**aquarius -> aquarius2018 R package changes**

As with the previous aquarius package, detailed documentation for aquarius2018 can be found in the RStudio package help description. Below is a summary of added and modified functions. Any queries or concerns please send them through to either [EDS.JobRequests@boprc.govt.nz](mailto:EDS.JobRequests@boprc.govt.nz) or [Darren.Gerretzen@boprc.govt.nz](mailto:Darren.Gerretzen@boprc.govt.nz)

Note – The label for lab data in Aquarius 2018.3 has changed from ‘Field Visits’ to ‘LabResult’. This may have some implication on previous Aquarius DataId lists.

Added

get\_all\_locations()

* Returns all metadata from all locations in Aquarius – is updated live from the database daily.

searchprojectcodes()

* Returns all aquarius dataset dataids under a particular Labware projectcode -- supports partial string matching. i.e searchprojectcodes('%REC%') will return all datasets that have a project code containing REC

Modified

searchlocationid()

* ‘\*wildcard\*’ functionality no longer supported. Can now only access one location at a time – for multiple locations please use the new function - get\_all\_locations()

searchlocationname()

* Updated name to searchlocation**names**()
* Wildcard functionality still supported

getdata()

* MetadataExport argument added – default = False. When = ‘True’ dataframe includes Quality, Approvals, Qualifiers, Parameter, Units and LocationID
* DataId has changed from the form [ParameterId.Label@LocationID](mailto:ParameterId.Label@LocationID) to [DisplayID.Label@LocationID](mailto:DisplayID.Label@LocationID). Example [QR.Primary@JM102399](mailto:QR.Primary@JM102399) will now be [Discharge.Primary@JM102399](mailto:Discharge.Primary@JM102399). Display ID’s are used currently in the AQMultiExtract function.

EGRETWQUpload()

* Change of input from getdata(waterqualitydataid) to getdata(waterqualitydataid, MetdataExport = TRUE)

EGRETFLOWUpload()

* Two new mandatory arguments - Timecolumnname and Flowcolumnname. Allows for more flexibility within the input data frame.

FlowToMeanDaily()

* Gap\_Fill option added

FlowToMeanHourly()

* Gap\_Fill option added

SumDailyRainfall()

* Gap\_Fill option added

SumHourlyRainfall ()

* Gap\_Fill option added

AQAQMultiExtract()

* Made site merge default as TRUE
* Changed site merge table to the Aquarius file below. This table can now be updated rather than requiring changes to the code.



AQMultiExtractFlat()

* Made site merge default as TRUE
* Changed site merge table to the Aquarius file below. This table can now be updated rather than requiring changes to the code.