

## SAMPLE CONTAINER, VOLUMES, PRESERVATIVES, AND HOLDING TIMES

### GENERAL CHEMISTRY

ANALYSIS	PRODUCT CODE	AQUEOUS MINIMUM VOLUME (ML)	AQUEOUS REQUESTED VOLUME (ML)	CONTAINER	PRESERVATIVE	HOLDING TIME	NOTES
Acidity	ACD	100	200	P,G	Cool, ≤ 6 deg. C.	14 Days	
Alkalinity	ALK	100	200	P,G	Cool, ≤ 6 deg. C.	14 Days	
Ammonia as Nitrogen	AMN	100	200	P,G	H <sub>2</sub> SO <sub>4</sub> to pH<2, Cool, ≤ 6 deg. C.	28 Days	
Ash, Percent (dry basis)	ASH	100	100	P,G	Cool, ≤ 6 deg. C.	Not Regulated	
BOD	BOD	500	500	P,G	Cool, ≤ 6 deg. C.	48 Hours	A
Bromide	BR	50	100	P,G	Cool, ≤ 6 deg. C.	28 Days	
BTU	BTU	10	50	P,G	Cool, ≤ 6 deg. C.	Not Regulated	
Bicarbonate	BICARB	100	200	P,G	Cool, ≤ 6 deg. C.	14 Days	
Carbonaceous BOD	CBOD	500	500	P,G	Cool, ≤ 6 deg. C.	48 Hours	A
Carbonate	CARB	100	200	P,G	Cool, ≤ 6 deg. C.	14 Days	
Carbon Dioxide	CO2	100	200	P,G	Cool, 4 deg. C.	Immediate	
Calcium Hardness	CAHRD	50	100	P,G	HNO <sub>3</sub> to pH<2, Cool, ≤ 6 deg. C.	6 Months	
Chloride	CHL	50	100	P,G	Cool, ≤ 6 deg. C.	28 Days	
Chlorine Demand	CLD	50	100	P,G	Cool, ≤ 6 deg. C.	Immediate	
Corrosivity	CORR	50	100	P,G	Cool, ≤ 6 deg. C.	Not Regulated	

Soils and solids may be analyzed for the above general chemistry parameters at a general requirement of approximately 100g per analyte collected in one 60ml jar. For a combination of analytes, the sample may be collected in one 300ml bottle.

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## SAMPLE CONTAINER, VOLUMES, PRESERVATIVES, AND HOLDING TIMES

### GENERAL CHEMISTRY (Continued)

ANALYSIS	PRODUCT CODE	AQUEOUS MINIMUM VOLUME (ML)	AQUEOUS REQUESTED VOLUME (ML)	CONTAINER	PRESERVATIVE	HOLDING TIME	NOTES
Cyanide	CN	50	250	P,G	NaOH to pH>12, Ascorbic Acid, Cool, ≤ 6 deg. C.	14 Days	
Cyanides Amenable to Chlorination	CNA	100	250	P,G	NaOH to pH>12, Ascorbic Acid, Cool, ≤ 6 deg. C.	14 Days	B
Chemical Oxygen Demand	COD	10	50	P,G	H <sub>2</sub> SO <sub>4</sub> to pH<2, Cool, ≤ 6 deg. C.	28 Days	
Color	COL	100	100	P,G	Cool, ≤ 6 deg. C.	48 Hours	
Corrosivity, Langlier Index	CORLI	See Notes for Test Vol.	See Notes for Test Vol.	See Notes	Follow Preservation for Tests Listed in Notes	Calculation, Requires TDS, Ca Hardness, pH, Temp, Alk	
Cyanide Reactivity	CREAC	10	50	P,G	Cool, ≤ 6 deg. C.	Not Regulated	C
CTAS	CTAS	20	50	P,G	Cool, ≤ 6 deg. C.	48 Hours	
Dissolved Oxygen	DO	300	300	G	ZHS, Cool, ≤ 6 deg. C.	Immediate	
Oxidation-Reduction Potential (ORP or ReDox)	EH	100	100	P,G	Cool, ≤ 6 deg. C.	Not Regulated	
Fluoride	F	50	100	P	Cool, ≤ 6 deg. C.	28 Days	

Soils and solids may be analyzed for the above general chemistry parameters at a general requirement of approximately 100g per analyte collected in one 60ml jar. For a combination of analytes, the sample may be collected in one 300ml bottle.

## SAMPLE CONTAINER, VOLUMES, PRESERVATIVES, AND HOLDING TIMES

### GENERAL CHEMISTRY (Continued)

ANALYSIS	PRODUCT CODE	AQUEOUS MINIMUM VOLUME (ML)	AQUEOUS REQUESTED VOLUME (ML)	CONTAINER	PRESERVATIVE	HOLDING TIME	NOTES
Hardness	HARD	50	100	P,G	H <sub>2</sub> SO <sub>4</sub> or HNO <sub>3</sub> to pH<2	6 Months	
Ignitability	IGN	100	200	P,G	Cool, ≤ 6 deg. C.	Not Regulated	
Iodine	I	500	500	P,G	Cool, ≤ 6 deg. C.	Immediate	
MBAS (Anionic Surfactants as)	MBAS	100	200	P,G	Cool, ≤ 6 deg. C.	48 Hours	
MOISTC/Karl Fischer	MOISTC/Karl Fischer	-	Solids: 1 X 1000	P, G	None	Not Regulated	
Nitrogen, Nitrate only	XNO3O	25	50		H <sub>2</sub> SO <sub>4</sub> to pH<2, Cool, ≤ 6 deg. C.	28 Days	E
Nitrate + Nitrite Combined	NO3	25	50		H <sub>2</sub> SO <sub>4</sub> to pH<2, Cool, ≤ 6 deg. C.	28 Days	E
Nitrogen, Organic	TON	150	250	P,G	H <sub>2</sub> SO <sub>4</sub> to pH<2, Cool, ≤ 6 deg. C.	28 Days	
Nitrogen, Total	TNIT	50	100	P,G	H <sub>2</sub> SO <sub>4</sub> to pH<2, Cool, ≤ 6 deg. C.	28 Days	
Oil & Grease (Method 413.1)	O+G-G	1000	2 X 1000	G	HCl to pH<2 Cool, ≤ 6 deg. C.	28 Days	
Oil & Grease – HEM (Method 1664)	OG1664	1000	2 x 1000	G	HCl to pH<2 Cool, ≤ 6 deg. C.	28 Days	
Odor	ODOR	400	500	G	Cool, ≤ 6 deg. C.	24 Hours	A
Odor at Elevated Temp.(60 deg. C.)	ODORET	400	500	G	Cool, ≤ 6 deg. C.	24 Hours	A

Soils and solids may be analyzed for the above general chemistry parameters at a general requirement of approximately 100g per analyte collected in one 60ml jar. For a combination of analytes, the sample may be collected in one 300ml bottle.

# SAMPLE CONTAINER, VOLUMES, PRESERVATIVES, AND HOLDING TIMES

## GENERAL CHEMISTRY (Continued)

ANALYSIS	PRODUCT CODE	AQUEOUS MINIMUM VOLUME (ML)	AQUEOUS REQUESTED VOLUME (ML)	CONTAINER	PRESERVATIVE	HOLDING TIME	NOTES
Orthophosphate	OPO4	50	100	P,G	Cool, $\leq$ 6 deg. C.	48 Hours	
Tetraethyl Lead	PBET4	100	500	P	ZHS, Cool, $\leq$ 6 deg. C.	Not Regulated	
Paint Filter Test	PNTFIL	100	200	P,G	Cool, $\leq$ 6 deg. C.	Not Regulated	
Particulate Matter	PARMAT	100	200	P,G	Cool, $\leq$ 6 deg. C.	7 Days	
pH by Electrode	PH	50	100	P,G	Cool, $\leq$ 6 deg. C.	Immediate	
Petroleum Hydrocarbons (Method 418.1)	PHC	1000	2 X 1000	G	HCl to pH<2 Cool, $\leq$ 6 deg. C.	7 Days(NJ) All Others 28 Days	
Phenols	PN	950	950	G	H <sub>2</sub> SO <sub>4</sub> to pH<2, Cool, $\leq$ 6 deg. C.	28 Days	A
Phenols by Chloroform Extraction	PNCE	950	950	G	H <sub>2</sub> SO <sub>4</sub> to pH<2, Cool, $\leq$ 6 deg. C.	28 Days	A
Silica, Dissolved	SIL	50	100	P	Cool, $\leq$ 6 deg. C.	28 Days	
Specific Conductance	SCON	125	200	P,G	Cool, $\leq$ 6 deg. C.	28 Days	
Specific Gravity	SG	100	100	P,G	Cool, $\leq$ 6 deg. C.	Not Regulated	
Sulfide	S	2 x 200	2 x 250	P,G	NaOH to pH>12, Zinc Acetate, Cool, $\leq$ 6 deg. C.	7 Days	Two (2) Containers Minimum
Hydrogen Sulfide	H2S	*	*	*	*	*	*I
Sulfate	SO4	50	100	P,G	Cool, $\leq$ 6 deg. C.	28 Days	

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## SAMPLE CONTAINER, VOLUMES, PRESERVATIVES, AND HOLDING TIMES

### GENERAL CHEMISTRY (Continued)

ANALYSIS	PRODUCT CODE	AQUEOUS MINIMUM VOLUME (ML)	AQUEOUS REQUESTED VOLUME (ML)	CONTAINER	PRESERVATIVE	HOLDING TIME	NOTES
Sulfite	SO3	50	100	P,G	Cool, ≤ 6 deg. C.	Immediate	
Sulfide Reactivity	SREAC	50	300	P,G	Cool, ≤ 6 deg. C.	Not Regulated	C
Sulfur, Percent	%SULF	10	50	P,G	Cool, ≤ 6 deg. C.	Not Regulated	
Settleable Solids	SS	1000	1000	P,G	Cool, ≤ 6 deg. C.	48 Hours	A
Total Chlorine	TCHL	5	50	P,G	Cool, ≤ 6 deg. C.	Not Regulated	
Total Dissolved Solids	TDS	200	200	P,G	Cool, ≤ 6 deg. C.	7 Days	
Total Kjeldahl Nitrogen	TKN	20	50	P,G	H <sub>2</sub> SO <sub>4</sub> to pH<2, Cool, ≤ 6 deg. C.	28 Days	
Total Mineral Solids	TMS	200	200	P,G	Cool, ≤ 6 deg. C.	7 Days	
Nitrogen, Nitrite	NO2	50	50	P,G	Cool, ≤ 6 deg. C.	48 Hours	
Total and/or Dissolved Organic Carbon	TOC/DOC	50	60	P,G	HCl to pH<2, Cool, ≤ 6 deg. C.	28 Days	
Total Organic Chlorine	TOCHL	75	100	P,G	Cool, ≤ 6 deg. C.	Not Regulated	
Total Organic Halides	TOX	100	300	G	ZHS, H <sub>2</sub> SO <sub>4</sub> to pH<2, Cool, ≤ 6 deg. C.	28 Days	A

Soils and solids may be analyzed for the above general chemistry parameters at a general requirement of approximately 100g per analyte collected in one 60ml jar. For a combination of analytes, the sample may be collected in one 300ml bottle.

## SAMPLE CONTAINER, VOLUMES, PRESERVATIVES, AND HOLDING TIMES

### GENERAL CHEMISTRY (Continued)

ANALYSIS	PRODUCT CODE	AQUEOUS MINIMUM VOLUME (ML)	AQUEOUS REQUESTED VOLUME (ML)	CONTAINER	PRESERVATIVE	HOLDING TIME	NOTES
Total Phosphates	TPO4	100	200	P,G	H <sub>2</sub> SO <sub>4</sub> to pH<2, Cool, ≤ 6 deg. C.	28 Days	
Total Residual Chlorine	TRC	100	200	P,G	ZHS, Cool, ≤ 6 deg. C.	Immediate	A
Total Solids	TS	200	100	P,G	Cool, ≤ 6 deg. C.	7 Days	
Total Suspended Solids	TSS	100	200	P,G	Cool, ≤ 6 deg. C.	7 Days	F
Turbidity	TURB	50	50	P,G	Cool, ≤ 6 deg. C.	48 Hours	
Total Volatile Solids	TVS	100	100	P,G	Cool, ≤ 6 deg. C.	7 Days	See Total Solids
Total Volatile Suspended Solids	VSS	100	200	P,G	Cool, ≤ 6 deg. C.	7 Days	See Suspended Solids
Total Mineral Solids	TMS	100	100	P,G	Cool, ≤ 6 deg. C.	7 Days	See Total Solids
Viscosity	VISC	100	100	P,G	Cool, ≤ 6 deg. C.	Not Regulated	
Volatile Fatty Acids (Method: In House)	2 X 40mL vials	None	7 days	Volatile Fatty Acids (Method: In House)	2 X 40mL vials	None	7 days
Suitability	Suit	2x500	2x500	P,G	Cool, ≤ 6 deg. C.	Not Regulated	

Soils and solids may be analyzed for the above general chemistry parameters at a general requirement of approximately 100g per analyte collected in one 60ml jar. For a combination of analytes, the sample may be collected in one 300ml bottle.

## SAMPLE CONTAINER, VOLUMES, PRESERVATIVES, AND HOLDING TIMES

### MICROBIOLOGY

Total Coliform (Colilert Method)	TCFC	125	125	P,G,Sterile	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> , Cool, ≤ 6 deg. C.	30 Hour Potable	H
Total Coliform (Plate Count Method)	TCF	125	125	P,G,Sterile	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> , Cool, ≤ 6 deg. C.	30 Hour Potable 6 Hour Non-Potable	H
Fecal Coliform	FCF	125	125	P,G,Sterile	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> , Cool, ≤ 6 deg. C.	6 Hour	H
Total Plate Count	TPC	125	125	P,G,Sterile	Cool, ≤ 6 deg. C.	8 Hour Recom. 24 Hour Max.	H
General Petroleum Degradars	GPD	125	125	P,G,Sterile	Cool, ≤ 6 deg. C.	24 Hour Recommended	H

Soils and solids may be analyzed for the above Microbiology parameters at a general requirement of approximately 100gm of sample per analyte collected in one 60ml jar.

## SAMPLE CONTAINER, VOLUMES, PRESERVATIVES, AND HOLDING TIMES

### METALS AND MINERALS

ANALYSIS	PRODUCT CODE	AQUEOUS MINIMUM VOLUME (ML)	AQUEOUS REQUESTED VOLUME (ML)	CONTAINER	PRESERVATIVE	HOLDING TIME	NOTES
Chromium, Hexavalent	XCR	100	500	P	Cool, $\leq$ 6 deg. C.	24 Hours	
Iron, Ferrous	FE2	50	500		Cool, $\leq$ 6 deg. C.	Not Regulated	
Iron, Ferric	FE3	*	*	*	*	*	*D
Lead, Tetraethyl	PBET4	100	500	P	ZHS, Cool, $\leq$ 6 deg. C.	Not Regulated	
Mercury in Drinking Water	HG	500	500	P	HNO <sub>3</sub> to pH<2	28 Days	
Total Metals	Listed per Analyte	500	500	P	HNO <sub>3</sub> to pH<2 (aqueous) Cool, $\leq$ 6 deg. C. (soil and solids)	6 Months	
Dissolved Metals	Listed per Analyte	500	500	P	HNO <sub>3</sub> to pH<2	6 Months	
Wipes for Metals	Wipes for Metals	3"X3" gauze pads	3"X3" gauze pads	60 ml vial	Cool, $\leq$ 6 deg. C.	6 Months	A

Soils and solids may be analyzed for the above metals and minerals at a general requirement of approximately 30gm per analyte collected in one 60ml jar. For a combination of analytes, the sample may be collected in one 300ml bottle.

## SAMPLE CONTAINER, VOLUMES, PRESERVATIVES, AND HOLDING TIMES

### VOLATILE ORGANICS BY GC

ANALYSIS	AQUEOUS REQUESTED VOLUME	PRESERVATIVE	HOLDING TIME	NOTE	SOIL/SLUDGE/SOLID REQUESTED VOLUME	HOLDING TIME
V502, V602, V524	3 X 40ml	HCl to pH<2, Cool, ≤ 6 deg. C. Ascorbic Acid upon request.	14 Days Sample is Void If Unpreserved	J		
V504(EDB,DBCP)	3 X 40ml	Sodium Thiosulfate, Cool, ≤ 6 deg. C.	14 Days			
V603	3 X 40mL vials	HCl	14 Days	V603	3 X 40mL vials	HCl
VTHM	2 X 40ml	HCl to pH<2, Cool, ≤ 6 deg. C. Ascorbic Acid upon request.	14 Days Sample is Void If Unpreserved			
V624	3 X 40ml	HCL TO pH<2, Cool, ≤ 6 deg. C. Ascorbic Acid upon request.	14 Days			
V8011 ( EDB, DBCP)	3 X 40ml	HCL TO pH<2, Cool, ≤ 6 deg. C. Ascorbic Acid upon request.	14 Days			
V8015 as GRO	2 X 40ml	HCl to pH<2, Cool, ≤ 6 deg. C.	14 Days			
V8021	3 X 40ml	HCl to pH<2, Cool, ≤ 6 deg. C. Ascorbic Acid, on request	14 Days			
V8015	3 X 40ml	HCl to pH<2, Cool, ≤ 6 deg. C.	14 Days			

## SAMPLE CONTAINER, VOLUMES, PRESERVATIVES, AND HOLDING TIMES

### VOLATILE ORGANICS BY GC/MS

ANALYSIS	AQUEOUS REQUESTED VOLUME	PRESERVATIVE	HOLDING TIME	NOTE	SOIL/SOLID/SLUDGE REQUESTED VOLUME	HOLDING TIME
V8260	3 X 40ml	HCl to pH<2, Cool, ≤ 6 deg. C. Ascorbic Acid upon request.	14 Days			
DAI 8260 (D8260) (Glycols, Alcohols, Diols, Amines, Ethylene Oxide 2-Ethoxyethanol, Nitroethane)	3 X 40mL vials	None	14 Days			
V8021 via SW5035	Not Applicable	Not Applicable	Not Applicable		See Next Page	14 DAYS
V8015 via SW5035	Not Applicable	Not Applicable	Not Applicable		See Next Page	14 DAYS
V8260 via SW5035	Not Applicable	Not Applicable	Not Applicable		See Next Page	14 DAYS
V8015/RSKSOP-114/147 (methane, ethane, ethane, CO2)	2 X 40ml vials	HCl TO pH<2, Cool, ≤ 6 deg. C.	14 Days			
V8015/RSKSOP-114/147 (CO only)	2 X 40ml vials	Cool, ≤ 6 deg. C.	7 Days			
V8015 Methanol, Alcohols	2 X 40ml vials	HCl TO pH<2, Cool, ≤ 6 deg. C.	14 Days			
V8015 CO2 only	2 X 40ml vials	Cool, ≤ 6 deg. C.	7 Days			



## SAMPLE CONTAINER, VOLUMES, PRESERVATIVES, AND HOLDING TIMES

### SW5035: Sampling Options & Container Requirements

TARGET CONCENTRATION	LOW LEVEL OR UNKNOWN (< 200 UG/KG)		MEDIUM LEVEL (> 200 UG/KG)		NEW JERSEY
Field or Lab Preservation Option	Field	Lab	Field	Lab	Field
Sampling Kit Contents	2 X DI water Vials 1 X CH3OH Vial 1 X 60ml (Moisture) 1 X Terra Core Sampler	3 X Encore Samplers 1 X 60ml (Moisture)	1 X CH3OH Vial 1 X 60ml (Moisture) 1 X Terra Core Sampler	1 X Encore Sampler 1 X 60ml (Moisture)	1 X CH3OH Vial 1 X 60ml (Moisture) 1 X Terra Core Sampler
QC Spike/Reps Array 1/Sample Group up to 20 Samples	2 x DI Water Vials	2 x Encore Sampler	N/A	N/A	N/A

**Note 1:** When using Encore samplers there is a 48 hour holding time from the time of sample collection to the time to put sample in solution at the lab.

**Note 2:** Samples extruded in DI water must be frozen at the laboratory within 48 hours or less from the time of collection to extend analytical holding time to 14 days.

## SAMPLE CONTAINER, VOLUMES, PRESERVATIVES, AND HOLDING TIMES

### AIR ANALYSIS

ANALYSIS / LIST	METHOD	CONTAINER	HOLDING TIME	NOTE
TO3	TO3	1 X 1000ml Tedlar Bag <u>or</u> 1 X SUMMA Canister	48 Hours 14 Days	
TO14	TO14	1 X SUMMA Canister	14 Days	
TO15	TO15	1 X SUMMA Canister	14 Days	
EPA18	EPA18	1 X 1000ml Tedlar Bag <u>or</u> 1 X SUMMA Canister	48 Hours 14 Days	

## SAMPLE CONTAINER, VOLUMES, PRESERVATIVES, AND HOLDING TIMES

### SEMI-VOLATILE ORGANICS BY GC & GC/MS

ANALYSIS	AQUEOUS REQUESTED VOLUME	PRESERVATIVE	HOLDING TIME	NOTE	SO/SL/SOL REQUESTED VOLUME	HOLDING TIME
Acid Extractables A625, ATCL, A8270	2 X 1000ml	Cool, ≤ 6 deg. C.	7 Days Extraction 40 Day Analysis	J	1 X 300ml	14 Days Extraction 40 Day Analysis
Base Neutrals B625, BTCL, B8270	2 X 1000ml	Cool, ≤ 6 deg. C.	7 Days Extraction 40 Day Analysis	J	1 X 300ml	14 Days Extraction 40 Day Analysis
PAH by 625 (Not by 610)	2 X 1000ml	Cool, ≤ 6 deg. C.	7 Days Extraction 40 Day Analysis		1 X 300ml	14 Days Extraction 40 Day Analysis
Pesticides(8081), PCB(8082) PEST, PCB,PPCB, PTCL	2 X 1000ml	Cool, ≤ 6 deg. C.	7 Days Extraction 40 Day Analysis	J	1 X 300ml	14 Days Extraction 40 Day Analysis
Herbicides HERB	2 X 1000ml	Cool, ≤ 6 deg. C.	7 Days Extraction 40 Day Analysis		1 X 300ml	14 Days Extraction 40 Day Analysis
D8015 as DRO	2 X 1000ml	Cool, ≤ 6 deg. C. HCl to pH<2	7 Days Extraction 40 Day Analysis		1 X 300ml	14 Days Extraction 40 Day Analysis
EPH	2 X 1000ml	HC TO pH<2, Cool, ≤ 6 deg. C.	7 Days Extraction 40 Day Analysis		1 X 300ml	7 Days Extraction 40 Day Analysis

## SAMPLE CONTAINER, VOLUMES, PRESERVATIVES, AND HOLDING TIMES

### SEMI-VOLATILE ORGANICS BY GC & GC/MS

ANALYSIS	AQUEOUS REQUESTED VOLUME	PRESERVATIVE	HOLDING TIME	NOTE	SO/SL/SOL REQUESTED VOLUME	HOLDING TIME
BNJO25TPHC	2 X 1000ml	HCl to pH<2, Cool, ≤ 6 deg. C.	7 Days Extraction 40 Day Analysis		1 X 300ml	7 Days Extraction 40 Day Analysis
Pesticides/Herbicides In Drinking Water	4 X 1000ml	Cool, ≤ 6 deg. C.	7 Days Extraction 40 Day Analysis	J		
A280-PCB	2 X 1000ml	Cool, ≤ 6 deg. C.	7 Days Extraction 40 Day Analysis	J		
GC Fingerprint by 8015	1 X 1000ml	Cool, ≤ 6 deg. C.	7 Days Extraction 40 Day Analysis		1 X 300ml	14 Days Extraction 40 Day Analysis
B525 (Semi-Volatile Organics in Drinking Water)	2 X 1000ml	HCl to pH<2, Cool, ≤ 6 deg. C. 40 mg Na <sub>2</sub> SO <sub>3</sub>	14 Days Extraction 30 Day Analysis Compd Specific	SUB	-	-

## SAMPLE CONTAINER, VOLUMES, PRESERVATIVES, AND HOLDING TIMES

### RCRA CHARACTERISTICS

ANALYSIS	AQUEOUS REQUESTED VOLUME	PRESERVATIVE	HOLDING TIME	NOTE	SO/SL/SOL REQUESTED VOLUME	HOLDING TIME
Corrosivity- CORR	1 X 300ml	Cool, $\leq$ 6 deg. C.	Not Regulated		1 X 300ml	Not Regulated
Ignitibility- IGN	1 X 300ml	Cool, $\leq$ 6 deg. C.	Not Regulated		1 X 300ml	Not Regulated
Reactive Cyanide- CREAC	1 X 300ml	Cool, $\leq$ 6 deg. C.	Not Regulated		1 X 300ml	Not Regulated
Reactive Sulfide-SREAC	1 X 300ml	Cool, $\leq$ 6 deg. C.	Not Regulated		1 X 300ml	Not Regulated
All Above	1 X 300ml	Cool, $\leq$ 6 deg. C.	Not Regulated		1 X 300ml	Not Regulated

## SAMPLE CONTAINER, VOLUMES, PRESERVATIVES, AND HOLDING TIMES

### TCLP

ANALYSIS	AQUEOUS REQUESTED VOLUME	PRESERVATIVE	HOLDING TIME (LEACHATE)	NOTE	SO/SL/SOL REQUESTED VOLUME	HOLDING TIME (LEACHATE)
Acid Extractables- TCLPA	1 X 1000 Gl	Cool, ≤ 6 deg. C.	14 Days Extraction 40 Day Analysis	L	1 X 300ml	14 Days Extraction 40 Day Analysis
Base Neutrals- TCLPB	1 X 1000 Gl	Cool, ≤ 6 deg. C.	14 Days Extraction 40 Day Analysis	L	1 X 300ml	14 Days Extraction 40 Day Analysis
Herbicides- TCLPH	1 X 1000 Gl	Cool, ≤ 6 deg. C.	14 Days Extraction 40 Day Analysis	L	1 X 300ml	14 Days Extraction 40 Day Analysis
Metals- TCLPM	1 X 1000 Pl	Cool, ≤ 6 deg. C.	Hg-28 Days Extraction. All Others 6 Mo.	L	1 X 300ml	Hg-28 days, All Others-6 Months
Pesticides- TCLPP	1 X 1000 Gl	Cool, ≤ 6 deg. C.	14 Days Extraction 40 Day Analysis	L	1 X 300ml	14 Days Extraction 40 Day Analysis
Volatiles- TCLPV	2 X 40(vo)	Cool, ≤ 6 deg. C.	14 Days Extraction 14 Day Analysis	L	1 X 60ml(vo)	14 Days Extraction 14 Day Analysis
Full TCLP	6 X 1000 Gl 1 X 1000 Pl 2 X 40(vo)	Cool, ≤ 6 deg. C.	See Individual Test	L	1 X 950ml and 1 X 60ml(vo)	See above
Full TCLP w/ RCRA Char.	6 X 1000 Gl 1 X 1000 Pl 1 X 300 Gl 2 X 40(vo)	Cool, ≤ 6 deg. C.	See Individual Test	L	1 X 950ml and 1 X 60ml(vo)	See above

## SAMPLE CONTAINER, VOLUMES, PRESERVATIVES, AND HOLDING TIMES

### Subcontracted Parameters

ANALYSIS	REQUESTED VOLUME (ML)	PRESERVATIVE	HOLDING TIME	NOTE
Air TO-13	PUF/XAD Cartridges	None		SUB
Asbestos in Water	1 X 1000	None	Not Regulated	SUB
Asbestos in Water by EM, SEM	1 X 1000	None	Not Regulated	SUB
Asbestos on Bulk Materials by EM, SEM	1 X 300	None	Not Regulated	SUB
Asbestos on Bulk Materials by PLM	1 X 300	None	Not Regulated	SUB
Bismuth in Soil	1 X 60	Cool, $\leq$ 6 deg. C.	6 Months	SUB
Bismuth in Water	1 X 500	HNO <sub>3</sub> to pH<2, Cool, $\leq$ 6 deg. C.	6 Months	SUB
Divalent Manganese (Modified 7199)	2 X 40mL vials	HCl	14 days	SUB
Explosives (Method 8330)	2 X 1000	None	72 hours	SUB
Formaldehyde	950(aqueous) 300(solid)	Cool, $\leq$ 6 deg. C.	3 Days Extraction 3 Days Derivitization	A, SUB
Grainsize by Hydrometer in Soil/Sludge	1 X 950	Cool, $\leq$ 6 deg. C.		A, SUB
Grainsize by Hydrometer in Water/Sludge	1 X 950	Cool, $\leq$ 6 deg. C.		SUB
Gross Alpha, Gross Beta in Water	2 X 1000	HNO <sub>3</sub>		SUB
Haloacetic Acids (EPA 552)	1 X 250mL Amber	Ammonium Chloride		SUB
Microscopic Identification (MICROID)	1 X 60	None	Not Regulated	SUB
Radium 226, Radium 228 in Water	1 X 1000	HNO <sub>3</sub>		SUB
Radon in Air	1 X Radon Canister	None		K, SUB
Radon in Water (Ra)	1 X 20	Cool, $\leq$ 6 deg. C.	6 Days	K, SUB
SEM/AVS (Method EPA 821/R-91-100)	1 X 500	None	14 days	SUB

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### Subcontracted Parameters

ANALYSIS	REQUESTED VOLUME (ML)	PRESERVATIVE	HOLDING TIME	NOTE
Specific Gravity	100	Cool, $\leq 6$ deg. C.		A, SUB
Total Volatile Organics (TVO)	3x40ml	HCl, pH <2	14 Days	SUB
Volatile Fatty Acids (run by Microbial Insights, includes Formic Acid, Method MI In House)	2 X 40 mL vial	None	24-48 hours of sampling	SUB
Volatile Fatty Acids (Low Level) (Method Microseeps In House)	2 X 40mL vials	Benzalkonium Chloride	7 days	SUB
<b><u>NJ DW SOCs: All Following Tests Required (Methods 508 – 549)</u></b>				
Pesticides (Method 508)	2 X 1L Amber	None	7 days	SUB
Herbicides (Method 515.3)	2 X 250 Amber	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	14 days	SUB
Adipates/Phthalates (Method 525.2)	2 X 1L (specially cleaned w/ Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> to collect in) 2 X 40 ml Vials for analysis	SodSulfite & HCl	14 days	SUB
Carbamate Pesticides (Method 531.1)	1 X 250 (collection bottle) Amber  1 X 40mL vial (analysis bottle)	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>  MAB (Monochloroacetic Acid Buffer)	28 days	SUB
Glyphosate (Method 547)	2 X 40mL vial	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	14 days	SUB
Endothall (Method 548)	2 X 250 Amber	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	7 days	SUB
Diquat/Paraquat (Method 549)	1 X 1L Brown P	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	7 days	SUB

## SAMPLE CONTAINER, VOLUMES, PRESERVATIVES, AND HOLDING TIMES

### Subcontracted Parameters Dioxin/Furan & PCB Analyses

ANALYSIS / MATRIX	REQUESTED CONTAINER (ML)	PRESERVATIVE	HOLDING TIME SAMPLE/EXTRACT	NOTES
8280: Aqueous/Solid	Amber Glass Bottle/Jar AQ: 2 X 1000ml, SO: 1 X 300	4°C	30 days/45 Days	
8290: Aqueous/Solid/Tissue	AGB/AGJ AQ: 2 X 1000ml, SO: 1 X 300	4°C (T: -20C), Dark	30 days/45 Days	
1613: Aqueous/Solid/Tissue	AGB/AGJ AQ: 2 X 1000ml, SO: 1 X 300	A: 0-4°C <sup>2</sup> , S/T:<-10°C	1 Year/45 Days	
613: Aqueous	AGB AQ: 2 X 1000ml	4°C, Dark	7 Days/40 Days	
23: MM5 Train	Train/AGB	0-4°C; Dark	30 days/45 Days	
TO9: PUF	Aluminum Foil	<4°C	7 Days/40 Days	
1668	AGB/AGJ AQ: 2 X 1000ml, SO: 1 X 300	A/S: 0-4°C <sup>2</sup> , T:<-10°C	1 Year	

<sup>1</sup>Mimimum Sample Amount: Aqueous, 1L; Solid, 100g; Tissue, 100g.

<sup>2</sup>If residual chlorine is present in aqueous samples, add 80 mg sodium thiosulfate per liter of water.

## SAMPLE CONTAINER, VOLUMES, PRESERVATIVES, AND HOLDING TIMES

### MISCELLANEOUS PACKAGE CODES

PACKAGE CODE	PACKAGE DESCRIPTION
Chem 5 (DW)	See Total Metals - FE, MN, pH, (NO <sub>3</sub> ) <sub>2</sub> and TCFC
DW Organics	See Pesticides/Herbicides in Drinking Water
DW Inorganics	See Total Metals, F, XNO <sub>3</sub> O, CN, Ca Hardness, SO <sub>4</sub>
DW Secondaries	See pH, TDS, SO <sub>4</sub> , CHL, COL, MBAS, Alk, Metals, HRD, Odor, Corr LI, F, Ca Hardness, Temp(on site)
Residential DW	See VOC and Chem 5 + Total Metals – Pb, Ca Hardness
XTTO	ABN, VOC, PPCB
Permiability	1 Shelby Tube for Soil

## NOTES

- A. Separate container required. Analysis must be first draw from volume submitted.
- B. Cyanides Amenable to Chlorination, a minimum of 100ml is needed for Total Cyanide plus a minimum of 100ml is needed for Cyanide after chlorination.
- C. A 14 day holding time is suggested.
- D. Ferric Iron is a calculation from Total Iron and Ferrous Iron. Sample containers and preservatives should be provided for both Ferrous and Total Iron.
- E. Nitrate only is a calculation from nitrate/nitrite combined and nitrite. Sample containers and preservatives should be provided for both nitrate/nitrite combined and nitrite.
- F. If low levels of TSS are suspected, a larger sample size should be supplied(1000ml).
- H. Leave headspace in the container to facilitate mixing the sample by shaking.
- I. Hydrogen Sulfide is a calculation from sulfide and the field-measured values of the sample's pH, Conductivity, and Temperature. Every attempt should be made to acquire these field measurements in order to calculate a true value.
- J. Ascorbic Acid should be added to the sample volume if drawn from a chlorinated source.
- K. The appropriate sampling container is supplied to Accutest by the subcontract lab.
- L. Samples for TCLP must be leached within 14 days of sampling. Holding times for leachate extraction and extract analysis are specified.

**SUB:** Upon receipt, the sample will be held by Sample Management and await a subcontract order from Client Services for proper disposition. Sample volumes and requirements are per current subcontract facilities utilized by Accutest. Client Services must contact client for project specific subcontract needs.