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18-002

Revised March 2021

Guidance for Conducting Reapplication Sampling for Publicly Owned Treatment Works (Formerly Known as Pollutant Scan)

The Clean Water Act regulations promulgated under 40 CFR 122.21(j) requires all publicly owned treatment works (POTWs) to provide data from a minimum of three samples taken within four and one-half years prior to the date of the permit application. Samples must be representative of the seasonal variation in the discharge from each outfall and the analytical results provided with the NPDES permit application.

The permittee shall monitor the effluent for the parameters set forth below using the analytical methods in 40 CFR 136. Monitoring is required to be completed three times during the current permit term with testing in the first, third and fifth year of the permit and must be representative of the seasonal variation in the discharge. The analytical data obtained from the monitoring shall be submitted as an attachment to the next NPDES permit application.

All POTWs are required to submit NPDES Combined Form 1 & 2A, *National Pollutant Discharge Elimination System Permit Application for a Facility Discharging Domestic Wastewater* six months prior to permit expiration. These sampling requirements must be met at that time and the analytical results attached. If any pollutants listed above are monitored in the accompanying NPDES permit, redundant sampling will not be necessary.

The Clean Water Act regulations promulgated under 40 CFR 122.21(j) requires all POTWs to provide analytical results for the following pollutants (Storet code in brackets):

- Biochemical oxygen demand (BOD–5 or CBOD–5) [00310 or 80082]
- Fecal coliform (unless *E. coli* is a current permit requirement) [31615 or 31648]
- Design Flow Rate [50050]
- pH [00400]
- Temperature [00011]
- Total suspended solids [00530]

The Clean Water Act regulations promulgated under 40 CFR 122.21(j) requires all POTWs with a design flow of 0.1 MGD or greater to provide the following additional data:

Additional Monitoring for POTWs with a Design Flow of 0.1 MGD or Greater

- Ammonia (as N) [00610]
- Chlorine (total residual, TRC), if chlorine is used for disinfection [50060]
- Dissolved oxygen [00300]
- Nitrate/Nitrite [00630]
- Kjeldahl nitrogen [00625]
- Oil and grease [00552]
- Phosphorus [00665]
- Total dissolved solids [70295]

Additional Monitoring for POTWs with a Design Flow of 1.0 MGD or Greater

The Clean Water Act regulations promulgated under 40 CFR 122.21(j) requires POTWs with a Design flow of 1.0 MGD or greater to provide the following additional data:

Metals Monitoring						
Parameters	Units	Storet Code	Result	Method detection limit	Monitoring Frequency	Sample Type
Antimony, Total Recoverable	µg/L	01268	Report	Report	Three times per permit term	24 hour composite
Arsenic, Total Recoverable	µg/L	00978	Report	Report	Three times per permit term	24 hour composite
Beryllium, Total Recoverable	µg/L	00998	Report	Report	Three times per permit term	24 hour composite
Cadmium, Total Recoverable	µg/L	01113	Report	Report	Three times per permit term	24 hour composite
Chromium, Total Recoverable	µg/L	01118	Report	Report	Three times per permit term	24 hour composite
Copper, Total Recoverable	µg/L	01119	Report	Report	Three times per permit term	24 hour composite
Lead, Total Recoverable	µg/L	01114	Report	Report	Three times per permit term	24 hour composite
Mercury, Total Recoverable	µg/L	71901	Report	Report	Three times per permit term	24 hour composite
Nickel, Total Recoverable	µg/L	01074	Report	Report	Three times per permit term	24 hour composite
Selenium, Total Recoverable	µg/L	00981	Report	Report	Three times per permit term	24 hour composite
Silver, Total Recoverable	µg/L	01079	Report	Report	Three times per permit term	24 hour composite
Thallium, Total Recoverable	µg/L	00982	Report	Report	Three times per permit term	24 hour composite
Zinc, Total Recoverable	µg/L	01094	Report	Report	Three times per permit term	24 hour composite
Inorganic Compounds						
Parameters	Units	Storet Code	Result	Method detection limit	Monitoring Frequency^(b)	Sample Type
Cyanide	mg/L	00720	Report	Report	Three times per permit term	24 hour composite

Total Phenolic Compounds	mg/L	70029	Report	Report	Three times per permit term	24 hour composite
Total Phosphorus	mg/L	00665	Report	Report	Three times per permit term	24 hour composite
Hardness, as CaCO ₃	mg/L	00900	Report	Report	Three times per permit term	24 hour composite
Volatile Organic Compounds (VOCs)						
Parameters	Units	Storet Code	Result	Method detection limit	Monitoring Frequency	Sample Type
Acrolein	µg/L	34210	Report	Report	Three times per permit term	Grab
Acrylonitrile	µg/L	34215	Report	Report	Three times per permit term	Grab
Benzene	µg/L	34030	Report	Report	Three times per permit term	Grab
Bromoform	µg/L	32104	Report	Report	Three times per permit term	Grab
Carbon Tetrachloride	µg/L	32102	Report	Report	Three times per permit term	Grab
Chlorobenzene	µg/L	34301	Report	Report	Three times per permit term	Grab
Chlorodibromomethane	µg/L	32105	Report	Report	Three times per permit term	Grab
Chloroethane	µg/L	85811	Report	Report	Three times per permit term	Grab
2-Chloroethylvinyl Ether	µg/L	34576	Report	Report	Three times per permit term	Grab
Chloroform	µg/L	32106	Report	Report	Three times per permit term	Grab
Dichlorobromomethane	µg/L	32101	Report	Report	Three times per permit term	Grab
1,1-Dichloroethane	µg/L	34496	Report	Report	Three times per permit term	Grab
1,2-Dichloroethane	µg/L	32103	Report	Report	Three times per permit term	Grab
Trans 1,2-Dichloroethylene	µg/L	34546	Report	Report	Three times per permit term	Grab
1,1-Dichloroethylene	µg/L	34501	Report	Report	Three times per permit term	Grab

1,2-Dichloropropane	µg/L	34541	Report	Report	Three times per permit term	Grab
1,3-Dichloropropylene	µg/L	77163	Report	Report	Three times per permit term	Grab
Ethylbenzene	µg/L	34371	Report	Report	Three times per permit term	Grab
Methyl Bromide	µg/L	34413	Report	Report	Three times per permit term	Grab
Methyl Chloride	µg/L	34418	Report	Report	Three times per permit term	Grab
Methylene Chloride	µg/L	34423	Report	Report	Three times per permit term	Grab
1,1,2,2-Tetrachloroethane	µg/L	34516	Report	Report	Three times per permit term	Grab
Tetrachloroethylene	µg/L	34475	Report	Report	Three times per permit term	Grab
Toluene	µg/L	34010	Report	Report	Three times per permit term	Grab
1,1,1-Trichloroethane	µg/L	34506	Report	Report	Three times per permit term	Grab
1,1,2-Trichloroethane	µg/L	34511	Report	Report	Three times per permit term	Grab
Trichloroethylene	µg/L	39180	Report	Report	Three times per permit term	Grab
Vinyl Chloride	µg/L	39175	Report	Report	Three times per permit term	Grab
Acid Extractable Compounds						
Parameters	Units	Storet Code	Result	Method detection limit	Monitoring Frequency	Sample Type
p-Chloro-m-Cresol	µg/L	70021	Report	Report	Three times per permit term	24 hour composite
2-Chlorophenol	µg/L	34586	Report	Report	Three times per permit term	24 hour composite
2,4-Dichlorophenol	µg/L	34601	Report	Report	Three times per permit term	24 hour composite
2,4-Dimethylphenol	µg/L	34606	Report	Report	Three times per permit term	24 hour composite
4,6-Dinitro-o-Cresol	µg/L	03615	Report	Report	Three times per permit term	24 hour composite

2,4-Dinitrophenol	µg/L	34616	Report	Report	Three times per permit term	24 hour composite
2-Nitrophenol	µg/L	34591	Report	Report	Three times per permit term	24 hour composite
4-Nitrophenol	µg/L	34646	Report	Report	Three times per permit term	24 hour composite
Pentachlorophenol	µg/L	39032	Report	Report	Three times per permit term	24 hour composite
Phenol	µg/L	34694	Report	Report	Three times per permit term	24 hour composite
2,4,6-Trichlorophenol	µg/L	34621	Report	Report	Three times per permit term	24 hour composite
Base Neutral Compounds						
Parameters	Units	Storet Code	Result	Method detection limit	Monitoring Frequency	Sample Type
Acenaphthene	µg/L	34205	Report	Report	Three times per permit term	24 hour composite
Acenaphthylene	µg/L	34200	Report	Report	Three times per permit term	24 hour composite
Anthracene	µg/L	34220	Report	Report	Three times per permit term	24 hour composite
Benzidine	µg/L	39120	Report	Report	Three times per permit term	24 hour composite
Benzo(a)anthracene	µg/L	34526	Report	Report	Three times per permit term	24 hour composite
Benzo(a)pyrene	µg/L	34247	Report	Report	Three times per permit term	24 hour composite
3,4 Benzo-fluoranthene	µg/L	34230	Report	Report	Three times per permit term	24 hour composite
Benzo(ghi)perylene	µg/L	34521	Report	Report	Three times per permit term	24 hour composite
Benzo(k)fluoranthene	µg/L	34242	Report	Report	Three times per permit term	24 hour composite
Bis (2-chloroethoxy)methane	µg/L	34278	Report	Report	Three times per permit term	24 hour composite
Bis (2-chloroethyl)ether	µg/L	34273	Report	Report	Three times per permit term	24 hour composite
Bis (2-chlorosiopropyl)ether	µg/L	34283	Report	Report	Three times per permit term	24 hour composite

Bis (2-ethylhexyl)phthalate	µg/L	39100	Report	Report	Three times per permit term	24 hour composite
4-bromophenyl phenylether	µg/L	34636	Report	Report	Three times per permit term	24 hour composite
Butyl benzyl phthalate	µg/L	34292	Report	Report	Three times per permit term	24 hour composite
Base Neutral Compounds						
Parameters	Units	Storet Code	Result	Method detection limit	Monitoring Frequency	Sample Type
2-Chloronaphthalene	µg/L	34581	Report	Report	Three times per permit term	24 hour composite
4-Chorphenyl phenyl ether	µg/L	34641	Report	Report	Three times per permit term	24 hour composite
Chrysene	µg/L	34320	Report	Report	Three times per permit term	24 hour composite
Di-N-butyl phthalate	µg/L	39110	Report	Report	Three times per permit term	24 hour composite
Di-N-octyl phthalate	µg/L	34596	Report	Report	Three times per permit term	24 hour composite
Dibenzo(A,H) anthracene	µg/L	34556	Report	Report	Three times per permit term	24 hour composite
1,2-Dichorobenzene	µg/L	34536	Report	Report	Three times per permit term	24 hour composite
1,3-Dichlorobenzene	µg/L	34566	Report	Report	Three times per permit term	24 hour composite
1,4-Dichlorobenzene	µg/L	34571	Report	Report	Three times per permit term	24 hour composite
3,3-Dichlorobenzidine	µg/L	34631	Report	Report	Three times per permit term	24 hour composite
Diethyl phthalate	µg/L	34336	Report	Report	Three times per permit term	24 hour composite
Dimethyl phthalate	µg/L	34341	Report	Report	Three times per permit term	24 hour composite
2,4-Dinitrotoluene	µg/L	34611	Report	Report	Three times per permit term	24 hour composite
2,6-Dinitrotolune	µg/L	34626	Report	Report	Three times per permit term	24 hour composite
1,2-Diphenylhydrazine	µg/L	34346	Report	Report	Three times per permit term	24 hour composite

Base Neutral Compounds						
Parameters	Units	Storet Code	Result	Method detection limit	Monitoring Frequency	Sample Type
Fluoranthene	µg/L	34376	Report	Report	Three times per permit term	24 hour composite
Fluorene	µg/L	34381	Report	Report	Three times per permit term	24 hour composite
Hexachlorobenzene	µg/L	39700	Report	Report	Three times per permit term	24 hour composite
Hexachlorobutadiene	µg/L	34391	Report	Report	Three times per permit term	24 hour composite
Hexachlorocyclopentadiene	µg/L	34386	Report	Report	Three times per permit term	24 hour composite
Indeno(1,2,3-CD)pyrene	µg/L	34403	Report	Report	Three times per permit term	24 hour composite
Isophorone	µg/L	34408	Report	Report	Three times per permit term	24 hour composite
Naphthalene	µg/L	34696	Report	Report	Three times per permit term	24 hour composite
Nitrobenzene	µg/L	34447	Report	Report	Three times per permit term	24 hour composite
N-Nitrosodi-N-propylamine	µg/L	34428	Report	Report	Three times per permit term	24 hour composite
N-Nitroso-methylamine	µg/L	34438	Report	Report	Three times per permit term	24 hour composite
N-Nitroso-phenylamine	µg/L	34433	Report	Report	Three times per permit term	24 hour composite
Phenanthrene	µg/L	34461	Report	Report	Three times per permit term	24 hour composite
Pyrene	µg/L	34469	Report	Report	Three times per permit term	24 hour composite
1,2,4-Trichlorobenzene	µg/L	34551	Report	Report	Three times per permit term	24 hour composite

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