agrees to in its sole discretion. You have until the close of the federal funds wire (normally 6:45 p.m. Eastern time) to get your purchase money in to the Fund or your purchase order may be cancelled.

Purchase orders must be placed in dollars.

The Fund’s initial and subsequent investment minimums generally are as follows, although the Fund’s officers may reduce or waive the minimums in some cases:

| | Cash Management Shares |
|--------------------------------------|---|
| Minimum Initial Investment | \$5,000 (however, Financial Intermediaries may set a higher minimum for their customers). |
| Minimum Additional Investment | No subsequent minimum. |

Tax Information

Dividends and distributions paid by TempCash may be subject to federal income taxes and may be taxed as ordinary income or capital gains, unless you are a tax-exempt investor or are investing through a retirement plan, in which case you may be subject to federal income tax when you withdraw or receive distributions from such tax-deferred arrangements.

Payments to Broker/Dealers and Other Financial Intermediaries

If you purchase shares of TempCash through a broker-dealer or other Financial Intermediary, the Fund and BlackRock Investments, LLC, the Fund’s distributor, or its affiliates may pay the Financial Intermediary for the sale of Fund shares and related services. These payments may create a conflict of interest by influencing the broker-dealer or other Financial Intermediary and your individual financial professional to recommend the Fund over another investment.

Ask your individual financial professional or visit your Financial Intermediary’s website for more information.

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