Table A1a: Quabbin and Wachusett Reservoir - Giardia and Cryptosporidium Results

Table A1a: Quabbin and Wachusett Reservoir - Giardia and Cryptosporidium Results  Method: USEPA Method 1623.1												
Location	SAMPLE Date	Crypto Concentration (Oocysts/100L)	# Recovered	# Empty Oocysts	# with Amorphous Structure	# with 1 internal Structure	G/4RDIA Concentration (cysts/100L)	# Recovered	# Empty cysts	# with Amorphous Structure	# with >= 1 internal Structures	<sup>T</sup> esting Lab
CWTP Inlet	5-Jan-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CWTP Inlet	12-Jan-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CWTP Inlet	19-Jan-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CWTP Inlet	26-Jan-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CWTP Inlet	2-Feb-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CWTP Inlet	9-Feb-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CWTP Inlet	16-Feb-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CWTP Inlet	23-Feb-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CWTP Inlet	1-Mar-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CWTP Inlet	8-Mar-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CWTP Inlet	15-Mar-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CWTP Inlet	22-Mar-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CWTP Inlet	29-Mar-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CWTP Inlet	5-Apr-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CWTP Inlet	12-Apr-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CWTP Inlet	19-Apr-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CWTP Inlet	26-Apr-16	ND	ND	ND	ND	ND	4	ND	2	ND	ND	
CWTP Inlet	3-May-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CWTP Inlet	10-May-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CWTP Inlet	17-May-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CWTP Inlet	24-May-16	ND	ND	ND	ND	ND	2	ND	ND	1	ND	
CWTP Inlet	31-May-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CWTP Inlet	7-Jun-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CWTP Inlet	14-Jun-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CWTP Inlet	21-Jun-16	ND	ND	ND	ND	ND	4	ND	1	1	ND	
CWTP Inlet	28-Jun-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CWTP Inlet	5-Jul-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CWTP Inlet	12-Jul-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CWTP Inlet	19-Jul-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CWTP Inlet	26-Jul-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CWTP Inlet	2-Aug-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CWTP Inlet	9-Aug-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CWTP Inlet	16-Aug-16	ND	ND	ND	ND	ND	2	ND	ND	1	ND	
CWTP Inlet	23-Aug-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CWTP Inlet	30-Aug-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CWTP Inlet	6-Sep-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CWTP Inlet	13-Sep-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CWTP Inlet	20-Sep-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CWTP Inlet	27-Sep-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CWTP Inlet	4-Oct-16	ND	ND	ND	ND	ND	2	ND	1	ND	ND	
CWTP Inlet	11-Oct-16	ND	ND	ND	ND	ND	2	ND	ND	1	ND	
CWTP Inlet	18-Oct-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	

Table A1a: Quabbin and Wachusett Reservoir - Giardia and Cryptosporidium Results

Method: USEPA Method 1623.1

Location	SAMPLE Date	Crypto Concentration (Oocysts/100L)	# Recovered	# Empty Oocysts	# with Amorphous Structure	# with 1 internal Structure	<i>GIAR</i> DIA Concentration (cysts/100L)	# Recovered	# Empty cysts	# with Amorphous Structure	# with >= 1 internal Structures
CWTP Inlet	25-Oct-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CWTP Inlet	1-Nov-16	ND					ND				
CWTP Inlet	8-Nov-16	ND					ND				
CWTP Inlet	15-Nov-16	ND					ND				
CWTP Inlet	21-Nov-16	ND					ND				
CWTP Inlet	29-Nov-16	ND					ND				
CWTP Inlet	6-Dec-16	ND					ND				
CWTP Inlet	13-Dec-16	ND					ND				
CWTP Inlet	20-Dec-16	ND					ND				
CWTP Inlet	27-Dec-16	ND					ND				

Table A1a: Quabbin and Wachusett Reservoir - Giardia and Cryptosporidium Results

Method: USEPA Method 1623.1

<sup>Location</sup>	SAMPLE Date	Grypto Concentration (Oocysts/100L)	# Recovered	# Empty Oocysts	# with Amorphous Structure	# with 1 internal Structure	GARDIA Concentration (cysts/100L)	# Recovered	# Empty cysts	# with Amorphous Structure	# with >= 1 internal Structures	Testing Lab	
WDF	5-Jan-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
WDF	19-Jan-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
WDF	2-Feb-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
WDF	16-Feb-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
WDF	1-Mar-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
WDF	15-Mar-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
WDF	29-Mar-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
WDF	12-Apr-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
WDF	26-Apr-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
WDF	10-May-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
WDF	24-May-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	matrix spike	C 38%, G 49%
WDF	7-Jun-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
WDF	21-Jun-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
WDF	5-Jul-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
WDF	19-Jul-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
WDF	2-Aug-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
WDF	16-Aug-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
WDF	30-Aug-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
WDF	13-Sep-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
WDF	27-Sep-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
WDF	11-Oct-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
WDF	25-Oct-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
WDF	8-Nov-16	ND					ND						
WDF	21-Nov-16	ND					ND						
WDF	6-Dec-16	ND					ND						
WDF	20-Dec-16	ND					ND						

## Table A1a: Quabbin and Wachusett Reservoir - Giardia and Cryptosporidium Results Method: USEPA Method 1623.1

Reported concentration are in oocysts/100L for Cryptosporidium and cysts/100L for Giardia.

Other results are reported as oocysts/50L for Cryptosporidium and cysts/50L for Giardia.

Testing Lab: Analytical Services Inc. since April 17, 2012

EPA Method 1623.1 initiated September 2014.

\*The Wachusett Giardia/Crypto sample location was changed from Cosgrove to CWTP Inlet on 04/01/08. The CWTP Inlet is a sampling location that represents the source water and is immediately prior to water treatment.

The Quabbin Giardia/Crypto sample location was changed from WPS to WDF on 2/06/07 due to valve repair work being performed at WPS. The work was completed on 8/15/07. The sampling will continue to be performed at WDF because it is (1) an easier sampling location and (2) a better sampling tap.

Old WPS= Winsor Power Station

Old WPS= Winsor Power Station
WDF = Ware Disinfection Facility

BWTF = Brutsch Water Treatment Facility