**CATIONS( MACROS) WORKSHEET**

**Acceptance criteria:** Check table for limits

Checked by:\_\_\_\_\_\_\_\_\_\_\_\_\_ date: \_\_\_\_\_\_\_\_

Verified by: \_\_\_\_\_\_\_\_\_\_\_\_\_ date: \_\_\_\_\_\_\_\_

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Registration No.** | | 2025//1353 | **Analyst:** |  | | **Page:** | | 1 | **Of** | 1 |
| **Equipment Id:** | Chem 025/026 | | **Pipette Id:** | | Gen 036 | **Date:** |  | | | |

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| --- | --- | --- |
| **Reagent/consumable used** | **Batch number** | **Expiry date** |
| **ICP Standard Solution** |  |  |
| **ICP QC** |  |  |
| **Argon Gas 5.0** |  |  |
| **De-ionized water** |  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sample no.** | **Potassium as K (mg/l)** | | **Calcium as Ca (mg/l)** | | **Magnesium as Mg (mg/l)** | | **Sodium as Na (mg/l** | |
|  | **Dilution** | **Final results** | **Dilution** | **Final results** | **Dilution** | **Final results** | **Dilution** | **Final results** |
| 1353/1 |  | 6.26 |  | 52.1 |  | !!!!!!! |  | 163 |
| 1353/2 |  | 5.11 |  | 30.6 |  | 294 |  | 78.9 |
| 1353/3 |  | 8.47 |  | 48 |  | 71.4 |  | 180 |
| 1353/4 |  | 4.52 |  | 21.1 |  | 26.7 |  | 21.4 |
| 1353/1D |  | 7.76 |  | 52.1 |  | !!!!!!! |  | 160 |
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| --- | --- | --- |
| Standard used(Macros)-  20 mg/l | Criteria | Reading obtained |
| **20mg/l** |  |
| K | 18.19- 21.81 |  |
| Ca | 18.36-21.64 |  |
| Mg | 18.67-21.33 |  |
| Na | 19.08-20.92 |  |

Accept Reject