Audit Report

Core Unit Name: SAS Audit ID: 2022-10-SAS001 Audit Cycle: 2022 - 10/ 2 Audit Result: Approved

Audit Date: 11-17-2022 V1 - 11-23-2022 V2

Budget Statement Submission Date: 11-11-2022

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Core Unit Clarification Received on Date: 11-23-2022

 $\underline{ Transparency \ Report: https://github.com/makerdao-sas/transparency-reporting/blob/main/Monthly%20Budget%20Statements/2022-10.md}$



MIP40	Implands-SP4621. https://printup.com/entage-read-read-read-read-read-read-read-rea											
MIP4093-SP44: https://forum.makerdao.com/r/mip4093-sp44-adding-sidestream-auction-services-core-unit-mke-budget-sas-001/10802												
#	Audit Question					Audit Assessment	Core Unit's Clarification	Immediate CU Action to improve transparency report	Medium Term CU Action to improve transparency report			
ı	audit Questions to the Structure of the transparency report, and consitency with SAS MIP40c3-SP43					Note This audit has assessed the data published by SAS in Github "SAS: October 2022 Budget Statement" and the SAS expense site at https://expenses.makerdao.network/						
0.1	we the sections in the transparency report in the right order: Actuals, Forecast, MKR vesting and ransfers?	~				Yes.						
	Ooes the actual section include breakdowns per Budget Category, Forecast, Actuals, Difference and layments?	V				Yes.						
0.3	Does the budget forecast cover 3 months with summary and budget category breakdown?	V				Yes. SAS has submitted a New budget request on October 6th, 2022 MIP40c3-SP85. Ratification is pending. The current budget period covers until November 30, 2022.						
0.4	ooes the budget forecast summary and breakdown contain the quarterly budget caps for comparison?	~				Yes.						
0.5	ooes the budget forecast summary contain the Global/total budget cap?	~				Yes.						
0.6	are the budget forecast categories in the transparency report the same as in the MIP40c3-SP43?	~				SAS is using the MakerDAO standard budget categories in the budget statement.						
0.7	s the SAS operational Multi-sig wallet setup the same as described in the MIP40c3-SP43?	>	П	П		Yes. SAS Operational Wallet quorum (2:3) Controlled by the SAS Core Unit team Address: 0x465AA62x82E220B331f5ECcA697c20E89554B298 Signers 0x274736890166046f00f424fEB64bZE468841ebfE 0x478375f6204C61482870e1f50Dc1C99175631678 0x95802AfC028499e5C1a60160A44068f827f4ffe5d						
	s the SAS operational wallet controlled by more than 1 signer?					Yes, the SAS operational wallet has a current policy of 2 out of 3 signers						
	las the SAS auditor wallet receive the initial seed funds from the protocol prior transfer to the SAS vallet?	V				Yes, the auditor wallets has received 245,738 DAI from the protocol https://etherscan.io/tr/0xab810a967ba4a68862c4433ac4185fbe1a3ff121bf4b3853 5a2aab4a8e990844 The MIP40c3-5P43 total busget cap less contingency buffer is 245,737.50 DAI and with the 15% buffer included the grand total is 282,598.13.						
0.10	las the SAS operational wallet received a top-up after the audit of the last transparency report?	~	П	П	П	Yes, the SAS operational wallet received 71,530.59 DAi on November 8th, 2022. https://etherscan.io/tx/0x1a9608d15085d2153ae45b2fc2949d325d88971898f1334 87ef25dd4ece8a319						
0.11	s the SAS Auditor Multi-sig wallet setup the same as described in the MIP40c3-SP43?					Yes. SAS Auditor Wallet quorum (2:2) eth address:0xb1950a51516a697E103aaa69E152d839182f6Fe Signers: SES Auditor Role Wallet eth:0xB2da57e224949acDDe173a5b8A8160c023ea86e6 SESE Auditor Role Wallet eth:0xb2AS55Ac8D232e8AS6a437e90875261535c8320C						
0.12	las the SAS Auditor wallet received the funds from the protocol?					Yes. The last transaction was 177,605.74003198 DAI received on October 28th, 2022. The auditor wallet balance is 188,398.7526122 DAI on November 17th, 2022. https://etherscan.io/tx/0x885b5862f787c00fb0b2e0f567721a1ae2e271f4f0926811 22f2581d27826495 The SAS auditor wallet has returned 81,501.52 DAI to the protocol on November 10th, 2022. https://etherscan.io/tx/0x8396394c2f847cbd42abdca7447dfb5ccec8837a658b3393 45ed228809a39d10						
0.13 J	las the SAS Auditor wallet sufficient funds to be sent to the SAS operational wallet?	~				Yes.						
1	audit Questions to Transparency Report - Section 1. Last Month Actuals -											
1.1	s the actuals budget category breakdown the same as in the MIP40c3-SP43?	~				SAS is using the MakerDAO standard budget categories.						
1.2	s the transparency report actual's forecast the same as the last published forecast for the same month?	~				Yes.						

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1.3 Are the differences between forecast and actuals explained in the transparency report?	~				Yes.		
1.4 Are the SAS actual expenses within the monthly MIP40c3-SP43 buget cap?		П		П	Yes.		
1.5 Are the SAS actual expenses within the quarterly total MIP40c3-SP43 budget cap?							
Has the SAS Compensation and Benefits cost any significant deviations between forecast and actuals?	~				No. There is a perfect match.		
Has the SAS Travel & Entertainment cost any significant deviations between forecast and actuals?	~				Yes. The forecast is 1,500, and the actual expense is 1,236, this gives a positive difference of 264.	"Less travelling than planned"	
Has the SAS Software Development Expense any significant deviations between forecast and actuals?	~				No.		
Has the SAS Software Expense any significant deviations between forecast and actuals?	~				Yes, the forecast is 1,256 and the actual expense is 1,704, this gives a negative diff. of 448. The actual expense is within the approved monthly budget for this category.	"higher infrastructure costs than expected"	
Has the Admin Expense any significant deviations between forecast and actuals?	~				No.		
Has the SAS Professional Services cost any significant deviations between forecast and actuals?	~				Yes. The forecast is 3,246 and the actual expense is 3,413, this gives a negative difference of 167. This expense is within the monthly approved budget of 5,000.	"Spend more on tax advisor"	
Has the SAS Gas Expense any significant deviations between forecast and actuals?	~				Yes. The gas fees forecast is 750 and the actual expense is 44 this gives a positive difference of 706.	"lower gas fees than expected"	
1.13 Has the SAS presented the correct calculation of amounts for the actuals, forecast and difference?	~				Yes. SAS has corrected the amounsts as indicated in audit v1.		
1.14 Has the SAS any budget category that seems inconsistent and needs further investigation?	~				No.		
Audit Questions to Transparency Report - Section 2. Budget Forecast -							
Does the transparency report display the MIP40c3-SP43 caps for both total and budget categories?	~				Yes.		
Are the monthly and quarterly budget caps (both totals and per category) the same as in the 2.2 MIP40c3-SP43?	~				Yes.		
Are the monthly forecast totals within the MIP40c3-SP43 monthly budget cap?	~				Yes.		
Is the quarterly forecast within the bounds of the MIP40c3-SP43 budget caps?	~				Yes.		
Has the SAS presented the correct calculation of amounts in the budger forecast section?	~				Yes.		
Audit Questions to Transparency Report - Section 3. MKR Vesting Overview -							
Has the SAS indicated the number of FTE in the transparency report's MKR vesting overview?	~				Yes.		
Has the MKR vesting overview the same FTE comparing it to the MIP40c3-SP44?	~				Yes.		
Are the MKR vesting dates the same as in the MIP40c3-SP44?	~				Yes.		SAS should add the year complete the December date 2023 on the original approved budget and review the MKR budget taking in consideration new onboardings.
Has SAS changed the MKR amounts comparing it to the MIP40c3-SP44?	~				No.		
Has SAS explained the MKR change in the transparency report?					This control can only be made if the above question is yes.		
Is the SAS auditor wallet's lifetime MKR transfer amount correct?	~				Yes.		
3.7 Is the SAS MKR current balance in the auditor wallet correct?	~				Yes. The current MKR balance is 0.		
Audit Questions to Transparency Report - Section 4. Transfers -							
Does the SAS operational wallet balances match the transparency report current balance in the calculation made for the new transfer? 4.1	~				Yes, the current balance in the transaparency report is 145,214 and the actual balance in the operational wallet is 145,214.0003133 DAI on November 17th. 2022. https://gnosis-safe.io/app/eth:0x465AA62a82E220B331f5ECcA697c20E89554B298/balances*		
Are the payments from the operational wallet the same as in the actual section payments?	~				Yes. The payment amount in the budget statement is 72,074.50 and on-chain trx. is 72,074.5 DAI on November 4th, 2022. https://detherson.io/tx/0xbf3733cd679ac7ce7564b44b3ea5c795b827dd43c48c9d7acaa255acbec48552		
is the SAS latest Github Budget Statement consistent with the data provided in the MakerDAO Ecosystem 4.3 Dashboard?				П	Yes.		
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