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|  | | DEPARTMENT OF WATER AND SANITATION Office name / Address: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Telephone: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | | | | |
| **Submitted by** | | | | |  | | | |
| **Contact telephone number** | | | | |  | | | |
| **Region** | | | | |  | | | |
| **Date** | | | | |  | | | |
| Use this form to register a new Monitoring Variable and the associated Analysis Method for an Analyst (Laboratory or Monitor).  **NB fill out one form per analysis method (group together variables with same method)**  Please place an ***X*** next to the appropriate choice. | | | | | | | | |
| **Analyst** (the Laboratory) **OR Monitor** (in the case of an observation). Supply name only. | | | | | | | | |
| **NB:** The Analyst / Monitor must be an existing WMS stakeholder or detail must be supplied to register the Analyst / Monitor as a stakeholder. - Ask for the **Liaison Entity - Institution** form – see end of this form for contact information.) | | | | | | | | |
|  | | | | | | | | |
| **Monitoring Variable Name** | | | |  | | | | |
|  | | | | | | | | |
| **Monitoring Variable Abbreviation** | | | |  | | | | |
|  | | | | | | | | |
| **Monitoring Variable** **Type**  (Variables marked with **⊕** is most often used) | | | | | | | | |
|  | Absorbed | | Substance taken up | | |  | Eco Compartment  Tick appropriate box | |
|  | Acid Extractable-Solids | | Substance that can be removed with acid from solids | | |  |
|  | Acid Extractable-Water | | Substance that can be removed with acid, from water | | |  | Sample substance or environment in which monitoring is performed. | |
|  | Acid Soluble | | Substance capable of being dissolved in acid | | |  |
|  | Alkaline Extractable | | Substance that can be removed with alkali from solids | | |  |
|  | Biotopes | | Microhabitat: area where main environment condition and biota adapted to uniform | | |  |
|  | Dissolved**⊕** | | The soluble/broken up/dispersed non-filterable substance in a liquid | | |  |  | Aquatic environment |
|  | Free | | Substance not chemically bound in a molecule | | |  |
|  | Isotope | | Atoms with the same atomic number but with different numbers of neutrons | | |  |  | Atmospheric |
|  | Leachate | | Soluble substances removed by the percolating action of a liquid from a medium | | |  |
|  | Neutral Extractable-Solids | | Substance that can be removed at neutral pH from solids | | |  |  | Biological matter |
|  | Neutral Extractable-Water | | Substance that can be removed at neutral pH from water | | |  |
|  | Oxidisable matter**⊕** | | Substance capable of undergoing a chemical reaction with oxygen | | |  |  | Inorganic solids |
|  | Physical measurement**⊕** | | Perceptible to the physical senses | | |  |
|  | Redox Potential | | Reversible chemical reaction: one reaction is oxidation, the reverse: reduction | | |  |  | Water |
|  | Residual | | Something left after parts have been taken away | | |  |
|  | Sampling area | | The section of the water body that is sampled (site length in Rivers database) | | |  |  | Other (describe) |
|  | Saturated | | No more of a substance can be dissolved/all available valence bonds are filled | | |
|  | Suspended**⊕** | | Particles held in suspension in a liquid | | |  | |
|  | Total-Solids**⊕** | | Whole/full quantity of substance in a solid | | |  |
|  | Total-Water | | Whole/full quantity of a substance in water | | |
|  | Trihalomethanes | | Substituted methane compounds with three halogen atoms per molecule | | |
|  | Volatiles | | Substances that change readily from solid or liquid to vapour | | |  | |
|  | Other describe: | |  | | | | | |

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| **Type** (the characteristic of the Value) | | | | | | | | | | | | | | | | | | | | | |
| Fundamental – Single  Determinations that produce a single result value e.g. SO4, pH | | | | | | Fundamental – Multiple  Determinations that produce multiple result values e.g. Algae | | | | | | | Derived  Calculated from more than one single values e.g. Hardness, Indexes | | | | | | | | |
|  | | | | | |  | | | | | | |  | | | | | | | | |
| **Analysis Method** description of the analysis technique that is used, e.g.:  ICP EMISSION SPECTROSCOPY: FILTER SAMPLE THROUGH 0.45UM MEMBRANE; ACIDIFY TO PH < 2; MEASURE AT 311.071NM | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | |
| **Document Name** document number and page number where detailed description of analysis method can be found. | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | |
| **Detection Limit** lowest and/or reliable value that can be determined by the analysis method. | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | |
| **Result Detection Limit Type** Select one below | | | | | | | | | | | | | | | | | | | | | |
| Fixed detection limit  the detection limit | | | | Counting statistic  measured during radio activity counts, results will be accompanied by counting statistics | | | | | | | | Zero detection limit  measurement made by counting e.g. count of bacteria | | | | | | | | | |
| **Result Value Type** how result values are reported to DWA&F (Select one below) | | | | | | | | | | | | | | | | | | | | | |
| True value  Actual determined values | | | | Detection Limit  when the result value that is smaller than the detection limit is reported as < [detection limit]  e.g. 0.43 reported as < 0,5 | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | |
| **Start Date** of analysis method at this laboratory. Format yyyy-mm-dd. | | | | | | | | | | |  | | |  |  | |  |  |  |  |  |
|  | | | | | | | | | | | | | | | | | | | | | |
| **End Date** of analysis method at this laboratory. Format yyyy-mm-dd. | | | | | | | | | | |  | | |  |  | |  |  |  |  |  |
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| **Container (Bottle)** only if the monitoring/analysis is derived from a sample | | | | | | | | |  | | | | | | | | | | | | |
| **Size e.g. 2 L plastic Bottle** | | | | |  | | | | | | | | | | | | | | | | |
| **Material** | Glass | | Plastic | |  | | | | | | | | | | | | | | | | |
| **Coloured** | **Y** | | **N** | |  | | | | | | | | | | | | | | | | |
| **Preservative used** (if applicable) | |  | | | | | | | | | | | | | | | | | | | |
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| **Shelf life** of sample: number of hours if the monitoring/analysis is derived from a sample. Shelf life is dependent on the preservation method used. | | | | | | | | | |  | | | | | | | | | | | |
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| Does Laboratory supply the container for sample collection? | | | | | | | | Yes | | | | | | | | No | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | |
| **For Office use** | | | | | | | | | | | | | | | | | | | | | |
| **Responsible DWAF Officer** | | | | | | |  | | | | | | | | | | | | | | |
| **DWAF File Number** | | | | | | |  | | | | | | | | | | | | | | |
| **Captured by** | | | | | | |  | | | | | | | | | | | | | | |