SOFTWARE TEST REPORT:

**GSWSA Inventory Project 1.01**

Approvals

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| Approved By: | Signature | Date |
| Nathan Tyler Marshall | NM | 11/24/2020 |
| Matt Kimball | MK | 11/24/2020 |
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| OVERVIEW |
| All test listed and evaluated yielded correct passing results. The only other evaluations needed will fall upon GSWSA authorized management/admins to dictate suitable hardware required to run the GSWSA Inventory database. |

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| SOFTWARE IDENTIFICATION | |
| Name | GSWSA Inventory database |
| Version | 1.01 |

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| DATES | |
| Test Start Date | 11/16/2020 |
| Test Complete Date | 11/24/2020 |
| Test Days – Duration | 8 |
| Test Days – Effort | 4 |

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| RESOURCES | |
| People | |
| Test Lead | Nathan Tyler Marshall |
| Test Analyst | Matthew Kimball |
| Development Lead | Nathan Tyler Marshall |
| Developer | Matthew Kimball |
| Business Analyst | Daniel Shabanoff |
| Environment | |
| Test Rigs | Intel i7 6-Core32Gb  RX 580 |
| Test PCs | Intel i7 6-Core32Gb  RX 580 |
| Test Server | Intel i7 6-Core32Gb  RX 580 |
| Production Server | Intel i7 6-Core32Gb  RX 580 |
| Etc. | N/A |
| References | |
| **Reference ID #1: SS/SSS GSWSA Inventory Project** | https://coastal54-my.sharepoint.com/:w:/r/personal/mkimball\_coastal\_edu/\_layouts/15/Doc.aspx?sourcedoc=%7BEFF486F8-A41D-47F4-9A07-0065A7CF520A%7D&file=SSSSS\_VanEck\_1.0.2.docx&wdOrigin=OFFICECOM-WEB.START.REC&ct=1606276244085&action=default&mobileredirect=true |
| Reference ID #2:  TP GSWSA Inventory Project | https://coastal54-my.sharepoint.com/:w:/r/personal/ntmarshal\_coastal\_edu/\_layouts/15/Doc.aspx?sourcedoc=%7BCAF0A596-6700-4AF0-8FF1-6B0A2F55D705%7D&file=GSWSA%20TP%20-%20van%20Eck.docx&wdOrigin=OFFICECOM-WEB.START.REC&ct=1606276294632&action=default&mobileredirect=true |

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| TESTING | |
| Methodology | |
| This section will review over all strategies being implemented to test the GSWSA Inventory Project. The GSWSA TP will be the master plan for the entire GSWSA Inventory Project and will use manual testing by using SQL server scripts to evaluate and test features by mocking the database and then performing the desired feature. The test is considered passing if it provides a correct “true” Boolean response following being executed. The GSWSA TP will be using product metrics to ensure the testing of the GSWSA Inventory Project properly evaluates the quality of the project, so to properly reassure the prowess of the new SQL Server database. The configuration of the testing stage of the GSWSA Inventory Project is set to be planned in the GSWSA TP, laid out in the GSWSA Test Descriptions, and reported in the GSWSA Reports. The configurations of the test committed are meant to only test the software produced such as features and database internals, as the authors of this project are not authorized to know the hardware that the software will be executed on. The GSWSA TP will regression test using test cases that have yielded bugs, core features, and recent database patches. The regression testing will be based on the severity of defects detected. Any element determined “unstable” or “do not make sense” will be processed by. Any test failed will be documented in the test reports log section and is expected to be addressed and patched in the time between failures. The GSWSA TP has few constraints due to manual testing being used these constraints are mostly time related due to each test needing to be completely hard-coded and non-automated and are also constrained due to lack of project members and close-ended deadlines set for December fourth, twenty-twenty. It is advised that when testing the GSWSA Inventory Project that each test is set to return a proper Boolean return statement to evaluate the proper result of the test. There will be no special testing requirements for the GSWSA Inventory Project. | |
| Tools | |
| Tool 1 | SQL Server Management Studio |
| Tool 2 | N/A |
| Tool 3 | N/A |
| Tool 4 | N/A |
| What Was Tested | |
| System capture reliability is 100% | This is rated high because the database must be able to capture all user data inputted. |
| System archiving will be 100% | This is rated high because it is crucial that no sensitive GSWSA information is compromised. |
| Support data analytics | This is rated medium because it is slightly important for users to see a formatted chart for GSWSA data. |
| GSWSA ability to modify user capabilities | This is rated high because it is crucial that system administrators of the GSWSA are able to revoke and administrate other users access to the GSWSA database. |
| Support for current Legacy reports | This is rated low because it is a feature solely meant to slowly transition older associates |
| GSWSA Select scripts | This is rated high because it is important that when a user or admin of the GSWSA requests certain information it is properly retrieved and displayed for the users perception. |
| What Was Not Tested | |
| GSWSA User interface | The reason for lack of testing for the user interface aspect of this project is due in part because the authors of this document have not been granted clearance to build such into the GSWSA Inventory Project. The user interface will be released with the full finalized project but will not be tested or covered in this document. Speak directly with Professor Paul Cerkez or GSWSA intern Robert Johnson for further insight. |
| GSWSA database capacity | The reason this feature is not actively being tested is largely in due part SQL server allows for above the capacity of the previous database and thus is considered low risk and provides little benefit to verify. |
| GSWSA hardware compatibility/stress test | The reason this item is not being tested is due to lack of knowledge provided for what the database will be executed on. As we have not been provided the strengths and weaknesses of said hardware. Speak directly with Professor Paul Cerkez or GSWSA intern Robert Johnson for further insight. |

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| ISSUES RAISED | |
| Issues Raised | None |
| Issues Closed | None |
| Issues Deferred to Future Releases | N/A |
| Issues Outstanding | None |
| N/A | |

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| Issues Outstanding | |
| ID | 0 |
| Severity | Low |
| Type | N/A |
| Summary | No issues outstanding |
| Workaround | N/A |
| Plan | N/A |
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| RECOMMENDATIONS | |
| Recommendation 1 | This software is suitable for release to the beta environment provided that the known outstanding issues and workarounds are approved by the project management team. |
| Recommendation 2 | N/A |