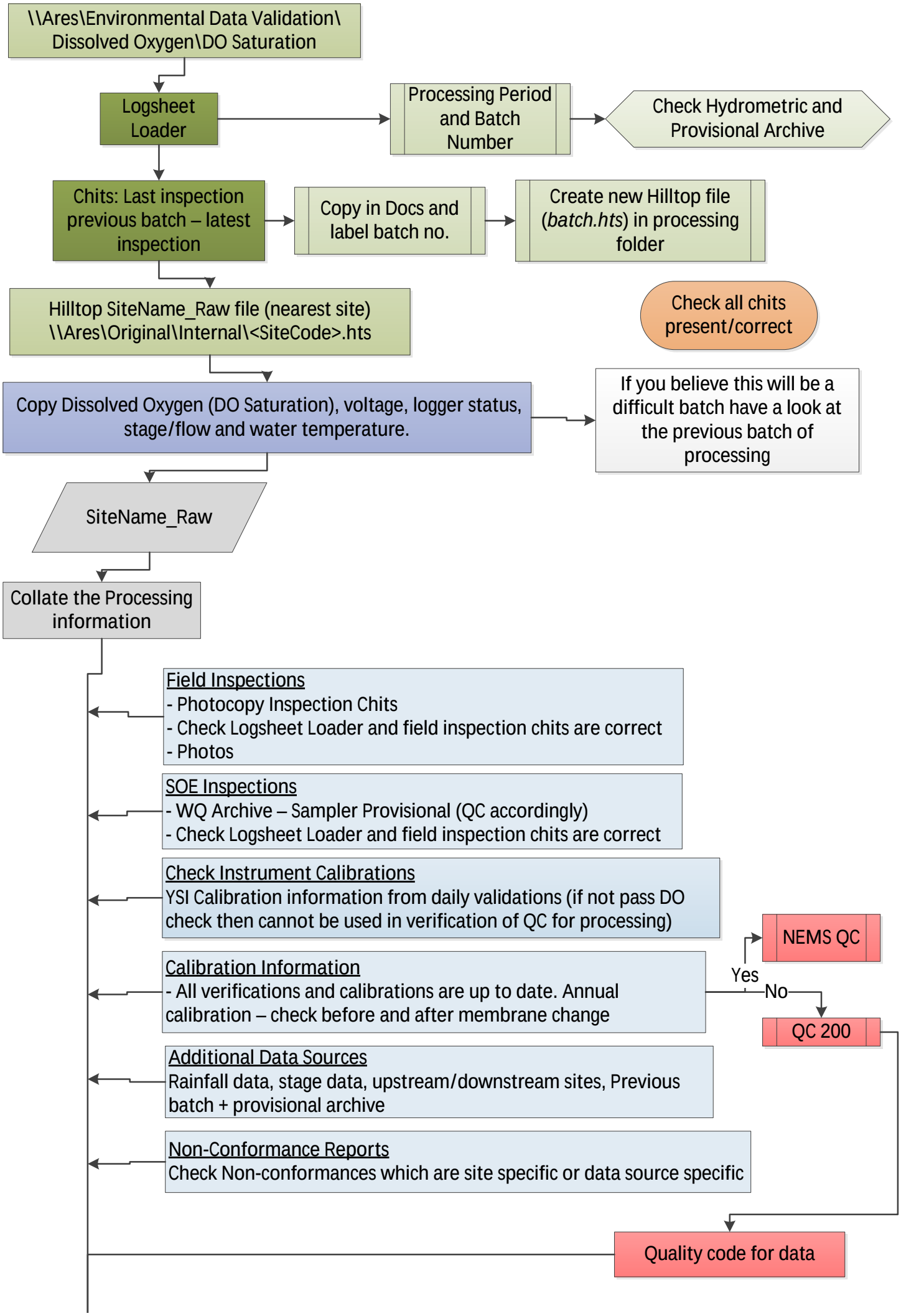
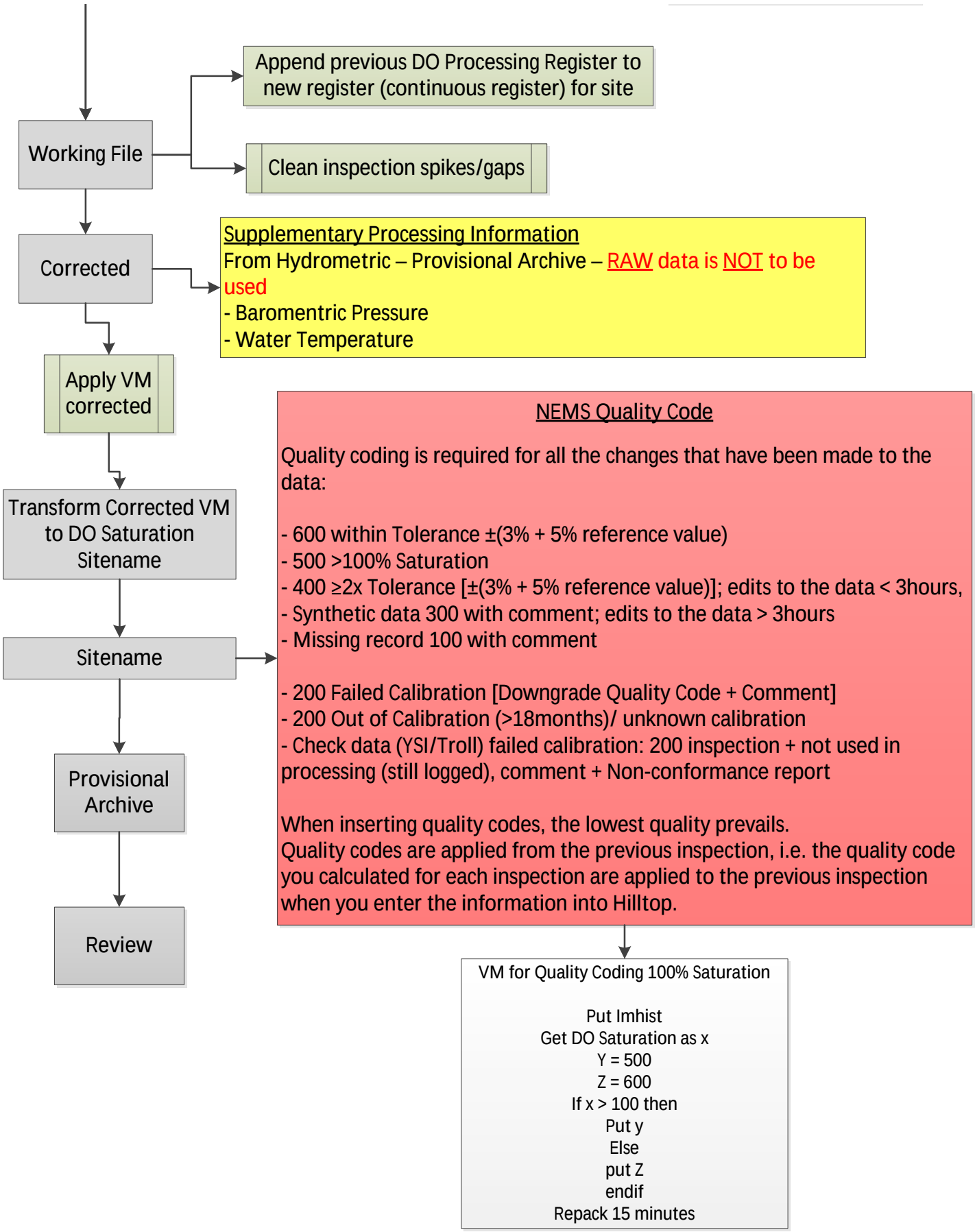

\\Ares\Environmental Data Validation\ Dissolved Oxygen\DO Saturation
Logsheet Loader
Processing Period and Batch Number
Check Hydrometric and Provisional Archive
Chits: Last inspection previous batch – latest inspection
Copy in Docs and label batch no.
Create new Hilltop file (batch.hts) in processing folder
Hilltop SiteName_Raw file (nearest site) \\Ares\Original\Internal\<SiteCode>.hts
Check all chits present/correct
Copy Dissolved Oxygen (DO Saturation), voltage, logger status, stage/flow and water temperature.
If you believe this will be a difficult batch have a look at the previous batch of processing
SiteName_Raw
Collate the Processing information
Field Inspections
- Photocopy Inspection Chits
- Check Logsheet Loader and field inspection chits are correct
- Photos
SOE Inspections
- WQ Archive – Sampler Provisional (QC accordingly)
- Check Logsheet Loader and field inspection chits are correct
Check Instrument Calibrations
YSI Calibration information from daily validations (if not pass DO check then cannot be used in verification of QC for processing)
Calibration Information
- All verifications and calibrations are up to date. Annual calibration – check before and after membrane change
Yes
No
NEMS QC
QC 200
Additional Data Sources
Rainfall data, stage data, upstream/downstream sites, Previous batch + provisional archive
Non-Conformance Reports
Check Non-conformances which are site specific or data source specific
Quality code for data


Working File
Append previous DO Processing Register to new register (continuous register) for site
Clean inspection spikes/gaps
Corrected
Supplementary Processing Information
From Hydrometric – Provisional Archive – RAW data is NOT to be used
- Baromentric Pressure
- Water Temperature
Apply VM corrected
Transform Corrected VM to DO Saturation Sitename
Sitename
NEMS Quality Code
Quality coding is required for all the changes that have been made to the data:
- 600 within Tolerance ±(3% + 5% reference value)
- 500 >100% Saturation
- 400 ≥2x Tolerance [±(3% + 5% reference value)]; edits to the data < 3hours,
- Synthetic data 300 with comment; edits to the data > 3hours
- Missing record 100 with comment
- 200 Failed Calibration [Downgrade Quality Code + Comment]
- 200 Out of Calibration (>18months)/ unknown calibration
- Check data (YSI/Troll) failed calibration: 200 inspection + not used in processing (still logged), comment + Non-conformance report
When inserting quality codes, the lowest quality prevails.
Quality codes are applied from the previous inspection, i.e. the quality code you calculated for each inspection are applied to the previous inspection when you enter the information into Hilltop.
Provisional Archive
Review
VM for Quality Coding 100% Saturation
Put Imhist
Get DO Saturation as x
Y = 500
Z = 600
If x > 100 then
Put y
Else
put Z
endif
Repack 15 minutes