



INVOICE INFORMATION	REPORT INFORMATION	PROJECT INFORMATION	TURNAROUND TIME (TAT)																																																		
Company Name: _____ Contact Name: _____ Address: _____ Phone: _____ Fax: _____ Email: _____	<input type="checkbox"/> Same as invoice information Company Name: _____ Contact Name: _____ Address: _____ Phone: _____ Fax: _____ Email: _____	Quotation #: _____ P.O. #: _____ Project #: _____ Site Location: _____ Site #: _____ Sampled By: _____	<input type="checkbox"/> TAT (ID + QUANTIFICATION, 3-5 days) <input type="checkbox"/> TAT (MST, 7-10 days) PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS <input type="checkbox"/> REQUEST RUSH TAT QUOTE																																																		
Sample Collection Checklist		ANALYSIS REQUESTED																																																			
<input type="checkbox"/> Ensure vessel is clean, and sterilized <input type="checkbox"/> Close collection vessel immediately after acquisition <input type="checkbox"/> Seal collection vessel with tape to eliminate tampering		BACTERIAL SCREENING AND QUANTIFICATION BACTERIAL IDENTIFICATION AND SOURCE TRACKING (MST)	Rush Confirmation (Y/N): _____ Date Required: _____																																																		
<small>SAMPLES MUST BE KEPT COOL (< 10 °C) FROM TIME OF SAMPLING UNTIL DELIVERY TO EBPI labs</small>		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">ATP-BASED ANALYSIS</th> <th>ColiPlate</th> <th colspan="10">TARGET CODE</th> </tr> <tr> <th>DIRECT TEST</th> <th>MEMBRANE FILTER</th> <th rowspan="2">E. COLI</th> <th rowspan="2">TOTAL COLIFORMS</th> <th rowspan="2">SAMPLE PREPARATION</th> <th>qTBAC</th> <th>qTENT</th> <th>qTECOLI</th> <th>qHBAC</th> <th>qCBAC</th> <th>qCGB</th> <th>qDBAC</th> <th>qGULL</th> <th>qHPYVs</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	ATP-BASED ANALYSIS		ColiPlate	TARGET CODE										DIRECT TEST	MEMBRANE FILTER	E. COLI	TOTAL COLIFORMS	SAMPLE PREPARATION	qTBAC	qTENT	qTECOLI	qHBAC	qCBAC	qCGB	qDBAC	qGULL	qHPYVs															LABORATORY USE ONLY <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>SAMPLE SEAL (Y/N)</th> <th>Temperature (°C) upon Receipt</th> <th>pH upon Receipt</th> </tr> </thead> <tbody> <tr> <td>PRESENT</td> <td> </td> <td> </td> </tr> <tr> <td>INTACT</td> <td> </td> <td> </td> </tr> </tbody> </table>	SAMPLE SEAL (Y/N)	Temperature (°C) upon Receipt	pH upon Receipt	PRESENT			INTACT		
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Bacterial source tracking (MST) reference code guide:

Target	Code	Environmental Relevance/ Interpretation
Total <i>Bacteroides</i>	qTBAC	One of the prominent bacterial groups inhabiting the intestinal tracts of warm blooded animals including humans, cattle, swine, horses, and dogs. Quantification of total <i>Bacteroides</i> provides a general indicator of fecal contamination.
Total <i>Enterococcus</i>	qTENT	Enterococci, a subset of fecal streptococci, are found in the feces of all warm blooded animals and are believed to have higher survival rates in water than fecal coliforms. As with total <i>Bacteroides</i> , the total <i>Enterococcus</i> assay provides a general indicator of fecal contamination.
Total <i>E. Coli</i>	qTECOLI	The total <i>E. coli</i> assay also provides a general indicator of fecal contamination.
Human <i>Bacterioides</i>	qHBAC	Quantification of three genetic markers of fecal <i>Bacterioides</i> from humans.
Cattle <i>Bacterioides</i>	qCBAC	Quantification of two genetic markers of fecal <i>Bacterioides</i> from cattle.
Canada Goose <i>Bacterioides</i>	qCGB	Quantification of two genetic markers of fecal <i>Bacterioides</i> from Canada Geese
Dog <i>Bacterioides</i>	qDBAC	Quantification of a genetic marker of fecal <i>Bacterioides</i> from dogs.
Seagull <i>Catelliococcus</i>	qGULL	Quantification of a genetic marker of <i>Catelliococcus marimammalium</i> shown to be an indicator of gull fecal contamination.
Human Polyomavirus	qHPyVs	Evidence indicates that more than 70% of humans harbor and shed polyomaviruses in their urine.

ATP-Based Analysis

This screening test method uses the chemical luminescence produced by a reaction between luciferin/luciferase and ATP found in the water sample. As all living organisms use ATP as an energy source, the amount of light produced from the assay gives a quantitative assessment of the bacterial and biological content of the sample.

Test Method	Comments
Direct Test	This test measured the total ATP content in the water sample
Membrane Filter Test	Measures the ATP activity from only the living bacteria present in the water samples. The membrane filter test eliminates all intra and extracellular ATP from other biota and biological residues.

Plate Test

This test is an extremely sensitive assay that uses a 96 well microplate and nutrient indicators X-Gal and MUG to detect viable *Coliforms* and *E. Coli*. The chromogenic and fluorogenic change in the wells is measured to give a quantitative indication of bacterial contamination.

Test	Comments
Total <i>Coliforms</i>	Substrate react with Beta-D-glucuronidase in <i>E. Coli</i> to produce a blue green colour change
<i>E. Coli</i>	Test substrates react with Beta-D-galactosidase in <i>Coliforms</i> to produce a fluorescent signal