New Mexico State Legislature
STATE CAPITOL
Santa Fe

May 8, 2025 *Sent via email to: pamela.jones@env.nm.gov*

New Mexico Water Quality Control Commissioners
Attn: Chair Bruce Thomson
Water Quality Control Commission
P.O. Box 5469
Santa Fe, NM 87502-5469

Re: WQCC 23-84 (R) Pilot Project Discharge Provisions and Permit Requirements

Dear Commissioners,

We write this letter to first thank you for your wisdom in striking provisions for demonstration and industrial scale produced water treatment and reuse projects in the WQCC 23-84 (R) wastewater reuse rulemaking at your recent public meeting on April 8th and 9th in the face of persistent efforts by interested parties to obtain authorization for treatment, reuse and discharge of oil and gas waste before credible scientific data has proven treatment safe and effective.

The Water Quality Act requires that the Commission "shall adopt water quality standards for surface and ground waters of the state *based on credible scientific data* and other evidence appropriate under the Water Quality Act." (NMSA to 74-6-4 (D)). At this time the scientific record is clear about only one thing - produced water, a waste product from fracking, contains elevated levels of toxic organic chemicals, salts, metals, and contaminants such as ammonium and radium nuclides, which are extremely toxic for ecological systems and human health.

According to expert testimony from the New Mexico Oil and Gas Association, we are at a nascent stage, having taken the very "first step" to understanding what is in Permian Basin produced water.[1] NMED experts testified that produced water is toxic and dangerous, and that:

> "Without defensible, scientific evidence that produced water treatment is reliably safe and treatment technologies are effective at removing all known and unknown constituents, the Department is left with only one option which is to develop and propose a regulation that is restrictive and does not allow for the discharge of treated produced water in any manner."[2]

Peer reviewed research from the Produced Water Research Consortium found that the process of cleaning the fracking waste itself can create new sources of toxicity. A study published in June 2024 and authored by Consortium Director of Research Pei Xu found that after treatment, testing of the distillate found ten newly detected compounds, most likely byproducts formed due to photochemical reactions with organic compounds in the produced water during the

[1] "This study is a first step toward a better understanding of PW quality in the Permian Basin." Xu, Pei & Zhang, Yanyan & Jiang, Wenbin & Hu, Lei & Xu, Xuesong & Carroll, Kenneth & Khan, Naima. (2023). February 2022 CHARACTERIZATION OF PRODUCED WATER IN THE PERMIAN BASIN FOR POTENTIAL BENEFICIAL USE.https://www.researchgate.net/publication/372649414_February_2022_CHARACTERIZATION_OF_PRODUCED_WATER_IN_THE_PERMIAN_BASIN_FOR_POTENTIAL_BENEFICIAL_USE

[2] NMED Bates Labeled Exhibits, NMED Exhibit 5, Written Direct Testimony Hu, at 143-144.

desalination process. The authors found the majority of those byproducts "exhibited levels of toxicity ranging from very high to high in one or more toxicity categories (mostly developmental toxicity and acute ecotoxicity)."[3]

That is why we are also writing to express our alarm that the WQCC intends to adopt a rule that allows pilot projects to discharge treated produced water to groundwater prior to the development of scientifically based standards against which such projects can be evaluated.

Importantly, as Dr. Avner Vengosh, Duke University professor and a preeminent expert on produced water research testified at the hearing, existing water quality standards cannot be substituted for standards specific to treated produced water.[4] This is because those standards do not include measures of myriad contaminants found in produced water. Any discharge of treated fracking waste before standards specific to such waste are developed risks significant and irreversible damage to our groundwater and human health.

Further, the Commission's April 9th decision to allow so-called "closed loop' pilot projects under a Notice of Intent procedure is insufficient and does not comply with the Produced Water Act (70-13-4 D NMSA), which requires a permit for **ANY** produced water use outside the oil field. The law clearly states:

> "For uses regulated by the water quality control commission pursuant to the Water Quality Act, a person *shall obtain a permit* from the department of environment before using the produced water, the recycled or treated water or treated product or any byproduct of the produced water.' (Emphasis added)

That is the law, and it is clear.

The legislature believed the use of produced water outside the oilfield was dangerous and risky, and determined that any use required a permit. That includes any pilot projects. A "Notice of Intent" procedure does not include procedures for public input or a hearing and does not satisfy the requirements of the law. The planned requirement to notify adjacent landowners has no input when said landowners have no recourse to formally object, and further, ignores the significant risk to all New Mexico residents relying upon connected aquifers that could be impacted by an accidental discharge. As NMED experts testified during the hearing "closed loop" projects are "not necessarily no discharge." (WQCC 23-84, 5/16/24, Fullam, at 77.) The Commission's decision on this issue is contrary to the legislature's intent and the letter of the law.

Until credible scientifically based standards for treatment and water quality are adopted, we believe it is premature to issue permits for any pilot treatment projects outside the oilfield. As Commissioner Zemlick confirmed during the hearing, all necessary research can be conducted in the lab or on the oil field under currently existing regulations.

However, if the Commission decides to authorize such pilot projects, they must be authorized only if:

A. they are issued via a permit that includes a formal public input and hearing process;
B. they are "closed loop," with no discharge to ground or surface water contemplated; and
C. they are operated under strict scientific standards adopted by NMED and vetted by the WQCC.

We have reviewed the proposed rule of New Energy Economy, WildEarth Guardians and the Center for Biological Diversity, which lays out stringent permitting standards, and we believe that these protective standards, pertaining to both permitting of pilot projects and waste disposal, as detailed in Exhibit A - Section 20.6.8.400 C, D and E, including a list of more than six-hundred analytes that must be included in testing of any treated produced water to ensure public health (Exhibit B), must be adopted in the final rule. These are consistent with the permitting standards that Texas has adopted, and we believe that New Mexicans deserve at least the same protections. If these regulations are adopted, we believe such pilot projects can be protective of human health and the environment.

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[3] Himali M.K. Delanka-Pedige, Robert B. Young, Maha T. Abutokaikah, Lin Chen, Huiyao Wang, Kanchana A.B.I. Imihamillage, Sean Thimons, Michael A. Jahne, Antony J. Williams, Yanyan Zhang, Pei Xu, Non-targeted analysis and toxicity prediction for evaluation of photocatalytic membrane distillation removing organic contaminants from hypersaline oil and gas field-produced water, Journal of Hazardous Materials, Volume 471, 2024, 134436, ISSN 0304-3894, https://doi.org/10.1016/j.jhazmat.2024.134436.

[4] Rebuttal technical testimony of Dr. Avner Vengosh, May 6, 2024, at 6.

Most importantly, the decision to allow ANY discharge of treated oil and gas waste to ground or surface water prior to the development of treatment and quality standards is both irresponsible and dangerous in the extreme. Without such standards pilot projects discharging to groundwater could irreversibly harm land, water and public health, and NMED will not be able to credibly defend any discharge permit they might have issued.

We urge the Commission to reconsider its decision to allow such discharge from pilot projects, and to ensure that the final rule adopted by the WQCC complies with the law by requiring a sufficiently protective permit process for any pilot projects authorized outside the oilfield.

Respectfully,

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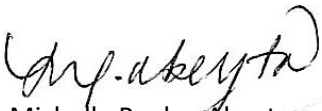

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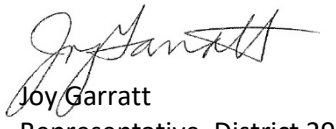

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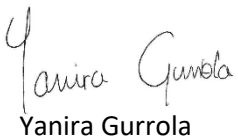

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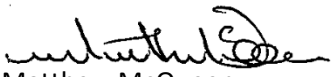

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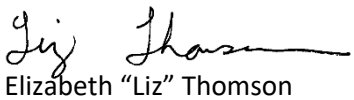

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TITLE 20 ENVIRONMENTAL PROTECTION
CHAPTER 6 WATER QUALITY
PART 8 GROUND AND SURFACE WATER PROTECTION – PRODUCED WATER

20.6.8.1 ISSUING AGENCY: Water Quality Control Commission.
[20.6.8.1 NMAC - N, mm-dd-yy]

20.6.8.2 SCOPE: All persons subject to the Water Quality Act, NMSA 1978, Sections 74-6-1 through 74-6-17, and the Produced Water Act, NMSA 1978, Sections 70-13-1 through 70-13-5.
[20.6.7.2 NMAC - N, mm-dd-yy]

20.6.8.3 STATUTORY AUTHORITY: Standards and regulations are adopted by the commission under the authority of the Water Quality Act, NMSA 1978, Sections 74-6-1 through 74-6-17 and the Produced Water Act, NMSA 1978, Subsection B of Section 70-13-3 and Subsection D of Section 70-13-4.
[20.6.8.3 NMAC - N, mm/dd/yy]

20.6.8.4 DURATION: Permanent.
[20.6.8.4 NMAC - N, mm-dd-yy]

20.6.8.5 EFFECTIVE DATE: Month Day, Year, unless a later date is cited at the end of a section.
[20.6.8.5 NMAC - N, mm-dd-yy]

20.6.8.6 OBJECTIVE: The objective of 20.6.8 NMAC is to regulate the use of produced water subject to the jurisdiction of the Water Quality Control Commission under NMSA 1978, §§ 70-13-3(B).
[20.6.8.6 NMAC - N, mm-dd-yy]

20.6.8.7 DEFINITIONS: The following terms as used in this part shall have the following meanings: terms defined in the Water Quality Act, but not defined in this part, will have the meaning given in the act.

A. Terms beginning with numerals or the letter "A," and abbreviations for units. [RESERVED]

B. Terms beginning with the letter "B".

(1) "Bench-scale project" means a small project or study conducted in an accredited laboratory.

C. Terms beginning with the letter "C". [RESERVED]

D. Terms beginning with the letter "D".

(1) "Department" means the New Mexico environment department.

(2) "Discharge permit" means a discharge plan approved by the department;

(3) "Discharge plan" means a produced water treatment or reuse off oilfield plan which shall be designed and stamped by a professional engineer with the intent and specific provisions to preclude any discharge and shall include a description of any operational, monitoring, contingency, and closure requirements and conditions for any unintentional discharge of effluent or leachate which may move directly or indirectly into ground water;

(4) "Discharge site" as defined in 20.6.2 NMAC.

(5) "Disposal" as defined in 20.6.2 NMAC.

E. Terms beginning with the letter "E". [RESERVED]

F. Terms beginning with the letter "F". [RESERVED]

G. Terms beginning with the letter "G".

(1) "Ground water" as defined in 20.6.2 NMAC.

H. Terms beginning with the letter "H".

(1) "Hydraulic fracturing" means an unconventional oil and gas production technique that fractures a rock formation that stimulates the flow of natural gas or oil, increasing the volumes that can be recovered. Fractures are created by pumping large quantities of fluids at high pressure down a wellbore and into the target rock formation. Hydraulic fracturing fluid, also referred to as fracking fluid, commonly consists of water, proppant, and chemical additives that open and enlarge fractures that can extend several hundred feet away from the wellbore.

I. Terms beginning with the letter "I".

(1) "Injection" as defined in 20.6.2 NMAC

J. Terms beginning with the letter "J". [RESERVED]

K. Terms beginning with the letter "K". [RESERVED]

L. Terms beginning with the letter "L". [RESERVED]

M. Terms beginning with the letter "M". [RESERVED]

N. Terms beginning with the letter "N". [RESERVED]

O. Terms beginning with the letter "O". [RESERVED]

P. Terms beginning with the letter "P".

(1) "Person" as defined in 20.6.2 NMAC.

(2) "Pilot project" means a representative engineering scale model or prototype system that is beyond the bench-scale and tested in a non-laboratory environment. A pilot project represents an increase in the technological scale than otherwise achievable in a laboratory and often involves larger quantities of materials over longer periods of time. Pilot projects shall have a daily produced water capacity equal to or less than 2,000 barrels per day.

(3) "Produced water" means a fluid oil and gas waste resulting from drilling for or the production of oil and gas, and includes formation water (the water that occurs naturally within the pores of rock), flowback water (the fluid returned after the hydraulic fracturing process is completed), and any chemicals added downhole during drilling, production, or maintenance processes during the life cycle of an oil or gas well. Produced water includes known and unknown toxic pollutants, as defined in 20.6.2 NMAC and radionuclides, water contaminants, and water pollutants.

Q. Terms beginning with the letter "Q". [RESERVED]

R. Terms beginning with the letter "R". [RESERVED]

S. Terms beginning with the letter "S".

(1) "State" means the state of New Mexico.

(2) "Surface water" means a "surface water(s) of the state" as defined in 20.6.4 NMAC.

T. Terms beginning with the letter "T". [RESERVED]

U. Terms beginning with the letter "U". [RESERVED]

V. Terms beginning with the letter "V". [RESERVED]

W. Terms beginning with the letter "W".

(1) "Water contaminant" means any substance that, if discharged, reused, or spilled, could alter the physical, chemical, biological or radiological qualities of water. "Water contaminant" does not mean source, special nuclear or by-product material as defined by the Atomic Energy Act of 1954, but may include all other radioactive materials, including but not limited to radium and accelerator-produced isotopes.

(2) "Water pollutant" means a water contaminant in such quantity and of such duration as may with reasonable probability injure human health, animal or plant life or property, or to unreasonably interfere with the public welfare or the use of property.

(3) "Water pollution" as defined in 20.6.2 NMAC.

X. Terms beginning with the letters "X" through "Z". [RESERVED]

[20.6.8.7 NMAC – N, mm-dd-yy]

20.6.8.8 – 20.6.8.99 [RESERVED]

[20.6.8.8-20.6.8.99 NMAC – N, mm-dd-yy]

20.6.8.100 GENERAL PROVISIONS: Unless otherwise required by this Part, all persons are subject to the state's Ground and Surface Water Protection Regulations (20.6.2 NMAC). This includes, but is not limited to, regulations relating to spills, notices of intent, permitting, fees, penalties, compliance orders, and abatement.

[20.6.8.100 NMAC – N, mm-dd-yy]

20.6.8.101 – 20.6.8.199 [RESERVED]

[20.6.8.101-20.6.8.199 NMAC – N, mm-dd-yy]

20.6.8.200 [RESERVED]

[20.6.8.200 NMAC – N, mm-dd-yy]

20.6.8.201 [RESERVED]

[20.6.8.201 – N, mm-dd-yy]

20.6.8.202-299 [RESERVED]

[20.6.8.202-20.6.8.299 NMAC – N, mm-dd-yy]

20.6.8.300 [RESERVED]
[20.6.8.300 NMAC – N, mm-dd-yy]

20.6.8.301-399 [RESERVED]
[20.6.8.301-20.6.8.399 NMAC – N, mm-dd-yy]

20.6.8.400 PROHIBITION OF DISCHARGE, DISPOSAL, AND REUSE OF PRODUCED WATER: As provided in the Produced Water Act, Subsection B of Section 70-13-3, NMSA 1978, the following provisions apply to the discharge, disposal, and reuse of produced water for activities unrelated to the exploration, drilling, production, treatment, or refinement of oil or gas.

A. General requirements.

(1) Treated or untreated produced water discharge, disposal, and reuse: No person shall discharge, dispose of, or reuse treated or untreated produced water for activities unrelated to the exploration, drilling, production, treatment or refinement of oil or gas.

(2) The department shall deny any application for a groundwater or surface water discharge permit for any form of produced water or byproduct thereof.

(3) The department shall deny certification of any federal permit proposing to discharge, dispose of, or reuse treated or untreated produced water.

(4) Use of produced water for research purposes: Produced water may only be handled, transported, stored, treated, or used for activities unrelated to the exploration, drilling, production, treatment or refinement of oil or gas for bona fide research purposes within the context of a bench-scale project or pilot project. Any handling, transport, storage, recycling, treatment, or use of produced water off of the oil field for research purposes may only be conducted upon the issuance of a permit from the Department.

B. Authorized applications for research purposes.

(1) Bench-scale projects and pilot projects: Bench scale projects and pilot projects involving the handling, transport, storage, recycling, treatment, or use of produced water off of the oil field may be permitted, if authorized by a permit, as required by subsection C.

C. Permits required for bench scale or pilot projects.

(1) As established by the Produced Water Act, *see* NMSA 1978, § 70-13-4(D), a permit from the Department is required prior to any use of produced water, whether treated or untreated, in bench scale or pilot projects.

(2) No person may use produced water, whether treated or untreated, without first obtaining a permit from the Department.

(3) No permit shall allow the discharge of produced water, whether treated or untreated, recycled or any treated product or any byproduct of the produced water.

D. Issuance of permits.

(1) Any person desiring to conduct a bench-scale project using produced water shall submit a Produced Water Bench-Scale Research Permit Application to the Department.

(a) A Produced Water Bench-Scale Research Permit Application shall (a) include a research plan and a description of the objectives; (b) identify the accredited laboratory at which the research will be conducted (c) disclose all known or knowable chemical constituents within the produced water; and (d) explain how it is designed to provide information specific to untreated produced water quality, treatment technologies, treated produced water quality, treatment volumes, and toxicity studies.

(b) Upon receiving a Produced Water Bench Scale Research Permit Application, the Department shall grant a Produced Water Bench-Scale Research Permit, so long as it determines that the proposed research is bona fide research that will be conducted in an accredited laboratory and that no produced water will be discharged by the proposed research.

(c) All Produced Water Bench-Scale Research Permits shall require the applicant to (a) disclose all data and results of the research to the Department within 90 days of the testing, and (b) dispose of produced water and any materials that come into contact with untreated produced water or treated produced water, including soils, plant material, treatment equipment, and containment area materials in accordance with the provisions of 20.6.8.400(E) NMAC.

(2) Any person desiring to conduct a pilot project using produced water shall submit a

Produced Water Pilot Project Research Permit Application to the Department.

(a) A Produced Water Pilot Project Research Permit Application shall (a) include a research plan and a description of the objectives; (b) identify the volume of produced water to be treated and location of the proposed pilot project; (c) explain how it is designed to provide information specific to untreated produced water quality, treatment technologies, treated produced water quality, treatment volumes, and toxicity studies; (d) set forth the written procedures that will be followed to prevent releases onto the ground, directly or indirectly into ground or surface water; (e) provide a schematic of the treatment process; (f) provide a description of the treatment process and methodologies; (g) provide a full characterization of the source fluids with specificity, including levels; (h) disclose how the applicant proposes to dispose of all residual concentrated waste; and (i) identify any and all risks posed by the proposed handling, storage, transportation, and use of produced water and all procedures that will be followed to minimize such risks.

(b) Upon receiving a Produced Water Pilot Project Research Permit Application, the department shall conduct review of the application to determine whether it contains all required information.

(c) If the Produced Water Pilot Project Research Permit Application contains all required information, the department shall require the applicant to provide public notice in the methods and manners required in 20.6.2.3108 NMAC. All information regarding the application, the technical review, and the determination is to be provided on the Department's website in both English and Spanish.

(d) The department shall evaluate the application based on information contained in the department's administrative record. The department may request from the applicant, either before or after the issuance of any public notice, additional information necessary for the evaluation of the application. The administrative record shall consist of the application, all additional information required by the department, all information submitted by the applicant or the general public, all public comment, all other information considered by the department, and any other pertinent information.

(e) The department shall conduct a technical review and evaluate a Produced Water Pilot Project Research Permit Application. After providing at least ninety days for public comment, the department shall approve, approve with conditions, limitations, or modifications, or disapprove the application based on the administrative record. The department shall notify the applicant of the action taken and the reasons for such action. Notice shall be given by mail or email to persons who gave public comment and by publication on the department's website.

(f) The department shall only grant a permit, after public notice and comment, if it determines that the benefits of the proposed research outweigh the risks posed to health, safety, and environment by the proposed handling, storage, transportation, and use of produced water. This evaluation must consider the volume of produced water involved in the proposed research, the locations of the proposed handling, storage, transportation, and use of produced water, the proposed activities involved in the research, the character and history of the applicant, and any prior regulatory non-compliance by the applicant.

(g) The department shall develop and promulgate a schedule of analytes that have been scientifically observed in produced water and shall set forth a testing methodology that shall be employed to test for such analytes in both the untreated and treated produced water in any pilot project. Pilot projects operating at a volume of 500 barrels per day or less shall be required to perform such testing no less than once per week. Pilot projects operating at a volume of greater than 500 barrels per day but less than 2,000 barrels a day shall be required to perform such testing no less than four times per week.

(d) Any Produced Water Pilot Project Research Permit shall: (a) require the applicant to conduct the testing prescribed by the Department pursuant to subsection (g) above; (b) have a duration of one year, with the ability to extend the duration an additional year if the project is meeting all regulatory requirements; (c) require, at a minimum, quarterly monitoring by the Department, including land sampling and analysis; (d) require the procurement of sufficient financial security and assurance to ensure that remediation is performed in the event of contamination; (e) require certification by a professional engineer prior to operation; (f) require the applicant to maintain a repository of all scientific data generated during the research; (g) submit to the Department all research results within 90 days of completion; (h) permit the Department to inspect the project upon request; (i) permit the Department to review all scientific data generated during the research upon request; (j) dispose of produced water and any materials that come into contact with untreated produced water or treated produced water, including soils, plant material, treatment equipment, and containment area materials in accordance with the provisions of 20.6.8.400(E) NMAC; (k) construct the research project in such a manner as to ensure that no discharges of produced water occur throughout the entire duration of the project and allow the department to inspect and verify that the project is not resulting in the discharge of produced water; (l) require that all untreated and treated produced water shall be handled, transported, stored, used, and disposed of in accordance with all other applicable local, state, and federal regulations.

(5) Any permit issued pursuant to this subsection shall be subject to revocation if the applicant fails to comply with the requirements of the permit.

(6) Persons intending to conduct a bench-scale project or pilot project shall satisfy the Department's financial assurance requirements to ensure that any damages caused by the applicant are remediated.

E. Final Disposition of Treated Produced Water, Untreated Produced Water, Treatment Byproducts, and Components of Bench Scale and Pilot Projects

(1) All disposal of untreated produced water following a bench scale or pilot project shall use one of the following methods in accordance with the relative permit: discharge to a produced water disposal well permitted pursuant to the oil conservation commission's regulations for oil and gas injection at 19.15.26 NMAC, delivery to a surface waste management facility permitted pursuant to the oil conservation commission's regulations for oil and gas surface waste management facilities (19.15.36 NMAC), or disposal in a permanent pit permitted pursuant to the oil conservation commission's regulations for oil and gas pits, closed-loop systems, below-grade tanks and sumps at 19.15.17 NMAC.

(2) All disposal of treated produced water, any treatment byproducts, or components of a bench scale or pilot project using untreated or treated produced water, must characterize the waste and adhere to all local, state, and federal regulations for non-exempt, potentially hazardous waste, as applicable.

[20.6.8.400 NMAC – N, mm-dd-yy]

Category	Analyte	Method Options*
Metals/Elements	Aluminum	SW-846 6010 or 6020 latest version
Metals/Elements	Antimony	SW-846 6010 or 6020 latest version
Metals/Elements	Arsenic	SW-846 6010 or 6020 latest version
Metals/Elements	Barium	SW-846 6010 or 6020 latest version
Metals/Elements	Beryllium	SW-846 6010 or 6020 latest version
Metals/Elements	Boron	SW-846 6010 or 6020 latest version
Metals/Elements	Cadmium	SW-846 6010 or 6020 latest version
Metals/Elements	Calcium	SW-846 6010 or 6020 latest version
Metals/Elements	Chromium	SW-846 6010 or 6020 latest version
Metals/Elements	Cobalt	SW-846 6010 or 6020 latest version
Metals/Elements	Copper	SW-846 6010 or 6020 latest version
Metals/Elements	Gold	SW-846 6010 or 6020 latest version
Metals/Elements	Iron	SW-846 6010 or 6020 latest version
Metals/Elements	Lead	SW-846 6010 or 6020 latest version
Metals/Elements	Lithium	SW-846 6010 or 6020 latest version
Metals/Elements	Magnesium	SW-846 6010 or 6020 latest version
Metals/Elements	Manganese	SW-846 6010 or 6020 latest version
Metals/Elements	Molybdenum	SW-846 6010 or 6020 latest version
Metals/Elements	Nickel	SW-846 6010 or 6020 latest version
Metals/Elements	Phosphorus	SW-846 6010 or 6020 latest version
Metals/Elements	Potassium	SW-846 6010 or 6020 latest version
Metals/Elements	Selenium	SW-846 6010 or 6020 latest version
Metals/Elements	Silver	SW-846 6010 or 6020 latest version
Metals/Elements	Sodium	SW-846 6010 or 6020 latest version
Metals/Elements	Strontium	SW-846 6010 or 6020 latest version
Metals/Elements	Thallium	SW-846 6010 or 6020 latest version
Metals/Elements	Tin	SW-846 6010 or 6020 latest version
Metals/Elements	Titanium	SW-846 6010 or 6020 latest version
Metals/Elements	Uranium (total)	SW-846 6010 or 6020 latest version
Metals/Elements	Vanadium	SW-846 6010 or 6020 latest version
Metals/Elements	Zinc	SW-846 6010 or 6020 latest version
Metals/Elements	Zirconium	SW-846 6010 or 6020 latest version
Metals/Elements	Mercury	SW-846 7470 latest version
Metals-SPME HPLC	Tributyltin	SW 846- 8323 or 6710
Metals/Elements - speciated	Hexavalent Chromium	SM 3500-CR B - CR(VI); SW-846 7199

*Method options are suggested published and commerically available procedures with SW-846 methods given first priority. This is not an exhaustive list as there are ASTM methods that are also applicable. The ultimate method required or used may depend upon the permit and purpose (e.g. CWA, SDWA). Non-standard methods such as HRMS (e.g. Q-ToF, MALDI-ToF-MS, and 2-dimensional chromatography are not considered at this stage).

SM = Standard Methods for the Examination of Water and Wastewater
SW-846 = US EPA Hazardous Waste Test Methods under RCRA

Categories
Metals/Elements
Metals/Elements - speciated
Anions
Wet Chemistry, Other
Radionuclides
Organic - VOC
Organic - VOC - TPH
Organic - SVOC - General
Organic - SVOC - TPH
Organic - SVOC - Explosives
Organic - SVOC - Agent Breakdown Products
Organic - SVOC - Pesticides/Herbicides
Organic - SVOC - PCBs
Organic - SVOC - PAHs
Organic - SVOC - Organic Acids
Organic - SVOC - Dioxins
Toxicity Testing

Refrence Eurofins Quote # 24024191 for lists, limits and EDD.

Blue Cells are routine monitoring indicators

Anions	Bromide	EPA 300.0/300.1; SW-846 9056A
Anions	Chloride	EPA 300.0/300.1; SW-846 9056A
Anions	Fluoride	EPA 300.0/300.1; SW-846 9056A
Anions	Sulfate	EPA 300.0/300.1; SW-846 9056A
Anions	Nitrate Nitrogen	EPA 300.0/300.1; SW-846 9056A
Anions	Nitrite Nitrogen	EPA 300.0/300.1; SW-846 9056A
Anions	Phosphate	EPA 300.0/300.1; SW-846 9056A
Anions	Bicarbonates (HO3-)	EPA 300.0/300.1; SW-846 9056A
Anions	Iodine	EPA 300.0/300.1; SW-846 9056A
Anion-HPLC Specialty	Perchlorate	EPA 6850

Wet Chemistry, Other	Oil and Grease or TPH	EPA 1664
Wet Chemistry, Other	Ammonia Nitrogen	4500
Wet Chemistry, Other	Total Organic Carbon	5310
Wet Chemistry, Other	Total Organic Halogens	SE-846 9020B
Wet Chemistry, Other	Total Dissolved Solids	SM2540C - TDS
Wet Chemistry, Other	Total Suspended Solids	SM2540B - TSS
Wet Chemistry, Other	Specific Gravity	Field
Wet Chemistry, Other	M. B. A. S.	SM5540C - Methylene blue active substances - anionic surfactants
Wet Chemistry, Other	Turbidity	Field
Wet Chemistry, Other	Alkalinity, total and bicarbonate	SM2320B or equivalent
Wet Chemistry, Other	COD	SM5220C, D, ASTM D1252B, EPA 410.X
Wet Chemistry, Other	pH	Field
Wet Chemistry, Other	ORP	Field
Wet Chemistry, Other	Asbestos	EPA 100.1, 100.2
Wet Chemistry, Other	Cyanide, total recoverable	4500-CN

Radionuclides	Radium-226	EPA 903.0 - radium - alpha emitting isotopes; SW-846 9315; Gamma Spec EPA 901.1
Radionuclides	Radium-228	E904.0 - radium; SW-846 9320; Gamma Spec EPA 901.1
Radionuclides	Gross Alpha/Beta	EPA 900.0/9310; EPA 600/00-02
Radionuclides	U 235, 236, 238	To be determined
Radionuclides	Strontium 90	To be determined
Radionuclides	Tritium	EPA 906.0

Organic - VOC	1,1,1,2-Tetrachloroethane	SW-846 8260 latest version
Organic - VOC	1,1,1-Trichloroethane	SW-846 8260 latest version
Organic - VOC	1,1,2,2-Tetrachloroethane	SW-846 8260 latest version
Organic - VOC	Freon 113	SW-846 8260 latest version
Organic - VOC	1,1,2-Trichloroethane	SW-846 8260 latest version
Organic - VOC	1,1-Dichloroethane	SW-846 8260 latest version
Organic - VOC	1,1-Dichloroethene	SW-846 8260 latest version

Organic - VOC	1,2-Dichlorobenzene	SW-846 8260 latest version
Organic - VOC	1,3-Dichlorobenzene	SW-846 8260 latest version
Organic - VOC	1,4-Dichlorobenzene	SW-846 8260 latest version
Organic - VOC	1,2,3-Trichlorobenzene	SW-846 8260 latest version
Organic - VOC	1,2,3-Trichloropropane	SW-846 8260 latest version
Organic - VOC	1,2,4-Trichlorobenzene	SW-846 8260 latest version
Organic - VOC	1,2,4-Trimethylbenzene	SW-846 8260 latest version
Organic - VOC	1,2-Dibromo-3-chloropropane	SW-846 8260 latest version
Organic - VOC	1,2-Dibromoethane	SW-846 8260 latest version
Organic - VOC	1,2-Dichloroethane	SW-846 8260 latest version
Organic - VOC	1,2-Dichloropropane	SW-846 8260 latest version
Organic - VOC	1,3,5-Trimethylbenzene	SW-846 8260 latest version
Organic - VOC	1,3-Dichloropropane	SW-846 8260 latest version
Organic - VOC	2,2-Dichloropropane	SW-846 8260 latest version
Organic - VOC	2-Butanone	SW-846 8260 latest version
Organic - VOC	2-Chloroethyl Vinyl Ether	SW-846 8260 latest version
Organic - VOC	2-Chlorotoluene	SW-846 8260 latest version
Organic - VOC	2-Hexanone	SW-846 8260 latest version
Organic - VOC	2-Nitropropane	SW-846 8260 latest version
Organic - VOC	2-Propanol	SW-846 8260 latest version
Organic - VOC	4-Chlorotoluene	SW-846 8260 latest version
Organic - VOC	4-Methyl-2-pentanone	SW-846 8260 latest version
Organic - VOC	Acetone	SW-846 8260 latest version
Organic - VOC	Acetonitrile	SW-846 8260 latest version
Organic - VOC	Acrolein	SW-846 8260 latest version
Organic - VOC	Acrylonitrile	SW-846 8260 latest version
Organic - VOC	Allyl Chloride	SW-846 8260 latest version
Organic - VOC	Benzene	SW-846 8260 latest version
Organic - VOC	Bromobenzene	SW-846 8260 latest version
Organic - VOC	Bromochloromethane	SW-846 8260 latest version
Organic - VOC	Bromodichloromethane	SW-846 8260 latest version
Organic - VOC	Bromoform	SW-846 8260 latest version
Organic - VOC	Bromomethane	SW-846 8260 latest version
Organic - VOC	Carbon Disulfide	SW-846 8260 latest version
Organic - VOC	Carbon Tetrachloride	SW-846 8260 latest version
Organic - VOC	Chlorobenzene	SW-846 8260 latest version
Organic - VOC	Chloroethane	SW-846 8260 latest version
Organic - VOC	Chloroform	SW-846 8260 latest version
Organic - VOC	Chloromethane	SW-846 8260 latest version
Organic - VOC	2-Chloro-1,3-butadiene	SW-846 8260 latest version
Organic - VOC	cis-1,2-Dichloroethene	SW-846 8260 latest version
Organic - VOC	cis-1,3-Dichloropropene	SW-846 8260 latest version
Organic - VOC	Cyclohexane	SW-846 8260 latest version
Organic - VOC	Dibromochloromethane	SW-846 8260 latest version
Organic - VOC	Dichlorodifluoromethane	SW-846 8260 latest version
Organic - VOC	Ethyl Acetate	SW-846 8260 latest version
Organic - VOC	Ethyl ether	SW-846 8260 latest version

Organic - VOC	Ethyl Methacrylate	SW-846 8260 latest version
Organic - VOC	Ethylbenzene	SW-846 8260 latest version
Organic - VOC	n-Heptane	SW-846 8260 latest version
Organic - VOC	n-Hexane	SW-846 8260 latest version
Organic - VOC	Methyl Iodide	SW-846 8260 latest version
Organic - VOC	Isobutyl Alcohol	SW-846 8260 latest version
Organic - VOC	Isopropyl acetate	SW-846 8260 latest version
Organic - VOC	Isopropylbenzene	SW-846 8260 latest version
Organic - VOC	m+p-Xylene	SW-846 8260 latest version
Organic - VOC	Methacrylonitrile	SW-846 8260 latest version
Organic - VOC	Methyl Acetate	SW-846 8260 latest version
Organic - VOC	Methyl Methacrylate	SW-846 8260 latest version
Organic - VOC	Methyl Tertiary Butyl Ether	SW-846 8260 latest version
Organic - VOC	Methylcyclohexane	SW-846 8260 latest version
Organic - VOC	Dibromomethane	SW-846 8260 latest version
Organic - VOC	Methylene Chloride	SW-846 8260 latest version
Organic - VOC	n-Butylbenzene	SW-846 8260 latest version
Organic - VOC	n-Propylbenzene	SW-846 8260 latest version
Organic - VOC	o-Xylene	SW-846 8260 latest version
Organic - VOC	Pentachloroethane	SW-846 8260 latest version
Organic - VOC	p-Isopropyltoluene	SW-846 8260 latest version
Organic - VOC	Propionitrile	SW-846 8260 latest version
Organic - VOC	sec-Butylbenzene	SW-846 8260 latest version
Organic - VOC	Styrene	SW-846 8260 latest version
Organic - VOC	t-Butyl alcohol	SW-846 8260 latest version
Organic - VOC	tert-Butylbenzene	SW-846 8260 latest version
Organic - VOC	Tetrachloroethene	SW-846 8260 latest version
Organic - VOC	Tetrahydrofuran	SW-846 8260 latest version
Organic - VOC	Toluene	SW-846 8260 latest version
Organic - VOC	Total VOC TICs	SW-846 8260 latest version
Organic - VOC	trans-1,2-Dichloroethene	SW-846 8260 latest version
Organic - VOC	trans-1,3-Dichloropropene	SW-846 8260 latest version
Organic - VOC	trans-1,4-Dichloro-2-butene	SW-846 8260 latest version
Organic - VOC	Trichloroethene	SW-846 8260 latest version
Organic - VOC	Trichlorofluoromethane	SW-846 8260 latest version
Organic - VOC	Vinyl Acetate	SW-846 8260 latest version
Organic - VOC	Vinyl Chloride	SW-846 8260 latest version
Organic - VOC	Xylene (Total)	SW-846 8260 latest version

Organic - VOC - TPH	TPH by GC/FID water C6-C10	SW-846 8015 latest version
Organic - SVOC - TPH	TPH by GC/FID water C10-C28	SW-846 8015 latest version
Organic - SVOC - TPH	TPH by GC/FID water C28-C40	SW-846 8015, modified, latest version
Organic - SVOC - TPH	n-Decane	SW-846 8015 latest version
Organic - SVOC - TPH	n-Docosane	SW-846 8015 latest version
Organic - SVOC - TPH	n-Eicosane	SW-846 8015 latest version
Organic - SVOC - TPH	n-Hexadecane	SW-846 8015 latest version
Organic - SVOC - TPH	n-Tetradecane	SW-846 8015 latest version
Organic - SVOC - TPH	n-Octadecane	SW-846 8015 latest version

Organic - SVOC - General	1,1'-Biphenyl	SW-846 8270 latest version
Organic - SVOC - General	1,2,4,5-Tetrachlorobenzene	SW-846 8270 latest version
Organic - SVOC - General	1,2,4-Trichlorobenzene	SW-846 8270 latest version
Organic - SVOC - General	1,2-Dichlorobenzene	SW-846 8270 latest version
Organic - SVOC - General	1,2-Diphenylhydrazine	SW-846 8270 latest version
Organic - SVOC - General	1,3,5-Trinitrobenzene	SW-846 8270 latest version
Organic - SVOC - General	1,3-Dichlorobenzene	SW-846 8270 latest version
Organic - SVOC - General	1,3-Dinitrobenzene	SW-846 8270 latest version
Organic - SVOC - General	1,4-Dichlorobenzene	SW-846 8270 latest version
Organic - SVOC - General	1,4-Dioxane	SW-846 8270 latest version
Organic - SVOC - General	1,4-Naphthoquinone	SW-846 8270 latest version
Organic - SVOC - General	1-Chloronaphthalene	SW-846 8270 latest version
Organic - SVOC - General	1-Methylnaphthalene	SW-846 8270 latest version
Organic - SVOC - General	1-Naphthylamine	SW-846 8270 latest version
Organic - SVOC - General	2,2'-oxybis(1-Chloropropane)	SW-846 8270 latest version
Organic - SVOC - General	2,3,4,6-Tetrachlorophenol	SW-846 8270 latest version
Organic - SVOC - General	2,4,5-Trichlorophenol	SW-846 8270 latest version
Organic - SVOC - General	2,4,6-Trichlorophenol	SW-846 8270 latest version
Organic - SVOC - General	2,4-Dichlorophenol	SW-846 8270 latest version
Organic - SVOC - General	2,4-Dimethylphenol	SW-846 8270 latest version
Organic - SVOC - General	2,4-Dinitrophenol	SW-846 8270 latest version
Organic - SVOC - General	2,4-Dinitrotoluene	SW-846 8270 latest version
Organic - SVOC - General	2,6-Dichlorophenol	SW-846 8270 latest version
Organic - SVOC - General	2,6-Dinitrotoluene	SW-846 8270 latest version
Organic - SVOC - General	2-Acetylaminofluorene	SW-846 8270 latest version
Organic - SVOC - General	2-Butoxyethanol	SW-846 8270 latest version
Organic - SVOC - General	2-Chloronaphthalene	SW-846 8270 latest version
Organic - SVOC - General	2-Chlorophenol	SW-846 8270 latest version
Organic - SVOC - General	2-Methylnaphthalene	SW-846 8270 latest version
Organic - SVOC - General	2-Methylphenol	SW-846 8270 latest version
Organic - SVOC - General	2-Naphthylamine	SW-846 8270 latest version
Organic - SVOC - General	2-Nitroaniline	SW-846 8270 latest version
Organic - SVOC - General	2-Nitrophenol	SW-846 8270 latest version
Organic - SVOC - General	2-Picoline	SW-846 8270 latest version
Organic - SVOC - General	o-Toluidine	SW-846 8270 latest version
Organic - SVOC - General	3,3'-Dichlorobenzidine	SW-846 8270 latest version
Organic - SVOC - General	3,3'-Dimethylbenzidine	SW-846 8270 latest version
Organic - SVOC - General	3-Methylcholanthrene	SW-846 8270 latest version
Organic - SVOC - General	3-Nitroaniline	SW-846 8270 latest version
Organic - SVOC - General	4,6-Dinitro-2-methylphenol	SW-846 8270 latest version
Organic - SVOC - General	4-Aminobiphenyl	SW-846 8270 latest version
Organic - SVOC - General	4-Bromophenyl-phenylether	SW-846 8270 latest version
Organic - SVOC - General	4-Chloro-3-methylphenol	SW-846 8270 latest version
Organic - SVOC - General	4-Chloroaniline	SW-846 8270 latest version
Organic - SVOC - General	4-Chlorophenyl-phenylether	SW-846 8270 latest version
Organic - SVOC - General	4-Methylphenol	SW-846 8270 latest version

Organic - SVOC - General	4-Nitroaniline	SW-846 8270 latest version
Organic - SVOC - General	4-Nitrophenol	SW-846 8270 latest version
Organic - SVOC - General	4-Nitroquinoline-1-oxide	SW-846 8270 latest version
Organic - SVOC - General	5-Nitro-o-toluidine	SW-846 8270 latest version
Organic - SVOC - General	6-Methylchrysene	SW-846 8270 latest version
Organic - SVOC - General	7,12-Dimethylbenz[a]anthracene	SW-846 8270 latest version
Organic - SVOC - PAH	Acenaphthene	SW-846 8270 latest version
Organic - SVOC - PAH	Acenaphthylene	SW-846 8270 latest version
Organic - SVOC - General	Acetophenone	SW-846 8270 latest version
Organic - SVOC - General	Acrylamide	SW-846 8270 latest version
Organic - SVOC - General	a-methylstyrene	SW-846 8270 latest version
Organic - SVOC - General	Aniline	SW-846 8270 latest version
Organic - SVOC - PAH	Anthracene	SW-846 8270 latest version
Organic - SVOC - General	Aramite	SW-846 8270 latest version
Organic - SVOC - General	Atrazine	SW-846 8270 latest version
Organic - SVOC - General	Benzaldehyde	SW-846 8270 latest version
Organic - SVOC - General	Benzidine	SW-846 8270 latest version
Organic - SVOC - PAH	Benzo(b)fluoranthene	SW-846 8270 latest version
Organic - SVOC - PAH	Benzo(a)anthracene	SW-846 8270 latest version
Organic - SVOC - PAH	Benzo(a)pyrene	SW-846 8270 latest version
Organic - SVOC - PAH	Benzo(g,h,i)perylene	SW-846 8270 latest version
Organic - SVOC - PAH	Benzo(k)fluoranthene	SW-846 8270 latest version
Organic - SVOC - General	Benzoic acid	SW-846 8270 latest version
Organic - SVOC - General	Benzyl alcohol	SW-846 8270 latest version
Organic - SVOC - General	bis(2-Chloroethoxy)methane	SW-846 8270 latest version
Organic - SVOC - General	bis(2-Chloroethyl)ether	SW-846 8270 latest version
Organic - SVOC - General	bis(2-Chloroisopropyl)ether	SW-846 8270 latest version
Organic - SVOC - General	bis(2-Ethylhexyl)phthalate	SW-846 8270 latest version
Organic - SVOC - General	Butylbenzylphthalate	SW-846 8270 latest version
Organic - SVOC - General	Caprolactam	SW-846 8270 latest version
Organic - SVOC - General	Carbazole	SW-846 8270 latest version
Organic - SVOC - General	Chlorobenzilate	SW-846 8270 latest version
Organic - SVOC - PAH	Chrysene	SW-846 8270 latest version
Organic - SVOC - General	Diallate trans/cis	SW-846 8270 latest version
Organic - SVOC - PAH	Dibenz(a,h)anthracene	SW-846 8270 latest version
Organic - SVOC - General	Dibenz(a,h)acridine	SW-846 8270 latest version
Organic - SVOC - General	Dibenz(a,j)acridine	SW-846 8270 latest version
Organic - SVOC - General	Dibenzofuran	SW-846 8270 latest version
Organic - SVOC - General	Diethylphthalate	SW-846 8270 latest version
Organic - SVOC - General	Dimethoate	SW-846 8270 latest version
Organic - SVOC - General	Dimethylphthalate	SW-846 8270 latest version
Organic - SVOC - General	p-Dimethylaminoazobenzene	SW-846 8270 latest version
Organic - SVOC - General	Di-n-butylphthalate	SW-846 8270 latest version
Organic - SVOC - General	Di-n-octylphthalate	SW-846 8270 latest version
Organic - SVOC - General	Dinoseb	SW-846 8270 latest version
Organic - SVOC - General	Diphenyl ether	SW-846 8270 latest version
Organic - SVOC - General	Disulfoton	SW-846 8270 latest version

Organic - SVOC - General	Ethyl methanesulfonate	SW-846 8270 latest version
Organic - SVOC - General	Famphur	SW-846 8270 latest version
Organic - SVOC - General	Fluoranthene	SW-846 8270 latest version
Organic - SVOC - PAH	Fluorene	SW-846 8270 latest version
Organic - SVOC - General	Hexachlorobenzene	SW-846 8270 latest version
Organic - SVOC - General	Hexachlorobutadiene	SW-846 8270 latest version
Organic - SVOC - General	pronamide	SW-846 8270 latest version
Organic - SVOC - General	Hexachloroethane	SW-846 8270 latest version
Organic - SVOC - General	Hexachloropropene	SW-846 8270 latest version
Organic - SVOC - PAH	Indene	SW-846 8270 latest version
Organic - SVOC - PAH	Indeno(1,2,3-cd)pyrene	SW-846 8270 latest version
Organic - SVOC - General	Isodrin	SW-846 8270 latest version
Organic - SVOC - General	Isophorone	SW-846 8270 latest version
Organic - SVOC - General	Isosafrole	SW-846 8270 latest version
Organic - SVOC - General	Methapyrilene	SW-846 8270 latest version
Organic - SVOC - General	Methyl methanesulfonate	SW-846 8270 latest version
Organic - SVOC - General	Methyl parathion	SW-846 8270 latest version
Organic - SVOC - PAH	Naphthalene	SW-846 8270 latest version
Organic - SVOC - General	Nitrobenzene	SW-846 8270 latest version
Organic - SVOC - General	N-Nitrosodiethylamine	SW-846 8270 latest version
Organic - SVOC - General	N-Nitrosodimethylamine	SW-846 8270 latest version
Organic - SVOC - General	N-Nitrosodi-n-butylamine	SW-846 8270 latest version
Organic - SVOC - General	N-Nitroso-di-n-propylamine	SW-846 8270 latest version
Organic - SVOC - General	N-Nitrosodiphenylamine	SW-846 8270 latest version
Organic - SVOC - General	N-Nitrosomethylethylamine	SW-846 8270 latest version
Organic - SVOC - General	N-Nitrosomorpholine	SW-846 8270 latest version
Organic - SVOC - General	N-Nitrosopiperidine	SW-846 8270 latest version
Organic - SVOC - General	N-Nitrosopyrrolidine	SW-846 8270 latest version
Organic - SVOC - General	O,O,O-Triethylphosphorothioate	SW-846 8270 latest version
Organic - SVOC - General	Parathion	SW-846 8270 latest version
Organic - SVOC - General	Pentachlorobenzene	SW-846 8270 latest version
Organic - SVOC - General	Pentachloronitrobenzene	SW-846 8270 latest version
Organic - SVOC - General	Pentachlorophenol	SW-846 8270 latest version
Organic - SVOC - General	Phenacetin	SW-846 8270 latest version
Organic - SVOC - PAH	Phenanthrene	SW-846 8270 latest version
Organic - SVOC - General	Phenol	SW-846 8270 latest version
Organic - SVOC - General	p-Phenylenediamine	SW-846 8270 latest version
Organic - SVOC - General	Phorate	SW-846 8270 latest version
Organic - SVOC - General	Pronamide	SW-846 8270 latest version
Organic - SVOC - PAH	Pyrene	SW-846 8270 latest version
Organic - SVOC - General	Pyridine	SW-846 8270 latest version
Organic - SVOC - General	Quinoline	SW-846 8270 latest version
Organic - SVOC - General	Safrole	SW-846 8270 latest version
Organic - SVOC - General	Tetraethyldithiopyrophosphate	SW-846 8270 latest version
Organic - SVOC - General	1,2,3,4-Tetrahydronaphthalene	SW-846 8270 latest version
Organic - SVOC - General	Thionazin	SW-846 8270 latest version
Organic - SVOC - General	Benzenethiol	SW-846 8270 latest version

Organic - SVOC - General	2,3-Dichloroaniline	To be determined
Organic - SVOC - General	a-Terpineol	To be determined

Organic - SVOC - Organic Acids	Isopropanol	SW-846 8015 latest version
Organic - SVOC - Organic Acids	Acetic Acid	SW-846 8015 latest version
Organic - SVOC - Organic Acids	Butyric Acid	SW-846 8015 latest version
Organic - SVOC - Organic Acids	Citric Acid	SW-846 8015 latest version
Organic - SVOC - Organic Acids	Ethanol	SW-846 8015 latest version
Organic - SVOC - Organic Acids	Formic Acid	SW-846 8015 latest version
Organic - SVOC - Organic Acids	Isobutyric acid	SW-846 8015 latest version
Organic - SVOC - Organic Acids	Lactic acid	SW-846 8015 latest version
Organic - SVOC - Organic Acids	Methanol	SW-846 8015 latest version
Organic - SVOC - Organic Acids	Oxalic Acid	SW-846 8015 latest version
Organic - SVOC - Organic Acids	Propionic Acid	SW-846 8015 latest version
Organic - SVOC - Organic Acids	Pyruvic Acid	SW-846 8015 latest version
Organic - SVOC - Organic Acids	Quinic Acid	SW-846 8015 latest version
Organic - SVOC - Organic Acids	Succinic Acid	SW-846 8015 latest version
Organic - SVOC - Organic Acids	Tartaric Acid	SW-846 8015 latest version

Organic - SVOC - Carbonyl Compounds	Acetaldehyde	SW-846 8315 latest version
Organic - SVOC - Carbonyl Compounds	Formaldehyde	SW-846 8315 latest version
Organic - SVOC - Carbonyl Compounds	Glutaraldehyde	SW-846 8315 latest version
Organic - SVOC - General	2-Methoxyethanol	SW-846 8321 (HPLC), latest version - solvent extractable nonvolatile organics
Organic - SVOC - General	Diethylene glycol	SW-846 8321 (HPLC), latest version - solvent extractable nonvolatile organics
Organic - SVOC - General	Ethylene glycol	SW-846 8321 (HPLC), latest version - solvent extractable nonvolatile organics
Organic - SVOC - General	Propylene glycol	SW-846 8321 (HPLC), latest version - solvent extractable nonvolatile organics
Organic - SVOC - General	Tetraethylene glycol	SW-846 8321 (HPLC), latest version - solvent extractable nonvolatile organics
Organic - SVOC - General	Triethylene glycol	SW-846 8321 (HPLC), latest version - solvent extractable nonvolatile organics

Organic - SVOC -	Bisphenol-A	To be determined
Organic - SVOC -	p-Nonylphenol (Technical mixture)	To be determined
Organic - SVOC -	Nonylphenol Diethoxylate (Technical mixture)	To be determined

Organic - SVOC -	Nonylphenol Monoethoxylate (Technical mixture)	To be determined
Organic - SVOC -	para-tert-Octylphenol	To be determined

Organic - SVOC - PFAS	PFOS, PFOA, PFHxS	EPA 537.1 Modified

Organic - SVOC - Explosives	Dinitrobenzene 1,3-	SW-846 8095 latest version
Organic - SVOC - Explosives	Dinitrotoluene 2,4-	SW-846 8095 latest version
Organic - SVOC - Explosives	Dinitrotoluene 2,6-	SW-846 8095 latest version
Organic - SVOC - Explosives	Dinitrotoluene, 2-Amino-4,6-	SW-846 8095 latest version
Organic - SVOC - Explosives	Dinitrotoluene, 4-Amino-2,6-	SW-846 8095 latest version
Organic - SVOC - Explosives	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	SW-846 8095 latest version
Organic - SVOC - Explosives	Nitroglycerin	SW-846 8095 latest version
Organic - SVOC - Explosives	Nitrotoluene, m-	SW-846 8095 latest version
Organic - SVOC - Explosives	Nitrotoluene, o-	SW-846 8095 latest version
Organic - SVOC - Explosives	Nitrotoluene, p-	SW-846 8095 latest version
Organic - SVOC - Explosives	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetra (HMX)	SW-846 8095 latest version
Organic - SVOC - Explosives	PETN	SW-846 8095 latest version
Organic - SVOC - Explosives	Tetryl (Trinitrophenylmethylnitramine)	SW-846 8095 latest version
Organic - SVOC - Explosives	Trinitrobenzene, 1,3,5-	SW-846 8095 latest version
Organic - SVOC - Explosives	Trinitrotoluene, 2,4,6-	SW-846 8095 latest version

Organic - SVOC - Agent Breakdown Products	Diisopropyl methylphosphonate (DIMP)	EPA Method 538
Organic - SVOC - Agent Breakdown Products	IMPA	EPA Method 538
Organic - SVOC - Agent Breakdown Products	MPA	EPA Method 538
Organic - SVOC - Agent Breakdown Products	Thioglycol	EPA Method 538

Organic - SVOC - Polychlorinated biphenyls (PCBs	Aroclors	SW-846 8082 latest version
Organic - SVOC - Polychlorinated biphenyls (PCBs)	WHO list of congeners	EPA 1668B

WHO = World Health Organization 2,3,7,8 substituted congeners

Organic - SVOC - Pesticides/Herbicides	4,4-DDD	SW-846 8081 latest version
Organic - SVOC - Pesticides/Herbicides	4,4-DDE	SW-846 8081 latest version
Organic - SVOC - Pesticides/Herbicides	4,4-DDT	SW-846 8081 latest version
Organic - SVOC - Pesticides/Herbicides	Aldrin	SW-846 8081 latest version
Organic - SVOC - Pesticides/Herbicides	Alpha-BHC	SW-846 8081 latest version
Organic - SVOC - Pesticides/Herbicides	b-BHC	SW-846 8081 latest version
Organic - SVOC - Pesticides/Herbicides	Chlordane	SW-846 8081 latest version
Organic - SVOC - Pesticides/Herbicides	d-BHC	SW-846 8081 latest version
Organic - SVOC - Pesticides/Herbicides	Dieldrin	SW-846 8081 latest version
Organic - SVOC - Pesticides/Herbicides	Endosulfan 1	SW-846 8081 latest version
Organic - SVOC - Pesticides/Herbicides	Endosulfan 2	SW-846 8081 latest version

Organic - SVOC - Pesticides/Herbicides	Endosulfan sulfate	SW-846 8081 latest version
Organic - SVOC - Pesticides/Herbicides	Endrin	SW-846 8081 latest version
Organic - SVOC - Pesticides/Herbicides	Endrin Aldehyde	SW-846 8081 latest version
Organic - SVOC - Pesticides/Herbicides	Endrin Keytone	SW-846 8081 latest version
Organic - SVOC - Pesticides/Herbicides	gamma-BHC (Lindane)	SW-846 8081 latest version
Organic - SVOC - Pesticides/Herbicides	Heptachlor	SW-846 8081 latest version
Organic - SVOC - Pesticides/Herbicides	Heptachlor Epoxide	SW-846 8081 latest version
Organic - SVOC - Pesticides/Herbicides	Methoxychlor	SW-846 8081 latest version
Organic - SVOC - Pesticides/Herbicides	Toxaphene	SW-846 8081 latest version
Organic - SVOC - Pesticides/Herbicides	Glyphosate	To be determined
Organic - SVOC - Pesticides/Herbicides	Prometon	To be determined
Organic - SVOC - Pesticides/Herbicides	Carbaryl	SW-846 8270 (TIC)
Organic - SVOC - Pesticides/Herbicides	Cloropyrifos	SW-846 8141
Organic - SVOC - Pesticides/Herbicides	Demeton	SW-846 8141
Organic - SVOC - Pesticides/Herbicides	Diazinon	SW-846 8141
Organic - SVOC - Pesticides/Herbicides	2,4-dichlorophenoxyacetic acid	SW-846 8151
Organic - SVOC - Pesticides/Herbicides	Azinophos-methylo (Guthion)	SW-846 8141
Organic - SVOC - Pesticides/Herbicides	Malathion	SW-846 8141
Organic - SVOC - Pesticides/Herbicides	Mirex	SW-846 8081

Organic - SVOC - Dioxins	2,3,7,8-TCDD	EPA 1613B