

LS T1 LS Table 1

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Approval and Periodic Review Signatures

Type	Description	Date	Version	Performed By	Notes
Approval	Lab Director	15-Apr-2025	11.0	<i>LTC James E Johnson</i> James Johnson	
Approval	Deputy Director, Review	14-Apr-2025	11.0	<i>Dr. Olumuyiwa Adesoye</i> Olumuyiwa Adesoye	
Approval	Quality Assurance Officer, Review	11-Apr-2025	11.0	<i>Matthew Gigantino</i> Matthew Gigantino	

Signatures from prior revisions are not listed.

Approvals and periodic reviews that occurred before this document was added to Document Control may not be listed.

Version History

Version	Status	Type	Date Added	Date Effective	Date Retired
11.0	Approved and Current	Major revision	11-Apr-2025	25-Apr-2025	Indefinite

Public Health Command Europe

Laboratory Sciences



Table 1

How to use this guide:

Section I – Directory

This section is a quick reference for searching methodology by analyte type. Both the analyte text on the left and the method text on the right link to the corresponding method specification table.

Methodologies are sorted by specialty, and color-coded as follows:

Organic Chemistry, Inorganic Chemistry, Microbiology, Molecular Biology, Immuno-histology

Section II – Method Specifications

This second section provides specific details regarding each individual test method including hold times, limits of quantitation, sample parameters, and the analytes that may be measured under the method. These method specifications may be accessed by clicking the links in the Directory sections. Conversely, links at the bottom of each page will take you back to the various sections from which you came. Also, you may freely scroll through this document to browse all profiles and methods.

DISCLAIMER:

This document represents an attempt to provide all of the most accurate information regarding analytical services offered by PHCE LS to its customers in one convenient source; however, accredited testing services can only be guaranteed through the official source documents: LS Scopes of Accreditation or Contract Laboratory (CL) Price Lists.

LS will address any discrepancies regarding the information below during customer contact review using LS Form 1 Request for Laboratory Services (RLS).

Customers may also confirm analytical capabilities in advance through inquiry to usarmy.landstuhl.phc-europe.mbx.ls-hotline@health.mil or +49 (06371) 9464-9710 (DSN: 314-590-9710).

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Directory:

ORGANIC ANALYSES		
Sample Matrices: Potable Water = PW, Non-Potable Water = NPW, Ice = I, Soils = S, Air = A		
Acrylamide	PW, NPW	DIN 38413-6 (P6): 2007-02
Atrazine and Simazine	PW, NPW	EPA 505 (Modified)
Carbamate Pesticides	PW, NPW	EPA 531.2
Glyphosate and Aminomethylphosphonic Acid (AMPA)	PW, NPW	EPA 547
Chlorinated Acid Herbicides (Herbicides I)	PW, NPW	EPA 515.4
Chlorophenoxyacetic Acid Herbicides	S	DIN 38407-35 (F35): 2010-10
Pesticides	PW, NPW	DIN 38407-35 (F35): 2010-10
Pesticides	PW, NPW	DIN EN ISO 6468 (F1): 1997-02
Phenols	PW, NPW	DIN EN 12673 (F15): 1999-05
Di(2-ethylhexyl) adipate / Di(2-ethylhexyl) phthalate	PW, NPW	EPA 525.2
Phthalates and Adipates	PW, NPW	Internal Method
Ethylene Dibromide / Dibromochloropentane (EDB/DBCP)	PW	EPA 504.1
Epichlorohydrine	PW, NPW	DIN EN 14207 (P9): 2003-09
Explosives and Related Compounds	S	DIN ISO 11916-1: 2014-11
Haloacetic Acids (HAA5s)	PW, NPW	EPA 552.3
Organohalide Pesticides / PCBs	PW, NPW	EPA 505
Poly-Chlorinated Biphenyls (PCBs)	S	EN 15308: 2016-12
Pesticides (Glyphosate and AMPA)	PW, NPW	DIN ISO 16308 (F 45): 2017-09
Pesticides / Herbicides	PW, NPW	DIN 38407-36 (F36): 2014-09
Endothall	PW	Internal Method
Paraquat and Diquat	PW	Internal Method
Mineral Oil Content (MOC)	S	DIN EN 14039: 2005-01 /
Hydrocarbon-Index (HOI)	PW, NPW	DIN EN ISO 9377-2 (H53): 2001-07
Polycyclic Aromatic Hydrocarbons (PAHs)	PW, NPW	EPA 550
Polycyclic Aromatic Hydrocarbons (PAHs)	PW, NPW, Sludges	DIN 38407-39 (F39): 2011-09
Polycyclic Aromatic Hydrocarbons (PAHs)	S	DIN ISO 18287: 2006-05
Poly-Fluorinated Alkyl Substances (PFAS)	PW	EPA 537.1
Poly-Fluorinated Compounds (PFCs)	PW, NPW	DIN 38407-42 (F42): 2011-03
Volatile Organic Compounds (VOCs)	PW	EPA 524.4
Chlorobenzenes (Benzylic VOCs)	PW, NPW	DIN 38407-2 (F2): 1993-02 (MSD)
Volatile Organic Compounds (VOCs)	NPW, S	EPA 8260D
Semi-volatile Compounds (SVOCs) / Plasticizers	PW, NPW	EPA 525.2 (Modified)
2,3,7,8-Tetrachlorodibenzo-p-dioxin (Dioxin)	PW	EPA 1613 B: 1994-10

INORGANIC ANALYSES		
Sample Matrices: Potable Water = PW, Non-Potable Water = NPW, Ice = I, Soils = S, Air = A		
Acid and Base-Neutralizing Capacities	PW, NPW	DIN 38409-7 (H7-2): 2005-12
Alkalinity	PW, NPW	SM 2320B (Modified)
Ammonia/Ammonium	PW, NPW	ASTM D6919
Ammonium	PW, NPW	DIN 38406-5 (E5): 1983-10
Adsorbable Organic Halides (AOX)	PW, NPW	DIN EN ISO 9562 (H 14): 2005-02
Anions	PW, NPW, I	EPA 300.0

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Dissolved Anions	PW, NPW	DIN EN ISO 10304-1 (D20): 2009-07
Fluoride	PW, NPW	DIN 38405-4 (D4): 1985-07
Asbestos	A	VDI 3492: 2013-06
Bromate	PW, NPW	DIN EN ISO 15061: 2001-12
Chlorine	PW	SM 4500-Cl-G
Chlorine	PW, NPW	DIN EN ISO 7393-2: 2000-04
Chlorite	PW, NPW	DIN EN ISO 10304-4 (D25):1999-07
Chromium (VI)	PW, NPW	DIN ISO 15923-1: 2014-07
Color	PW, NPW	SM 2120B
Conductivity	PW, NPW	SM 2510B
Cyanide	PW, NPW	DIN EN ISO 14403: 2012-10
Hardness	PW, NPW	SM 2340B
Langelier Saturation Index	PW	Handbook of Env. Analysis
Metals	PW, NPW	EPA 200.7
Metals	PW, I	EPA 200.8
Metals	PW, NPW	DIN EN ISO 17294-2 (E29): 2017-01
Uranium	PW, NPW, S	DIN EN ISO 17294-2 (E29): 2017-01
Metals	S	DIN EN ISO 17294-2 (E29): 2017-01
Mercury	S, other solids	DIN EN ISO 12846 (E12): 2012-08
Nitrogen (Kjeldahl)	PW, NPW	DIN EN 25663: 1993-11
Odor	PW, NPW	SM 2150B
Permanganate index	PW, NPW	DIN EN ISO 8467: 1995-05
pH	PW, NPW	EPA 150.1
Phenol Index, steam volatile	PW, NPW	DIN EN ISO 14402 (H37): 1999-12
Phosphates	PW, NPW	DIN EN ISO 6878 (D11): 2004-09
Surfactants (Anionic) / (MBAS)	PW, NPW	DIN EN 903 (H24): 1994-01
Surfactants (Cationic and Nonionic)	PW, NPW	DIN 38409-H23: 2010-12
Total Dissolved Solids (TDS)	PW, NPW	SM 2540C
Total Dissolved Solids (TDS)	PW, NPW	DIN EN 15216: 2008-01
Total Dry Residue (105 °C)	PW, NPW	DIN 38409-H1-1: 1987-01
Total Organic Carbon (TOC)	PW, NPW	DIN EN 1484 (H3): 2019-04
Total Nitrogen Bound	PW, NPW	DIN EN 12260 (H34): 2003-12
Total Suspended Solids	PW, NPW	SM 2540D
Total Suspended Solids	PW, NPW	DIN EN 872: 2005-04
Turbidity	PW, NPW, I	EPA 180.1
Water Quality, Selected Parameters	PW, NPW	DIN ISO 15923-1 (D49): 2014-07

MICROBIOLOGICAL ANALYSES	
Aerobic Plate Count (APC) enumeration	Internal Method – BA07
Bacillus cereus enumeration	Internal Method – BA10
Bacillus cereus enumeration	AOAC RI 071401 – BA42
Campylobacter jejuni enrichment and isolation	Internal Method – BA38
Clostridium perfringens Enumeration	Internal Method – BA17
Coliforms, Total Enumeration	APHA 9215D/9222 (Modified) – BA24
Coliforms, Total Enumeration	Internal Method – BA05
Enterococcus spp. Enumeration	APHA 9230C (Modified) – BA24
Escherichia coli Enumeration	EPA 1603 (Modified) – BA24
Escherichia coli Enumeration	Internal Method – BA05

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Escherichia coli O157:H7 Enrichment and Isolation	Internal Method – BA14	
Heterotrophic Plate Count (HPC)	APHA 9215 (Modified) – BA24	
Heterotrophic Plate Count (HPC)	SM 9215E – BA43	
Listeria monocytogenes Enrichment and Isolation	Internal Method – BA09	
Pseudomonas aeruginosa Enumeration	APHA 9213E (Modified) – BA24	
Salmonella spp. Enrichment and Isolation	Internal Method – BA13	
Salmonella spp. Enrichment and Isolation	Internal Method – BA46	
Standard Plate Count (SPC) Enumeration	Internal Method – BA07	
Staphylococcus aureus Enumeration	Internal Method – BA16	
Yeast and Mold Enumeration	Internal Method – BA18	
CONFIRMATORY ANALYSES		
Identification of Micro-organisms by VITEK	Internal Method - BA11	
Identification of Micro-organisms by VIDAS	Internal Method - BA12	
MOLECULAR ANALYSES		
Arthropod Vector-borne disease detection by RT rt-PCR	Internal Method - BA35	
Arthropod Vector-borne disease detection by rt-PCR	Internal Method - BA35	
Rabies detection by rt-PCR	Internal Method - BA48	
IMMUNOHISTOLOGICAL ANALYSES		
Rabies detection by Direct Fluorescent Antibody (DFA)	Internal Method - BA29	
OTHER* (DCPH-A)		
Sample Matrices: Potable Water = PW, Non-Potable Water = NPW, Ice = I, Soils = S, Air = A		
Gross Alpha/Beta	PW, NPW	EPA 900.0
Perchlorate (Explosives)	PW	EPA 331
Per- and polyfluoroalkyl substances (PFAS)	PW	EPA 533
Radium-226	PW, NPW	EPA 600/4-75-008
Radium-228	PW, NPW	EPA 520/5-4-006RA-05
Tritium	PW, NPW	SM 306

*Contact PHCE LS for further information

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Section II: Method Specifications

ORGANIC ANALYSIS						
DIN 38413-6 (P6): 2007-02 - OUTSOURCED CHEMICAL ANALYSIS						
Acrylamide in potable and non-potable water by LC-MS						
Analytes	LOQ		Hold Time	Container	Preservation	Item #
Acrylamide	0.05	ug/L	1 day from collection un-preserved Or 7 days preserved	Amber glass bottle, 500mL	Fill bottle completely. Store at 1-6 °C and protected from light. Preserve with 40 mg/l sodium azide.	AN1KM-1

ORGANIC ANALYSIS					
EPA 505 (Modified)					
Atrazine and Simazine in potable and non-potable water by GC/MS					
Analytes	LOQ		Hold Time	Container	Preservation
Atrazine	0.10	µg/L	14 days from collection	2 X 40mL amber glass vials with PTFE-lined caps	Sample vials are pre-preserved by adding 3mg sodium thiosulfate to each vial prior to sample collection. Do not rinse or overfill vials.
Simazine				OR bottled water in original, sealed bottle containing ≥ 80mL	Chill samples immediately and store at 1-6 °C. Bottled water is exempt from preservation and storage requirements.

ORGANIC ANALYSIS					
EPA 531.2					
Carbamate Pesticides in potable and non-potable water by HPLC/FLD/PCX					
Analytes	LOQ		Hold Time	Container	Preservation
Aldicarb	0.10	µg/L	28 days from collection	2 X 40mL amber glass vials with PTFE-lined caps	Sample vials are pre-preserved by adding 4.0 ± 0.5mg sodium thiosulfate and 400 ± 10mg potassium dihydrogen citrate to each vial prior to sample collection. Samples must be pH < 4. Do not rinse or overfill vials.
Aldicarb Sulfone				OR	
Aldicarb Sulfoxide				bottled water in original, sealed bottle containing ≥ 80mL	Chill samples immediately and store at 1-6 °C, protected from light.
Baygon (Propoxur)					
Carbaryl					
Carbofuran					
3-Hydroxycarbofuran					
Methiocarb					
Methomyl					
Oxamyl (Vydate)				If also requesting analysis by EPA 547, one set of samples	Bottled water is exempt from preservation and storage requirements.

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				can be provided for both EPA 531.2 and EPA 547 analyses.	
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ORGANIC ANALYSIS					
EPA 547					
Glyphosate and Aminomethylphosphonic Acid in potable and non-potable water by HPLC/FLD/PCX					
Analytes	LOQ		Hold Time	Container	Preservation
Glyphosate				2 X 40mL amber glass vials with PTFE-lined caps	
Aminomethylphosphonic Acid (AMPA)	5.0	µg/L	14 days from collection	OR bottled water in original, sealed bottle containing ≥ 80mL If also requesting analysis by EPA 531.2, one set of samples can be provided for both EPA 547 and EPA 531.2 analyses.	Sample vials are pre-preserved by adding 4.0 ± 0.5mg sodium thiosulfate and 400 ± 10mg potassium dihydrogen citrate to each vial prior to sample collection. Samples must be pH < 4. Do not rinse or overfill vials. Store samples at 1-6 °C, protected from light. Bottled water is exempt from preservation and storage requirements.

ORGANIC ANALYSIS					
EPA 515.4					
Chlorinated Acid Herbicides (Herbicides I) in potable and non-potable water by GC/ECD					
Analytes	LOQ		Hold Time	Container	Preservation
Bentazon				3 X 40mL amber glass vials with PTFE-lined caps	
2,4-D				OR	
Dichlorprop				bottled water in original, sealed bottle containing ≥ 120mL	
Dinoseb					
Pentachlorophenol	0.50	µg/L	14 days from collection		Sample vials are pre-preserved by adding 3±1 mg sodium sulfite to each vial prior to sample collection. Do not rinse or overfill vials.
Picloram					Chill samples immediately and store at 1-6 °C.
2,4,5-T					Bottled water is exempt from preservation and storage requirements.
2,4,5-TP (Silvex)					

ORGANIC ANALYSIS					
DIN ISO 16308 (F 45): 2017-09 - OUTSOURCED CHEMICAL ANALYSIS					
Pesticides in potable and non-potable water by LC-MS					

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Analytes	LOQ		Hold Time	Container	Preservation	Item #
Glyphosate	0.05	µg/l	5 days from collection	Brown glass bottles, 2X1L	Unpreserved	JT01I-2
AMPA					Store samples at 1-6 °C	JT01V-2
Basic price pesticides LCMS GAG run (water) – LC Injection	N/A		N/A			AN31P-1

ORGANIC ANALYSIS						
DIN 38407-35 (F35): 2010-10 - OUTSOURCED CHEMICAL ANALYSIS						
Chlorophenoxyacetic Acid Herbicides in soils by LC-MS						
Analytes	LOQ		Hold Time	Container	Preservation	Item #
2,4,5-Trichlorophenoxyacetic acid (Leachate)	0.02	µg/l	3 weeks from collection	Glass bottles, 8oz.	Add 50 mg of sodium thiosulfate pentahydrate per liter.	JT0IX-1
2,4-Dichlorophenoxyacetic acid (Leachate)					Store samples at 4 °C	JT0IV-1
Preparation of leachate by DIN EN 12457-4: 2003-01	N/A		N/A	N/A		AN071-1
Dry matter (105 °C) ma.-% by DIN EN 14346: 2007-03	0.1	% (w/w)				AN01C-1
Basic price pesticides LCMS (soils)	N/A					AN32R-1

ORGANIC ANALYSIS						
DIN 38407-35 (F35): 2010-10 - OUTSOURCED CHEMICAL ANALYSIS						
Pesticides in potable and non-potable water by LCMS						
Analytes	LOQ		Hold Time	Container	Preservation	Item #
Pesticides LCMS Run (water)	N/A		N/A			AN31H-1
MCPA	0.02	µg/L	7 days from collection	Brown glass bottles, 125mL	Unpreserved Store samples at 1-6 °C	AN11N-1
Dicamba	0.05					AN11P-1
MCPB	0.02					AN11R-1
Prothioconazole	0.025					AN12E-1
Metazachlor oxanilic acid						AN12F-1
Bromoxynil	0.02					AN12G-1
Dinoterb						AN16G-1
Fluazifop						AN16I-1
Fluazinam	0.025					AN17L-1
Metolachlor OA	0.025	AN17W-1				
Dikegulac	0.02	AN17Z-1				
Ioxynil	µg/L	AN18T-1				
Methoxyfenozide		0.025				AN18Y-1
Dichlorprop		0.02				AN19B-1
Haloxypop						AN19E-1
Fenoprop						AN19F-1
DNOC						AN1A8-1
Dinoseb		0.025				AN1A9-1
Clothianidin						AN1B4-1
Triclopyr		0.02				AN1BJ-1
2,4-Dichlorophenoxyacetic acid (2,4-D)	0.06	AN43S-1				
Clopyralid	0.09	AN43V-1				
Dimethachlor Metabolite SYN 528702	0.02	AN5TY-1				

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Tritosulfuron Metabolite BH 635-2/635M02					AN62F-1
Bentazone-8-hydroxy					AN63V-1
Flumioxazin 482-HA					AN63X-1
Dicamba	0.06				AN75U-1
MCPA					AN75V-1
Dichlorprop					AN9GC-1
Mecoprop					ANE0J-1
Mecoprop	0.02				JT01Y-1
Bentazone	0.06				AN43U-1
Bentazone					JT01W-1
Fluroxypyr	0.02				JT03H-1
Clopyralid	0.05				JT03Y-1
2,4,5-Trichlorophenoxyacetic acid (2,4,5-T)					JT03Z-1
2,4-Dichlorophenoxyacetic acid (2,4-D)	0.02				JT040-1
2,4-DB					JT041-1
Dalapon	0.05				JT042-1
Chlorothalonilsulfonic acid M12 (R 417888)					JT048-1
Dimethachlor-metabolite CGA 50266	0.02				JT049-1
Dimethachlor-metabolite CGA 354742					JT04A-1
Flufenacet-sulfonic acid M2					JT04B-1
Dimethenamidsulfonic acid M27	0.025				JT04C-1
Metalaxyl-metabolite CGA 108906					JT04D-1
Metalaxylacid CGA 62826 / NOA 409045	0.02				JT04E-1
Metolachlor CGA 368208					JT04G-1
Metazachlor ethanesulfonic acid BH 479-8	0.05				JT04I-1
Metolachlorsulfonic acid (CGA 380168 / CGA 354743)					JT04J-1
Quizalofop	0.025				JT098-1
Dimethenamid Metabolite M23					JT09I-1
Fenoxaprop	0.02				JT0A8-1
Dimethachlor-metabolite CGA 369873	0.025				JT0AB-1
Metazachlor BH 479-12	0.02				JT0AC-1
Metolachlor CGA 357704					JT0AD-1
Fludioxonil	0.025				JT0D5-1
Tebufenozide					JT0D5-1
Teflubenzuron	0.025				JT0DU-1
Chlorthalonil Metabolite R611965	0.05				JT0GL-1
Dimethachlor Metabolite CGA 373464	0.025				JT0GM-1
Metazachlor BH 479-9					JT0GN-1
Tritosulfuron Metabolite BH 635-4 / 635M01	0.02				JT0GP-1
3,5,6-Trichloro-1H-pyridin-2-one (TCPy)	0.05				JT0GR-1
Acifluorfen					JT0GS-1
Alachlor ESA	0.025				JT0GT-1
Alachlor OXA					JT0GU-1
Azoxystrobin R234886	0.02				JT0GZ-1
Benazolin					JT0H0-1
Diclofop	0.025				JT0H1-1

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Dimethachlor Metabolite SYN 530561	0.02				JT0H2-1
Dimethenamid Metabolite M32	0.05				JT0H3-1
Dimoxystrobin Metabolite 505M08	0.025				JT0HB-1
Dimoxystrobin Metabolite 505M09					JT0HC-1
Topramezone M670H05					JT0HG-1
Flamprop					JT0HH-1
Flufenacet OXA					JT0HI-1
Metolachlor CGA 37735	0.02				JT0HP-1
S-Metolachlor CGA 50267	0.05				JT0HQ-1
Metolachlor CGA 50720	0.02				JT0HR-1
Metsulfuron	0.025				JT0HT-1
Pethoxamid MET-42	0.02				JT0HU-1
Picoxystrobin M3	0.025				JT0HV-1
Picoxystrobin M8					JT0HW-1
Quinclorac	0.05				JT0I1-1
Quinmerac BH518-5					JT0I2-1
Tepraloxydim	0.025				JT0I3-1
Terbuthylazine CGA 324007					JT0I4-1
Terbuthylazine SYN 545666					JT0I5-1
Thiacloprid M30					JT0I8-1
Thifensulfuron	0.05				JT0IA-1
Triclosan					JT0IB-1
Acetochlor ESA	0.02				JT1A0-1
Acetochlor OXA					JT1A1-1
Acetochlor SAA					JT1A2-1
Beflubutamid					JT1A3-1
Butachlor ESA					JT1A4-1
Butachlor OXA					JT1A5-1
Chlorothalonil-4-hydroxy					JT1A6-1
2-(3-Trifluormethylphenoxy)-Nikotinic-acid AE-B107137 / Diflufenican-AE-B107137					JT1A7-1
2-(2,4,6-Trichlorophenoxy)propanoic acid / Fenoprop-2,4,6					JT1A8-1
Imazamox					JT1A9-1
2-C-6-MPP / Mecoprop-2,6					JT1AA-1
Penoxsulam					JT1AB-1
Cyhalothrin Metabolite Ia					JT1AD-1
Propachlor OXA					JT1AE-1
Dimethenamid M54					JT1AF-1
Isoprazam CSCD459488					JT1AG-1
Propiconazole-NOA436613	0.02				JT1AH-1
Pyroxsulam-SA	0.02				JT1AI-1

ORGANIC ANALYSIS						
DIN EN ISO 6468 (F1): 1997-02 - OUTSOURCED CHEMICAL ANALYSIS						
Pesticides in potable and non-potable water by LCMS						
Analytes	LOQ		Hold Time	Container	Preservation	Item #
Pesticides Quechers run (water)	N/A		N/A			AN32T-1
Chlorpropham	0.01	µg/L	7 days from collection	Brown glass bottles, 1L	75±5 mg Sodium Thiosulfate. Store samples at 1-6 °C °C	AN17Q-2
Mevinphos						AN16R-1
Diphenylamine						AN1A4-2
Pyridaben						AN19C-2

Fenitrothion					AN18Q-1
Acrinathrin					AN1AK-2
Chlorothalonil					AN15P-1
Etofenprox					AN1AV-2
Dichlorvos					AN1LH-1
Etrimfos					JT03C-1
Fenthion					JT03P-1
Triazophos					JT0A6-1
Folpet					JT03V-1
Deltamethrin					JT03W-1
Oxadiazon					JT09F-2
Bromophos-methyl					JT09M-1
Bromophos-ethyl					JT09Q-1
Indoxacarb (sum, R+S isomers)					JT0D6-2
Iprodione					JT0DL-2
Spirodiclofen	0.02				JT0DR-2
Tolyfluanid					JT0EI-1
Fipronil					JT0JX-1
Tetradifon					JT0ML-1
Piperophos					JT0NC-1
alpha-Endosulfansulphate					JT0NG-1
Dicofol					JT0NI-1
Benfluralin					JT0PM-1
Bifenazate	0.02				JT0PP-1
Bifenthrin					JT0PQ-1
Bromopropylate	0.01				JT0PR-1
Captan	0.02				JT0PS-1
Chlorfenapyr					JT0PT-1
Chlormephos					JT0PU-1
Chlorthal-dimethyl					JT0PV-1
Cyanofenphos					JT0PW-1
Cyfluthrin (Total Isomers)					JT0Q2-1
Cypermethrin (and isomers)	0.02				JT0Q3-1
Biphenyl					JT0Q4-1
Diallate					JT0Q5-1
Diclofop-methyl					JT0Q6-1
Dicloran					JT0Q7-1
Dinoseb-acetate	0.02				JT0Q8-1
Ethofumesate-2-keto					JT0Q9-1
Etridiazole					JT0QA-1
Famoxadone					JT0QB-1
Fenpropathrin					JT0QC-1
Fipronil-sulfone					JT0QD-1
Fluchloralin					JT0QE-1
Fonofos					JT0QF-1
Myclobutanil (sum of constituent isomers)	0.01				JT0QG-1
Fenvalerate (mixture of isomers)					JT0T0-1
Clodinafop-propargyl					JT0TE-1
Cyhalothrin lambda-					JT0TF-1
Dichlofenthion					JT0TG-1
Dichlofluanid					JT0TH-1
Dichlorobenzophenone, o,p-					JT0TI-1
Dichlorobenzophenone, p,p-					JT0TJ-1
Dinoterb					JT0TK-1
Disulfoton					JT0TL-1
Dimethylphenylsulfamide (DMSA)					JT0TM-1
Dimethylaminosulphotoluidide (DMST)					JT0TN-1
Ethion					JT0TP-1
Fenamidone					JT0TQ-1

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Fenazaquin					JT0TR-1
Fenchlorphos					JT0TS-1
Fluazifop-butyl					JT0TT-1
Flucythrinate					JT0TU-1
Fludioxonil					JT0TV-1
Fluquinconazole					JT0TW-1
Formothion					JT0TX-1
Heptenophos					JT0TY-1
Isofenphos					JT0TZ-1
Isofenphos-methyl					JT0U0-1
Malaoxon					JT0U1-1
Mecarbam					JT0U2-1
Mepronil					JT0U3-1
Metrafenone					JT0U4-1
Metribuzin					JT0U5-1
Nitrofen					JT0U6-1
Nonachlor, cis-					JT0U7-1
Orbencarb					JT0U8-1
Oxyfluorfen					JT0U9-1
Paraoxon-ethyl					JT0UA-1
Paraoxon-methyl					JT0UB-1
Parathion-ethyl					JT0UC-1
Parathion-methyl					JT0UD-1
Pentachloranisole					JT0UE-1
Permethrin (sum of isomers)					JT0UF-1
Phenthoate					JT0UG-1
2-Phenylphenol					JT0UH-1
Phorate					JT0UI-1
Phthalimide (PI)					JT0UJ-1
Pirimiphos-ethyl					JT0UK-1
Profenofos					JT0UL-1
Profluralin					JT0UM-1
Propargite					JT0UN-1
Propham					JT0UP-1
Prothiofos					JT0UQ-1
Pyrazophos					JT0UR-1
Pyridaphenthion					JT0US-1
PyrifenoX					JT0UT-1
Quinalphos					JT0UU-1
Quintozene					JT0UV-1
Silthiofam					JT0UW-1
Spiromesifen					JT0UX-1
Fluvalinate (sum of isomers)					JT0UY-1
Tebutam					JT0UZ-1
Tecnazene					JT0V0-1
Tefluthrin					JT0V1-1
Tetramethrin					JT0V2-1
1,2,3,6-Tetrahydrophthalimide					JT0V3-1
Tolclofos-methyl					JT0V4-1
Nonachlor, trans-					JT0V5-1
Triallate					JT0V6-1
Trifluralin					JT0V7-1
Vinclozolin					JT0V8-1
Basic price GCMS run pesticides (water)	0.02				AN32S-1
HCH, gamma- (Lindane)					AN10S-1
HCH, alpha-					AN09V-1
HCH, beta-					AN09X-1
HCH, delta-					AN09Y-1
HCH, epsilon-					AN34N-1
Dichlobenil					AN09U-1
Aldrin					AN09Z-1
Hexachlorobenzene (HCB)					AN11E-1

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Heptachlor					AN11G-1
Heptachlor epoxide, cis-					AN11I-2
Dieldrin					AN11J-1
Endrin					AN11K-1
Mirex					AN11L-1
Methoxychlor					AN11M-1
Isodrin					AN11V-1
DDD, o,p-					AN12B-1
DDE, o,p-					AN12C-1
Endosulfan I (alpha-endosulfan)					AN12H-2
Alachlor					AN12J-1
Endosulfan II (beta-Endosulfan)					JT0AS-1
Heptachlor epoxide, trans-					JT092-1
Chlordane, trans-					JT09N-1
Chlordane, cis-					JT09P-1
DDD, p,p'-					JT09T-1
DDE, p,p'-					JT09U-1
DDT, o,p'-					JT09V-1
DDT, p,p'-					JT09W-1
Endrin-aldehyde					AN3KR-1
alpha-Endosulfansulphate					AN4S5-1

ORGANIC ANALYSIS					
DIN EN 12673 (F15): 1999-05 - OUTSOURCED CHEMICAL ANALYSIS					
Phenols in potable and non-potable water by GC-MS					
Analytes	LOQ	Hold Time	Container	Preservation	Item #
Pentachlorophenol	0.05	µg/L	1 L Amber Glass	None	AN0N0-1
Phenol					AN2JW-1
2,3,5,6-Tetrachlorophenol					AN2K8-1
2,3,4,6-Tetrachlorophenol					AN2KD-1
2,3,4,5-Tetrachlorophenol					AN2KE-1
3,4,5-Trichlorophenol					AN2KC-1
2,4,6-Trichlorophenol					AN2K2-1
2,4,5-Trichlorophenol					AN2KB-1
2,3,6-Trichlorophenol					AN2K0-1
2,3,5-Trichlorophenol					AN2JZ-1
2,3,4-Trichlorophenol					AN2JY-1
3,5-Dichlorophenol					AN2K5-1
3,4-Dichlorophenol					AN2K4-1
2,6-Dichlorophenol					AN2K9-1
Sum (2,4- and 2,5-Dichlorophenol)					AN2KA-1
2,3-Dichlorophenol					AN2K1-1
3-Chlorophenol (m-chlorophenol)					AN2K6-1
2-Chlorophenol (o-chlorophenol)					AN2K3-1
4-Methylphenol					AN2JU-1
3-Methylphenol					AN2KG-1
2-Methylphenol					AN2KF-1
4-Chlorophenol (p-chlorophenol)					AN2K7-1

ORGANIC ANALYSIS
EPA 525.2
Di (2-ethylhexyl) adipate / Di (2-ethylhexyl) phthalate in potable and non-potable water by GC/MS

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Analytes	LOQ		Hold Time	Container	Preservation
Di (2-ethylhexyl) adipate	3.0	µg/L	14 days from collection	2 X 1L amber glass bottles with PTFE-lined caps OR bottled water in original, sealed bottle(s) containing ≥ 2L	Sample bottles are pre-preserved by adding 40-50mg sodium sulfite to each bottle prior to sample collection and acidified to pH <1.9 with 6N HCL. Do not rinse or overfill bottles. Chill samples immediately and store at 1-6 °C, protected from light. Bottled water is exempt from preservation and storage requirements.
Di (2-ethylhexyl) phthalate					

ORGANIC ANALYSIS						
Internal Method - OUTSOURCED CHEMICAL ANALYSIS						
Phthalates and Adipates in potable and non-potable water by GC/MS						
Analytes		LOQ	Hold Time	Container	Preservation	Item #
Benzyl butyl phthalate (BBP)	0.125	µg/L	14 days from collection	Brown glass bottle, 1L	Unpreserved Store samples at 1-6 °C.	SFDT0-4
Di(2-ethylhexyl) adipate (DEHA)	0.5					
Dibutyl adipate (DBA)	0.25					
Dibutyl phthalate (DBP)	1					
Diethyl adipate (DEA)	0.25					
Diethyl hexyl phthalate (DEHP)	1					
Diethylphthalate (DEP)	0.25					
Diisobutyl adipate (DIBA)						
Diisobutylphthalate	0.5					
Diisodecyl phthalate (DIDP)	5					
DiisoHeptylphthalate (DiHP)						
Dimethyl phthalate (DMP)	0.1					
DINCH	0.5					
Di-n-octylphthalate (DNOP)	0.25					
Dinonylphthalate (Sum of DINP and DNNP)	5					
Dipentylphthalate (Sum of DIPP und DNPP)	0.5					
Tributyl phosphate (TBP)	0.1					
Tributyl-O-Acetylcitrate (ATBC)	0.5					
Triisobutyl phosphate (TIBP)						

ORGANIC ANALYSIS					
EPA 504.1					
Dibromochloropentane / Ethylene Dibromide in potable water by GC					
Analytes	LOQ		Hold Time	Container	Preservation
1,2-Dibromo-3-chloropropane (DBCP)	0.010	µg/L	14 days from collection	3 X 40mL amber glass vials with PTFE-lined caps OR bottled water in original,	Sample vials are pre-preserved by adding 3mg sodium thiosulfate to each vial prior to sample collection. Collect sample free of air bubbles. Do not rinse or overfill vials. Chill samples immediately and store at 1-6 °C.
1,2-Dibromoethane (EDB)					

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				sealed bottle containing $\geq 120\text{mL}$ If also requesting analysis by EPA 505, one set of samples can be provided for both EPA 504.1 and EPA 505 analyses.	Bottled water is exempt from preservation and storage requirements.
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ORGANIC ANALYSIS						
DIN EN 14207 (P9): 2003-09 - OUTSOURCED CHEMICAL ANALYSIS						
Epichlorohydrine in potable and non-potable water by GC-MS						
Analytes	LOQ		Hold Time	Container	Preservation	Item #
Epichlorohydrine	0.03	$\mu\text{g/l}$	48 hours from collection	Brown glass bottles, 250mL	Unpreserved Store samples at 1-6 °C.	AN0VW-1

ORGANIC ANALYSIS						
DIN ISO 11916-1: 2014-11 - OUTSOURCED CHEMICAL ANALYSIS						
Explosives and Related Compounds in soils by liquid chromatography and UV detection						
Analytes	LOQ		Hold Time	Container	Preservation	Item #
Sample Prep by DIN 19747:2009-07	0.10	%	7 days	32 Glass Amber bottles	Unpreserved Store samples at 1-6 °C.	AN0FY-1
Nitroaromatics nonpolar HPLC Run	N/A					AN3HX-1
2,6-Diamino-4-nitrotoluene	0.2	mg/kg dw				AN52U-1
1-Ethyl-2-nitrobenzene	0.1					AN3AS-1
1-chloro-4-nitrobenzene	0.2					AN1L5-1
1-chloro-3-nitrobenzene	0.2					AN1L4-1
1-chloro-2-nitrobenzene	0.2					AN1L3-1
Hexahydro-1-nitroso-3,5-dinitro-1,3,5-triazine	0.2					AN1JN-1
Tetryl	0.5					AN1H0-1
Octagen	0.1					AN1GZ-1
PETN (Nitropenta)	0.5					AN1GY-1
Nitroguanidine	0.5					AN1GX-1
Nitroglycerine	0.5					AN1GW-1
Nitrobenzene	0.5					AN1GV-1
Hexyl	0.2					AN1GU-1
Hexogen (RDX)	0.1					AN1GT-1
Ethylene glycol dinitrate (EGDN)	0.5					AN1GS-1
Diphenylamine (DPA)	0.2					AN1GR-1
Diethylene glycol dinitrate (DEGN)	0.5					AN1GQ-1
Centralit-II	0.1					AN1GP-1
Diethylcentralite (Centralit-I)	0.1					AN1GN-1
Akardit-II	0.1					AN1GL-1

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Acardit-I	0.1				AN1GK-1
6-Amino-2-nitrotoluene	0.2				AN1GJ-1
6-Amino-2,4-dinitrophenol	1				AN1GI-1
4-Nitrotoluene	0.5				AN1GH-1
4-Nitrodiphenylamine	1				AN1GG-1
4-Aminiotoluene (p-Toluidine)	0.2				AN1GF-1
4-Amino-2-nitrotoluene	0.2				AN1GE-1
4-amino-2,6-dinitrotoluene	0.1				AN1GD-1
4-Amino-1-nitrobenzene	0.2				AN1GC-1
3-Nitrotoluene	0.5				AN1GA-1
4,6-Diamino-2-nitrotoluene	0.2				AN1GB-1
2-amino-4,6-dinitrotoluene	0.1				AN1FZ-1
2-Amino-4-nitrotoluene	0.2				AN1GO-1
2-Aminotoluene (o-Toluidine)	0.2				AN1G1-1
2-Nitrodiphenylamine	1				AN1G2-1
2-Nitronaphthalene	1				AN1G3-1
2-Nitrotoluene	0.2				AN1G4-1
3,4-Dinitrotoluene	0.2				AN1G5-1
3,5-Dinitroaniline	0.1				AN1G6-1
3,5-Dinitrotoluene	0.2				AN1G7-1
3-Amino-1-nitrobenzene	0.2				AN1G8-1
3-Aminotoluene (m-Toluidine)	0.2				AN1G9-1
2-Amino-1-nitrobenzene	0.2				AN1FY-1
2,6-Dinitrotoluene	0.1				AN1FX-1
2,6-Diaminotoluene	0.2				AN1FW-1
2,5-Dinitrotoluene	0.2				AN1FV-1
2,4-Dinitrotoluene	0.1				AN1FU-1
2,4-Dinitrodiphenylamine	1				AN1FT-1
2,4-Diaminotoluene	0.2				AN1FS-1
2,4,6-Trinitrotoluene (TNT)	0.1				AN1FR-1
2,4,6-Trinitrophenol	0.5				AN1FQ-1
2,4,5-Trinitrotoluene	0.1				AN1FP-1
2,3-Dinitrotoluene	0.2				AN1FN-1
2,3-Diaminotoluene	0.2				AN1FM-1
2,3,4-Trinitrotoluene	0.1				AN1FL-1
2,2'-Dinitrobiphenyl	0.5				AN1FK-1
1-Nitronaphthalene	1				AN1FJ-1
1,8-Dinitronaphthalene	1				AN1FI-1
1,5-Dinitronaphthalene	1				AN1FH-1
1,4-Dinitrobenzene	0.2				AN1FG-1
1,4-Diaminobenzene	1				AN1FF-1
1,4,5-Trinitronaphthalene	0.1				AN1FE-1
1,3-dinitronaphthalene	1				AN1FD-1
1,3-Dinitrobenzene	0.1				AN1FC-1
1,3-Diaminobenzene	0.2				AN1FB-1
1,3,8-Trinitronaphthalene	0.1				AN1FA-1
1,2-Dinitrobenzene	0.2				AN1F8-1
1,3,5-trinitrobenzene	0.1				AN1F9-1

ORGANIC ANALYSIS					
EPA 552.3					
Haloacetic Acids (HAA5s) in potable and non-potable water by GC/ECD					
Analytes	LOQ		Hold Time	Container	Preservation
Dalapon	0.3	µg/L	14 Days from Collection	3 X 40mL amber glass vials with PTFE-lined caps OR	Sample vials are pre-preserved by adding 5mg ammonium chloride to each vial prior to sample collection. Do not rinse or overfill vials.
Dibromoacetic Acid	3.0				
Dichloroacetic Acid					
Monobromoacetic Acid					

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Monochloroacetic acid				bottled water in original, sealed bottle containing $\geq 120\text{mL}$	Chill samples immediately and store at $1-6\text{ }^{\circ}\text{C}$, protected from light. Bottled water is exempt from preservation and storage requirements.
Trichloroacetic acid					
Total HAA5s	15.0	$\mu\text{g/L}$			

ORGANIC ANALYSIS					
EPA 505					
Organohalide Pesticides / Fungicides / PCBs in potable and non-potable water by GC					
Analytes	LOQ		Hold Time	Container	Preservation
Heptachlor	0.02	$\mu\text{g/L}$	7 days from collection	3 X 40mL amber glass vials with PTFE-lined caps <u>OR</u> bottled water in original, sealed bottle containing $\geq 120\text{mL}$	Collect sample free of air bubbles. Sample vials are pre-preserved by adding 33 ± 1 mg sodium thiosulfate to each vial prior to sample collection. Do not rinse or overfill vials. Chill samples immediately and store at $1\text{-}6\text{ }^{\circ}\text{C}$. Bottled water is exempt from preservation and storage requirements.
Alachlor					
Aldrin					
Dieldrin					
Endrin					
Heptachlor Epoxide					
Hexachlorobenzene					
Hexachlorocyclopentadiene					
Lindane (gamma-BHC)					
Methoxychlor					
Chlordane	0.10				
Toxaphene	0.20				
PCB (as Aroclors)	0.20				
PCB-1016					
PCB-1221					
PCB-1232					
PCB-1242					
PCB-1248					
PCB-1254					
PCB-1260					

ORGANIC ANALYSIS						
EN 15308: 2016-12 - OUTSOURCED CHEMICAL ANALYSIS						
Poly-Chlorinated Biphenyls in soils and solids by GC-MS						
Analytes	LOQ		Hold Time	Container	Preservation	Item #
PCB 28	0.01	mg/kg dw	5 days from collection	Glass bottle, 8oz.	Unpreserved, Store samples at 1-6 °C	AN01G-1
PCB 52						
PCB 101						
PCB 153						
PCB 138						
PCB 180						
Total 6 ndl-PCB (lower-bound)						
PCB 118						
PCB (7) Sum)						

ORGANIC ANALYSIS					
DIN 38407-36 (F36): 2014-09 - OUTSOURCED CHEMICAL ANALYSIS					
Pesticides / Herbicides in potable and non-potable water by LCMS					
Analytes	LOQ	Hold Time	Container	Preservation	Item #

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Pesticides LCMS Run (water)	N/A		N/A			
Metolachlor	0.025	µg/L	7 days from collection	Brown glass bottle, 1L	Unpreserved Store samples at 1-6 °C	AN31H-1
Chloridazon-desphenyl						AN11D-1
N,N-Dimethylsulfamide						AN11H-1
Dimethoate						AN12Q-1
Disulfoton						AN14W-1
Pendimethalin						AN14X-1
Propargite						AN14Y-1
Diflubenzuron						AN14Z-1
Quinoxifen						AN15A-1
Prosulfocarb						AN15B-1
Fenarimol						AN15C-1
Phosmet						AN15D-1
Neburon						AN15E-1
Diniconazole						AN15F-1
Pirimiphos-methyl						AN15G-1
Quinmerac						AN15H-1
Myclobutanil (sum of constituent isomers)						AN15J-1
Propazine						AN15K-1
Fenuron						AN15L-1
Fenoxycarb	AN15M-1					
Dimefuron	AN15N-1					
Propiconazole (sum of isomers)	AN15Q-1					
Triforine	AN15R-1					
Fenpropimorph	AN15S-1					
Dimethomorph	AN15T-1					
Epoxiconazole	AN15U-1					
Rotenone	AN15V-1					
Mesotrione	AN15W-1					
Sulcotrione	AN15X-1					
Monocrotophos	AN15Y-1					
Cyromazine	AN16A-1					
Terbutryn	AN16B-1					
Disulfoton-sulfoxide	AN16C-1					
Methidathion	AN16D-1					
Demeton-S-methyl-sulfone	AN16E-1					
Ethofumesate	AN16F-1					
Fenpyroximate	AN16G-1					
Alachlor	AN16H-1					
Acetamiprid	AN16I-1					
Flufenacet	AN16J-1					
Omethoate	AN16K-1					
Tebuconazole	AN16L-1					
Diazinon	AN16M-1					
Propoxur	AN16N-1					
Chlorotoluron	AN16O-1					
Flusilazole	AN16P-1					
Terbuthylazine	AN16Q-1					
Pyrimethanil	AN16R-1					
Buprofezin	AN16S-1					
Terbuthylazine, desethyl-	AN16T-1					
Triflumizole	AN16U-1					
Thiamethoxam	AN16V-1					
Aldicarb-sulfone	AN16W-1					
Isoproturon	AN16X-1					
Demeton-S-methyl	AN16Y-1					
Cyanazine	AN17A-1					
Flurtamone	AN17B-1					
Metazachlor	AN17C-1					
Cyprodinil	AN17D-1					
Bromuconazole, trans-	AN17E-1					
Trifloxystrobin	AN17F-1					
	AN17G-1					
	AN17H-1					
	AN17I-1					
	AN17J-1					
	AN17K-1					
	AN17L-1					
	AN17M-1					
	AN17N-1					
	AN17O-1					
	AN17P-1					
	AN17Q-1					
	AN17R-1					
	AN17S-1					
	AN17T-1					
	AN17U-1					
	AN17V-1					
	AN17W-1					
	AN17X-1					

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Pyraclostrobin					AN17Y-1
Cymoxanil	0.05				AN18A-1
Lenacil					AN18C-1
Metoxuron					AN18D-1
Prochloraz	0.025				AN18E-1
Oxydemeton-methyl					AN18F-1
Bromuconazole, cis-	0.05				AN18G-1
Flumioxazin	0.1				AN18H-1
Monolinuron					AN18I-1
Chlorbromuron					AN18K-1
Linuron					AN18L-1
Oxadixyl	0.025				AN18M-1
Propamocarb (Sum of propamocarb and its salts)					AN18P-1
Triadimefon	0.05				AN18R-1
Boscalid					AN18S-1
Flazasulfuron					AN18U-1
Metamitron	0.025				AN18V-1
Azoxystrobin					AN18W-1
Piperonyl butoxide					AN18X-1
Pencycuron					AN18Z-1
Monuron					AN19D-1
Buturon					AN19G-1
Triadimenol					AN19H-1
Thiabendazole					AN19I-1
Methabenzthiazuron					AN19J-1
Penconazole (sum of constituent isomers)	0.025				AN19K-1
Phosalone					AN19L-1
Simazine					AN19M-1
Carbetamide					AN19P-1
Picloram	0.02				AN19Q-1
Azinphos-methyl					AN19R-1
Methiocarb	0.025				AN19S-1
Metribuzin					AN19U-1
Pymetrozine	0.05				AN19V-1
Cyproconazole	0.025				AN19W-1
Metalaxyl					AN19X-1
Benalaxyl (sum of constituent isomers, including benalaxyl-M)	0.025				AN19Y-1
Clofentezine					AN19Z-1
Bitertanol	0.02				AN1A0-1
Hexazinone					AN1A1-1
Pirimicarb, desmethyl-					AN1A2-1
Difenoconazole	0.025				AN1A3-1
Diuron					AN1A5-1
Hexaconazole					AN1A6-1
Triallate	0.05				AN1A7-1
2,6-Dichlorobenzamide	0.025				AN1AA-1
Tolclofos-methyl	0.05				AN1AC-1
Sebuthylazine					AN1AD-1
Atrazin, desisopropyl-					AN1AE-1
Bupirimate					AN1AF-1
Ethoprophos					AN1AG-1
Kresoxim-methyl					AN1AH-1
Fenbuconazole (sum of constituent enantiomers)	0.025				AN1AI-1
Phenmedipham					AN1AJ-1
Diethofencarb					AN1AL-1
Flufenoxuron					AN1AM-1

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Spiroxamine						AN1AN-1
Malathion						AN1AP-1
Carbaryl						AN1AQ-1
Methamidophos						AN1AR-1
Propyzamide						AN1AS-1
Oxamyl						AN1AT-1
Ethidimuron						AN1AU-1
Norflurazon						AN1AW-1
Thiacloprid						AN1AX-1
Carbendazim						AN1AY-1
Chlorpyrifos (-ethyl)						AN1AZ-1
Pirimicarb						AN1B0-1
Chlorthiamid						AN1B1-1
Nuarimol	0.05					AN1B2-1
Disulfoton-sulfon						AN1B3-1
Desmetryn						AN1B6-1
Aldicarb-sulfoxide	0.025					AN1B7-1
Imidacloprid						AN1B8-1
Tetraconazole						AN1B9-1
Fenazaquin	0.05					AN1BA-1
Pyriproxyfen	0.025					AN1BB-1
Nicosulfuron	0.02					AN1BC-1
Chloridazon	0.025					AN1BD-1
Fenhexamid	0.02					AN1BE-1
Karbutilate						AN1BF-1
Acephate						AN1BG-1
Ametryn						AN1BH-1
Carbofuran						AN1BI-1
Mevinphos						AN1BK-1
Prometryn						AN1BL-1
Dimethachlor						AN1BM-1
Diflufenican						AN1BN-1
Fluazifop-butyl						AN1BP-1
Sebuthylazine, desethyl-						AN1BQ-1
Quinmerac-OA (Metabolite BH 518-2)						AN3C3-1
Atrazin, desethyl-						AN43W-1
Isoproturon						AN43Z-1
Metamitron						AN440-1
Simazine						AN442-1
Pyridate	0.05					AN4NH-1
Aldicarb						AN4XB-1
Atrazine						AN4XC-1
Carbofuran	0.075					AN4XD-1
Chloridazon						AN4XE-1
Diuron						AN4XF-1
Quizalofop ethyl						AN58G-1
Tembotrione						AN58H-1
2-Octyl-4-isothiazolin-3-on (OIT)						AN592-1
Dichloroethylisothiazolinone						AN5DP-1
Methylisothiazolinon (MIT)						AN5DR-1
Dicyandiamide	0.02					AN5TL-1
5-Chloro-2-Methyl-4-isothiazolin-3-on (CIT)						AN5WQ-1
Imidacloprid (Premium LOQ)						AN629-1
Metazachlor (Premium LOQ)	0.1					AN62A-1
Nicosulfuron (Premium LOQ)						AN62B-1
Thiacloprid (Premium LOQ)						AN62C-1

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Thiamethoxam (Premium LOQ)					AN62D-1
Asulam	0.05				AN62E-1
1,2-benzisothiazol (BIT)	0.1				AN62G-1
2-Methyl-1,2-benzothiazol-3(2H)-one	0.025				AN62H-1
Thiamethoxam CGA 353968					AN63W-1
Chlortoluron-Desmethyl					AN67L-1
Molinate	0.02				AN680-1
Metolachlor Morpholinone					AN6E9-1
Cybutrin-Irgarol-Metabolite M1					AN6J3-1
Chlorotoluron					AN75T-1
Terbuthylazine					AN75Y-1
Azinphos-ethyl	0.075				AN9G9-1
Bromacil					AN9GA-1
Chlorfenvinphos (mixed isomers)	0.03				AN9GB-1
Ethofumesate					AN9GD-1
Methabenzthiazuron	0.075				AN9GE-1
Monuron					AN9GF-1
Chloridazon, methyl-desphenyl-					ANBQB-1
Atrazin, desisopropyl-					ANBQC-1
Metazachlor	0.075				ANBQG-1
Metobromuron					ANBQH-1
Metoxuron					ANBQI-1
Hexazinone					ANIJJ-1
Boscalid	0.1				ANKEX-1
Chloridazon-desphenyl	0.075				ANN17-1
Metolachlor					ANSBD-1
Alachlor					ANSMG-1
Atrazin, desethyl-					JT001-1
Atrazine					JT004-1
Aldicarb	0.025				JT005-1
Azinphos-ethyl					JT007-1
Chloroxuron					JT00E-1
Crimidine	0.05				JT00H-1
Bromacil	0.025				JT01X-1
Chlorpyrifos-methyl	0.05				JT038-1
Amidosulfuron					JT039-1
Chlormequat chloride					JT03A-1
Cyazofamid					JT03B-1
Diquat					JT03D-1
Fenamidone					JT03E-1
Florasulam					JT03F-1
Fluoxastrobin					JT03G-1
Iodosulfuron methyl					JT03I-1
Picoxystrobin	0.025				JT03J-1
Thifensulfuron methyl					JT03K-1
Zoxamide					JT03L-1
Phoxim					JT03Q-1
Amitrole					JT03R-1
Clodinafop-propargyl					JT03S-1
Clomazone					JT03T-1
Chlorfenvinphos					JT03U-1
Napropamide					JT03X-1
Metolachlor NOA 413173	0.05				JT04F-1
Chloridazon, methyl-desphenyl-					JT04H-1
Metobromuron	0.025				JT08T-1
Fluopyram					JT08X-1
Fenpropidin					JT093-1

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Rimsulfuron					JT094-1
Tribenuron-methyl					JT095-1
Dimethenamid (sum of isomers, including dimethenamid-P)					JT099-1
Fenoxaprop-ethyl					JT09A-1
Foramsulfuron					JT09B-1
Isoxaflutole					JT09C-1
Mefenpyr-diethyl	0.05				JT09D-1
Mesosulfuron-methyl					JT09E-1
Pethoxamid					JT09G-1
Picolinafen	0.025				JT09J-1
Propachlor					JT09K-1
Propanil					JT09L-1
Fluquinconazole					JT0A3-1
Trichlorfon	0.1				JT0A7-1
iso-Chloridazon	0.025				JT0AE-1
Irgarol	0.02				JT0AT-1
Carfentrazone-ethyl					JT0AU-1
Metsulfuron-methyl	0.025				JT0AV-1
Thiazafluron					JT0B4-1
Triticonazole	0.05				JT0B5-1
Triasulfuron					JT0B6-1
3-Hydroxycarbofuran					JT0DI-1
Hexythiazox (any ratio of constituent isomers)					JT0DJ-1
Imazalil (any ratio of constituent isomers)	0.025				JT0DK-1
Iprovalicarb					JT0DM-1
Mepaniprim					JT0DP-1
Methomyl					JT0DQ-1
Tebufenpyrad					JT0DT-1
Azinphos-methyl	0.01				JT0EL-1
Malathion	0.02				JT0F1-1
2-Amino-4-methoxy-6-methyltriazin	0.05				JT0GQ-1
Atrazine, 2-hydroxy-					JT0GW-1
Atrazine-desethyl-2-hydroxy	0.025				JT0GX-1
Atrazine-desisopropyl-2-hydroxy	0.05				JT0GY-1
Dimoxystrobin					JT0HA-1
Fluoroxypyr - meptyl					JT0HF-1
Flumetsulam					JT0HJ-1
Desmethyl-isoproturon	0.025				JT0HK-1
Metamitron-Desamino					JT0HL-1
Prosulfuron					JT0HM-1
Tritosulfuron	0.05				JT0HN-1
Metribuzin-desamino					JT0HS-1
Propazine 2-hydroxy					JT0IO-1
2-Hydroxy-terbuthylazine	0.025				JT0I6-1
Terbuthylazine-desethyl-2-hydroxy					JT0I7-1
Thiamethoxam CGA 355190					JT0I9-1
Trifloxystrobin metabolite CGA321113	0.02				JT0IC-1
Triflusulfuron-methyl					JT0ID-1
Mandipropamid (any ratio of constituent isomers)	0.025				JT0IE-1
Fluometuron					JT0IF-1
Acetochlor	0.05				JT0IN-1
Carboxin	0.025				JT0IP-1
Chlorsulfuron	0.05				JT0IQ-1

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Coumaphos	0.025					JTOIR-1
Metconazole	0.05					JTOIS-1
Prometon	0.025					JTOIT-1
Atraton						JTOIU-1
Atrazine-desethyl-desisopropyl	0.05					JTOJ4-1
Aziprotryn	0.025					JTOJ5-1
Bensulfuron methyl						JTOJ6-1
2-amino-N-(isopropyl)benzamide						JTOJ7-1
Fluxapyroxad						JTOJU-1
Cycloxydim						JTOK4-1
Cyflufenamid						JTOK5-1
Diethyltoluamide						JTOK6-1
Fenamiphos						JTOK7-1
Flamprop-methyl						JTOK8-1
Flurochloridone						JTOKD-1
Haloxypop-2-ethoxyethyl						JTOKE-1
Imazosulfuron	0.05					JTOKF-1
Isoxaben	0.025					JTOKG-1
Mepiquat						JTOKH-1
Methoprotryne	0.025	JTOKI-1				
Paraoxon-ethyl		JTOKJ-1				
Paraoxon-methyl		JTOKK-1				
Benthiavalicarb, isopropyl-	0.1	JTON1-1				
Ethirimol		JTON2-1				
Diafenthiuron	0.05	JTON3-1				
Flutriafol	0.025	JTON4-1				
Fosthiazate		JTON5-1				
Fuberidazole		JTON6-1				
Furalaxyl		JTON7-1				
Furmecyclox		JTON8-1				
Dimethylaminosulphotoluidide (DMST)		JTON9-1				
Nitenpyram		JTONA-1				
Pacllobutrazol		JTONB-1				
Prothioconazole-desthio		JTOND-1				
Bixafen		JTONF-1				
Clodinafop		JTONH-1				
Amisulbrom	0.05	JTONP-1				
Desmedipham	0.025	JTONQ-1				
N-(3,4-Dichlorophenyl)urea	0.02	JTONR-1				
1-(3,4-Dichlorophenyl)-3-methylurea		JTONS-1				
Fenpyrazamine	0.025	JTONT-1				
Flonicamid		JTONU-1				
Fluopicolide		JTONV-1				
Flupyrsulfuron-Methyl		JTONW-1				
Furathiocarb		JTONX-1				
Isopyrazam		JTONY-1				
Metosulam		JTONZ-1				
Pinoxaden		JTOP0-1				
Pretilachlor		JTOP1-1				
Primisulfuron-methyl	0.05	JTOP2-1				
Propaquizafop	0.025	JTOP3-1				
Propoxycarbazone		JTOP4-1				
Proquinazid		JTOP5-1				
Pyraflufen-ethyl		JTOP6-1				
Pyridafol		JTOP7-1				
Pyroxsulam		JTOP8-1				
Quinoclamine		JTOP9-1				
Chlorantraniliprole		JTOPA-1				
Spirotetramat		JTOPB-1				
Sulfosulfuron		JTOPC-1				

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Sulfotep						JTOPD-1
Tebutam						JTOPE-1
Terbumeton						JTOPF-1
Triazoxide	0.05					JTOPG-1
Tribenuron						JTOPH-1
Tricyclazole						JTOPI-1
Trietazine						JTOPJ-1
Trifloxystrobin Metabolite NOA 413161 + NOA 413163	0.025					JTOPK-1
Valifenalate						JTOPL-1
Topramezone						JTOQU-1
Metazachlor BH 479-11	0.02					JTOWD-1

ORGANIC ANALYSIS						
Internal Method - OUTSOURCED CHEMICAL ANALYSIS						
Endothall in in potable water by Solid Phase Extraction (SPE); LC-MS/MS						
Analytes	LOQ		Hold Time	Container	Preservation	Item #
Endothall	0.05	µg/l	7 days from collection	Brown glass bottles, 500mL.	Unpreserved, Store samples at 1-6 °C	SFEND-4

ORGANIC ANALYSIS						
Internal Method - OUTSOURCED CHEMICAL ANALYSIS						
Paraquat and Diquat in potable water by SPE; LC-MS/MS						
Analytes	LOQ		Hold Time	Container	Preservation	Item #
Paraquat	0.05	µg/l	7 days from collection	Brown plastic bottles, 1L.	Unpreserved	SF003-6
Diquat					Store samples at 1-6 °C	SF003-6

ORGANIC ANALYSIS						
DIN EN 14039: 2005-01 / LAGA KW/04: 2019-09 - OUTSOURCED CHEMICAL ANALYSIS						
Mineral Oil Content (MOC) in soil by GC-FID						
Analytes	LOQ		Hold Time	Container	Preservation	Item #
Nonpolar Total Petroleum Hydrocarbons C10-C22	40	mg/kg dw			Available upon request	AN01L-2
Nonpolar Total Petroleum Hydrocarbons C10-C40						

ORGANIC ANALYSIS						
DIN EN ISO 9377-2 (H53): 2001-07 - OUTSOURCED CHEMICAL ANALYSIS						
Hydrocarbon-Index (HOI) in potable and non-potable water by GC-FID						
Analytes	LOQ		Hold Time	Container	Preservation	Item #
Nonpolar Total Petroleum Hydrocarbons C10-C22	0.1	mg/l	96 hours	Fill the sample under the water surface to ≈ 90 %.	Add 8 ml of a 25% CuSO4 solution per liter of sample water.	AN064-2
Nonpolar Total Petroleum Hydrocarbons C10-C40					Store in cool and dark.	

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ORGANIC ANALYSIS					
EPA 550					
Polycyclic Aromatic Hydrocarbons (PAHs) in potable and non-potable water by HPLC / UV Fluorescence					
Analytes	LOQ		Hold Time	Container	Preservation
Benzo[a]anthracene	0.010	µg/L	7 days from collection	2 X 1L amber glass or foil-wrapped bottles OR bottled water in original, sealed bottle(s) containing ≥ 2L	Sample vials are pre-preserved by adding 100mg sodium thiosulfate to each bottle prior to sample collection. Samples are acidified with 6N HCL to pH < 2 upon collection. Do not rinse or overfill bottles. Chill samples immediately and store at 1-6 °C, protected from light. Bottled water is exempt from preservation and storage requirements.
Benzo[b]fluoranthene					
Benzo[k]fluoranthene					
Benzo[g,h,i]perylene					
Benzo[a]pyrene					
Chrysene					
Indeno[1,2,3- cd]pyrene					

ORGANIC ANALYSIS									
DIN 38407-39 (F39): 2011-09 - OUTSOURCED CHEMICAL ANALYSIS									
Polycyclic Aromatic Hydrocarbons in potable and non-potable waters and sludges by GC-MS									
Analytes	LOQ		Hold Time	Container	Preservation	Item #			
Naphthalene	0.05	µg/L	7 days from collection	Brown glass bottles, 1L	2ml Sulfuric Acid 48,5%. Store samples at 1-6 °C	AN170-1			
Acenaphthylene									
Acenaphthene									
Fluorene									
Phenanthrene									
Anthracene	0.01								
Fluoranthene									
Pyrene									
Benz(a)anthracene									
Chrysene									
Benzo(b)fluoranthene									
Benzo(k)fluoranthene									
Benzo(a)pyrene									
Indeno(1,2,3-cd)pyrene									
Dibenz(a,h)anthracene									
Benzo(g,h,i)perylene									
Total 16 EPA-PAH excl. LOQ	N/A						N/A		
Sum 15 PAH without naphthalene	N/A						N/A		
1-Methylnaphthalene	0.05	µg/L	7 days from collection	Brown glass bottles, 1L	2ml Sulfuric Acid 48,5%. Store samples at 1-6 °C	AN09Q-1			
2-Methylnaphthalene									
Sum methylnaphthalenes	N/A		N/A						
Dry matter by DIN EN 14346: 2007-03	0.1	% (w/w)		N/A		AN01C-1			

ORGANIC ANALYSIS						
DIN ISO 18287: 2006-05 - OUTSOURCED CHEMICAL ANALYSIS						
Polycyclic Aromatic Hydrocarbons in soils by GC-MS						
Analytes	LOQ		Hold Time	Container	Preservation	Item #
Naphthalene	0.05	mg/kg	5 days from collection	Glass bottles, 8oz.	Unpreserved.	AN01B-1
Acenaphthylene		dw				

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Acenaphthene					Store samples at 1-6 °C.	
Fluorene						
Phenanthrene						
Anthracene						
Fluoranthene						
Pyrene						
Benz(a)anthracene						
Chrysene						
Benzo(b)fluoranthene						
Benzo(k)fluoranthene						
Benzo(a)pyrene						
Indeno(1,2,3-cd)pyrene						
Dibenz(a,h)anthracene						
Benzo(g,h,i)perylene						
Total 16 EPA-PAH excl. LOQ	N/A	N/A				
Sum 15 PAH without naphthalene						
1-Methylnaphthalene	0.05	mg/kg dw	5 days from collection	Glass bottles, 8oz.	Unpreserved. Store samples at 1-6 °C.	AN03K-1
2-Methylnaphthalene						
Sum methylnaphthalenes	N/A		N/A			
Dry matter by DIN EN 14346: 2007-03	0.1	% (w/w)	N/A			AN01C-1

ORGANIC ANALYSIS					
EPA 537.1					
Poly-Fluorinated Alkyl Substances (PFAS) in potable water by SPE/LC/MS/MS					
Analytes	LOQ	Hold Time	Container	Preservation	
N-methyl perfluorooctanesulfonamidoacetic acid (HFPO-DA/Gen X Acid)	2.0	ng/L	14 days from collection	3 X 250mL polypropylene bottle w/ polypropylene screw cap OR bottled water in original, sealed bottle(s) containing ≥ 750mL	Sample vials are pre-preserved by adding 1.25g Trizma crystals to each bottle prior to sample collection. Do not rinse or overfill bottles. Chill samples immediately and store at 1-6 °C. Bottled water is exempt from preservation and storage requirements.
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)					
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)					
Perfluorobutanesulfonic acid (PFBS)					
Perfluorodecanoic acid (PFDA)	8.0				
Perfluorododecanoic acid (PFDoA)	2.0				
Perfluoroheptanoic acid (PFHpA)					
Perfluorohexanesulfonic acid (PFHxS)					
Perfluorohexanoic acid (PFHxA)					
Perfluorononanoic acid (PFNA)	8.0				
Perfluorooctanesulfonic acid (PFOS)					
Perfluorooctanoic acid (PFOA)	2.0				
Perfluorotetradecanoic acid (PFTA)					
Perfluorotridecanoic acid (PFTrDA)					
Perfluoroundecanoic acid (PFUnA)					

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11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS/F53B Major)					
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS/F53B Minor)					
4,9-dioxa-3H-perfluorononanoic acid (DONA/ADONA Acid)					

ORGANIC ANALYSIS						
DIN 38407-42 (F42): 2011-03 - OUTSOURCED CHEMICAL ANALYSIS						
Poly-Fluorinated Compounds (PFCs) in potable and non-potable water by LC-MS						
Analytes	LOQ		Hold Time	Container	Preservation	Item #
Perfluorobutanoic acid (PFBA)	0.001	µg/L	14 days	Brown glass bottles, 500mL	If necessary, adjust the pH to between 6 and 8. Store at 4 °C.	AN2EM-1
Perfluoropentane acid (PFPeA), (Premium LOQ)						AN2EN-1
Perfluorohexanoic acid (PFHxA), (Premium LOQ)						AN2E9-1
Perfluorheptanoic acid (PFHpA), (Premium LOQ)						AN2EA-1
Perfluorooctanoic acid (PFOA), (Premium LOQ)						AN2EB-1
Perfluorononanoic acid (PFNA), (Premium LOQ)						AN2EC-1
Perfluorodecanoic acid (PFDA), (Premium LOQ)						AN2ED-1
Perfluorobutanesulfonic acid (PFBS), (Premium LOQ)						AN2EU-1
Perfluoropentanesulfonic acid (PFPeS), (Premium LOQ)						AN2YS-1
Perfluorhexanesulfonic acid (PFHxS), (Premium LOQ)						AN2EV-1
Perfluoroheptane sulphonate (PFHpS), (Premium LOQ)						AN2EQ-1
Perfluorooctane sulphonic acid (PFOS), (Premium LOQ)						AN2ET-1
6:2 Fluorotelomer sulfonic acid (6:2 FTS), (Premium LOQ)						AN2EY-1
Perfluorooctane-sulfonamide (PFOSA), (Premium LOQ)						AN2EE-1
Capstone Product A, (Premium LOQ)	0.0015	AN2V6-1				
Capstone Product B, (Premium LOQ)		AN2X4-1				

ORGANIC ANALYSIS					
EPA 524.4					
Volatile Organic Compounds (VOCs) in potable water by GC/MS					
Analytes	LOQ		Hold Time	Container	Preservation
1,1,1-Trichloroethane	0.50	µg/L	14 days from collection	3 X 40mL amber glass vials w/ Teflon-lined septa and	Sample vials are pre-preserved by adding 25mg ascorbic and 200mg maleic acid added prior to sample collection. Do not rinse or overfill vials. Avoid bubbles and minimize headspace.
1,1,2-Trichloroethane					
1,1-Dichloroethylene					
1,2-Dichloroethane					
1,2-dichloropropane					

Benzene				open top screw caps. <u>OR</u> bottled water in original, sealed bottle containing ≥ 120mL	The pH must be ≤ 2. Chill samples immediately and store at 1-6 °C. Bottled water is exempt from preservation and storage requirements.
Carbon tetrachloride					
Monochlorobenzene					
Cis-1,2-dichloroethylene					
Ethylbenzene					
o-Dichlorobenzene					
p-Dichlorobenzene					
Styrene					
Tetrachloroethylene					
Toluene					
Trans-1,2-dichloroethylene					
Trichloroethylene					
Vinyl Chloride					
o-xylene					
m, p-xylene	1.0				
Xylene (total)	1.5				
1,2,4-Trichlorobenzene					
1,1,1,2-Tetrachloroethane					
1,1,2,2-Tetrachloroethane					
1,1-Dichloroethane					
1,1-Dichloropropene					
1,2,3-Trichlorobenzene					
1,2,3-Trichloropropane					
1,3-Dichloropropane					
2,2-Dichloropropane					
2-chlorotoluene					
4-chlorotoluene					
4-Isopropyltoluene					
Bromobenzene					
Bromochloromethane					
Bromomethane					
Chloroethane					
Chloromethane					
cis-1,3-Dichloropropene					
Dibromomethane					
Dichlorodifluoromethane					
Hexachlorobutadiene					
Isopropylbenzene					
m-dichlorobenzene					
Methyl tert-butyl ether (MTBE)					
Naphthalene					
n-Butylbenzene					
n-Propylbenzene					
sec-Butylbenzene					
tert-Butylbenzene					
trans-1,3-Dichloropropene					
Trichlorofluoromethane					
Bromodichloromethane					
Bromoform					
EPA 524.4 - CONTINUED					
Volatile Organic Compounds (VOCs) by GC/MS					
Analytes	LOQ		Hold Time	Container	Preservation
Chlorodibromomethane	0.50				
Chloroform					
Total Trihalomethanes (TTHM)	2.0				
1,2,4-Trimethylbenzene					
1,3,5-Trimethylbenzene	0.50				
Dichloromethane					

1,2-Dibromo-3-chloropropane (DBCP)					
1,2-Dibromoethane (EDB)					

ORGANIC ANALYSIS						
DIN 38407-2 (F2): 1993-02 (MSD) - OUTSOURCED CHEMICAL ANALYSIS						
Chlorobenzenes (Benzylic VOCs) in potable and non-potable water by GC-MS						
Analytes	LOQ		Hold Time	Container	Preservation	Item #
1,2,3,4-Tetrachlorobenzene	0.01	µg/L	7 days	1L Amber Glass	1 mL Sulfuric acid (48%)	AN9A0-1
1,2,3,5-Tetrachlorobenzene						AN4P9-1
1,2,3-Trichlorobenzene						AN33U-1
1,2,4,5-Tetrachlorobenzene						AN6Z3-1
1,2,4-Trichlorobenzene						AN4PA-1
1,2-Dichlorobenzene (o-)						AN33V-1
1,3,5-Trichlorobenzene						AN6Z4-1
1,3-Dichlorobenzene						ANDV6-1
1,4-Dichlorobenzene (p-)						AN33W-1
Hexachlorobenzene (HCB)						AN33X-1
Pentachlorobenzene						ANDV7-1
Hexachlorocyclopentadiene	0.05					AN42W-2

ORGANIC ANALYSIS						
EPA 8260D						
Volatile Organic Compounds (VOCs) in non-potable water and soils by GC/MS						
Analytes	LOQ		Hold Time	Container	Preservation	
SOILS Preserved in Water						
1,1,1-Trichloroethane	0.02	mg/kg	14 days from Collection	3 X 40mL amber glass vials with Teflon-lined septa and open top screw caps An additional 10g of unpreserved soil in 40mL vial must be collected for each sample from the same sample source and provided for dry weight analysis.	Approximately 5g of soil fully immersed in preservation liquid. Minimize headspace. Samples with stir bars and 10mL reagent water containing sodium bisulfate (2 ± 0.2g) as preservative. If any effervescence occurs upon sampling, new samples must be collected using methanol preservation. Chill samples immediately and store at 1-6 °C.	
1,1,2-Trichloroethane						
1,1-Dichloroethylene						
1,2-Dichloroethane						
1,2-Dichloropropane						
Benzene						
Carbon tetrachloride						
Monochlorobenzene						
Cis-1,2-dichloroethylene						
Ethylbenzene						
o-Dichlorobenzene						
p-Dichlorobenzene						
Styrene						
Tetrachloroethylene						
Toluene						
Trans-1,2-dichloroethylene						
Trichloroethylene						
Vinyl Chloride						
o-xylene						
m, p-xylene	0.04					
Xylenes, total	0.06					
1,2,4-Trichlorobenzene	0.02					
1,1,1,2-Tetrachloroethane						
1,1,2,2-Tetrachloroethane						
1,1-Dichloroethane						
1,1-Dichloropropene						
1,2,3-Trichlorobenzene						
1,2,3-Trichloropropane						
1,3-Dichloropropane						

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2,2-Dichloropropane							
2-chlorotoluene							
4-chlorotoluene							
4-Isopropyltoluene							
Bromobenzene							
Bromochloromethane							
Bromomethane							
Chloroethane							
EPA 8260D - CONTINUED							
Volatile Organic Compounds (VOCs) by GC/MS							
Analytes	LOQ		Hold Time	Container	Preservation		
SOILS Preserved in Water							
Chloromethane	0.02	mg/kg	14 days from Collection	3 X 40mL amber glass vials with Teflon-lined septa and open top screw caps	Approximately 5g of soil fully immersed in preservation liquid. Minimize headspace.		
cis-1,3-Dichloropropene							
Dibromomethane							
Dichlorodifluoromethane							
Hexachlorobutadiene							
Isopropylbenzene							
m-dichlorobenzene							
Methyl tert-butyl ether (MTBE)							
Naphthalene							
n-Butylbenzene							
n-Propylbenzene							
sec-Butylbenzene							
tert-Butylbenzene							
trans-1,3-Dichloropropene							
Trichlorofluoromethane							
Bromodichloromethane	0.08				An additional 10g of unpreserved soil in 40mL vial must be collected for each sample from the same sample source and provided for dry weight analysis.	Samples with stir bars and 10mL reagent water containing sodium bisulfate (2 ± 0.2g) as preservative. If any effervescence occurs upon sampling, new samples must be collected using methanol preservation.	
Bromoform							
Chlorodibromomethane							
Chloroform							
Total Trihalomethanes (TTHM)							
1,2,4-Trimethylbenzene	0.02			Chill samples immediately and store at 1-6 °C.			
1,3,5-Trimethylbenzene							
Dichloromethane							
1,2-Dibromo-3-chloropropane (DBCP)							
1,2-Dibromoethane (EDB)							
SOILS Preserved in Methanol							
1,1,1-Trichloroethane	2.0	mg/kg	14 days from Collection	1 X 40mL amber glass vials with Teflon-lined septa and open top screw caps	Approximately 5g of soil fully immersed in preservation liquid. Minimize headspace.		
1,1,2-Trichloroethane							
1,1-Dichloroethylene							
1,2-Dichloroethane							
1,2-Dichloropropane							
Benzene							
Carbon tetrachloride							
Monochlorobenzene							
Cis-1,2-dichloroethylene							
Ethylbenzene							
o-Dichlorobenzene							
p-Dichlorobenzene							
Styrene							
Tetrachloroethylene							
Toluene							
Trans-1,2-dichloroethylene							
Trichloroethylene							
Vinyl Chloride						4.0	
o-xylene							
m, p-xylene							
Chill samples immediately and store at 1-6 °C.							

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Xylenes, total	6.0				
1,2,4-Trichlorobenzene					
1,1,1,2-Tetrachloroethane					
1,1,2,2-Tetrachloroethane					
1,1-Dichloroethane					
1,1-Dichloropropene					
1,2,3-Trichlorobenzene					
1,2,3-Trichloropropane					
EPA 8260D - CONTINUED					
Volatile Organic Compounds (VOCs) by GC/MS					
Analytes	LOQ		Hold Time	Container	Preservation
SOILS Preserved in Methanol					
1,3-Dichloropropane	2.0		14 days from Collection	1 X 40mL amber glass vials with Teflon-lined septa and open top screw caps An additional 10g of unpreserved soil in 40mL vial must be collected for each sample from the same sample source and provided for dry weight analysis.	Approximately 5g of soil fully immersed in preservation liquid. Minimize headspace. Samples in 10mL methanol as preservative. Chill samples immediately and store at 1-6 °C.
2,2-Dichloropropane					
2-chlorotoluene					
4-chlorotoluene					
4-Isopropyltoluene					
Bromobenzene					
Bromochloromethane					
Bromomethane					
Chloroethane					
Chloromethane					
cis-1,3-Dichloropropene					
Dibromomethane					
Dichlorodifluoromethane					
Hexachlorobutadiene					
Isopropylbenzene					
m-dichlorobenzene					
Methyl tert-butyl ether (MTBE)					
Naphthalene					
n-Butylbenzene					
n-Propylbenzene					
sec-Butylbenzene					
tert-Butylbenzene					
trans-1,3-Dichloropropene					
Trichlorofluoromethane					
Bromodichloromethane					
Bromoform					
Chlorodibromomethane					
Chloroform					
Total Trihalomethanes (TTHM)	8.0				
1,2,4-Trimethylbenzene	2.0				
1,3,5-Trimethylbenzene					
Dichloromethane					
1,2-Dibromo-3-chloropropane (DBCP)					
1,2-Dibromoethane (EDB)					
NON-POTABLE WATER					
1,1,1-Trichloroethane	0.5	µg/L	14 days from Collection	3 X 40mL amber glass vials with Teflon-lined septa and open top screw caps	Sample vials are pre-preserved by adding 25mg ascorbic and 200mg maleic acid added prior to sample collection. Do not rinse or overfill vials. Avoid bubbles and minimize headspace. The pH must be ≤ 2. Chill samples immediately and store at 1-6 °C.
1,1,2-Trichloroethane					
1,1-Dichloroethylene					
1,2-Dichloroethane					
1,2-dichloropropane					
Benzene					
Carbon tetrachloride					
Monochlorobenzene					
Cis-1,2-dichloroethylene					
Ethylbenzene					
o-Dichlorobenzene					

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p-Dichlorobenzene					
Styrene					
Tetrachloroethylene					
Toluene					
Trans-1,2-dichloroethylene					
Trichloroethylene					
Vinyl Chloride					
o-xylene					
m, p-xylene	1				
Xylenes, total	1.5				
1,2,4-Trichlorobenzene					
1,1,1,2-Tetrachloroethane					
1,1,2,2-Tetrachloroethane					
1,1-Dichloroethane					
1,1-Dichloropropene					
1,2,3-Trichlorobenzene					
1,2,3-Trichloropropane					
1,3-Dichloropropane					
2,2-Dichloropropane					
2-chlorotoluene					
4-chlorotoluene					
4-Isopropyltoluene					
Bromobenzene					
Bromochloromethane					
Bromomethane					
Chloroethane					
Chloromethane					
cis-1,3-Dichloropropene					
Dibromomethane					
Dichlorodifluoromethane					
Hexachlorobutadiene					
Isopropylbenzene					
m-dichlorobenzene					
Methyl tert-butyl ether (MTBE)					
Naphthalene					
n-Butylbenzene					
n-Propylbenzene					
sec-Butylbenzene					
tert-Butylbenzene					
trans-1,3-Dichloropropene					
Trichlorofluoromethane					
Bromodichloromethane					
Bromoform					
Chlorodibromomethane					
Chloroform					
Total Trihalomethanes (TTHM)	2				
1,2,4-Trimethylbenzene					
1,3,5-Trimethylbenzene					
Dichloromethane					
1,2-Dibromo-3-chloropropane (DBCP)					
1,2-Dibromoethane (EDB)					

ORGANIC ANALYSIS					
EPA 525.2 (Modified)					
Semi-volatile Compounds (SVOCs) in potable and non-potable water by GC/MS					
Analytes	LOQ	Hold Time	Container	Preservation	
Benzo[a]anthracene	0.25	µg/L	14 Days from	3 X 40mL	Sample vials are pre-preserved by adding 40-

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Benzo[b]fluoranthene			Collection	amber glass bottles with PTFE-lined caps OR bottled water in original, sealed bottle containing ≥ 120mL	50mg sodium sulfite prior to sample collection. Samples are acidified with 6N HCL to pH ≤ 1.9 upon collection. Do not rinse or overfill bottles. Chill samples immediately and store at 1-6 °C, protected from light. Bottled water is exempt from preservation and storage requirements.
Benzo[k]fluoranthene					
Benzo[g,h,i]perylene					
Benzo[a]pyrene					
Chrysene					
Indeno[1,2,3- cd]pyrene	2.0				
Di (2-ethylhexyl) adipate (DEHA)					
Di (2-ethylhexyl) phthalate					

ORGANIC ANALYSIS						
EPA 1613 B: 1994-10 - OUTSOURCED CHEMICAL ANALYSIS						
2,3,7,8-Tetrachlorodibenzo-p-dioxin (Dioxin) in potable water by GC-HRMS						
Analytes	LOQ		Hold Time	Container	Preservation	Item #
2,3,7,8-Tetrachlorodibenzo-p-dioxin (2,3,7,8-TetraCDD)	1	pg/l	1 year	1L, pre-chilled amber glass bottles with fluoropolymer-lined caps.	Protect from light. Store in the dark at 0-4 °C. If residual chlorine is present in aqueous samples, add 80 mg sodium thiosulfate per liter of water. If sample pH is greater than 9, adjust to pH 7-9 with sulfuric acid.	DS00Q-1

INORGANIC ANALYSIS						
DIN 38409-7 (H7-2): 2005-12 - OUTSOURCED CHEMICAL ANALYSIS						
Acid and Base-Neutralizing Capacities in potable and non-potable water by volumetry						
Analytes	LOQ		Hold Time	Container	Preservation	Item #
Acid Capacity at pH 4.3	0.1	mmol/L	48 hrs	1 Liter, Brown Glass	Avoid agitation and collect with no air contact. Fill bottle completely with no headspace.	AN219-1
Temperature (°C) at determination of the acid capacity at pH 4.3	N/A					AN214-1
Base capacity at pH 8.2	0.1	mmol/l				AN07K-1
Temperature (°C) at determination of the base capacity at pH 8.2	N/A				AN212-1	

INORGANIC ANALYSIS					
SM 2320B (Modified)					
Alkalinity in potable and non-potable water by Titration System					
Analytes	LOQ		Hold Time	Container	Preservation
Alkalinity	N/A	mg/L	ASAP, NLT 14 days from collection	Sample size ≥ 50mL Glass or polyethylene bottle, filled completely and sealed. OR	Unpreserved. Store samples at 1-6 °C. Avoid agitation.

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				bottled water in original, sealed bottle containing $\geq 50\text{mL}$ If also requesting analysis by EPA 150.1 (pH) and/or SM2510B (Conductivity) one sample can be provided for multiple analyses.	
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INORGANIC ANALYSIS					
ASTM D6919					
Ammonia in potable and non-potable water by Ion Chromatography					
Analytes	LOQ		Hold Time	Container	Preservation
Ammonia as N	0.10	mg/L	28 days from collection	Sample size $\geq 10\text{mL}$. Plastic bottles, i.e., poly-propylene or polyethylene	pH < 2 with H_2SO_4 : 0.4 mL H_2SO_4 (48%) per 250 mL of sample
Ammonium	0.13			OR bottled water in original, sealed bottle containing $\geq 10\text{mL}$	

INORGANIC ANALYSIS						
DIN 38406-5 (E5): 1983-10 - OUTSOURCED CHEMICAL ANALYSIS						
Ammonium in potable and non-potable water by spectrophotometry						
Analytes	LOQ		Hold Time	Container	Preservation	Item #
Ammonium	0.06	mg/l	14 days from collection	250 mL Plastic	1.25 mL H_2SO_4 (48%)	FR221-1
Ammonium nitrogen $[\text{NH}_4\text{-N}]$ calculated per DIN 38406-5-1 (E5): 1983-10	0.05		N/A			FR1MZ-1

INORGANIC ANALYSIS					
DIN EN ISO 9562 (H 14): 2005-02 - OUTSOURCED CHEMICAL ANALYSIS					
AOX in potable and non-potable water by coulometry					
Analytes	LOQ		Hold Time	Container	Preservation
					Item #

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AOX in Clean Water	0.01	mg/l	24 hrs if high VOCs.	Glass, cleaned of chlorinated residue, 250mLa	Fill bottle completely. Store at <4 °C. If oxidizing substances are suspected, test in accordance with method. If presence of oxidizing substances confirmed, Preserve with 130 mg sodium sulfite / 100ml sample	AN100-1
AOX in Unclean Water	0.05		7 days if low VOCs.			AN0RD-1

INORGANIC ANALYSIS					
EPA 300.0					
Anions in potable and non-potable water and ice by Ion Chromatography					
Analytes	LOQ	Hold Time	Container	Preservation	
Bromide	0.10	28 days from collection	Sample size ≥ 10mL. Glass or plastic bottle, i.e., poly-propylene or polyethylene	Unpreserved.	
Chloride	1.0				
Fluoride	0.10			Store samples at 1-6 °C.	
Sulfate	1.0			pH < 2 with H ₂ SO ₄	
Total Nitrite/Nitrate (as N)	0.10	48 hours from collection, unless chlorinated: 14 days	OR bottled water in original, sealed bottle containing ≥ 10mL	Store samples at 1-6 °C.	
Nitrate as N					
Nitrite as N	0.030	48 hours from collection			
o-Phosphate as P	0.10				

INORGANIC ANALYSIS							
DIN EN ISO 10304-1 (D20): 2009-07 - OUTSOURCED CHEMICAL ANALYSIS							
Dissolved Anions in potable and non-potable water by IC-EC							
Analytes	LOQ		Hold Time	Container	Preservation	Item #	
Bromide	1	mg/l	1 month	125 mL Plastic	None	AN07V-1	
Chloride						AN215-1	
Fluoride	2		AN0RB-1				
Sulphates	1	48 hours				AN217-1	
Nitrate (as NO3)						AN216-1	

INORGANIC ANALYSIS					
DIN 38405-4 (D4): 1985-07 - OUTSOURCED CHEMICAL ANALYSIS					
Fluoride in potable and non-potable water by potentiometry					
Analytes	LOQ	Hold Time	Container	Preservation	Item #
Fluoride	0.05	1 month		Available upon request	AN223-1

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INORGANIC ANALYSIS					
VDI 3492: 2013-06 - OUTSOURCED CHEMICAL ANALYSIS					
Asbestos in air by filter / SEM					
Analytes	LOQ	Hold Time	Container	Preservation	Item #
Asbestos	Not Specified	48 hours from collection	Available upon request	None	KJ1PE-1

INORGANIC ANALYSIS						
DIN EN ISO 15061: 2001-12 - OUTSOURCED CHEMICAL ANALYSIS						
Bromate in potable and non-potable water by IC-EC						
Analytes	LOQ		Hold Time	Container	Preservation	Item #
Bromate	0.0025	mg/l	5 days from collection	Plastic bottle, 125mL	Store samples at 1-6 °C.	AN134-1

INORGANIC ANALYSIS					
SM 4500-Cl-G					
Total Chlorine in potable water by Spectrophotometry					
Analytes	LOQ		Hold Time	Container	Preservation
Chlorine, total	0.10	mg/L	ASAP, NLT 48 hours from collection	Sample size ≥ 20mL Plastic bottles <u>OR</u> bottled water in original, sealed bottle containing > 20mL	Unpreserved. Store samples at 1-6 °C, protected from light.

INORGANIC ANALYSIS						
DIN EN ISO 7393-2: 2000-04 - OUTSOURCED CHEMICAL ANALYSIS						
Chlorine in potable and non-potable water by spectrophotometry (CFA)						
Analytes	LOQ		Hold Time	Container	Preservation	Item #
Chlorine (Cl2) total	0.03	mg/l	ASAP	Chlorine-demand-free brown glass bottles >200ml Fill completely	Keep cold, away from light, avoid agitation.	AN1EN-1

INORGANIC ANALYSIS					
DIN EN ISO 10304-4 (D25):1999-07 - OUTSOURCED CHEMICAL ANALYSIS					
Chlorite in potable and non-potable water by IC-EC					

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Analytes	LOQ		Hold Time	Container	Preservation	Item #
Chlorite	0.1	mg/l	7 days from collection	Plastic bottle, 125mL	Store samples at 1-6 °C.	AN133-1

INORGANIC ANALYSIS						
DIN ISO 15923-1: 2014-07 - OUTSOURCED CHEMICAL ANALYSIS						
Chromium (VI) in potable and non-potable water by spectrophotometry						
Analytes	LOQ		Hold Time	Container	Preservation	Item #
Chromium (VI)	0.008	mg/l	1 day	100 mL Plastic	13.3 mg Na ₂ CO ₃ /10.5 mg NaHCO ₃ /33 mg (NH ₄) ₂ SO ₄	AN07Y-1

INORGANIC ANALYSIS						
SM 2120B						
Apparent Color in potable and non-potable water by Nessler tube - Sample pH affects color. For each sample sent for color analysis, a sample from the same source must be sent for the following analysis:						
1. pH by EPA 150.1						
Analytes	LOQ		Hold Time	Container	Preservation	
Color, apparent	5	CU	48 hours from collection	Sample size ≥ 100mL OR bottled water in original, sealed bottle containing ≥ 100mL	Unpreserved. Store samples at 1-6 °C.	

INORGANIC ANALYSIS						
SM 2510B						
Conductivity in potable and non-potable water by Titration System						
Analytes	LOQ		Hold Time	Container	Preservation	
Conductivity	5.0	µmhos /cm	28 days from collection	Sample size ≥ 50mL Glass or polyethylene bottle, filled completely and sealed OR bottled water in original, sealed bottle containing ≥ 50mL If also requesting analysis by EPA	Unpreserved. Store samples at 1-6 °C. Avoid agitation.	

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				150.1 (pH) and/or SM 2320B (Alkalinity) one sample can be provided for multiple analyses.	
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INORGANIC ANALYSIS						
DIN EN ISO 14403: 2012-10 - OUTSOURCED CHEMICAL ANALYSIS						
Cyanide in potable and non-potable water by spectrophotometry						
Analytes	LOQ		Hold Time	Container	Preservation	Item #
Cyanide easily purgeable [Free Cyanide]	0.005	mg/l	72 hours from collection	Brown glass bottles, 250mL	6 pellets Sodium Hydroxide Store samples at 1-6 °C.	AN081-1
Cyanide total						AN083-1

INORGANIC ANALYSIS						
SM 2340B						
Hardness in potable and non-potable water by ICP-AES						
Analytes	LOQ		Hold Time	Container	Preservation	
Hardness, Total	1.0	mg/L	6 months from collection	Sample size ≥ 30mL OR bottled water in original, sealed bottle containing ≥ 30mL	Samples are acidified at collection or upon arrival to PHCE/LS/LOD by addition of 5mL of 2X nitric acid/L of sample. Store preserved samples at room temperature.	

INORGANIC ANALYSIS				
Handbook of Environmental Analysis				
Langelier Saturation Index Calculation in potable water – Sample pH and temperature must be recorded at collection. Calculation of Langelier SI requires all three analyses listed here:				
1. Calcium by EPA 200.7				
2. Alkalinity by SM2320B (modified)				
3. Total Dissolved Solids by SM 2540C				
Analytes	LOQ	Hold Time	Container	Preservation
Saturation Index (Langelier)	N/A	SI unit	See respective requirements above.	

INORGANIC ANALYSIS						
EPA 200.7						
Metals in potable and non-potable water by ICP-AES						
Analytes	LOQ		Hold Time	Container	Preservation	

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Aluminum	0.060	mg/L	14 days for unacidified samples, 6 Months from collection for acidified samples	Sample size ≥ 100mL (to complete turbidity screening and metals analysis), collected in plastic or glass bottle OR bottled water in original, sealed bottle containing ≥ 100mL	Samples are acidified at collection or upon arrival to PHCE/LS/LOD by addition of 5mL of 2X nitric acid/L of sample to pH ≤ 2. Store preserved samples at room temperature.
Antimony	0.030				
Arsenic					
Barium	0.0020				
Beryllium					
Boron	0.0050				
Cadmium	0.0020				
Calcium	0.20				
Chromium	0.0020				
Cobalt	0.0060				
Copper	0.0030				
Iron	0.0050				
Lead	0.020				
Magnesium	0.10				
Manganese	0.0020				
Molybdenum	0.020				
Nickel	0.0060				
Phosphorus, Total	0.060				
Potassium	0.30				
Selenium	0.030				
Silicon	0.060				
Silica	0.13				
Silver	0.0060				
Sodium	0.50				
Thallium	0.020				
Tin					
Vanadium	0.0020				
Zinc	0.030				
Silver (dissolved) DENTCOM	0.0020				

INORGANIC ANALYSIS					
EPA 200.8					
Metals in potable water and ice by ICP-MS					
Analytes	LOQ		Hold Time	Container	Preservation
Mercury	0.00025	mg/L	28 Days from Collection	Sample size ≥ 100mL (to complete turbidity screening and metals analysis), collected in plastic or glass bottle OR bottled water in original, sealed bottle containing ≥ 100mL	Samples are acidified at collection or upon arrival to PHCE/LS/LOD by addition of 5mL of 2X nitric acid/L of sample. Store preserved samples at room temperature.
Aluminum	0.0050		14 days for unacidified samples, 6 Months from collection for acidified samples		
Antimony	0.00050				
Arsenic	0.0030				
Barium	0.0020				
Beryllium	0.00050				
Cadmium	0.00050				
Chromium	0.0020				
Cobalt	0.0020				
Copper	0.0020				
Lead	0.0010				
Manganese	0.0020				
Molybdenum	0.0030				
Nickel	0.0030				
Selenium	0.0050				
Silver	0.0030				
Thallium	0.00020				
Tin	0.0020				
Uranium	0.0020				
Vanadium	0.0020				
Zinc	0.010				

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INORGANIC ANALYSIS						
DIN EN ISO 17294-2 (E29): 2017-01 - OUTSOURCED CHEMICAL ANALYSIS						
Metals in potable and non-potable water by ICP-MS						
Analytes	LOQ		Hold Time	Container	Preservation	Item #
ICP-MS run (water)	0.10	%	N/A			ANE2W-1
Aluminum (Al)	0.01	mg/l	14 days from collection	1 L Plastic	None for 14-day hold time / 5mL HNO3 (17.25%) for 6-month hold time	AN171-1
Antimony (Sb)	0.001					AN172-1
Arsenic (As)						AN173-1
Barium (Ba)						AN174-1
Beryllium (Be)	0.0005					AN175-1
Lead (Pb)						AN177-1
Boron (B)						AN178-1
Cadmium (Cd)	0.0002					AN179-1
Calcium (Ca)	0.02					AN180-1
Chromium (Cr)	0.001					AN181-1
Cobalt (Co)	0.0002	AN185-1				
Iron (Fe)	0.005	AN182-1				
Potassium (K)	0.05	AN184-1				
Copper (Cu)	0.001	AN186-1				
Lithium (Li)	0.005	AN187-1				
Magnesium (Mg)	0.02	AN188-1				
Manganese (Mn)	0.001	AN189-1				
Molybdenum (Mo)		AN190-1				
Sodium (Na)		AN191-1				
Nickel (Ni)	0.001	AN192-1				
Phosphorus (P)	0.2	AN0AH-1				
Selenium (Se)	0.001	AN200-1				
Silicon (Si)	0.01	AN202-1				
Thallium (Tl)	0.0002	AN205-1				
Vanadium (V)	0.002	AN208-1				
Zinc (Zn)		AN210-1				
Tin (Sn)		AN211-1				
Silver (Ag)	0.001	AN201-1				
Uranium in soils by ICP-MS						
Analytes	LOQ		Hold Time	Container	Preservation	Item #
Uranium (U)	0.2	mg/kg dw	6 months	4 oz Jar	None	AN0U5-1
Aqua regia digestion by DIN EN 13657: 2003-01	N/A		N/A			AN075-1
Dry matter (105 °C) ma.-% by DIN EN 14346: 2007-03	0.1	% (w/w)	Available upon request			AN01C-1
Uranium in non-potable water by ICP-MS						
Analytes	LOQ		Hold Time	Container	Preservation	Item #
Uranium (U)	0.0002	mg/l	Available upon request			AN0AM-1
HNO3 Acid digestion by DIN EN ISO 15587-2: 2002-07	N/A		N/A			AN989-1
ICP-MS run [water, total]	N/A		N/A			AN6XJ-1
Uranium in potable water by ICP-MS						
Analytes	LOQ		Hold Time	Container	Preservation	Item #

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Uranium (U)	0.0002	mg/l	6 months	Plastic bottle, 1L	5mL Nitric acid	AN207-1				
ICP-MS run [water]	N/A		N/A			ANE2W-1				
Metals in soils by ICP-MS / aqua regia digestion										
Analytes	LOQ		Hold Time	Container	Preservation	Item #				
Aluminum (Al)	10	mg/kg dw	6 months from collection	Glass bottles, 8oz.	Unpreserved. Store samples at 1-6 °C.	AN04T-1				
Antimony (Sb)	1					AN04U-1				
Arsenic (As)	0.8					AN00Z-1				
Barium (Ba)	2					AN04V-1				
Beryllium (Be)	0.2					AN04W-1				
Lead (Pb)	2					AN010-1				
Boron (B)	1					AN04X-1				
Cadmium (Cd)	0.2					AN012-1				
Calcium (Ca)	20					AN04Y-1				
Chromium (Cr)	1					AN013-1				
Cobalt (Co)						AN051-1				
Iron (Fe)	5					AN04Z-1				
Potassium (K)						AN050-1				
Copper (Cu)	1					AN014-1				
Magnesium (Mg)	30					AN053-1				
Manganese (Mn)	1					AN054-1				
Molybdenum (Mo)	2					AN055-1				
Sodium (Na)	10					AN056-1				
Nickel (Ni)	1					AN015-1				
Phosphorus (P)	10					AN057-1				
Selenium (Se)	1					AN058-1				
Thallium (Tl)	0.2					AN016-1				
Vanadium (V)	1					AN05C-1				
Zinc (Zn)						AN017-1				
Tin (Sn)	3					AN05D-1				
Silver (Ag)	5					AN059-1				
Aqua regia digestion for Silver DIN EN 13657: 2003-01	N/A					N/A			ANBSN-1	
Aqua regia digestion DIN EN 13657: 2003-01									AN075-1	
Dry matter (105 °C) mass-% DIN EN 14346: 2007-03	0.1	% (w/w)	N/A			AN01C-1				

INORGANIC ANALYSIS						
DIN EN ISO 12846 (E12): 2012-08 - OUTSOURCED CHEMICAL ANALYSIS						
Mercury in soils and other solids by CV-AAS						
Analytes	LOQ		Hold Time	Container	Preservation	Item #
Mercury (Hg) in solids w/aqua regia digestion	0.07	mg/kg dw	28 days from collection	4 oz Jar	None	AN018-1
Mercury (Hg) in Water	0.0001	mg/l	ASAP, NLT 6 days	50 mL Jar	Add 1.0 mL of hydrochloric acid per 100 mL of sample.	AN0AJ-1
Mercury (Hg) total w/KMnO4-digestion				50 mL Jar		AN0T5-1
Waste Water Microwave Digestion for Mercury Analysis	N/A		N/A			AN0EK-1
Mercury (Hg) in dust/surface samples	0.0001	mg/sample	N/A	20 mg	None	AN996-1
Aqua Regia Digestion of Wipe Samples by DIN EN 13346 (S7a): 2001-04	N/A		N/A			ANDUS-1

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INORGANIC ANALYSIS						
DIN EN 25663: 1993-11 - OUTSOURCED CHEMICAL ANALYSIS						
Kjeldahl nitrogen in potable and non-potable water by titrimetry						
Analytes	LOQ		Hold Time	Container	Preservation	Item #
Nitrogen (Kjeldahl)	10	mg/l	2 days	Glass bottles, 500mL	Unpreserved. Store samples at 1-6 °C.	FR02F-1

INORGANIC ANALYSIS						
SM 2150B						
Odor in potable and non-potable water by Olfaction						
Analytes	LOQ		Hold Time	Container	Preservation	
Odor	1	TON	48 hours from collection	Sample size ≥ 400mL in glass with Teflon-lined caps, OR bottled water in original, sealed bottle containing ≥ 400mL	Unpreserved. Store samples at 1-6 °C.	

INORGANIC ANALYSIS						
DIN EN ISO 8467: 1995-05 - OUTSOURCED CHEMICAL ANALYSIS						
Permanganate index in potable and non-potable water						
Analytes	LOQ		Hold Time	Container	Preservation	Item #
Permanganate-Index	0.5	mg O ₂ /l	2 days	Plastic bottles, 500mL	1ml Sulfonic Acid 48.5%,	AN060-1
Permanganate index (as KMnO ₄)	2	mg KMnO ₄ /l	Available upon request		Store samples at 1-6 °C.	AN0RA-1

INORGANIC ANALYSIS						
EPA 150.1						
pH in potable and non-potable water by Titration System						
Analytes	LOQ		Hold Time	Container	Preservation	
pH	N/A	Reported to the nearest 0.1 pH unit	NLT 7 days from collection	Sample size ≥ 100mL Glass or poly-ethylene bottle OR bottled water in original, sealed bottle containing ≥ 100mL	Unpreserved. Fill bottle completely and seal. Store samples at 1-6 °C. Avoid agitation.	

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				If also requesting analysis by SM2510B (Conductivity) and/or SM 2320B (Alkalinity) one sample can be provided for multiple analyses.	
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INORGANIC ANALYSIS						
DIN EN ISO 14402 (H37): 1999-12 - OUTSOURCED CHEMICAL ANALYSIS						
Phenol index, steam volatile, in potable and non-potable water by Spectrophotometry (CFA)						
Analytes	LOQ		Hold Time	Container	Preservation	Item #
Phenol index	0.008	mg/l	2 weeks	1 L Amber glass	Membrane filter and adjust to pH 2 with HCl or H ₂ SO ₄ . Refrigerate.	AN061-1

INORGANIC ANALYSIS						
DIN EN ISO 6878 (D11): 2004-09 - OUTSOURCED CHEMICAL ANALYSIS						
Phosphates in potable and non-potable water by spectrophotometry (UV/VIS)						
Analytes	LOQ		Hold Time	Container	Preservation	Item #
Phosphorus (calculated)	0.005	mg/l	4 weeks	125 mL Plastic	Filter immediately after sampling using a 0.45 µm membrane filter. Before use, the filter is washed phosphate-free. The first 10 ml of filtrate is discarded. Add sulfuric acid to pH <2 and refrigerate	AN0W2-1
Phosphates	0.02					AN0RH-1

INORGANIC ANALYSIS						
DIN EN 903 (H24): 1994-01 - OUTSOURCED CHEMICAL ANALYSIS						
Surfactants (Anionic) / (MBAS) in potable and non-potable water by Spectrophotometry (UV/VIS)						
Analytes	LOQ		Hold Time	Container	Preservation	Item #
Anionic surfactants (MBAS)	0.1	mg/l	5 days	Glass bottles, 500mL	4 mL HCl3, Store samples at 1-6 °C	AN124-1

INORGANIC ANALYSIS						
DIN 38409-H23: 2010-12 - OUTSOURCED CHEMICAL ANALYSIS						
Surfactants (Cationic and Nonionic) in potable and non-potable water by spectrophotometry (UV/VIS)						
Analytes	LOQ		Hold Time	Container	Preservation	Item #
Cationic surfactants)	0.2	mg/l	5 days	500 mL Amber Glass	None	AN007-1

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Nonionic surfactants	0.1		5 days	1 L Amber Glass	None	AN0NZ-1
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INORGANIC ANALYSIS						
SM 2540C						
Total Dissolved Solids in potable and non-potable water by dried weight						
Analytes	LOQ		Hold Time	Container	Preservation	
Total Dissolved Solids	50	mg/L	NLT 7 days from collection	≥ 150 mL, duplicate needed for each 10 samples.	Unpreserved. Store samples at 1-6 °C.	

INORGANIC ANALYSIS						
DIN EN 15216: 2008-01 - OUTSOURCED CHEMICAL ANALYSIS						
Total Dissolved Solids (TDS) in potable and non-potable water by gravimetry						
Analytes	LOQ		Hold Time	Container	Preservation	Item #
Total dissolved Solids 0.45µm filter	50	mg/l	7 days from collection	Plastic bottles, 125mL	Unpreserved. Store samples at 1-6 °C.	AN05S-1

INORGANIC ANALYSIS						
DIN 38409-H1-1: 1987-01 - OUTSOURCED CHEMICAL ANALYSIS						
Total Dry Residue (105 °C) in potable and non-potable water by gravimetry						
Analytes	LOQ		Hold Time	Container	Preservation	Item #
Total dry residue (105 °C)	20	mg/l	6 months	250 mL Plastic	None	AN05P-1

INORGANIC ANALYSIS						
DIN EN 1484 (H3): 2019-04 / DIN EN 1484: 1997-08 - OUTSOURCED CHEMICAL ANALYSIS						
Total Organic Carbon (TOC) in potable and non-potable water by combustion						
Analytes	LOQ		Hold Time	Container	Preservation	Item #
TOC (total organic carbon) Drinking and Raw Waters	1	mg/l	7 days from collection	Brown glass or plastic bottles, 125mL	If plastic: 0.75 mL Hydrochloric acid, store samples at 1-6 °C If glass: Unpreserved, store samples at 1-6 °C.	AN05Y-1
TOC (total organic carbon) Other Waters						

INORGANIC ANALYSIS						
DIN EN 12260 (H34): 2003-12 - OUTSOURCED CHEMICAL ANALYSIS						
Total Nitrogen bound in potable and non-potable water by combustion						
Analytes	LOQ		Hold Time	Container	Preservation	Item #
Total Nitrogen bound	1	mg/l	N/A	100 mL Plastic	None	AN0AD-1

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INORGANIC ANALYSIS					
SM 2540D					
Total Suspended Solids in potable and non-potable water by filtered dried weight					
Analytes	LOQ		Hold Time	Container	Preservation
Total Suspended Solids	2.0	mg/L	NLT 7 days from collection	Plastic bottle, ≥ 1 liter, duplicate needed for each 10 samples	Unpreserved. Store samples at 1-6 °C.

INORGANIC ANALYSIS						
DIN EN 872: 2005-04 - OUTSOURCED CHEMICAL ANALYSIS						
Total Suspended Solids (TSS) in potable and non-potable water by gravimetry						
Analytes	LOQ		Hold Time	Container	Preservation	Item #
Total suspended solids (Premium LOQ) 1µm filter	2	mg/l	7 days from collection	Plastic bottle, 1L	Unpreserved, Store samples at 1-6 °C.	AN5NN-1

INORGANIC ANALYSIS					
EPA 180.1					
Turbidity in potable and non-potable water and ice by Turbidimeter					
Analytes	LOQ		Hold Time	Container	Preservation
Turbidity	0.50	NTU	NLT 48 hours from collection	Sample size ≥ 100mL	Unpreserved. Store samples at 1-6 °C.

INORGANIC ANALYSIS						
DIN ISO 15923-1 (D49): 2014-07 - OUTSOURCED CHEMICAL ANALYSIS						
Select Water Quality Parameters, in potable and non-potable water by Spectrophotometry (UV/VIS)						
Analytes	LOQ		Hold Time	Container	Preservation	Item #
Phosphorus, total (calculated)	0.02	mg/l	14 Days	250 mL Plastic	1.25 mL Sulfuric acid	AN0IS-1
Phosphates	0.05					AN0IR-1
Nitrite (as NO ₂)	0.01					AN222-1
Ammonium	0.06					AN221-1
Ammonium nitrogen [NH ₄ -N] (calculated)	0.05					AN0IH-1

MICROBIOLOGICAL ANALYSIS				
Internal Method – BA05				
Coliform enumeration by Petri-film				
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Matrices	LOQ		Time	Container	Preservation
FOODS					
Canned Infant Formula	10	cfu/g	Item expiration date	Sealed original packaging or use a sterile container for prepared foods. Sample must be ≥ 100g.	Refrigerated samples maintain 0-4 °C. Frozen samples maintain -15 °C to -25 °C. Room-temp samples maintain at room temp.
Cottage and Ricotta cheese					
Buttermilk – As “Grade A Past. Milk and/or Milk Products”					
Chilled yogurt, yogurt drinks, and frozen yogurt (flavored)					
Sour cream					
Butter					
Condensed/concentrated milk					
Eggnog – As “Grade A Past. Milk and/or Milk Products”					
Milk and cream, Pasteurized and Ultra-Pasteurized, including Flavored					
Ice cream, flavored ice cream mix, and ice cream novelties					
Kimchee	Refrigerated samples maintain 1-8 °C. Frozen samples maintain -15 °C to -25 °C. Room-temp samples maintain at room temp.				
Raw Beef					
SURFACE MONITORING					
Surface swabs	1	cfu/50cm²	96 hours	Hi-CAP Neutralizing Broth	Should be stored at 1-4 °C, unless otherwise specified. Refer to manufacturer’s insert.
			48 hours	Neutralizing Broth	
Escherichia coli enumeration by Petri-film					
Matrices	LOQ		Hold Time	Container	Preservation
FOODS					
Hard, soft, natural, and processed cheeses	10	cfu/g	Item expiration date	Sealed original packaging or use a sterile container for prepared foods. Sample must be ≥ 100g.	Refrigerated samples maintain 1-8 °C. Frozen samples maintain -15 °C to -25 °C. Room-temp samples maintain at room temp.
Bagged salad, fresh or processed fruits and vegetables					
Kimchee					
Raw beef					
Raw clams, oysters, mussels, and scallops (fresh or frozen)					
SURFACE MONITORING					
Surface swabs	1	cfu/50cm²	96 hours	Hi-CAP Neutralizing Broth	Should be stored at 1-4 °C, unless otherwise specified. Refer to manufacturer’s insert.
			48 hours	Neutralizing Broth	

MICROBIOLOGICAL ANALYSIS				
Internal Method – BA07				
Aerobic Plate Count (APC) and Standard Plate Count (SPC) enumeration by Petri-film				
Matrices	LOQ	Hold Time	Container	Preservation
FOODS				

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Milk and cream, Pasteurized and Ultra-Pasteurized, including Flavored	2500	cfu/g	Item expiration date	Sealed original packaging or for prepared foods, sterile container.	Refrigerated samples maintain 0-4.4 °C. Frozen samples maintain -15 °C to -25 °C. Room-temp samples maintained at room temp.		
Ice cream, flavored ice cream mix, and ice cream novelties							
Cottage and Ricotta cheese							
Buttermilk – As “Grade A Past. Milk and/or Milk Products”							
Sour cream							
Eggnog – As “Grade A Past. Milk and/or Milk Products”	100			Sample must be ≥ 100g.	Refrigerated samples maintain 1-8 °C. Frozen samples maintain -15 °C to -25 °C. Room-temp samples maintained at room temp.		
Canned Infant Formula							
Raw beef							
Raw clams, oysters, mussels, and scallops (fresh or frozen)	1000						
SURFACE MONITORING							
Surface Swabs	10	cfu/50cm²	96 hours	Hi-CAP Neutralizing Broth	Should be stored at 1-4 °C, unless otherwise specified. Refer to manufacturer’s insert.		
			48 hours	Neutralizing Broth			

MICROBIOLOGICAL ANALYSIS					
Internal Method – BA09					
Listeria monocytogenes and Listeria spp. enrichment and isolation by VIDAS					
Matrices	LOQ		Hold Time	Container	Preservation
FOODS					
Canned infant formula	Non-detect (Qualitative)	In 25g	Item expiration date	Sealed original packaging or use a sterile container for prepared foods. Sample must be ≥ 100g.	Refrigerated samples maintain 1-8 °C. Frozen samples maintain -15 °C to -25 °C. Room-temp samples maintain at room temp.
Hard, soft, natural, and processed cheeses					
Bagged salad, fresh or processed fruits and vegetables					
Kimchee					
Raw pork, poultry, lamb, goat (not beef or fish)					
Ready to eat beef (bulk is beef)					
Ready to eat fish (bulk is fish)					
Ready to eat meat other than beef or fish (bulk is meat)					
Tofu					
Ready to eat products with beef (bulk is not meat)					
Ready to cook products with beef (bulk is not meat)					
Ready to eat products without beef (bulk is not meat)					
Ready to cook products without beef (bulk is not meat)					
SURFACE SWABS					

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Environmental Swabs	Qualitative	96 hours	Hi-CAP Neutralizing Broth	Should be stored at 1-8 °C, unless otherwise specified. Refer to manufacturer's insert.
		48 hours	Neutralizing Broth	
SPONGE STICKS				
Sponge Sticks	Qualitative	48 hours	Sponge Stick in original pouch	Should be stored at 1-4°C, unless otherwise specified. Refer to manufacturer's insert.

MICROBIOLOGICAL ANALYSIS					
Internal Method – BA10					
Bacillus cereus enumeration by MYP agar and VITEK 2					
Matrices	LOQ	Hold Time	Container	Preservation	
FOODS					
Canned infant formula	100	cfu/g	Item expiration date	Sealed original packaging or use a sterile container for prepared foods. Sample must be ≥ 100g.	Refrigerated samples maintain 1-6 °C. Frozen samples maintain -15 °C to -25 °C. Room-temp samples maintain at room temp. Dehydrated foods may be maintained at room temperature and shipped without refrigeration.
Hard, soft, natural, and processed cheeses	1000				
Kimchee					
Raw pork, poultry, lamb, goat (not beef or fish)					
Ready to eat beef (bulk is beef)					
Ready to eat meat other than beef or fish (bulk is meat)					
Tofu					
Ready to eat products with beef (bulk is not meat)					
Ready to cook products with beef (bulk is not meat)					
Ready to eat products without beef (bulk is not meat)					
Ready to cook products without beef (bulk is not meat)					

MICROBIOLOGICAL ANALYSIS					
Internal Method - BA11					
Identification of Micro-organisms Using VITEK					
Analytes	LOQ		Hold Time	Container	Preservation
WATER					
Escherichia coli	N/A	N/A	N/A	N/A	N/A
Total Coliforms					
Pseudomonas aeruginosa					
Enterococcus spp.					
FOOD					
Bacillus cereus	N/A	N/A	N/A	N/A	N/A
Staphylococcus aureus					
Escherichia coli O157:H7					
Listeria monocytogenes					

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Salmonella ssp.					
Clostridium perfringens					
Campylobacter jejuni					
SURFACE SWABS					
Listeria ssp.	N/A	N/A	N/A	N/A	N/A
Salmonella ssp.					
SPONGE STICKS					
Escherichia coli O157:H7	N/A	N/A	N/A	N/A	N/A
Listeria spp.					
Salmonella spp.					

MICROBIOLOGICAL ANALYSIS					
Internal Method - BA12					
Identification of Micro-organisms Using Vidas					
Analytes	LOQ		Hold Time	Container	Preservation
WATER					
Listeria spp.	N/A	N/A	N/A	N/A	N/A
Salmonella spp.					
FOOD					
Escherichia coli O157:H7	N/A	N/A	N/A	N/A	N/A
Salmonella spp.					
Campylobacter jejuni					
Listeria monocytogenes					
Listeria spp.					
SURFACE SWABS					
Listeria spp.	N/A	N/A	N/A	N/A	N/A
Salmonella spp.					
SPONGE STICKS					
Listeria spp.	N/A	N/A	N/A	N/A	N/A
Salmonella spp.					
Escherichia coli O157:H7					

MICROBIOLOGICAL ANALYSIS					
Internal Method – BA13					
Salmonella spp. Enrichment and isolation by VIDAS SLM					
Matrices	LOQ		Hold Time	Container	Preservation
FOODS					
Canned infant formula	Non-detect (Qualitative)	In 25g	Item expiration date	Sealed original packaging or use a sterile container for prepared foods. Sample must be ≥ 100g.	Refrigerated samples maintain 1-6 °C. Frozen samples maintain as frozen. Room-temp samples maintain at room temp.
Hard, soft, natural, and processed cheeses					
Ice cream, flavored ice cream mix, and ice cream novelties					
Kimchee					
Juices, nectars, and smoothies					
Eggs					

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Bagged salad, fresh or processed fruits and vegetables					
Raw beef					
Cured, salted, smoked fish					
Raw Tuna, Mahi-Mahi, and related fish (fresh or frozen)					
Raw clams, oysters, mussels, and scallops (fresh or frozen)					
Raw pork, poultry, lamb, goat (not beef or fish)					
Ready to eat beef (bulk is beef)					
Ready to eat fish (bulk is fish)					
Tofu					
Ready to eat products with beef (bulk is not meat)					
Ready to cook products with beef (bulk is not meat)					
Ready to eat products without beef (bulk is not meat)					
Ready to cook products without beef (bulk is not meat)					
SURFACE SWABS					
Environmental Swab	Qualitative	96 hours	Hi-CAP Neutralizing Broth	Should be stored at 1-8 °C, unless otherwise specified. Refer to manufacturer's insert.	
		48 hours	Neutralizing Broth		
SPONGE STICKS					
Sponge Stick	Qualitative	48 hours	Sponge Stick in original pouch	Should be stored at 1-4 °C, unless otherwise specified. Refer to manufacturer's insert.	

MICROBIOLOGICAL ANALYSIS					
Internal Method – BA14					
Escherichia coli O157:H7 Enrichment and Isolation by VIDAS					
Matrices	LOQ	Hold Time	Container	Preservation	
FOODS					
Canned infant formula	Non-detect (Qualitative)	In 25g	Item expiration date	Sealed original packaging or use a sterile container for prepared foods. Sample must be ≥ 100g.	Refrigerated samples maintain 1-8 °C. Frozen samples maintain -15 °C to -25 °C. Room-temp samples maintain at room temp.
Hard, soft, natural, and processed cheeses					
Bagged salad, fresh or processed fruits and vegetables					
Juices, nectars, and smoothies					
Raw beef					
Ready to eat beef (bulk is beef)					
Tofu					
Ready to eat products with beef (bulk is not meat)					
Ready to cook products with beef (bulk is not meat)					

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SURFACE SWABS				
Environmental Swab	Qualitative	96 hours	Hi-CAP Neutralizing Broth	Should be stored at 1-8 °C, unless otherwise specified. Refer to manufacturer's insert.
		48 hours	Neutralizing Broth	
SPONGE STICKS				
Sponge Stick	Qualitative	48 hours	Sponge Stick in original pouch	Should be stored at 1-4 °C, unless otherwise specified. Refer to manufacturer's insert.

MICROBIOLOGICAL ANALYSIS					
Internal Method – BA16					
Staphylococcus aureus enumeration by Petri-film					
Matrices	LOQ		Hold Time	Container	Preservation
FOODS					
Canned Infant Formula	1000	cfu/g	Item expiration date	Sealed original packaging or use a sterile container for prepared foods. Sample must be ≥ 100g. Sample must be in an anerobic condition.	Refrigerated samples maintain 1-8 °C. Frozen samples maintain -15 °C to -25 °C. Room-temp samples maintain at room temp.
Hard, soft, natural, and processed cheeses					
Bagged salad, fresh or processed fruits and vegetables					
Kimchee					
Cured, salted, smoked fish					
Raw Tuna, Mahi-Mahi, related fish and shellfish (fresh or frozen)					
Raw clams, oysters, mussels, and scallops (fresh or frozen)					
Raw pork, poultry, lamb, goat (not beef or fish)					
Ready to eat beef (bulk is beef)					
Ready to eat fish (bulk is fish)					
Ready to eat meat other than beef or fish (bulk is meat)					
Tofu					
Ready to eat products with beef (bulk is not meat)					
Ready to cook products with beef (bulk is not meat)					
Ready to eat products without beef (bulk is not meat)					
Ready to cook products without beef (bulk is not meat)					

MICROBIOLOGICAL ANALYSIS				
Internal Method – BA17				
Enumeration of Clostridium perfringens in Foods by TSC Agar				
Matrices	LOQ	Hold Time	Container	Preservation

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FOODS					
Cured, salted, smoked fish	100	cfu/g	Item expiration date	Sealed original packaging or use a sterile container for prepared foods. Sample must be ≥ 100g. Sample must be in an anaerobic condition.	Refrigerated samples maintain 1-8 °C. Frozen samples maintain -15 °C to -25 °C. Room-temp samples maintain at room temp.
Raw pork, poultry, lamb, goat (not beef or fish)					
Ready to eat beef (bulk is beef)					
Ready to eat meat other than beef or fish (bulk is meat)					
Tofu					
Ready to eat products with beef (bulk is not meat)					
Ready to cook products with beef (bulk is not meat)					
Ready to eat products without beef (bulk is not meat)					
Ready to cook products without beef (bulk is not meat)					

MICROBIOLOGICAL ANALYSIS					
Internal Method – BA18					
Yeast and mold enumeration by Petri-film					
Matrices	LOQ		Hold Time	Container	Preservation
FOODS					
Cottage and Ricotta cheeses	10	cfu/g	Item expiration date	Sealed original packaging or use a sterile container for prepared foods. Sample must be > 100g.	Refrigerated samples maintain 1-8 °C. Frozen samples maintain -15 °C to -25 °C. Room-temp samples maintain at room temp.
Chilled yogurt, yogurt drinks, and frozen yogurt (flavored)					
Sour cream					

MICROBIOLOGICAL ANALYSIS					
APHA Standard Methods for the Examination of Water and Wastewater 9215D/9222 (Modified) – BA24					
Enumeration of Total Coliforms by Milliflex PLUS Pump					
Matrices	LOQ		Hold Time	Container	Preservation
WATER					
Bottled water	0	cfu/100 mL	Expiration date	In original, sealed bottle	Store samples at room temperature.
		cfu/250 mL		100mL CONUS source	
Ice			250mL OCONUS source	Maintain ice as frozen.	
Potable water		cfu/100 mL	30 hours from collection	in sterile container	Store samples at < 8 °C.
Non-potable water				Sample must be ≥ 100mL.	
Dental water					

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MICROBIOLOGICAL ANALYSIS					
APHA Standard Methods for the Examination of Water and Wastewater 9215 (Modified) – BA24					
Heterotrophic Plate Count (HPC) by TGE Agar					
Matrices	LOQ		Hold Time	Container	Preservation
WATER					
Bottled water	1	cfu/mL	Expiration date	In original, sealed bottle ≥ 100mL.	Store samples at room temperature.
Potable water			30 hours from collection	in sterile container Sample must be ≥ 100mL.	Store samples at < 8 °C.
Non-potable water					
Ice			Expiration date	In original or sterile container ≥ 100mL.	Maintain ice as frozen.

MICROBIOLOGICAL ANALYSIS					
APHA Standard Methods for the Examination of Water and Wastewater 9230C (Modified) – BA24					
Enumeration of Enterococcus spp. by Milliflex PLUS Pump					
Matrices	LOQ		Hold Time	Container	Preservation
WATER					
Bottled water	0	cfu/ 100 mL	Expiration date	In original, sealed bottle 100mL CONUS source 250mL OCONUS source	Store samples at room temperature
Ice		cfu/ 250 mL		In original or sterile container 100mL CONUS source 250mL OCONUS source	Maintain ice as frozen.
Potable water		cfu/ 100 mL	30 hours from collection	in sterile container ≥ 100mL.	Store samples at < 8 °C.
Non-potable water					

MICROBIOLOGICAL ANALYSIS				
EPA 1603 (Modified) – BA24				
Enumeration of Escherichia coli by Milliflex PLUS Pump				
Matrices	LOQ	Hold Time	Container	Preservation
WATER				

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Bottled water	0	cfu/ 100 mL	Expiration date	In original, sealed bottle 100mL CONUS source 250mL OCONUS source	Store samples at room temperature.
Ice		cfu/ 250 mL		In original or sterile container 100mL CONUS source 250mL OCONUS source	Maintain ice as frozen.
Potable water		cfu/ 100 mL	30 hours from collection	in sterile container ≥ 100mL.	Store samples at < 8 °C.
Non-potable water					

MICROBIOLOGICAL ANALYSIS					
APHA Standard Methods for the Examination of Water and Wastewater section 9213E (Modified) – BA24					
Enumeration of Pseudomonas aeruginosa by Milliflex PLUS Pump					
Matrices	LOQ		Hold Time	Container	Preservation
WATER					
Bottled water	0	cfu/ 100 mL	Expiration date	In original, sealed bottle 100mL CONUS source 250mL OCONUS source	Store samples at room temperature.
Ice				In original or sterile container 100mL CONUS source 250mL OCONUS source	Maintain ice as frozen.
Potable water		cfu/ 100 mL	30 hours from collection	in sterile container ≥ 100mL.	Store samples at < 8 °C.
Non-potable water					

MICROBIOLOGICAL ANALYSIS				
Internal Method – BA38				
Campylobacter jejuni enrichment and isolation by VIDAS				
		Hold		

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Matrices	LOQ		Time	Container	Preservation
FOODS					
Raw pork, poultry, lamb, goat (not beef or fish)	Non-detect (Qualitative)	In 25g	Item expiration date	Sealed original packaging or use a sterile container for prepared foods.	Refrigerated samples maintain 1-8 °C Frozen samples maintain -15 °C to -25 °C Room-temp samples maintain at room temp.
Ready to eat beef (bulk is beef)					
Ready to eat meat other than beef or fish (bulk is meat)					
Tofu					
Ready to eat products with beef (bulk is not meat)					
Ready to eat products without beef (bulk is not meat)					

MICROBIOLOGICAL ANALYSIS					
AOAC RI 071401 – BA42					
Bacillus cereus enumeration by TEMPO					
Matrices	LOQ		Hold Time	Container	Preservation
FOODS					
Ready to eat beef (bulk is beef)	50	cfu/ g	Item expiration date	Sealed original packaging or use a sterile container for prepared foods. Sample must be ≥ 100g.	Refrigerated samples maintain 1-6 °C. Frozen samples maintain as frozen. Room-temp samples maintain at room temp.
Ready to eat meat other than beef or fish (bulk is meat)					
Ready to eat products with beef (bulk is not meat)					
Ready to cook products with beef (bulk is not meat)					
Ready to eat products without beef (bulk is not meat)					
Ready to cook products without beef (bulk is not meat)					

MICROBIOLOGICAL ANALYSIS					
SM 9215E – BA43					
Heterotrophic Plate Count (HPC) by Idexx SimPlate					
Matrices	LOQ		Hold Time	Container	Preservation
WATER					
Dental Water	2	MPN/mL	30 hours from collection	In sterile container ≥ 100mL.	Store samples at < 8 °C. Chlorinated samples must be preserved with sodium thiosulfate. Bottles with preservative are available with kit orders.

MICROBIOLOGICAL ANALYSIS					
Internal Method – BA46					
Salmonella spp. Enrichment and Isolation by VIDAS SPT Kit					
Matrices	LOQ		Hold Time	Container	Preservation
FOODS					
	Non-detect (Qualitative)		Item expiration date	Sealed original packaging or use a sterile	
Bagged salad, fresh or processed fruits and vegetables					

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Raw beef	In 25 g			container for prepared foods.	Refrigerated samples maintain 1-8 °C. Frozen samples maintain as frozen. Room-temp samples maintain at room temp.
Cured, salted, smoked fish				Sample must be ≥ 100g.	
Raw Tuna, Mahi-Mahi, and related fish (fresh or frozen)					
Raw clams, oysters, mussels, and scallops (fresh or frozen)					
Raw pork, poultry, lamb, goat (not beef or fish)					
Ready to eat beef (bulk is beef)					
Ready to eat fish (bulk is fish)					
Ready to eat meat other than beef or fish ((bulk is meat)					
Tofu					
Ready to eat products with beef (bulk is not meat)					
Ready to cook products with beef (bulk is not meat)					
Ready to eat products without beef (bulk is not meat)					
Ready to cook products without beef (bulk is not meat)					

SURFACE SWABS

Environmental Swab	Qualitative	96 hours	Hi-CAP Neutralizing Broth	Should be stored at 1-8 °C, unless otherwise specified. Refer to manufacturer's insert.
		48 hours	Neutralizing Broth	

SPONGE STICKS

Sponge Stick	Qualitative	48 hours	Sponge Stick in original pouch	Should be stored at 1-4 °C, unless otherwise specified. Refer to manufacturer's insert.
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MOLECULAR ANALYSIS

Internal Method - BA35

Arthropod Vector-borne disease detection by RT rt-PCR

Analytes	LOQ	Hold Time	Container	Preservation
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MOSQUITOES

Chikungunya virus	100	copies	N/A	5 mosquitoes pooled to create 1 sample	Vectors preserved in EtOH in a 1.5 or 2mL Eppendorf tube.
Dengue fever virus					
West Nile fever virus					
Zika virus					

SAND FLIES

Sicilian Sand fly fever virus	100	copies	N/A	5 sand flies pooled to create 1 sample	Vectors preserved in EtOH in a 1.5 or 2mL Eppendorf tube.
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TICKS

Crimean Congo haemorrhagic fever virus	100	copies	N/A	1 tick = 1 sample	Vectors preserved in EtOH in a 1.5 or 2mL Eppendorf tube.
Tick-borne Encephalitis virus					

MOLECULAR ANALYSIS

Internal Method - BA35

Arthropod Vector-borne disease detection by rt-PCR

Analytes	LOQ	Hold	Container	Preservation
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			Time		
MOSQUITOES					
Plasmodium spp. (Malaria)	100	copies	N/A	5 mosquitoes pooled to create 1 sample	Vectors preserved in EtOH in a 1.5 or 2mL Eppendorf tube.
SAND FLIES					
Leishmania spp.	100	copies	N/A	5 sand flies pooled to create 1 sample	Vectors preserved in EtOH in a 1.5 or 2mL Eppendorf tube.
TICKS					
Anaplasma phagocytophilum	100	copies	N/A	1 tick = 1 sample	Vectors preserved in EtOH in a 1.5 or 2mL Eppendorf tube.
Borrelia spp. (Lyme disease)					
Ehrlichia spp.					
Rickettsia spp.					
MOLECULAR ANALYSIS					
Internal Method - BA48					
Rabies detection by rt-PCR					
Analytes	LOQ	Hold Time	Container	Preservation	
Rabies viral transcript in brain tissue	Qualitative	N/A	Submit whole head. Small animals may be submitted as whole body.	If delivered in <2 days, samples may be refrigerated. If delivered in >2 days, keep samples frozen until analysis.	
IMMUNOHISTOLOGICAL ANALYSIS					
Internal Method - BA29					
Rabies detection by Direct Fluorescent Antibody (DFA)					
Analytes	LOQ	Hold Time	Container	Preservation	
Rabies virus in brain tissue	Qualitative	N/A	Submit whole head. Small animals may be submitted as whole body.	If delivered in <2 days, samples may be refrigerated. If delivered in >2 days, keep samples frozen until analysis.	

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