

## Audit Report

Core Unit Name: SAS

Audit ID: 2022-05-SAS001

Audit Cycle: 2022 - 05/ 1

Audit Result: Needs CU Action

Audit Date: 06-18-2022

Budget Statement Submission Date: 06-09-2022

Facilitator contact: @danik

Core Unit Clarification Received on Date:

Transparency Report: <https://github.com/makerdao-sas/transparency-reporting/blob/main/Monthly%20Budget%20Statements/2022-05.md>

MIP40c3-SP43: <https://forum.makerdao.com/t/mip40c3-sp43-adding-sidestream-auction-services-core-unit-budget-sas-001/10799>

MIP40c3-SP44: <https://forum.makerdao.com/t/mip40c3-sp44-adding-sidestream-auction-services-core-unit-mkr-budget-sas-001/10802>



#	Audit Question	Approved	Approved with comments	Needs action before approval	Failure	Audit Assessment	Core Unit's Clarification	Immediate CU Action to improve transparency report	Medium Term CU Action to improve transparency report
	Audit Questions to the Structure of the transparency report and consistency with SAS MIP40c3-SP43								
0.1	Are the sections in the transparency report in the right order: Actuals, Forecast, MKR vesting and Transfers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yes.			
0.2	Does the actual section include breakdowns per Budget Category, Forecast, Actuals, Difference and Payments?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yes.			
0.3	Does the budget forecast cover 3 months with summary and budget category breakdown?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yes.			
0.4	Does the budget forecast summary and breakdown contain the quarterly budget caps for comparison?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yes.			
0.5	Does the budget forecast summary contain the Global/total budget cap?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yes.			
0.6	Are the budget forecast categories in the transparency report the same as in the MIP40c3-SP43?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yes.			
0.7	Is the SAS operational Multi-sig wallet setup the same as described in the MIP40c3-SP43?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yes. SAS Operational Wallet quorum (2:3)  Controlled by the SAS Core Unit team Address: 0x465AA62a82E220B331f5ECcA697c20E89554B298 Signers 0x274736890166046f00f424fE64b2E468841ebfE 0x4f3B7fb6204C614B28F0e1f50Dc1C99175631678 0xD95802afC02B49e5C1a6016D44d08fe37FAfFc9d			
0.8	Is the SAS operational wallet controlled by more than 1 signer?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yes, the SAS operational wallet has a current policy of 2 out of 3 signers			
0.9	Has the SAS auditor wallet receive the initial seed funds from the protocol prior transfer to the SAS wallet?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yes, the auditor wallets has received 245,738 DAI from the protocol <a href="https://etherscan.io/tx/0xab810a967ba4a68862c433ec4185fba3ff121bf4b38535a2aab4a8e9908a4">https://etherscan.io/tx/0xab810a967ba4a68862c433ec4185fba3ff121bf4b38535a2aab4a8e9908a4</a> The MIP40c3-SP43 total busget cap less contingency buffer is 245,737.50 DAI.			
0.10	Has the SAS operational wallet received a top-up after the audit of the last transparency report?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yes, the SAS operational wallet received 82,302.10 DAI on May 10th , 2022. <a href="https://etherscan.io/address/0x465AA62a82E220B331f5ECcA697c20E89554B298#token">https://etherscan.io/address/0x465AA62a82E220B331f5ECcA697c20E89554B298#token</a>			
0.11	Is the SAS Auditor Multi-sig wallet setup the same as described in the MIP40c3-SP43?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yes. SAS Auditor Wallet quorum (2:2) eth address: 0xb1f950a51516a697E103aaa69E152d839182f6Fe Signers: SES Auditor Role Wallet eth: 0xb2da57e224949acDDe173a5b8A8160c023ea86e6 SES Accountant Role Wallet eth: 0xA2A855Ac8D2a92e8A5a437690875261535c8320C			
0.12	Has the SAS Auditor wallet received the funds from the protocol?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yes. Last transaction was 148,877.347302350427350427 DAI recieved on Maj 9th, 2022. The auditor wallet balance on June 18th, 2022 DAI is 89,007.90744153 DAI. SES will coordinate the transactions of funds from the protocol to the SAS Auditor wallet. <a href="https://etherscan.io/address/0xb1f950a51516a697E103aaa69E152d839182f6Fe#token">https://etherscan.io/address/0xb1f950a51516a697E103aaa69E152d839182f6Fe#token</a>			
0.13	Has the SAS Auditor wallet sufficient funds to be sent to the SAS operational wallet?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yes.			
	Audit Questions to Transparency Report - Section 1. Last Month Actuals -								
1.1	Is the actuals budget category breakdown the same as in the MIP40c3-SP43?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yes.			
1.2	Is the transparency report actual's forecast the same as the last published forecast for the same month?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yes.			

1.3	Are the differences between forecast and actuals explained in the transparency report?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yes.			
1.4	Are the SAS actual expenses within the monthly MIP40c3-SP43 buget cap?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yes.			
1.5	Are the SAS actual expenses within the quarterly total MIP40c3-SP43 budget cap?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yes.			
1.6	Has the SAS contractor fees any significant deviations between forecast and actuals?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No. There is a perfect match.			
1.7	Has the SAS travel & events costs any significant deviations between forecast and actuals?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yes. The forecast is 2,500, and the actual expense is 1,286.97, this gives is a positive difference of 1,213.03.	SAS explains in the budget statement that this diff. is due to "Lower costs as an offsite was postponed."		
1.8	Has the SAS IT Infrastructure and subscriptions costs any significant deviations between forecast and actuals?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yes. The IT infrastructure and subscriptions costs forecast is 2,506.00 and the actual expense is 1,686.05, this gives a positive difference of 819.95 DAI.	SAS explains that the difference is due to "Infrastructure costs lower as expected due to optimizations, but some extra costs during market crashes."		
1.9	Has the SAS gas fees any significant deviations between forecast and actuals?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yes. The gas fees forecast is 1,000, and the actual expense is 635.45, this results in a positive difference of 364.55 DAI.	The difference is due to "Lower gas fees and less transactions."		
1.10	Has the SAS office space any significant deviations between forecast and actuals?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No.			
1.12	Has the SAS professional and Legal Services costs any significant deviations between forecast and actuals?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yes. The forecast is 4,996 and the actual expense is 3,372.16. This gives a negative difference of 1,623.84.	SAS explains in the budget statement that this diff. is due to "Fees lower than estimated."		
1.13	Has the SAS Engineer Contractor costs any significant deviations between forecast and actuals?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No. There is a perfect match.			
1.14	Has the SAS other services fees any significant deviations between forecast and actuals?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yes. The SAS other services forecast is 4,718.21 and the actual expense is 5,197.27, this gives a negative difference of 479.06	The difference is due to payment processors' higher fees.		
1.15	Has the SAS presented the correct calculation of amounts for the actuals, forecast and difference?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yes.			
1.16	Has the SAS any budget category that seems inconsistent and needs further investigation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No.			
Audit Questions to Transparency Report - Section 2. Budget Forecast -									
2.1	Does the transparency report display the MIP40c3-SP43 caps for both total and budget categories?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yes.			
2.2	Are the monthly and quarterly budget caps (both totals and per category) the same as in the MIP40c3-SP43?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yes.			
2.3	Are the monthly forecast totals within the MIP40c3-SP43 monthly budget cap?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The IT infrastructure, is above the approved qly budget category cap.			
2.4	Is the quarterly forecast within the bounds of the MIP40c3-SP43 budget caps?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yes.			
2.5	Has the SAS presented the correct calculation of amounts in the budger forecast section?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yes.			
Audit Questions to Transparency Report - Section 3. MKR Vesting Overview -									
3.1	Has the SAS indicated the number of FTE in the transparency report's MKR vesting overview?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yes.			
3.2	Has the MKR vesting overview the same FTE comparing it to the MIP40c3-SP44?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yes.			
3.3	Are the MKR vesting dates the same as in the MIP40c3-SP44?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	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.
3.4	Has SAS changed the MKR amounts comparing it to the MIP40c3-SP44?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No.			
3.5	Has SAS explained the MKR change in the transparency report?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	This control can only be made if the above question is yes.			
3.6	Has the SAS auditor wallet received the vested MKR amount corresponding to the vesting date of June 21st, 2022?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Yes. SAS auditor wallet has received 243.7953 MKR on May 29th, 2022. <a href="https://etherscan.io/tx/0xd177ef10b9368ddf51f513feca973a5b55792010abfe97e3a811c6d4796e5603">https://etherscan.io/tx/0xd177ef10b9368ddf51f513feca973a5b55792010abfe97e3a811c6d4796e5603</a>	SAS should add to the transparency report a table with the specification of the MKR transfer amount and the Multi-sig address under transfer sections.		
Audit Questions to Transparency Report - Section 4. Transfers -									

