

Release Notes MDS v4.6.6

What's New

This release includes new features, improvements and maintenance fixes listed below. Some of them (*) have been delivered as hot fixes to various clients, as critical issues were determined or other products requirement.

Component	Description
tblAssayFlat	New columns LabCode/Batch_No/GenericMethod
tblAssayHyperspectral	New table
tblAssayHyperspectralFlat	New Table
tblAssayWaterFlat	New columns LabCode/Batch_No/GenericMethod
tblContractActivityLog	New CK_tblContractActivityLog_Project_Area_Site New CK_tblContractActivityLog_Contractor_MachineryID Updated FK_tblContractActivityLog_tblLIBContractActivityLogStatus_Activity_Signoff_Stat us with cascade on
tblContractActivityLogDetails	New FK_tblContractActivityLogDetails_tblSYSDataSet_DataSet
tblContractDetails	New CK_tblContractDetails_LabMethod_LabCode Updated FK_tblContractDetails_tblLIBContractItemCategory_Item_Category with cascade on Updated FK_tblContractDetails_tblSYSUnits_Unit with cascade on
tblDHCaliper	New TR_iudtblDHCaliper_Validated to prevent data modification (I/U/D) if parent table has Validated = 1
tblDHColl	New TR_utblDHColl_Rename to update tblStandardSamp.SourceID when DataSet/Hole_ID renamed Enhanced TR_utblDHColl_Max_Depth to only check DBO schema tables and include tblXRFDH* tables, fixed @Rowcount bug Enhanced TR_utblDHColl_Orig_Grid_Audit to audit on Validated value changes New column LL_Geometry/In_MRE Changed Date_Completed data type from datetime to date
tblDHCollHistory	New column Validated Updated FK_tblDHCollHistory_tblLIBSurveyMethod_Survey_Method with cascade on Updated FK_tblDHCollHistory_tblSYSSRSCoordinateSystem_Grid_ID with cascade on
tblDHCollPlanned	Added UPDATE CASCADE to FK_tblDHCollPlanned_tblLIBCompany_Plan_Survey_Company
tblDHCORERecoveryRun	New columns Priority/Degree_Of_Offset/Solid_Recovery_pct/Total_Core_Recovery_Interval/T otal_Core_Recovery_pct/Solid_Recovery_Interval TR_iutblDHCORERecoveryRun_RQDPct_RecoveryPct fixed wrong reference to Recovery_Interval for RQD_pct calculation and added option to use either Interval or Recover_Interval to calculate RQD_pct Changed PK to include Priority
tblDHCOREStorage	New TR_iutblDHCOREStorage_Validated_Date ensures the Validated_Date is not earlier than tblDHColl.Date_Started

tblDHCStorageDetails	New TR_iuttblDHCStorageDetails_ Validated_ Date ensures the Validated_ Date is not earlier than tblDHColl.Date_ Started
tblDHDDrillRigMetaData	New TR_iuttblDHDDrillRigMetaData_ Drill_ Date ensures the Drill_ Date is not earlier than tblDHColl.Date_ Started
tblDHGeophysics_DENS	Updated FK_tblDHGeophysics_DENS_tblDHGeophysicsHeader_DataSet_Hole_ID_Instrument_Priority with cascade on Updated FK_tblDHGeophysics_DENS_tblSYSUnits_SSD_UnitCode with cascade on
tblDHGeophysics_IP	Updated FK_tblDHGeophysics_IP_tblDHGeophysicsHeader_DataSet_Hole_ID_Instrument_Priority with cascade on Updated FK_tblDHGeophysics_IP_tblSYSUnits_VSP_UnitCode with cascade on
tblDHGeophysics_RES	Updated FK_tblDHGeophysics_RES_tblDHGeophysicsHeader_DataSet_Hole_ID_Instrument_Priority with cascade on Updated FK_tblDHGeophysics_RES_tblSYSUnits_RLLD_UnitCode with cascade on Updated FK_tblDHGeophysics_RES_tblSYSUnits_RLLS_UnitCode with cascade on
tblDHGeophysics_SGAMMASUS	Updated FK_tblDHGeophysics_SGAMMASUS_tblDHGeophysicsHeader_DataSet_Hole_ID_Instrument_Priority with cascade on Updated FK_tblDHGeophysics_SGAMMASUS_tblSYSUnits_NGAM_UnitCode with cascade on Updated FK_tblDHGeophysics_SGAMMASUS_tblSYSUnits_MSUS_UnitCode with cascade on
tblDHGeophysics_SP	Updated FK_tblDHGeophysics_SP_tblDHGeophysicsHeader_DataSet_Hole_ID_Instrument_Priority with cascade on Updated FK_tblDHGeophysics_SP_tblSYSUnits_SP_UnitCode with cascade on
tblDHGeophysicsHeader	New TR_iuttblDHGeophysicsHeader_LAS_Date_Read_Date ensures the LAS_Date/Read_Date is not earlier than tblDHColl.Date_ Started New CK_tblDHGeophysicsHeader_Depth_Started_Depth_Completed ensures Depth_Completed is not less than Depth_Started New CK_tblDHGeophysicsHeader_Read_Date ensures Read_Date not great than current New CK_tblDHGeophysicsHeader_LAS_Date ensures LAS_Date not great than current New CK_tblDHGeophysicsHeader_Contractor_Machinery ensures both Contractor and Machinery entered Changed Data_Source to NOT NULL Updated FK_tblDHGeophysicsHeader_tblLIBInstrument_Instrument with cascade on Updated FK_tblDHGeophysicsHeader_tblLIBMachinery_Contractor_Machinery with cascade on Updated FK_tblDHGeophysicsHeader_tblLIBPerson_Witness with cascade on
tblDHGeotech	New column Priority/Matrix_Type Change PK to include Priority

tblDHGeotechRMR	<p>New columns Priority/Alpha/Beta/Sub_Sampled/Total_Core_Recovery/Wall_Rock_Alt_Code/ Wall_Rock_Alt_Int/Matrix_Depth/Jr/MRMR_Rating/RMR_RQD_Rating/Fabric_Ty pe/Rock_Mass_Domain Updated computation formula for RQD_Deere_pct * New CK_tblDHGeotechRMR_Total_Core_Recovery_pct ensures value is not greater than 100 New CK_tblDHGeotechRMR_RQD_Deere_pct ensures value is not greater than 100 New FK_tblDHGeotechRMR_tblLIBStructSpacing_Structure_Spacing Updated TR_iutbDHGeotechRMR_UsingActiveLIBCode Change PK to include Priority</p>
tblDHGeotechRQD	<p>New columns Priority/Structure_Count Changed PK to include Priority</p>
tblDHGeotechLoadStrengthPT	New table
TblDHGeotechLoadStrengthB FA	New table
TblDHGeotechLoadStrengthS HJ	New table
TblDHGeotechLoadStrengthT CM	New table
TblDHGeotechLoadStrengthT CS	New table
TblDHGeotechLoadStrengthU CM	New table
TblDHGeotechLoadStrengthU CS	New table
tblDHGeotechLoadStrengthU TB	New table
tblDHIntercepts	InterceptDescription column length changed from 50 to 150
tblDHLithology	<p>Updated CK_tblDHLithology_Lith2_Code to also check on Lith_Texture/GrainSize instead of just Lith_Code Comments column length changed from 1000 to 3000</p>
tblDHMagSus	Updated TR_iutbDHMagSus_UsingActiveLIBCode to include Instrument_FactorCode
tblDHMagSusPT	Updated TR_iutbDHMagSusPT_UsingActiveLIBCode to include Instrument_FactorCode
tblDHMetaData	<p>New TR_iutbDHMetaData_Date_Completed ensures the Date_Completed is not earlier than tblDHColl.Date_Started New CK_tblDHMetaData_Drill_Contractor_Rig ensures both Drill_Contractor and Rig are entered</p>
tblDHMetSamp	<p>New TR_iutbDHMetSamp_Date_Analysed_Validated_Date ensures the Date_Analysed/Validated_Date is not earlier than tblDHColl.Date_Started New column Logged_Date/Logged_By Updated TR_iutbDHMetSamp_UsingActiveLIBCode</p>

tblLIBGeotRockStrengthFailureMode	New table
tblLIBGeotRockStrengthPostTestCondition	New table
tblLIBGeotRockSupport	New table
tblLIBGeotStrength	New table
tblLIBLithCode	Change Image column data type from image to varbinary(max)
tblLIBMachineryFactor	Removed Factor/Factor_Unit
tblLIBMachineryStatus	New column StatusCategory
tblLIBMachineryStatusCategory	New table
tblLIBMagSusFactor	New column Is_Active/Sort_Order
tblLIBMetamorphicGrade	New table
tblLIBProvenance	New table
tblLIBQCGradeRange *	Added default values for Au
tblLIBRegion	Changed Code column length from 10 to 25
tblLIBSampleTestType	New table
tblLIBShift	New column Time_Start/Time_End
tblLIBStructSpacing	New table
tblLIBSurveyReliability	New table
tblLSGeology	New CK_tblLSGeology_Alt1_Int_Style New CK_tblLSGeology_Alt2_Int_Style New CK_tblLSGeology_Min1_pct_Style New CK_tblLSGeology_Min2_pct_Style New CK_tblLSGeology_Lith2_Texture_Structure_etc
tblLSMagSus	Updated TR_iuttblLSMagSus_UsingActiveLIBCode to include Instrument_FactorCode
tblLSMapping	Updated FK_tblLSMapping_tblLSSite_DataSet_Site_ID_Line_ID with cascade on
tblLSMetaData	New TR_iuttblLSMetaData_Date_Completed ensures the Date_Completed is not earlier than tblLSSite.Date_Started New CK_tblLSMetaData_Machinery_Contractor_MachineryID
tblLSMetSamp	New TR_iuttblLSMetSamp_Date_Analysed_Validated_Date ensures the Date_Analysed/Validated_Date is not earlier than tblLSSite.Date_Started Updated TR_iudtblLSMetSamp_Validated with validation against the Validated column in the table on update as well New column Logged_Date/Logged_By New FK_tblLSMetSamp_tblLIBPerson_Logged_By Updated TR_iuttblDHSampWaterQC_UsingActiveLIBCode
tblLSMetSampQC	New TR_iuttblLSMetSampQC_Validated_Date ensures the Validated_Date is not earlier than tblLSSite.Date_Started Updated TR_iudtblLSMetSampQC_Validated with validation against the Validated column in the table on update as well New column Logged_Date/Logged_By New FK_tblLSMetSampQC_tblLIBPerson_Logged_By Updated TR_iuttblLSMetSampQC_UsingActiveLIBCode

tblLSPetrology	New table
tblLSSamp	New column Logged_Date/Logged_By New FK_tblLSSamp_tblLIBPerson_Logged_By Updated TR_iutblLSSamp_UsingActiveLIBCode
tblLSSampBulk	New TR_iudtblLSSampBulk_Validated to prevent data modification (I/U/D) if parent table has Validated = 1 Updated FK_tblLSSampBulk_tblLIBDMSizeFraction_Size_Fraction with cascade on Updated FK_tblLSSampBulk_tblLIBPerson_Sampled_By with cascade on Updated FK_tblLSSampBulk_tblLIBSampleCondition_Sample_Condition with cascade on Updated FK_tblLSSampBulk_tblLIBSampleMethod_Sample_Method with cascade on Updated FK_tblLSSampBulk_tblSYSDataSet_DataSet with cascade on
tblLSSampQC	New column Logged_Date/Logged_By New FK_tblLSSampQC_tblLIBPerson_Logged_By Updated TR_iutblLSSampQC_UsingActiveLIBCode
tblLSSampWater	New column Logged_Date/Logged_By New FK_tblLSSampWater_tblLIBPerson_Logged_By Updated TR_iutblLSSampWater_UsingActiveLIBCode
tblLSSampWaterQC	New column Logged_Date/Logged_By New FK_tblLSSampWaterQC_tblLIBPerson_Logged_By Updated TR_iutblLSSampWaterQC_UsingActiveLIBCode
tblLSSite	New TR_utblLSSite_Rename to update tblStandardSamp.SourceID/Secondary_Source_ID when DataSet/Site_ID/Line_ID renamed New column LL_Geometry
tblLSWater	Updated TR_utblLSWater to reflect PK columns
tblIPetrology	Removed table
tblIPTGeology	New CK_tblIPTGeology_Alt_Int_Style New CK_tblIPTGeology_Min_pct_Style New CK_tblIPTGeology_Vein_Style_pct New CK_tblIPTGeology_Lith_Texture_Structure_etc
tblIPTMagSus	Updated TR_iutblIPTMagSus_UsingActiveLIBCode to include Instrument_FactorCode
tblIPTMetSamp	Updated TR_iudtblIPTMetSamp_Validated with validation against the Validated column in the table on update as well New column Logged_Date/Logged_By New FK_tblIPTMetSamp_tblLIBPerson_Logged_By Updated TR_iutblIPTMetSamp_UsingActiveLIBCode
tblIPTMetSampQC	Updated TR_iudtblIPTMetSampQC_Validated with validation against the Validated column in the table on update as well New column Logged_Date/Logged_By New FK_tblIPTMetSampQC_tblLIBPerson_Logged_By Updated TR_iutblIPTMetSampQC_UsingActiveLIBCode
tblIPTPetrology	New table

tblPTSamp	<p>New column Logged_Date/Logged_By</p> <p>New FK_tblPTSamp_tblLIBPerson_Logged_By</p> <p>Updated TR_iutblPTSamp_UsingActiveLIBCode</p> <p>Updated FK_tblPTSamp_tblGeophysAnomaly_DataSet_AnomalyID with cascade on</p> <p>Updated FK_tblPTSamp_tblLIBDMDAnalysisMethod_Analysis_Method with cascade on</p>
tblPTSampQC	<p>New column Logged_Date/Logged_By</p> <p>New FK_tblPTSampQC_tblLIBPerson_Logged_By</p> <p>Updated TR_iutblPTSampQC_UsingActiveLIBCode</p>
tblPTSampWater	<p>New column Logged_Date/Logged_By</p> <p>New FK_tblPTSampWater_tblLIBPerson_Logged_By</p> <p>Updated TR_iutblPTSampWater_UsingActiveLIBCode</p>
tblPTSampWaterQC	<p>New column Logged_Date/Logged_By</p> <p>New FK_tblPTSampWaterQC_tblLIBPerson_Logged_By</p> <p>Updated TR_iutblPTSampWaterQC_UsingActiveLIBCode</p>
tblPTSite	<p>New TR_utblPTSite_Rename to update tblStandardSamp.SourceID when DataSet/Site_ID renamed</p> <p>New column Historic_Site_ID</p> <p>New column LL_Geometry</p> <p>New TR_utblPTSite_Site_Depth checks PT tables to ensure that their depth is not below the Site_Depth</p>
tblPTWater	Updated TR_utblPTWater to reflect PK columns
tblStandardSamp	<p>New column Logged_Date/Logged_By</p> <p>New FK_tblStandardSamp_tblLIBPerson_Logged_By</p> <p>Updated TR_iutblStandardSamp_UsingActiveLIBCode</p>
tblStandardSampQC	<p>New column Logged_Date/Logged_By</p> <p>New FK_tblStandardSampQC_tblLIBPerson_Logged_By</p> <p>Updated TR_iutblStandardSampQC_UsingActiveLIBCode</p>
tblSYSAssBatch	<p>Updated</p> <p>CK_tblSYSAssBatch_Lab_Job_Date/CK_tblSYSAssBatch_Lab_Received_Date logic to only valid if [Lab_Prelim_Date] or [Lab_Received_Date] present</p> <p>Changed Lab_Received_Date/Lab_Prelim_Date/Lab_Job_Date/Dispatched_Date data type from datetime to datetime</p>
tblSYSAssDispatchHeader	Changed Dispatched_Date data type from datetime to date
tblSYSAssElement	Updated TR_utblSYSAssElement_SystemUnits logic to recalculate sysResult, also enhanced to handle all related assay tables configured in tblSYSConfigRelation not just tblAssay
tblSYSAutoAssayAlertSettings	Added column description
tblSYSAutoAssayAttachments	<p>Added column description</p> <p>Updated FK_tblSYSAutoAssayAttachments_tblSYSAutoAssayEmails with cascade on</p>
tblSYSAutoAssayConfigurations	Added column description

tblSYSAutoAssayDirectorySettings	Added column description Updated FK_tblSYSAutoAssayDirectorySettings_tblLIBAutoAssayActionTypes with cascade on
tblSYSAutoAssayEmails	Added column description
tblSYSAutoAssayImportRules	Added column description Updated FK_tblSYSAutoAssayImportRules_tblLIBAutoAssayActionTypes with cascade on Updated FK_tblSYSAutoAssayImportRules_tblLIBAutoAssayImportRuleTypes with cascade on Updated FK_tblSYSAutoAssayImportRules_tblLIBAutoAssayQAQCType with cascade on
tblSYSConversionFactor	Updated conversion factor for MOLAR type New TR_iutblSYSConversionFactor_CodeFrom_CodeTo to ensure valid unit code used
tblSYSDHAuditConfig	New table used by DH Audit SP
tblSYSDSConfig *	New column ImagoAccess/ImagoParam
tblSYSFilter	Updated FK_tblSYSFilter_tblSYSFilterType with cascade on
tblSYSFilterType *	Updated config value for DownHole for DS5
tblSYSMapFilter	Updated FK_tblSYSMapFilter_tblSYSFilterType_FilterTypeID with cascade on
tblSYSNormAttribute	Added configuration for GenericMethod/LabCode/Batch_No
tblSYSNormAttributeDef	Added configuration for GenericMethod/LabCode/Batch_No
tblSYSParam	Renamed paramter AssayMergeReslutPreferredValue to AssayMergeResultPreferredValue New paramter StructOrient_AzimuthField/ RQDPct_UseRecoveryInterval
tblSYSProject	Change State column length from 10 to 25
tblSYSQCConfig	Updated TR_utblSYSQCConfig_CreatedBy_Created to filter on Modified_Date/By to prevent dead loop caused by TR_utblSYSQCConfig
tblSYSQCReference	Changed Is_Active default from 0 to 1
tblSYSQCReferenceType	Added new codes
tblSYSQCSampleEvents	Changed SampleID length from 30 to 50
tblSYSReportData	Updated FK_tblSYSReportData_tblLIBReportingType_Report_Type with cascade on
tblSYSReportDetail	Updated FK_tblSYSReportDetail_tblLIBReportingType_Reporting_Type with cascade on Updated FK_tblSYSReportDetail_tblSYSReportSection_Report_ID_Section_ID with cascade on
tblSYSSRSDatum	Changed ScaleCorrection to not null with default 0
tblSYSSRSEllipsoid	Changed SemiMajorAxis to not null with default 0
tblSYSSRSProjection	Changed ScaleFactor to not null with default 0 New CK_tblSYSSRSProjection_CentralMeridian New CK_tblSYSSRSProjection_OriginalLatitude New CK_tblSYSSRSProjection_FirstStandard New CK_tblSYSSRSProjection_SecondStandard
tblSYSUnits	Added new code SI/CGS/MKS/MS/CM
tblSYSUnitType	Added new code MagSus

tblSYSXRFIncomingLabStandards *	New column LabCode to filter IncomingDataDriver target data
tblVWDHAssays	Improved performance by using new ranking config for GenericMethod/Batch_No
tblVWDHAssaysElements *	New view for DS5
tblVWDHAssaysQC	Improved performance by using new ranking config for GenericMethod/Batch_No
tblVWDHAssaysWater	Improved performance by using new ranking config for GenericMethod/Batch_No
tblVWDHAssaysWaterQC	Improved performance by using new ranking config for GenericMethod/Batch_No
tblVWDHAuditView	Update view to remove ORDER BY
tblVWDHCollarAttributes	Modified view to handle both split/combined geology system
tblVWDHGeotechRMR_Calc	Reflect PK change
tblVWDHGeotechRMRLoggin g	Reflect PK change
tblVWDHLithology *	New view for DS5
tblVWLSAssays	Improved performance by using new ranking config for GenericMethod/Batch_No
tblVWLSAssaysQC	Improved performance by using new ranking config for GenericMethod/Batch_No
tblVWLSAssaysWater	Improved performance by using new ranking config for GenericMethod/Batch_No
tblVWLSAssaysWaterQC	Improved performance by using new ranking config for GenericMethod/Batch_No
tblVWPTAssays	Improved performance by using new ranking config for GenericMethod/Batch_No
tblVWPTAssaysWater	Improved performance by using new ranking config for GenericMethod/Batch_No
tblVWReportScreenTest *	New view for DS5
tblVWSampleDispatchReport	Updated logic to use DATEDIFF to calculate date difference after columns data type changed from datetime to date
tblVWStandardAssays	Improved performance by using new ranking config for GenericMethod/Batch_No
tblVWStandardAssaysQC	Improved performance by using new ranking config for GenericMethod/Batch_No
tblVWStandardAssaysWater	Improved performance by using new ranking config for GenericMethod/Batch_No
tblVWStandardAssaysWaterQC	Improved performance by using new ranking config for GenericMethod/Batch_No
tblVWXRFResultsQC	New view
tblVWXRFResultsQC	New View
tblVWXRFResultsStandard	New View
tblVWXRFResultsStandardQC	New View

tblXRFDHGeology	<p>New CK_tblXRFDHGeology_Depth_From_Depth_To</p> <p>Changed default for Load_Date from getdate() to sysdatetimeoffset()</p> <p>New TR_iutblXRFDHGeology_Valid_Intervals to ensure sample depth not greater than maxdepth of hole</p> <p>New TR_iutblXRFDHGeology_Interval_Overlap prevent overlap interval</p> <p>New TR_iutblXRFDHGeology_Depth_From_Depth_To prevent mixture of interval and depth data</p>
tblXRFDHSamp	<p>New column Logged_Date/Logged_By</p> <p>New FK_tblXRFDHSamp_tblLIBPerson_Logged_By</p> <p>Updated TR_iutblXRFDHSamp_UsingActiveLIBCode</p>
tblXRFDHSampQC	<p>New column Logged_Date/Logged_By</p> <p>New FK_tblXRFDHSampQC_tblLIBPerson_Logged_By</p> <p>Updated TR_iutblXRFDHSampQC_UsingActiveLIBCode</p>
tblXRFGeology	<p>Changed default for Load_Date from getdate() to sysdatetimeoffset()</p>
tblXRFSamp	<p>Removed redundant FK_tblXRFSamp_tblSYSDataSet_DataSet</p> <p>Added column description</p> <p>New column Logged_Date/Logged_By</p> <p>New FK_tblXRFSamp_tblLIBPerson_Logged_By</p> <p>Updated TR_iutblXRFSamp_UsingActiveLIBCode</p>
tblXRFSampQC	<p>Removed redundant FK_tblXRFSampQC_tblSYSDataSet_DataSet</p> <p>Added column description</p> <p>New column Logged_Date/Logged_By</p> <p>New FK_tblXRFSampQC_tblLIBPerson_Logged_By</p> <p>Updated TR_iutblXRFSampQC_UsingActiveLIBCode</p> <p>Updated FK_tblXRFSampQC_tblIPTSite_DataSet_Site_ID with cascade on</p>
tblXRFStandardSamp	<p>New column</p> <p>Source_ID/Secondary_Source_ID/Source_Type/Logged_Date/Logged_By</p> <p>New FK_tblXRFStandardSamp_tblLIBStandardSampSourceType_Source_Type</p> <p>New FK_tblXRFStandardSamp_tblLIBPerson_Logged_By</p> <p>New TR_iutblXRFStandardSamp_Source_ID to check the integrity of Source_ID/Secondary_Source_ID/Source_Type</p> <p>Updated TR_iutblXRFStandardSamp_UsingActiveLIBCode</p>
tblXRFStandardSampQC	<p>New column Logged_Date/Logged_By</p> <p>New FK_tblXRFStandardSamp_tblLIBPerson_Logged_By</p> <p>Updated TR_iutblXRFStandardSampQC_UsingActiveLIBCode</p>
usp_AdminBatchDelete	<p>Fixed issue with delete standard sample</p>
usp_AdminDataDictionary	<p>Fixed col_lgth value</p>
usp_AdminGetRowsForAllTables	<p>Enhanced logic to return accurate data for some special cases</p>
usp_DataAssayMergingProcesses	<p>Reflect tblSYSParam.AssayMergeResultPreferredValue renamed to AssayMergeResultPreferredValue</p> <p>Updated exception comments for NoSampleMatch</p>

usp_DataAssayQCRuleChecker *	Enhanced logic to allow partial merge when no QC rule setup
usp_DataDrillHoleAudit	New SP can be used to replace the drill hole audit extension
usp_DataStructOrientDriver	Introduced tblSYSParam.StructOrient_AzimuthField so client can set the Azimuth field as appropriate
usp_DataXRFResultsMergingProcess	Fixed syntax error * For XRF data, only calculate sysResults for BDL if LimitLower is NOT NULL Set Batch_Status to QC_NA after successful merge
usp_GridTransformation	Added @ExcludeValidated to exclude transform validated records.
usp_ProcessCombineMultipleTableColumns	Output more meaningful error messages Removed @MergeTableName parameter to process all configured tables. For any table don't want to run against, just set Is_Active to 0
usp_ProcessIncomingDataDriver	Enhanced logic to handle StandardSamp/QC table, in case where client might add Hole_ID into StandardSamp table Ignore config with no QC table mapped instead of error out. * Updated error message Enhanced logic to avoid need to run the driver twice
usp_ProcessLabChecksIncomingData	Enhanced logic to avoid need to run the driver twice
usp_ProcessStandardsIncomingData *	Enhanced logic to handle StandardSamp/QC table, in case where client might add Hole_ID into StandardSamp table Enhanced logic to avoid need to run the driver twice
usp_ProcessXRFLabChecksIncomingData *	Fixed syntax error
usp_ProcessXRFStandardsIncomingData *	Fixed syntax error
uspIC_InterceptCalculator	Enhanced logic to take into account missing/overlap interval when calculating weighted average grade. Missing interval will have 0 grade for averaging calc.
usp_RptDHLoggingStats *	New SP for DS5 2.3.1
usp_RptDrillHoleandSampleTypeSummaryByDataSet *	New SP for DS5 2.3.1
usp_RptDrillHoleandSampleTypeSummaryTotal *	New SP for DS5 2.3.1
usp_RptDrillLogTableData *	New SP for DS5 2.3.1
usp_RptMaximumDownholeAssayValues *	New SP for DS5 2.3.1
usp_RptMaximumDownholeAssayValuesCt *	New SP for DS5 2.3.1
usp_RptMaximumDownholeAssayValuesTenement *	New SP for DS5 2.3.1
usp_RptQAQC_GradeRangeMeanStDevMinMax *	New SP for DS5 2.3.1

usp_RptQAQC_GradeRangeQuartile *	New SP for DS5 2.3.1
usp_RptQAQC_HorwitzTrumpetAverageSTD *	New SP for DS5 2.3.1
usp_RptQAQC_HorwitzTrumpetBadRepeats *	New SP for DS5 2.3.1
usp_RptQAQC_HorwitzTrumpetChart *	New SP for DS5 2.3.1
usp_RptQAQC_HorwitzTrumpetGroup *	New SP for DS5 2.3.1
usp_RptQAQC_HorwitzTrumpetSummary *	New SP for DS5 2.3.1
usp_RptQAQC_LabTurnaround_Chart *	New SP for DS5 2.3.1
usp_RptQAQC_LabTurnaround_MonthAvg *	New SP for DS5 2.3.1
usp_RptQAQC_LabTurnaround_OverallAvg *	New SP for DS5 2.3.1
usp_RptQAQC_MonthlyQPIot_BadRepeats *	New SP for DS5 2.3.1
usp_RptQAQC_MonthlyQPIot_Grouping *	New SP for DS5 2.3.1
usp_RptQAQC_MonthlyQPIotChart *	New SP for DS5 2.3.1
usp_RptQAQC_MonthlyQPIotSummary *	New SP for DS5 2.3.1
usp_RptQAQC_MonthlyReport *	New SP for DS5 2.3.1
usp_RptQAQC_MonthlyReport_BadStandards *	New SP for DS5 2.3.1
usp_RptQAQC_MonthlyReport_BatchSummary *	New SP for DS5 2.3.1
usp_RptQAQC_MonthlyReport_Blank *	New SP for DS5 2.3.1
usp_RptQAQC_MonthlyReport_CRMStandards *	New SP for DS5 2.3.1
usp_RptQAQC_MonthlyReport_CrushChecks *	New SP for DS5 2.3.1
usp_RptQAQC_MonthlyReport_Flushes *	New SP for DS5 2.3.1
usp_RptQAQC_MonthlyReport_MultiStandardControlCharts *	New SP for DS5 2.3.1
usp_RptQAQC_MonthlyReport_Repeatability *	New SP for DS5 2.3.1

usp_RptQAQC_MonthlyReport_SingleStandardControl *	New SP for DS5 2.3.1
usp_RptQAQC_MonthlyReport_SingleStandardControlCharts *	New SP for DS5 2.3.1
usp_RptQAQC_MonthlyReport_SingleStandardStdPlotControlCharts *	New SP for DS5 2.3.1
usp_RptQAQC_MonthlyReport_StandardsSubmittedSummary *	New SP for DS5 2.3.1
usp_RptQAQC_MonthlyScatterPlot_BadRpts *	New SP for DS5 2.3.1
usp_RptQAQC_MonthlyScatterPlotChart *	New SP for DS5 2.3.1
usp_RptQAQC_MonthlyScatterPlotGrouping *	New SP for DS5 2.3.1
usp_RptQAQC_MonthlyScatterPlotSummary *	New SP for DS5 2.3.1
usp_RptQAQC_ScatterPlot_GetCharts *	New SP for DS5 2.3.1
usp_RptQAQC_ScreenTest *	New SP for DS5 2.3.1
usp_RptQAQC_ScreenTest_Chart *	New SP for DS5 2.3.1
usp_RptQAQC_ScreenTest_Summary *	New SP for DS5 2.3.1
usp_RptStripLog *	New SP for DS5 2.3.1
usp_RptStripLogHeader *	New SP for DS5 2.3.1
utf_RptQAQC_GradeRange *	New SP for DS5 2.3.1
utf_RptQAQC_LabTurnaround *	New SP for DS5 2.3.1

Following are new features, improvements, and maintenance fixes for Production model objects:

Component	Description
tblLIBMachineryFactor	New table
tblLIBProdDevelopmentStatus	New table
tblFSGeology	New CK_tblFSGeology_Alt1_Int_Style New CK_tblFSGeology_Alt2_Int_Style New CK_tblFSGeology_Min1_pct_Style New CK_tblFSGeology_Min2_pct_Style New CK_tblFSGeology_Lith2_Texture_Structure_etc New TR_iutblFSGeology_Depth_From_Depth_To ensures no mixture of interval and depth data
tblFSMagSus	Updated TR_iutblFSMagSus_UsingActiveLIBCode New TR_iutblFSMagSus_Depth_From_Depth_To ensures no mixture of interval and depth data

tblFSMapping	<p>New CK_tblFSMapping_Depth_From_Depth_To New TR_iutblFSMapping_Depth_From_Depth_To ensures no mixture of interval and depth data</p>
tblFSMetaData	<p>New TR_iutblFSMetaData_Date_Completed ensures the Date_Completed is not earlier than tblFSSite.Date_Started New TR_iutblFSMetaData_Depth_From_Depth_To ensures no mixture of interval and depth data New CK_tblFSMetaData_Machinery_Contractor_MachineryID</p>
tblFSMetSamp	<p>New TR_iutblFSMetSamp_Date_Analysed_Validated_Date ensures the Date_Analysed/Validated_Date is not earlier than tblFSSite.Date_Started Updated TR_iudtblFSMetSamp_Validated validation against the Validated column in the table on update as well New column Logged_Date/Logged_By New FK_tblFSMetSamp_tblLIBPerson_Logged_By Updated TR_iutblFSMetSamp_UsingActiveLIBCode New TR_iutblFSMetSamp_Depth_From_Depth_To ensures no mixture of interval and depth data</p>
tblFSMetSampQC	<p>New TR_iutblFSMetSampQC_Validated_Date ensures the Validated_Date is not earlier than tblFSSite.Date_Started Updated TR_iudtblFSMetSampQC_Validated validation against the Validated column in the table on update as well New column Logged_Date/Logged_By New FK_tblFSMetSampQC_tblLIBPerson_Logged_By Updated TR_iutblFSMetSampQC_UsingActiveLIBCode New TR_iutblFSMetSampQC_Depth_From_Depth_To ensures no mixture of interval and depth data</p>
tblFSPetrology	New table
tblFSSamp	<p>New column Logged_Date/Logged_By New FK_tblFSSamp_tblLIBPerson_Logged_By Updated TR_iutblFSSamp_UsingActiveLIBCode New TR_iutblFSSamp_Depth_From_Depth_To ensures no mixture of interval and depth data New column Face_Composite</p>
tblFSSampQC	<p>New column Logged_Date/Logged_By New FK_tblFSSampQC_tblLIBPerson_Logged_By Updated TR_iutblFSSampQC_UsingActiveLIBCode New TR_iutblFSSampQC_Depth_From_Depth_To ensures no mixture of interval and depth data</p>
tblFSSampWater	<p>New CK_tblFSSampWater_Depth_From_Depth_To New column Logged_Date/Logged_By New FK_tblFSSampWater_tblLIBPerson_Logged_By Updated TR_iutblFSSampWater_UsingActiveLIBCode</p>
tblFSSampWaterQC	<p>New CK_tblFSSampWaterQC_Depth_From_Depth_To New column Logged_Date/Logged_By New FK_tblFSSampWaterQC_tblLIBPerson_Logged_By Updated TR_iutblFSSampWaterQC_UsingActiveLIBCode</p>

tblFSSite	New TR_utblFSSite_Rename to update tblStandardSamp.SourceID/Secondary_Source_ID when DataSet/Site_ID/Line_ID renamed Updated TR_iutblFSSite_UsingActiveLIBCode to include Face_Type New column LL_Geometry
tblFSWater	Updated TR_utblFSWater to reflect PK columns
tblLIBFaceType	New column Is_Active
tblLIBMachineryFactor	New table
tblLIBProdActivityStatus	New table
tblLIBProdCrew	New table
tblProdActivity	New table
tblProdBlasting	Removed BlockID New columns ShiftDateCode/ Blast_Cut_Advance/ Blast_Cut_UnitCode/ Blast_Operator/ ReEntry_By/LG_SD
tblProdBlastingBlock	New table
tblProdBlastingBlockSurvey	New table
tblProdBlastingSurvey	New table
tblProdBlock	New trigger TR_iudtblProdBlock_BlockID
tblProdDailyTrucking	Merged into tblProdMaterialMovement
tblProdDailyUGDevelopment	Removed table
tblProdEOMAdjustedActuals	Removed table
tblProdEOMCommoditiesDetails	Removed table
tblProdEOMCommodities	Removed table
tblProdEOMCommoditiesPrice	Removed table
tblProdEOMActualsStockpiles	Renamed table to tblProdSurvey Renamed LocationID to Site_ID Change Surveyed_Tonnes to allow null Changed Surveyed_Volume to not null New column Shift/SiftDateCode/LG_sD Changed PK
tblProdEOMActualsStockpilesCommodity	Renamed table to tblProdSurveyCommodity New column ShiftDateCode/LG_SD
tblProdEquipmentUtilisation	New table
tblProdLocations	New columns Material_Type/Is_Active Updated FK_tblProdLocations_Material_Type with cascade on
tblProdLocationsCommodity	New column Commodity_Grade_Category
tblProdMaterialMovement	Renamed Movement_Code to Reporting_Type Renamed LocationID_From to Prod_SourceID Renamed LocationID_To to Prod_DestinationID New columns Time_Loaded/ Time_Dumped/ Spotter_Name/ Weightometer_Reading/ Weightometer_Name/ Contractor_Movement_Value/ Contractor_Movement_Unit/ ShiftDateCode/LG_sD Changed Movement_Value/Movement_SG to allow null Removed columns Movement_Grade/Movement_Grade_Unit

	Changed PK
tblProdReporting	Removed table
tblProdSamp	New column Logged_Date/Logged_By/LG_sD New FK_tblProdSamp_tblLIBPerson_Logged_By Updated TR_iutblProdSamp_UsingActiveLIBCode Renamed LocationID to Site_ID Added ShiftDateCode
tblProdSampQC	New column Logged_Date/Logged_By/LG_sD New FK_tblProdSampQC_tblLIBPerson_Logged_By Updated TR_iutblProdSampQC_UsingActiveLIBCode Renamed LocationID to Site_ID New columns Shift/ShiftDateCode
tblProdShiftRegister	New table
tblProdSiteAssay	New table
tblProdSiteRegister	New table
tblVWFSAssays	Improved performance by using new ranking config for GenericMethod/Batch_No
tblVWFSAssaysQC	Improved performance by using new ranking config for GenericMethod/Batch_No
tblVWFSAssaysWater	Improved performance by using new ranking config for GenericMethod/Batch_No
tblVWFSAssaysWaterQC	Improved performance by using new ranking config for GenericMethod/Batch_No
tblVWProdAssays	Improved performance by using new ranking config for GenericMethod/Batch_No
tblVWProdAssaysQC	Improved performance by using new ranking config for GenericMethod/Batch_No
tblVWProdDailyMaterial_From	Updated view to reflect table structure changed
tblVWProdDailyMaterial_To	Updated view to reflect table structure changed
tblVWProdDailyMovement	Updated view to reflect table structure changed
tblVWProdEOMActualsStockpilesMerged	Updated view to reflect table structure changed
tblVWProdEquipmentUtilisation	New view
tblVWProdLocationBalanceVolume	Updated view to reflect table structure changed
tblVWProdLocationTrucking	Updated view to reflect table structure changed
tblVWProdMaterialMovement	Updated view to reflect table structure changed
tblVWProdMovementBalConditioned	Updated view to removed ORDER BY
tblVWProdReconTrucktoResource	Updated view to reflect table structure changed
tblVWProdSamp	Updated view to reflect table structure changed
tblVWProdStockpileBal_EOMDate	Updated view to reflect table structure changed
tblVWProdStockpileBalMeasured	Updated view to reflect table structure changed
tblVWProdTruckingCalculated	Updated view to reflect table structure changed
tblVWProdTruckingClaimed	Updated view to reflect table structure changed
tblVWProdTruckingMonthly	Updated view to removed ORDER BY
tblVWProdTruckingRpt	Updated view to removed ORDER BY

usp_ProdLocationBalanceReportingTroubleshooter	New logic to reflect table structure change
usp_PopulateProdLocationBalance	New logic to reflect table structure change and move away from CLR
usp_PopulateProdSiteAssay	New SP to work out Prod sample assays to be used by material movements

Following are new features, improvements, and maintenance fixes for Diamond model objects:

Component	Description
tblDHCaliper	Changed Data_Source column length from 100 to 255
tblDHGeologyInterpLog	Changed Data_Source column length from 100 to 255
tblDHGeologySubUnits	Changed Data_Source column length from 100 to 255 Updated FK_tblDHGeologySubUnits_tblLIBLithGrainPacking_Grain_Packing with cascade on
tblDHGroundmass	Changed Data_Source column length from 100 to 255
tblDHKimberlite	Changed Data_Source column length from 100 to 255 Updated FK_tblDHKimberlite_tblLIBLithContrast_Cognitive_Olivine_Grain_Contrast with cascade on Updated FK_tblDHKimberlite_tblLIBLithGrainsize_Cognitive_Olivine_GrainSize with cascade on
tblDHMinerals	Changed Data_Source column length from 100 to 255
tblDHSamp	Updated FK_tblDHSamp_tblLIBDMDAnalysisMethod_Analysis_Method with cascade on
tblDMDBackGroundMineral	Updated FK_tblDMDBackGroundMineral_tblLIBDMDMineralAbundance_Abundance with cascade on Updated FK_tblDMDBackGroundMineral_tblLIBDMDMinerals_Mineral with cascade on
tblDMDDiamond	Updated FK_tblDMDDiamond_tblLIBDMDDiamondClarity_Clarity with cascade on Updated FK_tblDMDDiamond_tblLIBDMDDiamondColour_Colour with cascade on Updated FK_tblDMDDiamond_tblLIBDMDDiamondEdges_Edges with cascade on Updated FK_tblDMDDiamond_tblLIBDMDDiamondForm_Diamond_Form with cascade on Updated FK_tblDMDDiamond_tblLIBDMDDiamondFrosting_Frosting with cascade on Updated FK_tblDMDDiamond_tblLIBDMDDiamondInclusions_Inclusions with cascade on Updated FK_tblDMDDiamond_tblLIBDMDDiamondType_Type with cascade on Updated FK_tblDMDDiamond_tblLIBDMDDiamondSizeFraction_Size_Fraction with cascade on
tblDMDDiamondRecovery	Updated FK_tblDMDDiamondRecovery_tblLIBDMDSeries_Series with cascade on Updated FK_tblDMDDiamondRecovery_tblLIBDMDDiamondSizeFraction_Size_Fraction with cascade on

tblDMDIndicator	Updated FK_tblDMDIndicator_tblLIBDMDIndicatorAmount_Count_Or_Estimate with cascade on Updated FK_tblDMDIndicator_tblLIBDMDMinerals_Indicator_Code with cascade on Updated FK_tblDMDIndicator_tblLIBDMDSizeFraction_Size_Fraction with cascade on
tblDMDIndicatorDesc	Updated FK_tblDMDIndicatorDesc_tblLIBDMDIndicatorDesc_Desc_Code with cascade on
tblDMDMineralGrain	Updated FK_tblDMDMineralGrain_tblLIBDMDMinerals_Mineral_As_Observed with cascade on Updated FK_tblDMDMineralGrain_tblLIBDMDProbeClassification_Classification with cascade on Updated FK_tblDMDMineralGrain_tblLIBDMDProbeMethod_LabMethod with cascade on Updated FK_tblDMDMineralGrain_tblLIBDMDSizeFraction_Size_Fraction with cascade on Updated FK_tblDMDMineralGrain_tblSYSASSLab_LabCode with cascade on
tblDMDMineralGrainChemistry	Updated FK_tblDMDMineralGrainChemistry_tblLIBDMDAnalysisPosition_Analysis_Position with cascade on Updated FK_tblDMDMineralGrainChemistry_tblLIBDMDAnalyte_Analyte with cascade on Updated FK_tblDMDMineralGrainChemistry_tblLIBDMDProbeResultCategory_Result_Category with cascade on Updated FK_tblDMDMineralGrainChemistry_tblSYSUnits_UnitCode with cascade on
tblDMDSamp	Updated FK_tblDMDSamp_tblSampleRegister_DataSet_SampleID with cascade on Updated FK_tblDMDSamp_tblSYSASSLab_LabCode with cascade on Updated FK_tblDMDSamp_tblSYSUnits_Weight_Received_UnitCode with cascade on
tblDMDSampObservationWeights	Updated FK_tblDMDSampObservationWeights_tblLIBDMDSizeFraction_Size_Fraction with cascade on
tblDMDSampProcessing	Updated FK_tblDMDSampProcessing_tblDMDSamp_DataSet_SampleID with cascade on Updated FK_tblDMDSampProcessing_tblLIBDMDProcesses_Parent_Process with cascade on Updated FK_tblDMDSampProcessing_tblLIBDMDProcessFraction_Process_Fraction with cascade on
tblGeophysAnomaly	Updated FK_tblGeophysAnomaly_tblGeophysSurvey_Survey_ID with cascade on
tblGeophysSurvey	Updated FK_tblGeophysSurvey_tblLIBGeophysSurveyMethod_Survey_Method with cascade on Updated FK_tblGeophysSurvey_tblLIBInstrument_Instrument with cascade on
tblLIBDominCode	Removed table as it's duplicated with tblLIBDomainCode

Following are new features, improvements, and maintenance fixes for Coal model objects:

Component	Description
tblDHBulkFractionProximates	Updated FK_tblDHBulkFractionProximates_tblIDHColl_DataSet_Hole_ID with cascade on
tblIDHColl	New column Local_Grid_ID/Local_East/Local_North/Local_RL/Local_Survey_Method/Local_Survey_Date/Local_Survey_By/Local_Survey_Company Updated FK_tblIDHColl_tblLIBHolePurpose_Hole_Purpose with cascade on
tblIDHCompositeAshAnalyses	Updated FK_tblIDHCompositeAshAnalyses_tblIDHColl_DataSet_Hole_ID with cascade on
tblIDHCompositeAshFusion	Updated FK_tblIDHCompositeAshFusion_tblIDHColl_DataSet_Hole_ID with cascade on
tblIDHCompositeDilPlastGrind	Updated FK_tblIDHCompositeDilPlastGrind_tblIDHColl_DataSet_Hole_ID with cascade on
tblIDHCompositePetrography	Updated FK_tblIDHCompositePetrography_tblIDHColl_DataSet_Hole_ID with cascade on
tblIDHCompositePetroMinMatter	Updated FK_tblIDHCompositePetroMinMatter_tblIDHColl_DataSet_Hole_ID with cascade on
tblIDHCompositePetroVitrinite	Updated FK_tblIDHCompositePetroVitrinite_tblIDHColl_DataSet_Hole_ID with cascade on
tblIDHCompositeProximates	Updated FK_tblIDHCompositeProximates_tblIDHColl_DataSet_Hole_ID with cascade on
tblIDHCompositeSpectrometer	Updated FK_tblIDHCompositeSpectrometer_tblIDHColl_DataSet_Hole_ID with cascade on
tblIDHCompositeSulfur	Updated FK_tblIDHCompositeSulfur_tblIDHColl_DataSet_Hole_ID with cascade on
tblIDHCompositeUltimates	Updated FK_tblIDHCompositeUltimates_tblIDHColl_DataSet_Hole_ID with cascade on
tblIDHGeophysics_SO NIC	Updated column description Added standard default permission Updated FK_tblIDHGeophysics_SONIC_tblSYSUnits_Sonic_UnitCode with cascade on
tblIDH2S	New TR_iutblIDH2S_Depth_From_Depth_To ensures no mixture of interval and depth data
tblIDHIncrementalProximates	Updated FK_tblIDHIncrementalProximates_tblIDHColl_DataSet_Hole_ID with cascade on

tblDHRMU	New TR_iuttblDHRMU_Depth_From_Depth_To ensures no mixture of interval and depth data
tblDHSeam	New TR_iuttblDHSeam_Depth_From_Depth_To ensures no mixture of interval and depth data
tblDHSeamHistory	New TR_iuttblDHSeamHistory_Depth_From_Depth_To ensures no mixture of interval and depth data
tblDHSlake	New TR_iuttblDHSlake_Depth_From_Depth_To ensures no mixture of interval and depth data
tblDHTDGas	New TR_iuttblDHTDGas_Depth_From_Depth_To ensures no mixture of interval and depth data
tblDHUCS	New TR_iuttblDHUCS_Depth_From_Depth_To ensures no mixture of interval and depth data
tblVWSites	Updated view to include FS site