TULSA HEALTH Department

Environmental Health Services Lab

5051 S. 129th E. Ave. Tulsa, OK 74134

918-595-4200

Open 8:00 AM to 5:00 PM
Samples accepted until 4:30 PM
West end of building

TYPE	ANALYSIS	CERTIFIED			PRICE	IMPORTANT! SPECIAL NOTES	SAMPLING
Wet Chem	Alkalinity	DW	NW		$20.00		**Unless otherwise noted to the left, most wet chemistry analyses can be performed with 1000 mL sample in a clean plastic bottle provided by the lab. FOR TESTS MARKED ** PLEASE CONTACT LAB PRIOR TO SAMPLING UNLESS ALREADY EXPECTED OR A REGULAR SAMPLE**
Wet Chem	Ammonia (undistilled)		NW		$24.00		
Wet Chem	Ammonia (distilled)		NW		$30.00		
Wet Chem	BOD**		NW		$42.00	1000 mL, 48 hr hold time	
Wet Chem	CBOD**		NW		$42.00	1000 mL, 48 hr hold time	
Wet Chem	Chlorine (free or total)	DW	NW		$20.00	500 mL amber glass bottle receipt at lab ASAP	
Wet Chem	Chloride		NW		$24.00		
Wet Chem	COD		NW		$20.00		
Wet Chem	Conductivity	DW	NW		$15.00		
Wet Chem	Dissolved oxygen		NW		$10.00		
Wet Chem	Fluoride	DW	NW		$27.00		
Wet Chem	Nitrate+nitrite	DW	NW		$25.00	must be received by lab within 48 hours of collection	
Wet Chem	Nitrate	DW	NW		$25.00	must be received by lab on ice within 48 hours unless chlorinated	
Wet Chem	Nitrite**	DW	NW		$25.00	must be received by lab on ice within 48 hours	
Wet Chem	pH	DW	NW		$12.00		
Wet Chem	Phosphorous (total)		NW		$25.00		
Wet Chem	Phosphorous (ortho)**	DW	NW		$22.00	48 hr hold time	
Wet Chem	Solids (total)		NW		$25.00		
Wet Chem	Solids (total dissolved)		NW		$25.00		
Wet Chem	Solids (total suspended)		NW		$25.00		
Wet Chem	Stability				$12.00		
Wet Chem	Sulfate	DW	NW		$18.00		
Wet Chem	TOC/DOC	DW	NW		$40.00	500 mL amber glass bottle with phos. acid	
Wet Chem	Turbidity	DW	NW		$15.00		
Micro	Total Coliforms (presence/absence)	DW			$24.00	MONDAY - THURSDAY **($30 on Friday)**	**Drinking water PA samples must be received within 30 hours of collection in a sterile bottle filled to 100 mL**
Micro	Total Coliforms (quantitated - MPN)	DW	NW		$26.00	**ALL DW SAMPLES:** MONDAY - THURSDAY **($32.50 on Friday)**	
Micro	E. coli (quantitated - MPN)	DW	NW		$26.00		
Micro	Heterotrophic bacteria (MPN)	DW	NW		$40.00	**ALL NW SAMPLES:** MONDAY - THURSDAY, not accepted on Friday w/o prior arrangement, on ice, receipt within 6 hours of collection	
Micro	Fecal coliforms (quantitated - MPN)		NW		$26.00		
Micro	Enterococcus (quantitated - MPN)**		NW		$30.00		
Micro	Iron-related bacteria (BART)				$40.00	**STERILE CONTAINERS MUST BE USED FOR ALL MICROBIOLOGY TESTING**	
Micro	Slime-forming bacteria (BART)				$40.00		
Micro	Sulfate-reducing bacteria (BART)				$40.00		

TURN-AROUND TIME FOR MOST SAMPLES IS APPROXIMATELY 15 WORKING DAYS & IS DEPENDENT ON THE NUMBER OF ANALYSES

DW=drinking water NW=non-potable water SS=soils/sludges
Non-certified tests may be performed but are NOT legally defensible

TULSA HEALTH Department

Environmental Health Services Lab
5051 S. 129th E. Ave. Tulsa, OK 74134
918-595-4200

Open 8:00 AM to 5:00 PM
Samples accepted until 4:30 PM
West end of building

TYPE	ANALYSIS	CERTIFIED			PRICE	IMPORTANT! SPECIAL NOTES	SAMPLING
Metals	Aluminum		NW	SS	$24.00		**Metals analyses require 1000 mL sample in a clean plastic bottle provided by the lab.**
Metals	Antimony	DW	NW		$25.00		
Metals	Arsenic	DW	NW	SS	$25.00		
Metals	Barium	DW	NW	SS	$24.00		
Metals	Beryllium	DW	NW	SS	$24.00		
Metals	Cadmium	DW	NW	SS	$25.00		
Metals	Calcium	DW	NW		$24.00		
Metals	Chromium	DW	NW	SS	$24.00		
Metals	Copper	DW	NW	SS	$24.00	**Regulatory samples require specific sampling techniques**	
Metals	Hardness	DW	NW		$20.00		
Metals	Iron		NW		$24.00		
Metals	Lead	DW	NW	SS	$25.00	**Regulatory samples require specific sampling techniques**	
Metals	Magnesium	DW	NW		$24.00		
Metals	Manganese	DW	NW	SS	$24.00		
Metals	Mercury	DW	NW		$60.00		
Metals	Mercury (solids)			SS	$70.00		
Metals	Molybdenum		NW	SS	$24.00		
Metals	Nickel	DW	NW	SS	$24.00		
Metals	Potassium		NW		$24.00		
Metals	Selenium	DW	NW	SS	$25.00		
Metals	Silica	DW	NW		$24.00		
Metals	Silver		NW	SS	$24.00		
Metals	Sodium	DW	NW		$24.00		
Metals	Thallium		NW	SS	$25.00		
Metals	Vanadium		NW	SS	$24.00		
Metals	Zinc		NW	SS	$24.00		
Organics	THM	DW			$130.00	requires 1 set of 4 clear & 4 amber glass vials per site with no bubbles & one trip blank per total group of sites	**Samples must be received on ice**
Organics	HAA	DW			$240.00		

TURN-AROUND TIME FOR MOST SAMPLES IS APPROXIMATELY 15 WORKING DAYS & IS DEPENDENT ON THE NUMBER OF ANALYSES

DW=drinking water NW=non-potable water SS=soils/sludges
Non-certified tests may be performed but are NOT legally defensible

TULSA HEALTH Department	**Environmental Health Services Lab** 5051 S. 129th E. Ave. Tulsa, OK 74134 918-595-4200	**Open 8:00 AM to 5:00 PM** **Samples accepted until 4:30 PM** **West end of building**

GENERAL RECOMMENDATIONS FOR WELL WATER TESTING

START HERE	**Coliforms (presence/absence) MONDAY - THURSDAY, *+$6 UPCHARGE FOR FRIDAY***	This is the bare minimum indicator for the safety of drinking water and only from a bacteriological standpoint	**$24** **1 sterile plastic 100 mL bottle from lab**
FOLLOWED BY*			
GOOD	nitrate+nitrite, solids (total dissolved), & pH	This is the bare minimum indicator for the safety of drinking water from a chemical standpoint	**$62.00** **1 1000 mL plastic bottle from lab**
BETTER	alkalinity, arsenic, chloride, coppper, conductivity, hardness, lead, nitrate+nitrite, pH, solids (total dissolved), sulfate **(10% discount on price)**	A decent set of tests that include some of the more common problems with wells in Oklahoma	**$209.70** **2 1000 mL plastic bottles from lab**
BEST	alkalinity, arsenic, calcium, chloride, conductivity, copper, fluoride, hardness, iron, lead, manganese, nitrate+nitrite, pH, solids (total dissolved), sulfate **(10% discount on price)**	A comprehensive group of tests that will help establish a baseline of water quality for most well owners or help narrow down symptoms to a specific problem.	**$298.80** **2 1000 mL plastic bottles from lab**

*These groups represent the tests most commonly useful to well owners in OK.

WHICH TEST?

CONDITIONS OR PROBLEMS	ANALYSIS OR TREATMENT
recurrent GI illness	coliform bacteria, sulfate - DISINFECT WELL IF POSITIVE!
scaly plumbing residue, soap doesn't lather, plumbing deposits/corrosion	alkalinity, hardness, pH
septic concerns	coliform bacteria, nitrate-nitrite
bitter taste	pH, alkalinity, metals
metallic taste	copper, iron, manganese, and/or zinc
metallic taste with blue-green staining	copper
deposits, colored water, staining, salty taste	total dissolved solids (TDS)
salty taste	chloride, sulfate, conductivity, TDS, or sodium
green/blue color in water or plumbing deposits	copper
white plumbing deposits	total dissolved solids, sulfate, calcium
reddish/brown color in water or staining	iron, manganese, iron-related bacteria
black to brown color, rotten-egg smell, bitter taste	coliform bacteria, manganese, sulfate, sulfur-reducing bacteria
rotten-egg smell in hot water only	replace magnesium water heater anode with one made of aluminum
intensive agricultural land use nearby	nitrate-nitrite, coliform bacteria, conductivity
housing built prior to 1988	lead, copper, pH, alkalinity
petroleum smell or oily sheen	total petroleum hydrocarbons (TPH) - **contact ODEQ, this is not an analysis we offer**
black flakes in water	**if the flakes smear on your fingers this is likely from the rubber seals degrading (plumbing)**, otherwise check alkalinity, pH, iron, lead, copper, zinc, cadmium depending on pipe composition

TURN-AROUND TIME FOR MOST SAMPLES IS APPROXIMATELY 15 WORKING DAYS & IS DEPENDENT ON THE NUMBER OF ANALYSES

DW=drinking water NW=non-potable water SS=soils/sludges
Non-certified tests may be performed but are NOT legally defensible

TULSA HEALTH Department	Environmental Health Services Lab 5051 S. 129th E. Ave. Tulsa, OK 74134 918-595-4200	Open 8:00 AM to 5:00 PM Samples accepted until 4:30 PM West end of building

TIPS & RESOURCES

*Testing may be called for when there is a noticeable change in the water. Color or taste changes may be indicative of a new issue.

*It's usually best to test for coliforms first, disinfect the well if necessary, and proceed with any further testing from there.

*If your water is purchased from a Public Water System, check with them first if you notice a problem. They are required to do extensive testing themselves.

*Narrow down the source of the problem by checking both the cold and hot water side. Sometimes water heaters age and can be a source of foul odors and plumbing issues.

*If relying on a well, make sure it is in good physical shape. Groundwater intrusion is a frequent culprit in well problems.

*Groundwater changes over time. A good well test one year is no guarantee that it will remain so for the remainder of its lifespan.

*Remember, if you're relying on a well you are responsible for the drinking water supply for yourself and for those under your care.

*Public Water System information is available at http://sdwis.deq.state.ok.us/DWW/

*Private Well Class (an excellent resource for well owners) https://privatewellclass.org/

*US EPA https://www.epa.gov/privatewells

* Oklahoma Water Resource Board https://www.owrb.ok.gov/

*Oklahoma Department of Environmental Quality https://www.deq.ok.gov/

IMPORTANT NOTES FOR SAMPLING

We suggest avoiding shipping time-sensitive samples when possible. If it is necessary to ship samples, please ensure they will meet required conditions upon receipt (such as 30 hrs for coliforms) and are shipped overnight guaranteed. The lab cannot be responsible for shipping delays.	If bringing in a large number of samples or requesting unusual testing, please call our main number to see if special arrangements or preparations need to be made (e.g. enterococcus or BOD). IF IN DOUBT, IT'S ALWAYS BETTER TO HAVE MORE SAMPLE THAN NOT ENOUGH!	For soils/sludges, approximately 25 to 30 grams is needed (about a a full plastic sandwich bag).

HOW OFTEN SHOULD A WELL BE TESTED?

The minimum recommended testing is total coliform bacteria, nitrate-nitrite, total dissolved solids, and pH annually. A well should also be tested if any change in the water's appearance, taste, smell, or feel. Groundwater is not static, it can and does change based on a number of conditions and circumstances. Proper maintenance of a well can reduce the likelihood of intrusion by contaminants.The final responsibility for maintaining access to clean water lies with the well owner.

TURN-AROUND TIME FOR MOST SAMPLES IS APPROXIMATELY 15 WORKING DAYS & IS DEPENDENT ON THE NUMBER OF ANALYSES

DW=drinking water NW=non-potable water SS=soils/sludges
Non-certified tests may be performed but are NOT legally defensible