

VOLATILE ORGANICS- Reporting Limits, Test Capabilities, and Target Analyte List

MATRIX															
Water (Method Analysis by EPA SW-846 8260B)						Sediment/Soil (Method Analysis by EPA SW-846 8260B)					Wastewater (Method Analysis by EPA 624)				
COMPOUND NAME	RL (ug/L)*	Technique	Container	Hold Times	Analysis Request	RL (ug/kg)*	Technique	Container	Hold Times	Analysis Request	RL (ug/L)*	Technique	Container	Hold Times	Analysis Request
1,1,1,2-Tetrachloroethane	1					50					1				
1,1,1-Trichloroethane	1					50					1				
1,1,1,2,2-Tetrachloroethane	1					50					1				
1,1,2-Trichloroethane	1					50					1				
1,1,2-Trichlorotrifluoroethane	1					50					NA**				
1,1-Dichloroethane	1					50					1				
1,1-Dichloroethylene	1					50					1				
1,2,3-Trichlorobenzene	5					250					5				
1,2,3-Trichloropropane	1		3- 40mL glass vial			50		40mL tared			1		3- 40mL glass vial		
1,2,3-Trimethylbenzene	1		with Teflon			50		glass vial; 10g of sample in			1		with Teflon		
1,2,4-Trichlorobenzene	5		Septum;			250		10mL			5		Septum;		
1,2,4-Trimethylbenzene	1		1:1 HCL			50		MeOH			1		1:1 HCL		
1,2-Dibromo-3-chloropropane	5	GC-MS	preserved to pH<2; receive on ice	14 days	Water Analysis Request Form (EQP4014-01 Rev 05/2024)- Volatiles Full List	250	GC-MS	with teflon septum; receive on ice	14 days	Soil Analysis Request Form (EQP4014-03 Rev 01/2024)- Volatiles Full List	5	GC-MS	preserved to pH<2; receive on ice	14 days	Wastewater Request Form (EQP4014-02 Rev 05/2024)- Volatiles Full List
1,2-Dibromoethane	1					50					1				
1,2-Dichlorobenzene	1					50					1				
1,2-Dichloroethane	1					50					1				
1,2-Dichloropropane	1					50					1				
1,3,5-Trimethylbenzene	1					50					1				
1,3-Dichlorobenzene	1					50					1				
1,4-Dichlorobenzene	1					50					1				
2,2,4-Trimethylpentane	5					250					NA**				
2-Butanone (MEK)	5					250					5				
2-Hexanone	NA**					NA**					5				
2-Methylnaphthalene	5					250					5				
2-Propanone (acetone)	20					1000					20				
4-Methyl-2-pentanone (MIBK)	5					250					NA**				
Acrylonitrile	5					250					5				
Benzene	1					50					1				
Bromobenzene	NA**					NA**					1				
Bromochloromethane	1					50					1				
Bromodichloromethane	1					50					1				
Bromoform	1					50					1				
Bromomethane	5					200					5				
Carbon disulfide	1					50					1				
Carbon tetrachloride	1					50					1				
Chlorobenzene	1					50		40mL tared			1		3- 40mL glass vial		
Chloroethane	5		3- 40mL glass vial			250		glass vial; 10g of sample in			5		with Teflon		
Chloroform	1		with Teflon			50		10mL			1		Septum;		
Chloromethane	5		Septum;			250		MeOH			5		1:1 HCL		
cis-1,2-Dichloroethylene	1		1:1 HCL			50		with teflon septum; receive on ice			1		preserved to pH<2; receive on ice		
cis-1,3-Dichloropropylene	1	GC-MS	preserved to pH<2; receive on ice	14 days	Water Analysis Request Form (EQP4014-01 Rev 05/2024)- Volatiles Full List	250	GC-MS		14 days	Soil Request Form (EQP4014-03 Rev 01/2024)- Volatiles- Full List	1	GC-MS		14 days	Wastewater Request Form (EQP4014-02 Rev 05/2024)- Volatiles Full List
Cyclohexane	5					50					5				
Dibromochloromethane	1					50					1				
Dibromomethane	1					50					1				
Dichlorodifluoromethane	5					250					5				
Diethyl ether	5					200					5				
Diisopropyl Ether	5					250					NA**				
Ethylbenzene	1					50					1				
Ethyltertiarybutylether	5					250					NA**				
Hexachloroethane	5					250					5				
Hexane	1					50					NA**				
Isopropylbenzene	1					50					1				
m & p - Xylene	2					100					2				
Methyl iodide	NA**					NA**					1				
Methylcyclopentane	1					50					NA**				
Methylene chloride	5					100					5				

Methyltertiarybutylether	1					50					1				
Naphthalene	5					250					5				
n-Butylbenzene	1					50					1				
n-Heptane	1					50					NA**				
n-Propylbenzene	1					50					1				
o-Xylene	1					50					1				
p-Isopropyl toulene	NA**		3- 40mL			NA**		40mL			1				
sec-Butylbenzene	1		glass vial			50		tared			1		3- 40mL		
Styrene	1		with			50		glass vial;			1		glass vial		
tert-Butylbenzene	1		Teflon			50		10g of			1		with		
tertiary Butyl Alcohol	50	GC-MS	Septum;	14 days	Water Analysis	2500	GC-MS	sample in		Soil Request	1	GC-MS	Teflon	14 days	Wastewater
tertiaryAmylmethylether	5		1:1 HCL		Request Form	250		10mL		Form (EQP4014-	NA**		Septum;		Request Form
Tetrachloroethylene	1		preserved		(EQP4014-01 Rev	50		MeOH	14 days	03 Rev 01/2024)-	NA**		1:1 HCL		(EQP4014-02 Rev
Tetrahydrofuran	5		to pH<2;		05/2024)- Volatiles	250		with teflon		Volatiles- Full List	1		preserved		05/2024)- Volatiles
Toluene	1		receive on		Full List	50		septum;			5		to pH<2;		Full List
trans-1,2-Dichloroethylene	1		ice			50		receive on			1		ice		
trans-1,3-Dichloropropylene	1					50		ice			1				
trans-1,4-Dichloro-2-butene	NA**					NA**					5				
Trichloroethylene	1					50					1				
Trichlorofluoromethane	1					50					1				
Vinyl chloride	1					50					1				

*RL=Reporting Limit

**NA=Not available

VOLATILE ORGANICS CONTINUED- Reporting Limits, Test Capabilities, and Target Analyte List

BTEX/MTBE/TMB Volatiles	MATRIX														
	Water (Method Analysis by EPA SW-846 8260B)					Sediment/Soil (Method Analysis by EPA SW-846 8260B)					Wastewater (Method Analysis by EPA 624)				
	COMPOUND NAME	RL (ug/L)*	Technique	Container	Hold Times	Analysis Request	RL (ug/kg)*	Technique	Container	Hold Times	Analysis Request	RL (ug/L)*	Technique	Container	Hold Times
1,2,3-Trimethylbenzene	1					50					1				
1,2,4-Trimethylbenzene	1		3- 40mL glass vial with Teflon			50		40mL tared glass vial;			1		3- 40mL glass vial with Teflon		
1,3,5-Trimethylbenzene	1		Septum;			50		10g of sample in			1		Septum;		
Benzene	1		1:1 HCL	14 days	Water Analysis Request Form (EQP4014-01 Rev 05/2024)- BTEX/MTBE/TMB	50	GC-MS	10mL MeOH with teflon septum;	14 days	Soil Analysis Request Form (EQP4014-03 Rev 01/2024)- BTEX/MTBE/TMB	1	GC-MS	1:1 HCL preserved to pH<2;	14 days	Wastewater Analysis Request Form (EQP4014-02 Rev 05/2024)- BTEX/MTBE/TMB
Ethylbenzene	1	GC-MS	preserved to pH<2;			50		receive on ice			2		receive on ice		
m & p - Xylene	2					100					1				
Methyltertiarybutylether	1					50					1				
o-Xylene	1					50					1				
Toluene	1					50					1				

Chlorinated Volatiles	MATRIX														
	Water (Method Analysis by EPA SW-846 8260B)					Sediment/Soil (Method Analysis by EPA SW-846 8260B)					Wastewater (Method Analysis by EPA 624)				
	COMPOUND NAME	RL (ug/L)*	Technique	Container	Hold Times	Analysis Request	RL (ug/kg)*	Technique	Container	Hold Times	Analysis Request	RL (ug/L)*	Technique	Container	Hold Times
1,1,1,2-Tetrachloroethane	1					50					1				
1,1,1-Trichloroethane	1					50					1				
1,1,2,2-Tetrachloroethane	1		3- 40mL glass vial with Teflon			50		40mL tared glass vial;			1		3- 40mL glass vial with Teflon		
1,1,2-Trichloroethane	1		Septum;			50		10g of sample in			1		Septum;		
1,1-Dichloroethane	1		1:1 HCL	14 days	Water Analysis Request Form (EQP4014-01 Rev 05/2024)- Chlorinated only	50	GC-MS	10mL MeOH with teflon septum;	14 days	Soil Analysis Request Form (EQP4014-03 Rev 01/2024)- Chlorinated only	1	GC-MS	1:1 HCL preserved to pH<2;	14 days	Wastewater Analysis Request Form (EQP4014-02 Rev 05/2024)- Chlorinated only
1,1-Dichloroethylene	1	GC-MS	preserved to pH<2;			50		receive on ice			1		receive on ice		
1,2-Dichloroethane	1					50					1				
Chloroethane	5					250					5				
cis-1,2-Dichloroethylene	1					50					1				
Tetrachloroethylene	1					50					1				
trans-1,2-Dichloroethylene	1					50					1				
Trichloroethylene	1					50					1				
Vinyl chloride	1					50					1				

1,4- Dioxane	MATRIX				
	Water (Method Analysis by Modified EPA SW-846 8260B SIM)				
	COMPOUND NAME	RL (ug/L)*	Technique	Container	Hold Times
1,4- Dioxane	0.5	GC-MS	2- 40mL glass vial with Teflon Septum;	14 days	Water Analysis Request Form (EQP4014-01 Rev 05/2024)- 1,4 Dioxane
			1:1 HCL preserved to pH<2;		
			receive on ice		

GRO	MATRIX									
	Water (Method Analysis by Modified EPA SW-846 8260B)					Sediment/Soil (Method Analysis by Modified EPA SW-846 8260B)				
	COMPOUND NAME	RL (ug/L)*	Technique	Container	Hold Times	Analysis Request	RL (ug/kg)*	Technique	Container**	Hold Times
Gasoline Range Organics (GRO) for C ₆ -C ₁₀	100	GC-MS	2- 40mL glass vial with Teflon Septum;	14 days	Water Analysis Request Form (EQP4014-01 Rev 05/2024)- GRO	5000	GC-MS	40mL tared glass vial;	14 days	Soil Analysis Request Form (EQP4014-03 Rev 01/2024)- GRO
			1:1 HCL preserved to pH<2;					10g of sample in		
			receive on ice					10mL MeOH with teflon septum;		
								receive on ice		

**Analysis may be taken from same MeOH container as volatiles or GRO analysis

Methane, Ethane, Ethene	MATRIX										
	Water (Method Analysis by EPA TO-14)					Air (Method Analysis by EPA TO-14)					
	COMPOUND NAME	RL (mg/L)*	Technique	Container	Hold Times	Analysis Request	RL (ppmv)*	Technique	Container	Hold Times	Analysis Request
Methane	0.010		2- 40mL glass vial with red rubber septa;	14 days	Water Analysis Request Form (EQP4014-01 Rev 05/2024)- VOA-Methane	20					Air Sample Analysis Request Form (EQP4014-04 Rev 01/2024)- Methane, Ethane, Ethene
Ethane	0.10	GC-FID	1:1 HCL preserved to pH<2;			20	GC-FID	1L Amber Bottlevac or 6L Canister	30 days		
Ethene/Ethylene	0.010		receive on ice			20					

*RL=Reporting Limit

VOLATILE ORGANICS IN AIR- Reporting Limits, Test Capabilities, and Target Analyte List

MATRIX					
Air (Method Analysis by EPA TO-15 2nd Edition)					
COMPOUND NAME	RL (ug/m ³)*	Technique	Container	Hold Times	Analysis Request
1,1,1-Trichloroethane	1.6	GC-MS	1L Amber Bottlevac or 6L Canister	30 days	Air Sample Analysis Request Form (EQP4014-04 Rev 01/2024)- Bottlevac or Canister
1,1,2,2-Tetrachloroethane	2.0				
1,1,2-Trichloroethane	1.6				
1,1,2-Trichlorotrifluoroethane	2.2				
1,1-Dichloroethane	1.2				
1,1-Dichloroethylene	1.2				
1,2,3-Trichlorobenzene	7.2				
1,2,3-Trichloropropane	1.8				
1,2,3-Trimethylbenzene	1.4				
1,2,4-Trichlorobenzene	3.6				
1,2,4-Trimethylbenzene	1.4				
1,2-Dibromo-3-chloropropane	2.8				
1,2-Dibromoethane	2.2				
1,2-Dichlorobenzene	1.8				
1,2-Dichloroethane	1.2				
1,2-Dichloropropane	1.3				
1,3,5-Trimethylbenzene	1.4				
1,3-Butadiene	0.64				
1,3-Dichlorobenzene	1.8				
1,4-Dichlorobenzene	1.8				
2,2,4-Trimethylpentane	1.4				
2-Butanone (MEK)	14				
2-Methylnaphthalene	28				
4-Methyl-2-pentanone (MIBK)	4.0				
Acetone	58				
Acetonitrile	1.6				
Acrylonitrile	1.1				
Benzene	0.93				
Bromobenzene	1.9				
Bromodichloromethane	2.0				
Bromoform	3.0				
Bromomethane	1.1				
Carbon disulfide	0.91				
Carbon tetrachloride	1.8				
Chlorobenzene	1.3				
Chloroethane	0.77				
Chloroform	1.4				
Chloromethane	0.60				
cis-1,2-Dichloroethylene	1.2				
cis-1,3-Dichloropropylene	1.3				
Cyclohexane	1.0				
Dibromochloromethane	2.5				
Dichlorodifluoromethane	1.4				
Diethyl ether	2.9				
Diisopropyl Ether	1.2				
Ethanol	46				
Ethylbenzene	1.3				
Ethyltertiarybutylether	1.2				
Hexachloroethane	2.8				
Hexane	3.4				
Isopropyl Alcohol	60				
Isopropylbenzene	1.4				
m & p - Xylene	1.3				
Methylcyclopentane	1.0				
Methylene chloride	1.0				
Methyltertiarybutylether	1.8				
Naphthalene	25				
n-Butylbenzene	5.3				
n-Heptane	1.2				
n-Propylbenzene	1.4				
o-Xylene	1.3				

Pentane	2.9				
sec-Butylbenzene	1.6				
Styrene	1.2				
tert-Butylbenzene	5.3				
tertiary Butyl Alcohol	74				
tertiaryAmylmethylether	1.2				
Tetrachloroethylene	2.0	GC-MS	1L Amber Bottlevac or 6L Canister	30 days	Air Sample Analysis Request Form (EQP4014-04 Rev 01/2024)- Bottlevac or Canister
Tetrahydrofuran	0.86				
Toluene	1.1				
trans-1,2-Dichloroethylene	1.2				
trans-1,3-Dichloropropylene	1.3				
Trichloroethylene	1.6				
Trichlorofluoromethane	1.6				
Vinyl chloride	0.74				

*RL=Reporting Limit

SEMIVOLATILE ORGANICS- PESTICIDES AND PCB'S- Reporting Limits, Test Capabilities, and Target Analyte List

Pesticides	MATRIX														
	Water (Method Analysis by EPA SW-846 8081B)					Sediment/Soil (Method Analysis by EPA SW-846 8081B)					Wastewater (Method Analysis by EPA 608/612)				
	COMPOUND NAME	RL (ug/L)*	Technique	Container	Hold Times	Analysis Request	RL (ug/kg)*	Technique	Container	Hold Times	Analysis Request	RL (ug/L)*	Technique	Container	Hold Times
a-BHC	0.02					10					0.01				
b-BHC	0.02					20					0.01				
g-BHC (Lindane)	0.02					20					0.01				
d-BHC	0.02					20					0.01				
Heptachlor	0.01					20					0.01				
Aldrin	0.01					20					0.01				
Heptachlor epoxide	0.01					20					0.01				
g-Chlordane	0.01					20					0.01				
Endosulfan I	0.02					20					0.01				
a-Chlordane	0.01					20					0.01				
4,4'-DDE	0.02					20					0.01				
Dieldrin	0.02					20					0.01				
Endrin	0.02					20					0.01				
Endosulfan II	0.03		2- 1000mL			20					NA**		2- 1000mL		
4,4'-DDD	0.02		amber			20					0.01		amber		
2,4'-DDT	0.01		glass			20					NA**		glass		
Endrin aldehyde	0.02	GC-ECD	bottles	7 days	Water Analysis Request Form (EQP4014-01 Rev 05/2024)- Pesticides & PCBs	20				Soil Analysis Request Form (EQP4014-03 Rev 01/2024)- Pesticides & PCBs	NA**		bottles	7 days	Wastewater Analysis Request Form (EQP4014-02 Rev 05/2024)- Pesticides & PCBs
Endosulfan sulfate	0.05		completely		OR Pesticides only	20	GC-ECD	1- 8oz. glass jar; receive on ice	14 days	OR Pesticides only	NA**	GC-ECD	completely		OR Pesticides only
4,4'-DDT	0.02		filled;		OR PCBs only OR	20				OR PCBs only OR	NA**		filled;		OR PCBs only OR
Endrin ketone	0.02		receive on		Toxaphene and	20				Toxaphene and	0.01		receive on		Toxaphene can be
Hexabromobenzene	0.02		ice		Chlordane can be	100				Chlordane can be	0.01		ice		requested
Hexachlorobenzene	NA**				requested	NA**				requested	0.01				separately
Hexachlorobutadiene	NA**				separately	NA**				separately	0.01				
Hexachlorocyclopentadiene	NA**					NA**					0.01				
Methoxychlor	0.05					50					0.05				
Mirex	0.02					50					0.01				
PBB (BP-6)	0.05					250					0.05				
Pentachlorobenzene	NA**					NA**					0.01				
Pentachloronitrobenzene	NA**					NA**					0.01				
Technical Chlordane	0.05					30					NA**				
Toxaphene	0.1					170					0.1				
1,2,3,4-Tetrachlorobenzene	NA**					NA**					0.01				
1,2,4,5-Tetrachlorobenzene	NA**					NA**					0.01				

PCBs	MATRIX														
	Water (Method Analysis by EPA SW-846 8082A)					Sediment/Soil (Method Analysis by EPA SW-846 8082A)					Wastewater (Method Analysis by EPA 608)				
	COMPOUND NAME	RL (ug/L)*	Technique	Container	Hold Times	Analysis Request	RL (ug/kg)*	Technique	Container	Hold Times	Analysis Request	RL (ug/L)*	Technique	Container	Hold Times
Aroclor 1016	0.1					100					0.1				
Aroclor 1221	0.1		2- 1000mL			100					0.1		2- 1000mL		
Aroclor 1232	0.1		amber			100					0.1		amber		
Aroclor 1242	0.1		glass			100					0.1		glass		
Aroclor 1248	0.1	GC-ECD	bottles	1 year	Water Analysis Request Form (EQP4014-01 Rev 05/2024)-PCBs	100	GC-ECD	1- 8oz. glass jar; receive on ice	1 year	Soil Analysis Request Form (EQP4014-03 Rev 01/2024)- PCBs	0.1	GC-ECD	bottles	1 year	Wastewater Request Form (EQP4014-02 Rev 05/2024)- PCBs
Aroclor 1254	0.1		completely		only OR	100				only OR Pesticides & PCBs	0.1		completely		only
Aroclor 1260	0.1		filled;		Pesticides & PCBs	100					0.1		filled;		
Aroclor 1262	0.1		receive on			100					0.1		receive on		
Aroclor 1268	0.1		ice			100					0.1		ice		

*RL=Reporting Limit
 **NA=Not available

SEMIVOLATILE ORGANICS- BASE/NEUTRAL/ACID (BNA) - Reporting Limits, Test Capabilities, and Target Analyte List

COMPOUND NAME	MATRIX														
	Water (Method Analysis by EPA SW-846 8270E)					Sediment/Soil (Method Analysis by EPA SW-846 8270E)					Wastewater (Method Analysis by EPA 625)				
	RL (ug/L)*	Technique	Container	Hold Times	Analysis Request	RL (ug/kg)*	Technique	Container	Hold Times	Analysis Request	RL (ug/L)*	Technique	Container	Hold Times	Analysis Request
1,2,4-Trichlorobenzene	2					200					2				
2,4,5-Trichlorophenol	5					330					10				
2,4,6-Trichlorophenol	4					330					10				
2,4-Dichlorophenol	10					330					10				
2,4-Dimethylphenol	5					330					10				
2,4-Dinitrophenol	25					1700					50				
2,4-Dinitrotoluene	5					250					5				
2,6-Dinitrotoluene	5					250					5				
2-Chloroaniline	5					NA**					NA**				
2-Chloronaphthalene	2		2- 1000mL			200					2		2- 1000mL		
2-Chlorophenol	10		amber glass			330					10		amber glass		Wastewater
2-Methyl-4,6-dinitrophenol	20		bottles		Water Analysis	1700		1- 8oz.		Soil Analysis	50		bottles		Analysis
2-Methylnaphthalene	5	GC-MS	completely	7 days	Request Form	250	GC-MS	glass jar;	14 days	Request Form	5	GC-MS	completely	7 days	Request Form
2-Methylphenol (o-Cresol)	10		filled;		(EQP4014-01 Rev	330		receive		(EQP4014-03 Rev	10		filled;		(EQP4014-02 Rev
2-Nitroaniline	20		receive on		05/2024)- BNAs	500		on ice		01/2024)- BNAs	20		receive on		05/2024)- BNAs
2-Nitrophenol	5		ice			330					10		ice		
3 & 4-Methylphenol	20					660					20				
3-Nitroaniline	20					500					20				
4-Bromophenyl phenyl ether	2					200					2				
4-Chloro-3-methyl-phenol	5					200					10				
4-Chloroaniline	10					NA**					NA**				
4-Chlorodiphenylether	1					100					1				
4-Nitroaniline	20					500					20				
4-Nitrophenol	25					1700					50				
Acenaphthene	1					100					1				
Acenaphthylene	1					100					1				
Aniline	4					NA**					NA**				
Anthracene	1					100					1				
Azobenzene	2					200					2				
Benz[a]anthracene	1					100					1				
Benzo[a]pyrene	1					200					2				
Benzo[b]fluoranthene	1					200					2				
Benzo[g,h,i]perylene	1					200					2				
Benzo[k]fluoranthene	1					200					2				
Benzyl Alcohol	50					2500					NA**				
Bis(2-chloroethoxy)methane	2					200					2				
Bis(2-chloroethyl)ether	1					100					1				
Bis(2-chloroisopropyl)ether	1		2- 1000mL			100					1		2- 1000mL		Wastewater
Bis(2-ethylhexyl)phthalate	5		amber glass		Water Analysis	250		1- 8oz.		Soil Analysis	5		amber glass		Analysis
Butyl benzyl phthalate	5		bottles		Request Form	250		glass jar;		Request Form	5		bottles		Request Form
Carbazole	5	GC-MS	completely	7 days	(EQP4014-01 Rev	250	GC-MS	receive	14 days	(EQP4014-03 Rev	10	GC-MS	completely	7 days	(EQP4014-02 Rev
Chrysene	1		filled;		05/2024)- BNAs	100		on ice		01/2024)- BNAs	1		filled;		05/2024)- BNAs
Dibenz[a,h]anthracene	2		receive on			200					2		receive on		
Dibenzofuran	4		ice			250					5		ice		
Diethylphthalate	5					250					5				
Dimethyl phthalate	5					250					5				
Di-n-butyl phthalate	5					250					5				
Di-n-octyl phthalate	5					250					5				
Fluoranthene	1					100					1				
Fluorene	1					100					1				
Hexachlorobenzene	1					200					2				
Hexachlorobutadiene	1					100					2				
Hexachlorocyclopentadiene	10					1000					10				
Hexachloroethane	1					100					1				
Indeno(1,2,3-c,d)pyrene	2					200					2				
Isophorone	1					100					1				

N,N-dimethylaniline	5					NA**					NA**				
Naphthalene	1					100					1				
Nitrobenzene	2					200					2				
N-methylaniline	1		2- 1000mL amber glass bottles			NA**					NA**		2- 1000mL amber glass bottles		
N-Nitrosodimethylamine	5		completely filled;	7 days	Water Analysis Request Form (EQP4014-01 Rev 05/2024)- BNAs	250		1- 8oz. glass jar;	14 days	Soil Analysis Request Form (EQP4014-03 Rev 01/2024)- BNAs	5		completely filled;	7 days	Wastewater Analysis Request Form (EQP4014-02 Rev 05/2024)- BNAs
N-Nitrosodi-n-propylamine	2	GC-MS	receive on ice			200	GC-MS	receive on ice			2	GC-MS	receive on ice		
N-Nitrosodiphenylamine	2					200					2				
Pentachlorophenol	20					1700					50				
Phenanthrene	1					100					1				
Phenol	5					330					10				
Pyrene	1					100					1				
Tetramethylurea	1					NA**					NA**				

*RL=Reporting Limit
 **NA=Not available

SEMIVOLATILE ORGANICS- BASE/NEUTRAL (BN) - Reporting Limits, Test Capabilities, and Target Analyte List

MATRIX										
	Water (Method Analysis by EPA SW-846 8270E)					Sediment/Soil (Method Analysis by EPA SW-846 8270E)				
COMPOUND NAME	RL (ug/L)*	Technique	Container	Hold Times	Analysis Request	RL (ug/kg)*	Technique	Container	Hold Times	Analysis Request
1,2,4-Trichlorobenzene	2					200				
2,4-Dinitrotoluene	5					250				
2,6-Dinitrotoluene	5					250				
2-Chloroaniline	5					NA**				
2-Chloronaphthalene	2					200				
2-Methylnaphthalene	5					250				
2-Nitroaniline	20					500				
3-Nitroaniline	20					500				
4-Bromophenyl phenyl ether	2					200				
4-Chloroaniline	10					NA**				
4-Chlorodiphenylether	1					100				
4-Nitroaniline	20					500				
Acenaphthene	1	GC-MS	2- 1000mL amber glass bottles completely filled; receive on ice	7 days	Water Analysis Request Form (EQP4014-01 Rev 05/2024)- BNs only	100	GC-MS	1- 8oz. glass jar; receive on ice	14 days	Soil Analysis Request Form (EQP4014-03 Rev 01/2024)- BNs only
Acenaphthylene	1					100				
Aniline	4					NA**				
Anthracene	1					100				
Azobenzene	2					200				
Benz[a]anthracene	1					100				
Benzo[a]pyrene	1					200				
Benzo[b]fluoranthene	1					200				
Benzo[g,h,i]perylene	1					200				
Benzo[k]fluoranthene	1					200				
Benzyl Alcohol	50					2500				
Bis(2-chloroethoxy)methane	2					200				
Bis(2-chloroethyl)ether	1					100				
Bis(2-chloroisopropyl)ether	1					100				
Bis(2-ethylhexyl)phthalate	5					250				
Butyl benzyl phthalate	5					250				
Carbazole	5					250				
Chrysene	1					100				
Dibenz[a,h]anthracene	2	GC-MS	2- 1000mL amber glass bottles completely filled; receive on ice	7 days	Water Analysis Request Form (EQP4014-01 Rev 05/2024)- BNs only	200	GC-MS	1- 8oz. glass jar; receive on ice	14 days	Soil Analysis Request Form (EQP4014-03 Rev 01/2024)- BNs only
Dibenzofuran	4					250				
Diethylphthalate	5					250				
Dimethyl phthalate	5					250				
Di-n-butyl phthalate	5					250				
Di-n-octyl phthalate	5					250				
Fluoranthene	1					100				
Fluorene	1					100				

Hexachlorobenzene	1					200				
Hexachlorobutadiene	1					100				
Hexachlorocyclopentadiene	10					1000				
Hexachloroethane	1					100				
Indeno(1,2,3-c,d)pyrene	2					200				
Isophorone	1					100				
N,N-dimethylaniline	5	GC-MS	2- 1000mL amber glass bottles completely filled; receive on ice	7 days	Water Analysis Request Form (EQP4014-01 Rev 05/2024)- BNs only	NA**	GC-MS	1- 8oz. glass jar; receive on ice	14 days	Soil Analysis Request Form (EQP4014-03 Rev 01/2024)- BNs only
Naphthalene	1					100				
Nitrobenzene	2					200				
N-methylaniline	1					NA**				
N-Nitrosodimethylamine	5					250				
N-Nitrosodi-n-propylamine	2					200				
N-Nitrosodiphenylamine	2					200				
Phenanthrene	1					100				
Pyrene	1					100				
Tetramethylurea	1					NA**				

*RL=Reporting Limit

**NA=Not available

SEMIVOLATILE ORGANICS- POLYNUCLEAR AROMATICS (PNA), PHENOLS (ACIDS), and DRO/ORO - Reporting Limits, Test Capabilities, and Target Analyte List

PNAs	MATRIX									
	Water (Method Analysis by EPA SW-846 8270E)					Sediment/Soil (Method Analysis by EPA SW-846 8270E)				
	COMPOUND NAME	RL (ug/L)*	Technique	Container	Hold Times	Analysis Request	RL (ug/kg)*	Technique	Container	Hold Times
2-Methylnaphthalene	5	GC-MS	2- 1000mL amber glass bottles completely filled; receive on ice	7 days	Water Analysis Request Form (EQP4014-01 Rev 05/2024)- PNAs only	250	GC-MS	1- 8oz. glass jar; receive on ice	14 days	Soil Analysis Request Form (EQP4014-03 Rev 01/2024)- PNAs only
Acenaphthene	1					100				
Acenaphthylene	1					100				
Anthracene	1					100				
Benz[a]anthracene	1					100				
Benzo[a]pyrene	1					200				
Benzo[b]fluoranthene	1					200				
Benzo[g,h,i]perylene	1					200				
Benzo[k]fluoranthene	1					200				
Chrysene	1					100				
Dibenz[a,h]anthracene	2					200				
Fluoranthene	1					100				
Fluorene	1					100				
Indeno(1,2,3-c,d)pyrene	2					200				
Naphthalene	1					100				
Phenanthrene	1					100				
Pyrene	1					100				

Acids	MATRIX					
	Water (Method Analysis by EPA SW-846 8270E)					
	COMPOUND NAME	RL (ug/L)*	Technique	Container	Hold Times	Analysis Request
2,4,5-Trichlorophenol	5	GC-MS	2- 1000mL amber glass bottles completely filled; receive on ice	7 days	Water Analysis Request Form (EQP4014-01 Rev 05/2024)- Acids only	
2,4,6-Trichlorophenol	4					
2,4-Dichlorophenol	10					
2,4-Dimethylphenol	5					
2,4-Dinitrophenol	25					
2-Chlorophenol	10					
2-Methyl-4,6-dinitrophenol	20					
2-Methylphenol (o-Cresol)	10					
2-Nitrophenol	5					
3 & 4-Methylphenol	20					
4-Chloro-3-methyl-phenol	5					
4-Nitrophenol	25					
Pentachlorophenol	20					
Phenol	5					

DRO/ORO	MATRIX									
	Water (Method Analysis by EPA SW-846 8015C)					Sediment/Soil (Method Analysis by EPA SW-846 8015C)				
	COMPOUND NAME	RL (ug/L)*	Technique	Container	Hold Times	Analysis Request	RL (ug/kg)*	Technique	Container	Hold Times
Diesel Range Organics (C ₁₀ -C ₂₀)	100	GC-FID	2- 1000mL amber glass bottles completely filled; receive on ice	7 days	Water Analysis Request Form (EQP4014-01 Rev 05/2024)- DRO / ORO	25000	GC-FID	1- 8oz. glass jar; receive on ice	14 days	Soil Analysis Request Form (EQP4014-03 Rev 01/2024)- DRO / ORO
Oil Range Organics (C ₂₀ -C ₃₄)	500					100000				

*RL=Reporting Limit

SEMIVOLATILE ORGANICS- PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS) - Reporting Limits, Test Capabilities, and Target Analyte List

COMPOUND NAME	MATRIX									
	Water and Wastewater (Method Analysis by EPA SW-846 8327 Revision 0)					Soil and Sediment (Method Analysis by EPA SW-846 8327 Revision 0)				
	RL (ng/L)*	Technique	Container	Hold Times	Analysis Request	RL (ng/kg)*	Technique	Container	Hold Times	Analysis Request
Perfluoro-1-butanesulfonic acid (PFBS)	2.0					10				
Perfluoro-1-pentanesulfonic acid (PFPeS)	2.0					10				
Perfluoro-1-hexanesulfonic acid (PFHxS)	2.0					10				
Perfluoro-1-heptanesulfonic acid (PFHpS)	2.0					10				
Perfluoro-1-octanesulfonic acid (PFOS)	2.0					10				
Perfluoro-1-nonanesulfonic acid (PFNS)	2.0					10				
Perfluoro-1-decanesulfonic acid (PFDS)	2.0					10				
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2FTS)	2.0					10				
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2FTS)	2.0					10				
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2FTS)	2.0					10				
Perfluoro-n-butanoic acid (PFBA)	4.0					10				
Perfluoro-n-pentanoic acid (PFPeA)	2.0					10				
Perfluoro-n-hexanoic acid (PFHxA)	2.0					10				
Perfluoro-n-heptanoic acid (PFHpA)	2.0					10				
Perfluoro-n-octanoic acid (PFOA)	2.0					10				
Perfluoro-n-nonanoic acid (PFNA)	2.0					10				
Perfluoro-n-decanoic acid (PFDA)	2.0					10				
Perfluoro-n-undecanoic acid (PFUnDA)	2.0					10				
Perfluoro-n-dodecanoic acid (PFDoDA)	2.0					10				
Perfluoro-n-tridecanoic acid (PFTrDA)	4.0					10				
Perfluoro-n-tetradecanoic acid (PFTeDA)	4.0					10				
Perfluoro-1-butanedisulfonamide (PFBSA)	2.0					10				
Perfluoro-1-hexanedisulfonamide (PFHxSA)	2.0					10				
Perfluoro-1-octanedisulfonamide (PFOSA)	2.0					10				
N-methylperfluoro-1-octanedisulfonamidoacetic acid (NMeFOSAA)	2.0					10				
N-ethylperfluoro-1-octanedisulfonamidoacetic acid (NEtFOSAA)	2.0					10				
Perfluoro-2-propoxypropanoic acid (HFPO-DA)	4.0					10				
Perfluoro-4-methoxybutanoic acid (ADONA)	2.0					10				
9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	2.0					10				
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0					10				
Perfluoro-4-ethylcyclohexanesulfonate (PFECyHS)	2.0					10				
1H,1H,2H,2H,3H,3H-perfluoro-n-hexanoic acid (3:3FTCA)	4.0					10				
1H,1H,2H,2H,3H,3H-perfluoro-n-octanoic acid (5:3FTCA)	2.0					10				
1H,1H,2H,2H,3H,3H-perfluoro-n-decanoic acid (7:3FTCA)	2.0					10				

*RL=Reporting Limit

INORGANIC METALS- Reporting Limits, Test Capabilities, and Target Analyte List

MATRIX																								
Water						Sediment/Soil/Dust Wipe					HiVol Air Filter					PM10 Air Filter								
ANALYTE NAME	RL (ug/L)*	Technique	Container	Hold Times	Analysis Request	RL (mg/kg dry or ug/wipe)*	Technique	Container	Hold Times	Analysis Request	RL (ug/L)***	Technique	Container	Hold Times	Analysis Request	RL (ug/L)***	Technique	Container	Hold Times	Analysis Request				
Aluminium (Al)	5	EPA 200.8 by ICP-MS	250mL plastic bottle; 1:1 HNO ₃ preserved to pH<2	180 days	Water Analysis Request Form (EQP4014-01 Rev 05/2024) - Can order each metal ala carte as a total metal or a dissolved metal sample.*** There is also the option to order as a metals package such as OpMemo2 package or Michigan10 package. See footnote below for listing of metals. grouped within each package.**	1	EPA 200.8 by ICP-MS	1- 8oz glass jar OR 1- Dust Wipe per 50mL plastic vial	180 days	Soil Analysis Request Form (EQP4014-03 Rev 01/2024) -Can order each metal ala carte as a total metal . There is also the option to order as a metals package such as OpMemo2 package or Michigan10 package. See footnote below for listing of metals grouped within each package.**	NA*	Method EQL-0310-189-IML 2009 by ICP-MS	5 x 11 1/2" envelope provided by Air Monitoring Unit	180 days	Chain of custodies are generated and provided at the time of receipt by EGLE Air Quality Division personnel which include individual sample air volumes that was received during sampling. Each unique site has an associated suite of metal analytes assigned to it.	NA	Method EQL-0310-189-IML 2009 by ICP-MS	5 x 11 1/2" envelope provided by Air Monitoring Unit	180 days	Chain of custodies are generated and provided at the time of receipt by EGLE Air Quality Division personnel which include individual sample air volumes that was received during sampling. Each unique site has an associated suite of metal analytes assigned to it.				
Antimony (Sb)	1					0.3					NA*					NA								
Arsenic (As)	1					0.5					1					1								
Barium (Ba)	5					1					50					5								
Beryllium (Be)	1					0.2					1					1								
Boron (B)	20					NA*					NA*					NA								
Cadmium (Cd)	0.2					0.2					1					1								
Calcium (Ca)	1000					50					NA*					NA								
Chromium (Cr), Total	1					2					10					10								
Dissolved Chromium, Hexavalent (Field Filtered upon collection)	5	USGS I-1230-85 by Colormetric Detection via Spectrophotometer	125mL plastic	24 hours	Water Analysis Request Form (EQP4014-01 Rev 05/2024) - Diss Cr6+	NA*					NA*		180 days	NA		180 days								
Cobalt (Co)	5	EPA 200.8 by ICP-MS	250mL plastic bottle; 1:1 HNO ₃ preserved to pH<2	180 days	Water Analysis Request Form (EQP4014-01 Rev 05/2024) - Can order each metal ala carte as a total metal or a dissolved metal sample.*** There is also the option to order as a metals package such as OpMemo2 package or Michigan10 package. See footnote below for listing of metals grouped within each package.**	0.5	EPA 200.8 by ICP-MS	1- 8oz glass jar OR 1- Dust Wipe per 50mL plastic vial	180 days	Soil Analysis Request Form (EQP4014-03 Rev 01/2024) -Can order each metal ala carte as a total metal . There is also the option to order as a metals package such as OpMemo2 package or Michigan10 package. See footnote below for listing of metals grouped within each package.**	1	Method EQL-0310-189-IML 2009 by ICP-MS	5 x 11 1/2" envelope provided by Air Monitoring Unit	180 days	Chain of custodies are generated and provided at the time of receipt by EGLE Air Quality Division personnel which include individual sample air volumes that was received during sampling. Each unique site has an associated suite of metal analytes assigned to it.	1	Method EQL-0310-189-IML 2009 by ICP-MS	5 x 11 1/2" envelope provided by Air Monitoring Unit	180 days	Chain of custodies are generated and provided at the time of receipt by EGLE Air Quality Division personnel which include individual sample air volumes that was received during sampling. Each unique site has an associated suite of metal analytes assigned to it.				
Copper (Cu)	1	1				10	5																	
Iron (Fe)	20	5				120	100																	
Lead (Pb)	1	1				5	2																	
Lithium (Li)	10	10				NA*	NA																	
Magnesium (Mg)	500	100				NA*	NA																	
Manganese (Mn)	5	1				5	5																	
Mercury (Hg)	0.2	EPA 245.1 by CVAAS				28 days	0.05				EPA SW-846 7473					NA*						28 days	NA*	NA
Mercury (Hg)- Low Level	0.0005	EPA 1631E by CVAAS				500mL clear glass with Teflon-lined cap	90 days				Water Analysis Request Form (EQP4014-01 Rev 05/2024) - Low Level Mercury					NA*					NA*		180 days	NA

Molybdenum (Mo)	5	EPA 200.8 by ICP-MS	250mL plastic bottle; 1:1 HNO3 preserved to pH<2	180 days	Water Analysis Request Form (EQP4014-01 Rev 05/2024) - Can order each metal ala carte as a total metal or a dissolved metal sample.*** There is also the option to order as a metals package such as OpMemo2 package or Michigan10 package. See footnote below for listing of metals. grouped within each package.**	1	EPA 200.8 by ICP-MS	1- 8oz glass jar OR 1- Dust Wipe per 50mL plastic vial	180 days	Soil Analysis Request Form (EQP4014-03 Rev 01/2024) -Can order each metal ala carte as a total metal . There is also the option to order as a metals package such as OpMemo2 package or Michigan10 package. See footnote below for listing of metals. grouped within each package.**	2	Method EQL-0310-189-IML 2009 by ICP-MS	5 x 11 1/2" envelope provided by Air Monitoring Unit	180 days	Chain of custodies are generated and provided at the time of receipt by EGLE Air Quality Division personnel which include individual sample air volumes that was received during sampling. Each unique site has an associated suite of metal analytes assigned	2	Method EQL-0310-189-IML 2009 by ICP-MS	5 x 11 1/2" envelope provided by Air Monitoring Unit	180 days	Chain of custodies are generated and provided at the time of receipt by EGLE Air Quality Division personnel which include individual sample air volumes that was received during sampling. Each unique site has an associated suite of metal analytes assigned	
Nickel (Ni)	2					1	EPA 200.7 by ICP-OES				5										10
Potassium (K)	200	EPA 200.7 by ICP-OES				100	EPA 200.7 by ICP-OES				NA*										NA
Selenium (Se)	1	EPA 200.8 by ICP-MS				0.2	EPA 200.8 by ICP-MS				NA*										NA
Silver (Ag)	0.2					0.1	EPA 200.8 by ICP-MS				NA*										NA
Sodium (Na)	1000	EPA 200.7 by ICP-OES				100	EPA 200.7 by ICP-OES				NA*										NA
Strontium (Sr)	5	EPA 200.8 by ICP-MS				1	EPA 200.8 by ICP-MS				NA*										NA
Thallium (Tl)	2					0.5					NA*										NA
Titanium (Ti)	5					1					NA*										NA
Uranium (U)	1					0.5					NA*										NA
Vanadium (V)	2					1					1										1
Zinc (Zn)	5					1					30										30

*RL=Reporting Limit and *NA=Not Available

****Metals Packages** OpMemo2 (Sb, As, Ba, Be, Cd, Cr, Cu, Co, Fe, Pb, Mn, Hg, Mo, Ni, Se, Ag, Tl, V, Zn)
 (OpMemo2 package not available for Ghost Wipe analysis)

Michigan10 (As, Ba, Cd, Cr, Cu, Pb, Hg, Se, Ag, Zn)

Due to limited sample size and sample preparation needs, Antimony (Sb) and Mercury (Hg) can not be requested for Dust Wipes.

*****Dissolved Metals** Dissolved metals samples must be filtered through a 0.45 micron filter in the field at the time of collection or as soon as practical.

*****Filter Reporting Limits** Reporting limits that are listed are in the initial units of ug/L. Final units are calculated to ng/m³ based upon each sample's individual air volume received.

INORGANIC NON- METALS- Reporting Limits, Test Capabilities, and Target Analyte List

MATRIX										
Water and Wastewater						Sediment/Soil				
ANALYTE NAME	RL (mg/L)*	Technique	Container	Hold Times	Analysis Request (Water Analysis Request Form EQP4014-01 and Wastewater Request Form EQP4014-02)	RL (mg/kg dry)*	Technique	Container	Hold Times	Analysis Request (Soil Analysis Request Form EQP4014-03)
Alkalinity, Total	25	EPA 310.2 by Automated Colorimetric, Methyl Orange Detection	125mL plastic bottle; receive on ice	14 days	Total Alkalinity	NA*	NA*	NA*	NA*	NA*
Alkalinity, Bicarbonate/Carbonate	5.0	SM2320B by Phenolphthalein Titration	125mL plastic bottle	14 days	Bicarb/Carb Alkalinity (includes Total Alkalinity)					
Ammonia	0.01	EPA 350.1 by Automated Colorimetric Detection	250mL plastic bottle; 1:1 H ₂ SO ₄ preserved to pH<2; receive on ice	28 days	Ammonia -NH ₃					
Chloride	4.0	SM4500Cl-E by Automated Colorimetric, Ferricyanide Detection	125mL plastic bottle; receive on ice	28 days	Chloride - Cl					
Chlorophyll	0.001	EPA 445.0 by Fluorometric Detection via Manual Fluorometer	250mL amber plastic bottle; 1% MgCO ₃ preserved	48 hours	Chlorophyll					
Chemical Oxygen Demand (COD)	5.0	EPA 410.4 by Colorimetric Detection via Manual Spectrophotometer	250mL plastic bottle; 1:1 H ₂ SO ₄ preserved to pH<2; receive on ice	28 days	Chem Oxyg Dem					
Conductance, Specific	umhos/cm	EPA 120.1 by Automated ECM Module	125mL plastic bottle; receive on ice	28 days	Conductivity					
Cyanide, Available	0.002	ASTM D6888-16 by Automated Amperometric Detection	125mL plastic bottle; 10N NaOH preserved to pH12; receive on ice	14 days	Available Cyanide					

Cyanide, Total	0.005	ASTM D7284-13 by Automated Amperometric Detection and Manual Micro Distillation	125mL plastic; 10N NaOH preserved to pH12; receive on ice	14 days	Total Cyanide	0.10	ASTM D7284-13 by Automated Amperometric Detection and Manual Micro Distillation	1- 8oz glass jar with Teflon-lined cap	14 days	Total Cyanide
Nitrate	0.010	Calculation (Nitrate+Nitrite minus Nitrite)	see parent bottles	48 hours	Nitrate - NO ₃ (Calc.)	NA*	NA*	NA*	NA*	NA*
Nitrate + Nitrite	0.010	Systea Easy (1-Reagent)	250mL plastic bottle; 1:1 H2SO4 preserved to pH<2; receive on ice	28 days	Nitrate+Nitrite					
Nitrite	0.010	Systea Easy (1-Reagent)	125mL plastic bottle; receive on ice	48 hours	Nitrite - NO ₂					
Nitrogen, Kjeldahl	0.20	EPA 351.2 by Automated Colorimetric Detection	250mL plastic bottle; 1:1 H2SO4 preserved to pH<2; receive on ice	28 days	Kjeldahl Nitrogen					
Ortho-Phosphate and Dissolved Ortho-Phosphate	0.010	EPA 365.1 by Automated Colorimetric Detection via Ascorbic Acid Reduction	125mL plastic bottle; receive on ice	48 hours	Ortho Phospate OR Diss O-Phos**					
pH	pH units	EPA 150.1 by Automated Electrometric Detection	125mL plastic bottle; receive on ice	15 minutes	pH					
Phosphorous, Total	0.010	EPA 365.1 by Automated Colorimetric Detection via Ascorbic Acid Reduction	250mL plastic bottle; 1:1 H2SO4 preserved to pH<2; receive on ice	28 days	Total Phosphorus					
Suspended Solids (SS)	4	SM2540D by Gravimetric Determination of Non-filterable Solids	500mL plastic bottle; receive on ice	7 days	Suspended Solids					
Total Dissolved Solids (TDS)	20	SM2540C by Gravimetric Determination of Total Filterable Solids	500mL plastic bottle; receive on ice	7 days	Diss Solids					

Sulfate	5	ASTM D516-16 by Automated Turbidimetric Detection via Spectrophotometer	125mL plastic bottle; receive on ice	28 days	Sulfate - SO ₄					
Total Organic Carbon (TOC) and Dissolved Organic Carbon (DOC)	0.5	SM5310C by Heated Persulfate Oxidation and Automated NDIR Determination	40mL glass vial pre-preserved with H ₃ PO ₄ ; receive on ice	28 days	Total Org Carbon OR Diss Org Carbon**	NA*	NA*	NA*	NA*	NA*
Total Solids	NA*	NA*	NA*	NA*	NA*	0.1 (%)	SM2540G by Gravimetric Determination of Total Solids	1- 8oz glass jar with Teflon-lined cap OR capped syringe for VOA analysis only	NA*	Included within various soil analysis requests
Turbidity	1.0 (NTU)	EPA 180.1 by Nephelometric Detection via Manual Turbidimeter	500mL plastic bottle; receive on ice	48 hours	Turbidity	NA*	NA*	NA*	NA*	NA*

*RL=Reporting Limit and *NA=Not Available

**Field Filtered Dissolved Orthophosphate samples must be filtered through a 0.45 micron filter in the field immediately after collection.
Dissolved Organic Carbon (DOC) samples must be filtered through a 0.45 micron filter in the field and then preserved within 48 hours of collection.

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