



## Explanation of Terms Used in Chain-of-Custody Record

<b>Sample ID</b>	Specific sample identification number, unique to each sample set.
<b>Analysis Requested</b>	Type(s) of analysis required for that particular sample or sample set.
<b>Quantification</b>	"Yes" for quantification analysis and "No" for presence/absence analysis.
<b>Relinquished By</b>	Name of the individual who is delivering the samples to the laboratory.
<b>Collection Date</b>	The date that the sample was taken, including month, day, and year.
<b>Collection Time</b>	Time the sample was taken.
<b>Shipping Samples</b>	
<b>Weekday delivery:</b> Please email the company a shipment tracking number.	
<b>Saturday delivery:</b> In order to assure the proper delivery of samples, client must contact the company to attain approval for samples to be delivered on Saturday.	
<b>Recommended Sample Matrix Quantities</b>	
The following sample matrices are included in our standard pricing and turnaround time. Contact us for details on submitted other sample matrices. (786-220-0379)	
<b>Water samples:</b> 500mL per sample.	
<b>47mm membrane filters:</b> up to 2 filters per sample.	
<b>Fecal matter:</b> 1-5 grams.	
<b>Soil, sediment, sludge, mud:</b> 1-5 grams.	
<b>Swabs:</b> 1 swab per sample.	

**TEST LIMITATIONS.** The Services are comprised of screenings for detectable levels of specific DNA fragments in samples furnished by Client. Samples containing detectable levels indicate the presence of the particular bacterial/viral/parasitic strain associated with the specific DNA being tested. SMC uses screening methods and equipment that the scientific community considers to be reliable and effective. In performing Services, SMC adheres to a rigorous quality control system that includes screening for false negatives and positives. However, SMC's tests are not infallible and numerous factors beyond SMC's control may affect the accuracy of testing, including, but not limited to: (a) poor sample collection by Client; (b) improper handling and transportation of samples prior to their arrival at SMC's facility; (c) the idiosyncratic presence and absence of the bacterial/viral/parasitic strain being tested for from the gut of a particular animal; and (d) the idiosyncratic presence or absence of the particular DNA fragment being tested for from the genome of a particular bacterial/viral/parasitic colony. Due to such factors, SMC neither represents nor warrants that its tests will conclusively establish the presence or absence of bacterial/viral/parasitic contamination in a given water supply. **Client accepts the limitations discussed herein and affirms its understanding that the most reliable way to accurately test for contamination is for Client to increase its sample size and screen for a greater variety of DNA fragments.**

## Available Analysis

<b>qPCR</b>	<b>Digital PCR</b>
<b>Human</b>	<b>Pathogens</b>
Human Bacteroidetes ID: Dorei ( <i>Default</i> )	Salmonella ID dPCR
Human Bacteroidetes ID: EPA	Enterovirus ID dPCR
Human Bacteroidetes ID: Steri	E.Coli O157 ID - ( <i>qPCR</i> )
<b>Cow</b>	<b>Human</b>
Cow Bacteroidetes ID: EPA 1 ( <i>Default</i> )	Human Bacteroidetes ID: Dorei dPCR
Cow Bacteroidetes ID: EPA 2	Human Bacteroidetes ID: EPA dPCR
<b>Pig</b>	<b>Special Request Analysis*</b>
Pig Bacteroidetes ID	Human Bacteroidetes ID: Theta
<b>Bird</b>	Dog Fecal ID: EPA
Bird Fecal ID	Camplobacter ID dPCR
<b>Gull</b>	Adenovirus ID dPCR
Gull Fecal ID	Norovirus ID: G1 dPCR
<b>Goose</b>	Norovirus ID: G2 dPCR
Goose Bacteroidetes ID: Target 1 ( <i>Default</i> )	Rotavirus ID dPCR
Goose Bacteroidetes ID: Target 2	*Contact lab prior to requesting. Standard terms do not apply. (786-220-0379)
<b>Chicken</b>	
Chicken Bacteroidetes ID	
<b>Poultry Litter</b>	
Poultry Litter ID	
<b>Dog</b>	
Dog Bacteroidetes ID: Target 1 ( <i>Default</i> )	
Dog Bacteroidetes ID: Target 2	
Dog Bacteroidetes ID: EPA 1	
<b>Elk</b>	
Elk Bacteroidetes ID (Not Quantifiable)	
<b>Ruminant</b>	
Ruminant Fecal ID: Target 1 ( <i>Default</i> )	
Ruminant Fecal ID: Target 2	
<b>Horse</b>	
Horse Bacteroidetes ID	
<b>Beaver</b>	
Beaver Fecal ID	
<b>General</b>	
General Bacteroidetes ID	
General Enterococcus ID	