



# WASA WATER TESTING LABORATORY

WASA-LAHORE



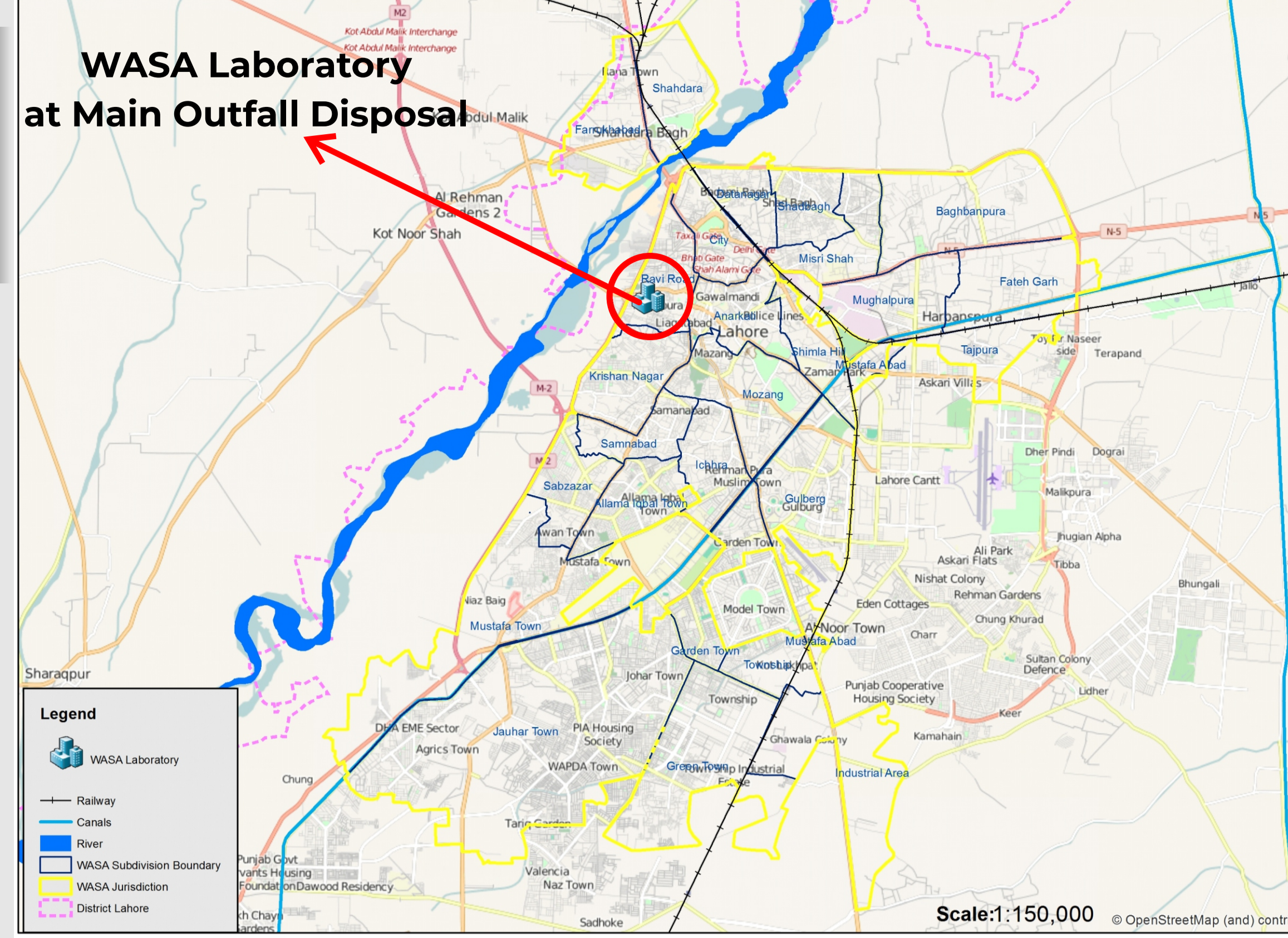
## SCOPE OF WASA WATER TESTING LABORATORY

**W**ASA Water Testing Lab Lahore is involved in testing activities and sections supporting these test performers in achieving the required quality of testing as required by International Standard ISO/IEC 17025:2017 Lab's stakeholders and customers.

WASA Water Testing Lab Lahore is also involved in sample collection of drinking water supplied to citizen of Lahore from the Tube wells (Sources) and consumers. (Three type of sampling including Routine, Follow up and complaint sampling)



Location Map of WASA Laboratory

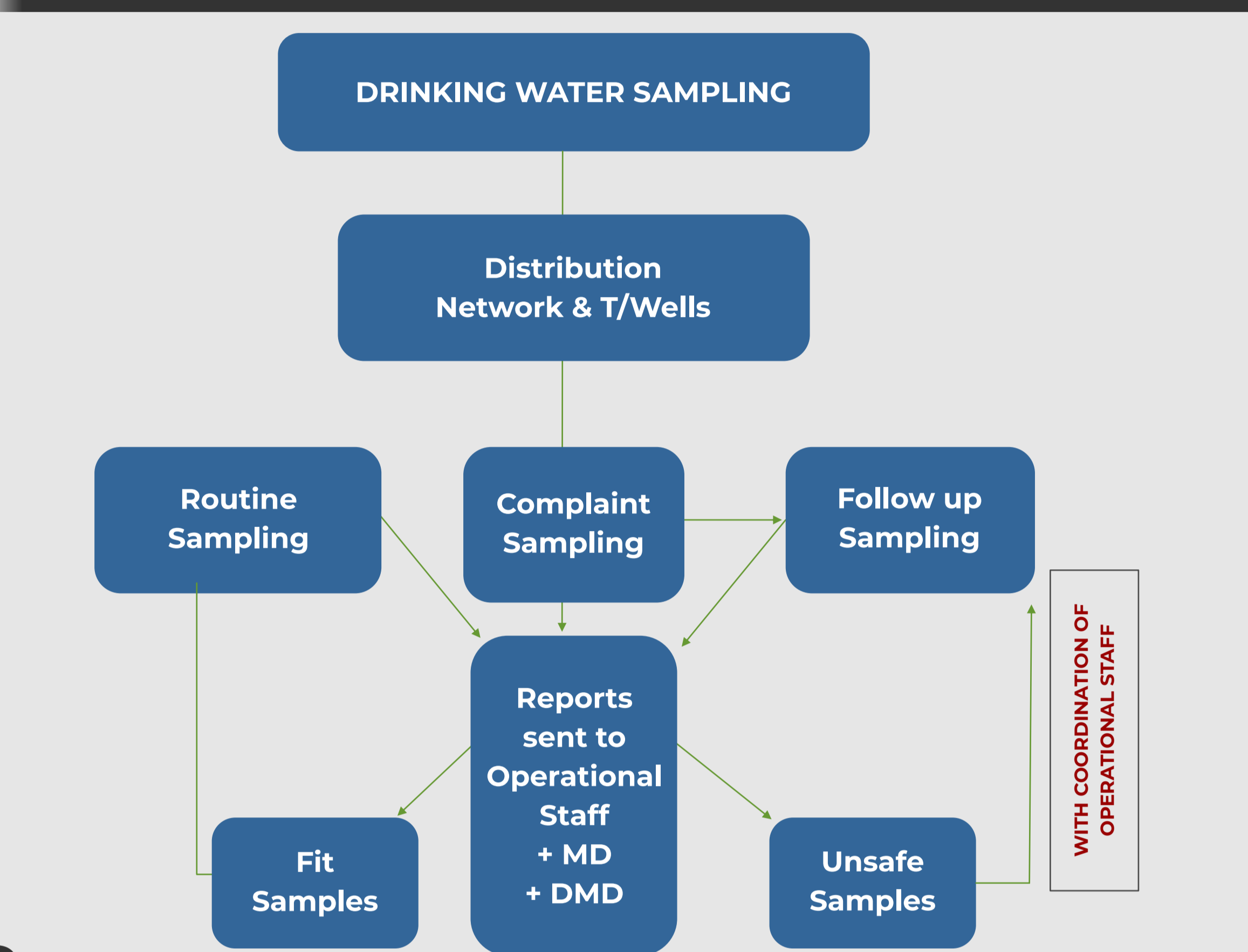


## TESTING CAPABILITY

- WASA Water testing Laboratory is equipped with latest testing equipment including ICP-OES, UV spectrophotometer, Flame photometer, multi parameter photometer, idexx kit and many other latest equipment that has enabled the WASA to be independent to monitor the quality of Drinking water.
- The laboratory can perform 58 tests on drinking water.



## SCHEMATIC CHART



## COLLECTION OF DRINKING WATER SAMPLES AND FIELD TESTING

Sampling teams collect water samples of different areas of Lahore in WASA jurisdictions from tubewells and consumer ends. Sample collectors check the presence of chlorine in water samples at source and consumer end as well.



## TESTING METHOD

Sr.No	Test	Method	Section
1	pH	APHA 4500-H <sup>+</sup>	Physio-Chemical I
2	Conductivity	APHA 2510	Physio-Chemical I
3	Turbidity	APHA 2130 B	Physio-Chemical I
4	TDS	Conductivity factor method	Physio-Chemical I
5	Physical Appearance	APHA 2110	Physio-Chemical I
6	Odor	APHA 2150	Physio-Chemical I
7	Color	APHA 2120 B	Physio-Chemical I
8	Taste	APHA 2160	Physio-Chemical I
9	Fluoride	APHA 4500-F	Physio-Chemical I
10	Hardness	APHA 2340 C	Physio-Chemical II
11	Calcium	APHA 3500-Ca	Physio-Chemical II
12	Magnesium	APHA 3500-Mg	Physio-Chemical II
13	Alkalinity	APHA 2320-B	Physio-Chemical II
14	Chloride	APHA 4500-Cl	Physio-Chemical II
15	Carbonate	Titration Method	Physio-Chemical II
16	Bicarbonate	Titration Method	Physio-Chemical II
17	Residual Chlorine	APHA 4500-Cl	Physio-Chemical II
18	Total Chlorine	APHA 4500-Cl	Physio-Chemical II
19	Total Iron	APHA 3500 Fe B	Physio-Chemical II
20	Nitrate	APHA 4500-NO <sub>3</sub> <sup>-</sup>	Physio-Chemical II
21	Nitrite	Spot Test	Physio-Chemical II
22	Sulphate	APHA 4500-E	Physio-Chemical II
23	Cadmium (Cd)	ICP-OES	Analytical Lab
24	Cobalt (Co)	ICP-OES	Analytical Lab
25	Chromium (Cr)	ICP-OES	Analytical Lab
26	Copper (Cu)	ICP-OES	Analytical Lab
27	Iron (Fe)	ICP-OES	Analytical Lab
28	Lithium (Li)	ICP-OES	Analytical Lab
29	Magnesium (Mg)	ICP-OES	Analytical Lab
30	Manganese (Mn)	ICP-OES	Analytical Lab

Sr.No	Test	Method	Section
31	Molibdium (Mo)	ICP-OES (APHA)	Analytical Lab
32	Nickel (Ni)	ICP-OES (APHA)	Analytical Lab
33	Lead (Pb)	ICP-OES (APHA)	Analytical Lab
34	Antimony (Sb)	ICP-OES (APHA)	Analytical Lab
35	Selenium (Se)	ICP-OES (APHA)	Analytical Lab
36	Strontium (Sr)	ICP-OES (APHA)	Analytical Lab
37	Titanium (Ti)	ICP-OES (APHA)	Analytical Lab
38	Thallium (Tl)	ICP-OES (APHA)	Analytical Lab
39	Vanadium (V)	ICP-OES (APHA)	Analytical Lab
40	Zinc (Zn)	ICP-OES (APHA)	Analytical Lab
41	Potassium (K)	APHA 3500-B-K-B	Analytical Lab
42	Lanthanum (La)	ICP-OES	Analytical Lab
43	Sodium (Na)	APHA 3500-Na-B	Analytical Lab
44	Barium (Ba)	ICP-OES (APHA)	Analytical Lab
45	Phosphorous (P)	ICP-OES (APHA)	Analytical Lab
46	Sulfur (S)	ICP-OES (APHA)	Analytical Lab
47	Scandium (Sc)	ICP-OES (APHA)	Analytical Lab
48	Mercury (Hg)	ICP-OES (APHA)	Analytical Lab
49	Arsenic (As) 3+	ICP-OES (APHA)	Analytical Lab
50	Arsenic (As) 5+	ICP-OES (APHA)	Analytical Lab
51	Beryllium (Be)	ICP-OES (APHA)	Analytical Lab
52	Calcium (Ca)	ICP-OES (APHA)	Analytical Lab
53	E.Coli	APHA 9222	Micro biology Lab
54	Total Coliform	APHA 9222	Micro biology Lab
55	Fecal Coliform	APHA 9222	Micro biology Lab
56	E.Coli (Idexx kit)	ISO 9308-2:2012	Micro biology Lab
57	Total Coliform (Idexx kit)	ISO 9308-2:2012	Micro biology Lab
58	Fecal Coliform (Idexx kit)	ISO 9308-2:2012	Micro biology Lab

## MOBILE LABORATORIES



## GREAT NEWS FOR THE RESIDENTS OF LAHORE!

A major convenience for both domestic and commercial consumers: you can now get your water tested through WASA Lahore's ISO/IEC **17025** certified laboratory at an affordable price with top-notch quality.

HOSPITALS, SCHOOLS, GOVERNMENT SECTORS, AND RESEARCH STUDENTS CAN ENJOY A



**Note:** Both areas under WASA Lahore's jurisdiction and those outside it can benefit from this service.

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