

Name of Laboratory : Center of Science and Technology for Research and  
Community Development, Udon Thani Rajabhat University

Address : 64 Building 14, Taharn Road, Tambon Makkhang,  
Amphoe Mueang, Changwat Udon Thani 41000

Accreditation Number : Testing – 0036

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Laboratory Status :  Permanent  Site  Temporary  Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
1	Water	<p>- pH 6.0 to 9.0</p> <p>- Total dissolved solids dried at 180 °C 50 mg/L to 2 000 mg/L</p> <p>- Total hardness (Calculated as CaCO<sub>3</sub>) 6 mg/L to 500 mg/L</p>	<p>In - house method : WI-CHE-TM-01 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA &amp; WEF, 23<sup>rd</sup> ed., 2017, part 4500-H<sup>+</sup> B</p> <p>In - house method : WI-ENV-TM-01 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA &amp; WEF, 23<sup>rd</sup> ed., 2017, part 2540 C</p> <p>In - house method : WI-ENV-TM-02 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA &amp; WEF, 23<sup>rd</sup> ed., 2017, part 2340 C</p>

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
1 (cont.)	Water	- Chloride 5 mg/L to 400 mg/L	In - house method : WI-ENV-TM-04 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 <sup>rd</sup> ed., 2017, part 4500-Cl <sup>-</sup> B
		- Iron 0.1 mg/L to 3.0 mg/L	In - house method : WI-CHE-TM-03 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 <sup>rd</sup> ed., 2017, part 3111 B, 3030 E
		- Manganese 0.1 mg/L to 2.0 mg/L	In - house method : WI-CHE-TM-05 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 <sup>rd</sup> ed., 2017, part 3111 B, 3030 E

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
1 (cont.)	Water	- Copper 0.1 mg/L to 2.0 mg/L	In - house method : WI-CHE-TM-07 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 <sup>rd</sup> ed., 2017, part 3111 B, 3030 E
2	Wastewater	- pH 4.0 to 10.0  - Total dissolved solids dried at 180 °C 50 mg/L to 2 000 mg/L	In - house method : WI-CHE-TM-01 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 <sup>rd</sup> ed., 2017, part 4500-H <sup>+</sup> B  In - house method : WI-ENV-TM-01 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 <sup>rd</sup> ed., 2017, part 2540 C

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	- Total suspended solids dried from 103 °C to 105 °C 10 mg/L to 1 000 mg/L  - COD 50 mg/L to 1 000 mg/L	In - house method : WI-ENV-TM-03 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 <sup>rd</sup> ed., 2017, part 2540 D  In - house method : WI-ENV-TM-09 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 <sup>rd</sup> ed., 2017, part 5220 C

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