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May 1, 2025

Mahnaz Ghamati, Compliance Manager
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Mojave Solar Project
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MOJAVE SOLAR PROJECT (09-AFC-05C) ALPHA EAST LAND TREATMENT UNIT FINAL REMEDIATION PLAN COMMENTS

Dear Mahnaz Ghamati,

On March 16, 2026, a final Groundwater Quality Assessment and Contaminated Soil Remediation Work Plan was received and reviewed in coordination with the Lahontan Regional Water Quality Control Board (LRWQCB). The plan was prepared in response to a Notice of Violation (NOV) letter dated August 18, 2025, issued by the LRWQCB for an unauthorized discharge of heat transfer fluid (HTF) to the Harper Valley Groundwater Basin at the Alpha East land treatment unit (LTU).

As required by California Energy Commission (CEC) condition of certification **SOIL & WATER-2**, both the LRWQCB and CEC staff have reviewed the plan and are providing the comments below. Please ensure the comments are considered and integrated into the revised plan and resubmitted to both the CEC and LRWQCB staff for final review and approval prior to remediation activities commencing at the Mojave Solar Project (MSP), Alpha East LTU.

1. Section 1, Introduction

- a. **Land Treatment Unit Construction Details (Page 3)** Part of the 3rd sentence of the 4th paragraph reads; *"It was agreed to perform groundwater sampling using combination of drill rig and hydro punch to collect two groundwater samples at two locations, downstream of Alpha East LTU as shown in Figures 2a and 2b, ..."*. When referring to groundwater direction, the term down gradient should be used instead of downstream.

- b. **Land Treatment Unit Construction Details** – Title 27, §20323, requires a Construction Quality Assurance Plan (CQA Plan) and authorizes the Water Boards to require corrective action in the absence of a CQA Plan.
- 2. **Section 2.2, Site Geology and Hydrogeology, 1st paragraph, 2nd sentence** – This sentence states: “*The locations groundwater monitoring wells at MSP are Shown on Figure 2b*”. Since Figure 2b only depicts the area immediately surrounding the Alpha LTU and does not show the Detection Monitoring Program wells, the better term would be “groundwater monitoring wells proposed for the Alpha LTU investigation”.
- 3. **Section 2.2, Site Geology and Hydrogeology, 3rd paragraph**
 - a. **1st sentence** – The sentence reads; “*A shallow perched groundwater zone underlies the site*”. Wouldn’t this be the “Floodplain aquifer” recognized by the USGS and the Mojave Basin Watermaster described in the previous paragraph? If so, it should be noted here.
 - b. **3rd sentence** – For accuracy and to avoid confusion, the following terminology should be used for Detection Monitoring Program wells; MWP-100A through MWP-400A (for Alpha Power Block), and MWP-100B through MWP-400B (for Beta Power Block).
- 4. **Section 2.3 Land Treatment Unit, 4th paragraph**
 - a. Water Board staff agree with clean closure of the land treatment unit. Clean closure means all waste, waste residues, contaminated containment system components, contaminated subsoils and all other contaminated materials are removed or decontaminated at closure. In compliance with Section 4 of the Revised Remediation Workplan, precipitation and drainage controls must continue to be implemented to maintain storm water control during and after closure of the unit.
 - b. Construction of new land treatment units must be carried out according with a CQA Plan certified by a registered professional and satisfy the requirements outlined in Title 27, §20323 and §20324. Early consultation with the LRWQCB and the CEC is required to update the existing Report of Waste Discharge prior to construction of new land treatment units (Title 27, §21710).

5. **Section 3.1 Pre-field Activities, Permits** – Section begins “Prior to the start of “filed” work...”. Staff assumes “field” was meant to be used.

6. **Section 3.2 Grab Groundwater Sampling Using Hydropunch, Perched Groundwater Monitoring Well Installation**
 - a. Monitoring wells (MW) LTU-A1 and LTU-A2 are noted as the designations for the proposed monitoring wells to investigate the Alpha LTU. They remain consistent with the Detection Monitoring Program well-numbering system. We suggest using MWP-LTU-A1 & MWP-LTU-A2 as numbers for these wells.

 - b. **(Bullet 3)** – Same comment as Item 6 a, above.

 - c. **(Bullet 7)** - Waste containers must be stored in the hazardous waste storage area pending transport to an appropriately licensed disposal facility and removed within 90 days.

 - d. **(Bullet 8)** - Check to make sure the samples are sent to a lab that can analyze soil and groundwater samples using United States Environmental Protection Agency (US EPA) Test Method 8270E.

7. **Section 3.3 – Laboratory Testing**
 - a. **(Bullet 1)** – US EPA method 8015B is identified for detection of biphenyl and diphenyl oxide. As the CEC Compliance Project Manager (CPM) has notified MSP, the appropriate analytical method for accurate detection of biphenyl and diphenyl oxide is US EPA method 8270E. This test will analyze for semi-volatiles including biphenyl and diphenyl ether (also referred to as diphenyl oxide).

 - b. **(Bullet 4)** Groundwater sampling must include nitrates, phosphates/phosphorus, biphenyl, diphenyl oxide, volatile organic compounds, semi-volatile organic compounds, methylene blue activated substances, and polyfluorinated alkyl substances (US EPA Test Method 1633A).

8. **Section 3.4, Evaluation of Results** - The Water Board will compare the soil sampling results to the San Francisco Bay Regional Water Quality Control Board (SFWB), Soil Environmental Screening Levels (ESLs), for Leaching to Groundwater. Groundwater sampling results will be compared to SFWB Tier 1 Groundwater ESLs and the California Division of Drinking Water Maximum Contaminant Levels (CADDW MCLs). These screening levels will be used to

evaluate risks and determine appropriate remediation strategies as appropriate. Please see Attachment 1 SFWB ESLs and Attachment 2 CADDW MCLs for more information.

9. Section 3.5, Prepare Report, 2nd sentence

- a. Please ensure the tables include all data collected at the Alpha East LTU. The tables shall include soil data collected at the sample ports that originally identified a potential release, the soil and groundwater data collected during the 2024 investigation, and the results of the soil and groundwater sampling associated with this scope of work. Only those constituents detected need to be tabulated.
- b. The statement reads: "A PDF copy of the report will be uploaded electronically to GeoTracker". As the CPM oversees all compliance monitoring, the sentence should read: "A PDF copy of the report will be provided to the CPM and uploaded electronically to GeoTracker"

10. Section 4, Contaminated Soil Excavation, Removal, and Alpha East LTU Closure, 4th paragraph, 2nd sentence – As stated in Item 7, biphenyl and diphenyl oxide should be analyzed by EPA method 8270E. Soil samples should also be analyzed for EPA method 8260B to detect possible volatile organic breakdown products.

11. Section 4.2, Soil Excavation and Sampling

- a. As stated in Item 7, biphenyl and diphenyl oxide should be analyzed by US EPA method 8270E. Soil samples should also be analyzed for EPA method 8260B to detect possible volatile organic breakdown products. The test method will also test for the other semi-volatile organic compounds listed in 40 CFR Appendix II.
- b. **(Bullet 8)** – This passage states that excavation will stop at the depth of 10 feet. If the Alpha East LTU is going to be abandoned anyway, and if there is enough room outside the contaminated area, a benching approach could be used to excavate deeper and address safety concerns.
- c. **(Bullet 10)** – The tactic of dividing each stockpile into four sections and collecting three composite samples for each section seems to be a logical approach; however, it does not account for variable conditions. What if one or more stockpiles are of small volume (~5 cy), would that

stockpile still be divided into 4 sections? Likewise, if one or more of the stockpiles exceed 400 cy, would the same method be used?

- d. **(Bullet 11)** – The passage states that one sample per stockpile will be analyzed by US EPA method 8270E. As stated previously, all samples should be analyzed by US EPA method 8270E for the detection of biphenyl and diphenyl oxide. What analytical method will be used to detect total metals?
- e. **(Bullet 12)** – The passage states that excavation will terminate when all confirmation samples are non-detect. Non-detect is an admirable objective, but not always practical. An action level other than non-detect may be advisable. For instance, there are the EPA regional screening levels (RSLs) for residential soil; biphenyl - 47 mg/kg, diphenyl ether - 34 mg/kg. These confirmation samples would need to be approved by the CPM and the LRWQCB.
- f. **(Bullet 15)** - Please record the locations where the excavated soil is reused onsite. Please note the soil is not authorized to be reused in stormwater conveyance channels.

12. Section 4.3 Laboratory Testing

- a. **(Bullet 1)** – As stated previously, please ensure USEPA Test Method 8270E is used to analyze for biphenyl and diphenyl ether/diphenyl oxide.

13. Figure 3 – Proposed Monitoring Well Design, (Page 25 of 111)

- a. If this is a proposed monitoring well design diagram, what is the lithologic description based on?
- b. The figure indicates that an 8-inch auger will be used to install a 2-inch well. To install a 2-inch well, a 6-inch auger should be used. Please confirm if the wells will be 2-inch or 4-inch.

To ensure a timely review, CEC staff is requesting a revised final remediation plan within 30 days that incorporates the comments listed above. Lastly, please include a schedule that outlines the implementation of the remediation scope of work in the final plan. If you have any questions, please contact Compliance Project Manager, Ashley Gutierrez, Compliance Monitoring and Enforcement Unit, Safety and Reliability Branch, at (916) 839-0400 or Ashley.Gutierrez@energy.ca.gov.

Sincerely,

Hurshbir Shahi

Hurshbir Shahi, Supervisor
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Safety and Reliability Branch
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ATTACHMENT I
San Francisco Bay Regional Water Quality Control Board
Soil Environmental Screening Levels

2025 (Rev 3)		Summary of Groundwater ESLs (µg/L)														
Chemicals	CAS No.	Direct Exposure Human Health Risk Levels (Table GW-1)			Aquatic Habitat Goal Levels (Table GW-2)			Groundwater Vapor Intrusion Human Health Risk Levels (Table GW-3)				Gross Contamination Levels (GW-4)	Odor Nuisance Levels (Table GW-5)		GW Tier 1 ESL	Basis
		MCL ¹	Tapwater Cancer Risk	Tapwater Non-cancer Hazard	Fresh Water Ecotox	Saltwater Ecotox	Seafood Ingestion Human Health	Residential		Commercial/Industrial			Drinking Water	Non-Drinking Water		
								Cancer Risk	Non-cancer Hazard	Cancer Risk	Non-cancer Hazard					
Acetone	67-64-1	--	--	1.4E+04	1.5E+03	--	--	--	2.3E+07	--	9.5E+07	5.0E+04	2.0E+04	2.0E+05	1.5E+03	Aquatic Habitat
Aldrin	309-00-2	--	9.2E-04	2.0E-03	3.0E-01	1.3E-01	7.7E-07	3.2E-01	--	1.4E+00	--	8.5E+00	1.7E+01	1.7E+02	7.7E-07	Aquatic Habitat
Antimony	7440-36-0	6.0E+00	--	1.0E+00	3.0E+01	5.0E+02	6.4E+02	--	--	--	--	5.0E+04	--	--	6.0E+00	MCL
Arsenic	7440-38-2	1.0E+01	2.4E-03	7.0E-02	1.5E+02	8.0E+00	1.4E-01	--	--	--	--	5.0E+04	--	--	1.4E-01	Aquatic Habitat
Barium	7440-39-3	1.0E+03	--	2.0E+03	--	--	--	--	--	--	--	5.0E+04	--	--	1.0E+03	MCL
Benzene	71-43-2	1.0E+00	1.5E-01	5.7E+00	4.6E+01	3.5E+02	5.9E+00	4.3E-01	1.4E+01	1.9E+00	5.8E+01	5.0E+04	1.7E+02	2.0E+04	4.3E-01	Vapor Intrusion
Beryllium	7440-41-7	4.0E+00	--	1.0E+00	2.7E+00	--	3.3E-02	--	--	--	--	5.0E+04	--	--	3.3E-02	Aquatic Habitat
1,1-Biphenyl	92-52-4	--	3.9E+00	8.3E-01	1.4E+01	--	--	--	3.3E+01	--	1.4E+02	3.7E+03	5.0E-01	5.0E+00	5.0E-01	Odor/Nuis
Bis(2-chloroethyl) ether	111-44-4	--	6.3E-03	--	6.1E+01	--	4.5E-02	5.7E+00	--	2.5E+01	--	5.0E+04	3.6E+02	3.6E+03	6.3E-03	Tapwater
Bis(2-chloro-1-methylethyl) ether	108-60-1	--	--	7.1E+02	6.1E+01	--	4.0E+03	--	--	--	--	5.0E+04	3.2E+02	3.2E+03	6.1E+01	Aquatic Habitat
Bis(2-ethylhexyl) phthalate	117-81-7	4.0E+00	5.6E+00	4.0E+02	3.2E+01	--	3.7E-01	--	--	--	--	1.4E+02	--	--	3.7E-01	Aquatic Habitat
Boron	7440-42-8	--	--	1.0E+03	1.6E+00	--	--	--	--	--	--	5.0E+04	--	--	1.6E+00	Aquatic Habitat
Bromodichloromethane	75-27-4	8.0E+01	6.0E-02	1.5E+02	1.1E+03	3.2E+03	2.7E+01	8.8E-01	--	3.8E+00	--	5.0E+04	--	--	8.8E-01	Vapor Intrusion
Bromoform (Tribromomethane)	75-25-2	8.0E+01	5.0E-01	3.8E+02	1.1E+03	3.2E+03	1.2E+02	1.2E+02	--	5.1E+02	--	5.0E+04	5.1E+02	5.1E+03	8.0E+01	MCL
Bromomethane	74-83-9	--	--	7.5E+00	1.6E+02	3.2E+03	4.0E+03	--	1.7E+01	--	7.3E+01	5.0E+04	--	--	7.5E+00	Tapwater
Cadmium (water)	7440-43-9	5.0E+00	--	4.0E-02	2.5E-01	1.0E+00	--	--	--	--	--	5.0E+04	--	--	2.5E-01	Aquatic Habitat
Carbon tetrachloride	56-23-5	5.0E-01	1.0E-01	3.7E+01	2.4E+02	3.2E+03	9.0E-01	4.1E-01	3.7E+01	1.8E+00	1.6E+02	5.0E+04	5.2E+02	5.2E+03	4.1E-01	Vapor Intrusion
Chlordane	12789-03-6	1.0E-01	2.0E-02	7.4E-01	4.3E-03	4.0E-03	2.3E-05	1.4E+01	3.7E+02	6.2E+01	1.5E+03	2.8E+01	2.5E+00	2.5E+01	2.3E-05	Aquatic Habitat
p-Chloroaniline	106-47-8	--	3.7E-01	9.5E+00	5.0E+00	--	--	--	--	--	--	5.0E+04	--	--	3.7E-01	Tapwater
Chlorobenzene	108-90-7	7.0E+01	--	7.0E+01	2.5E+01	6.5E+01	5.7E+02	--	4.1E+02	--	1.7E+03	5.0E+04	5.0E+01	5.0E+02	2.5E+01	Aquatic Habitat
Chloroethane	75-00-3	--	--	8.3E+03	--	--	--	--	9.2E+03	--	3.9E+04	5.0E+04	1.6E+01	1.6E+02	1.6E+01	Odor/Nuis
Chloroform	67-66-3	8.0E+01	2.2E-01	4.0E+00	6.2E+02	3.2E+03	1.3E+02	8.1E-01	1.4E+01	3.6E+00	5.7E+01	5.0E+04	2.4E+03	2.4E+04	8.1E-01	Vapor Intrusion
Chloromethane	74-87-3	--	--	1.9E+02	1.1E+03	3.2E+03	--	--	2.6E+02	--	1.1E+03	5.0E+04	--	--	1.9E+02	Tapwater
2-Chlorophenol	95-57-8	--	--	9.1E+01	4.4E+02	1.0E+00	4.0E+02	--	--	--	--	5.0E+04	1.8E-01	1.8E+00	1.8E-01	Odor/Nuis
Chromium (total)	7440-47-3	5.0E+01	--	--	1.8E+02	--	--	--	--	--	--	5.0E+04	--	--	5.0E+01	MCL
Chromium III	16065-83-1	--	--	2.2E+04	1.8E+02	1.0E+03	1.9E+05	--	--	--	--	5.0E+04	--	--	1.8E+02	Aquatic Habitat
Chromium VI	18540-29-9	1.0E+01	2.0E-02	1.3E+01	1.1E+01	2.0E+00	--	--	--	--	--	5.0E+04	--	--	2.0E+00	Aquatic Habitat
Cobalt	7440-48-4	--	--	6.0E+00	3.0E+00	--	--	--	--	--	--	5.0E+04	--	--	3.0E+00	Aquatic Habitat
Copper	7440-50-8	1.0E+03	--	3.0E+02	9.0E+00	3.0E+00	--	--	--	--	--	5.0E+04	1.0E+03	--	3.0E+00	Aquatic Habitat
Cyanide	57-12-5	1.5E+02	--	1.5E+00	5.2E+00	1.0E+00	4.0E+02	--	2.0E+02	--	8.4E+02	5.0E+04	1.7E+02	1.7E+03	1.0E+00	Aquatic Habitat
Dibromochloromethane	124-48-1	8.0E+01	1.0E-01	3.8E+02	1.1E+03	3.2E+03	2.1E+01	--	--	--	--	5.0E+04	--	--	2.1E+01	Aquatic Habitat
1,2-dibromo-3-chloropropane	96-12-8	2.0E-01	3.0E-04	3.7E-01	--	--	--	2.8E-02	3.5E+01	3.4E-01	1.5E+02	5.0E+04	1.0E+01	1.0E+02	2.8E-02	Vapor Intrusion
1,2-Dibromoethane	106-93-4	5.0E-02	7.5E-03	1.7E+00	1.4E+03	--	--	1.8E-01	3.1E+01	7.7E-01	1.3E+02	5.0E+04	--	--	5.0E-02	MCL
1,2-Dichlorobenzene	95-50-1	6.0E+02	--	3.0E+02	1.4E+01	6.5E+01	3.0E+03	--	2.7E+03	--	1.1E+04	5.0E+04	1.0E+02	1.0E+02	1.4E+01	Aquatic Habitat
1,4-Dichlorobenzene	106-46-7	5.0E+00	4.8E-01	5.7E+02	1.5E+01	6.5E+01	1.8E+01	2.6E+00	8.5E+03	1.1E+01	3.6E+04	4.1E+04	5.0E+00	1.1E+02	2.6E+00	Vapor Intrusion
3,3-Dichlorobenzidine	91-94-1	--	4.7E-02	--	2.5E+02	--	7.7E-02	--	--	--	--	1.6E+03	--	--	4.7E-02	Tapwater
DDD	72-54-8	--	3.2E-02	1.1E+00	1.0E-03	1.0E-03	1.2E-04	--	--	--	--	4.5E+01	--	--	1.2E-04	Aquatic Habitat
DDE	72-55-9	--	4.6E-02	1.0E+01	1.0E-03	1.0E-03	1.8E-05	1.7E+01	--	7.4E+01	--	2.0E+01	--	--	1.8E-05	Aquatic Habitat
DDT	50-29-3	--	2.3E-01	1.0E+01	1.0E-03	1.0E-03	3.0E-05	--	--	--	--	2.8E+00	3.5E+02	3.5E+03	3.0E-05	Aquatic Habitat

2025 (Rev 3)		Summary of Groundwater ESLs (µg/L)														
Chemicals	CAS No.	Direct Exposure Human Health Risk Levels (Table GW-1)			Aquatic Habitat Goal Levels (Table GW-2)			Groundwater Vapor Intrusion Human Health Risk Levels (Table GW-3)				Gross Contamination Levels (GW-4)	Odor Nuisance Levels (Table GW-5)		GW Tier 1 ESL	Basis
		MCL ¹	Tapwater Cancer Risk	Tapwater Non-cancer Hazard	Fresh Water Ecotox	Saltwater Ecotox	Seafood Ingestion Human Health	Residential		Commercial/Industrial			Drinking Water	Non-Drinking Water		
								Cancer Risk	Non-cancer Hazard	Cancer Risk	Non-cancer Hazard					
1,1-Dichloroethane	75-34-3	5.0E+00	2.8E+00	3.8E+03	4.7E+01	--	--	7.6E+00	--	3.3E+01	--	5.0E+04	--	--	5.0E+00	MCL
1,2-Dichloroethane	107-06-2	5.0E-01	1.7E-01	1.3E+01	1.0E+04	1.1E+04	2.8E+01	2.2E+00	1.5E+02	9.8E+00	6.4E+02	5.0E+04	7.0E+03	2.0E+05	5.0E-01	MCL
1,1-Dichloroethene	75-35-4	6.0E+00	--	8.2E+00	2.5E+01	2.2E+04	9.0E-01	--	3.9E+00	--	1.6E+01	5.0E+04	1.5E+03	1.5E+04	9.0E-01	Aquatic Habitat
cis-1,2-Dichloroethene	156-59-2	6.0E+00	--	1.3E+01	5.9E+02	2.2E+04	--	--	2.5E+02	--	1.1E+03	5.0E+04	--	--	6.0E+00	MCL
trans-1,2-Dichloroethene	156-60-5	1.0E+01	--	5.0E+01	5.9E+02	2.2E+04	4.0E+03	--	1.1E+02	--	4.6E+02	5.0E+04	2.6E+02	2.6E+03	1.0E+01	MCL
2,4-Dichlorophenol	120-83-2	--	--	4.6E+01	1.8E+02	1.0E+00	6.0E+01	--	--	--	--	5.0E+04	3.0E-01	3.0E+00	3.0E-01	Odor/Nuis
1,2-Dichloropropane	78-87-5	5.0E+00	5.0E-01	8.2E+00	2.9E+03	1.5E+03	3.1E+01	6.6E+00	3.6E+01	2.9E+01	1.5E+02	5.0E+04	1.0E+01	1.0E+02	5.0E+00	MCL
1,3-Dichloropropene	542-75-6	5.0E-01	2.0E-01	3.9E+01	1.2E+02	7.9E+01	1.2E+01	4.8E+00	1.4E+02	2.1E+01	6.0E+02	5.0E+04	--	--	5.0E-01	MCL
Dieldrin	60-57-1	--	1.8E-03	2.0E-03	5.6E-02	1.9E-03	1.2E-06	--	--	--	--	9.8E+01	4.1E+01	4.1E+02	1.2E-06	Aquatic Habitat
Diethyl phthalate	84-66-2	--	--	1.5E+04	1.5E+00	1.7E+00	6.0E+02	--	--	--	--	5.0E+04	--	--	1.5E+00	Aquatic Habitat
2,4-Dimethylphenol	105-67-9	--	--	1.0E+02	5.3E+02	3.0E+01	2.3E+03	--	--	--	--	5.0E+04	4.0E+02	4.0E+03	3.0E+01	Aquatic Habitat
2,4-Dinitrophenol	51-28-5	--	--	3.9E+01	7.5E+01	3.0E+01	4.0E+00	--	--	--	--	5.0E+04	--	--	4.0E+00	Aquatic Habitat
2,4-Dinitrotoluene	121-14-2	--	2.4E-01	3.8E+01	1.2E+02	1.9E+02	1.7E+00	--	--	--	--	5.0E+04	--	--	2.4E-01	Tapwater
1,4-Dioxane	123-91-1	--	4.6E-01	5.7E+01	3.4E+05	5.0E+05	--	2.9E+03	1.6E+05	1.2E+04	6.7E+05	5.0E+04	2.3E+05	--	4.6E-01	Tapwater
Dioxin (2,3,7,8-TCDD)	1746-01-6	3.0E-05	1.2E-07	1.2E-05	5.0E-06	--	5.1E-09	3.6E-05	2.0E-02	1.6E-04	8.6E-02	1.0E-01	--	--	5.1E-09	Aquatic Habitat
Endosulfan	115-29-7	--	--	1.0E+02	5.6E-02	8.7E-03	2.4E+02	--	--	--	--	1.6E+02	--	--	8.7E-03	Aquatic Habitat
Endrin	72-20-8	2.0E+00	--	3.0E-01	3.6E-02	2.0E-03	3.0E-02	--	--	--	--	1.3E+02	4.1E+01	4.1E+02	2.0E-03	Aquatic Habitat
Ethylbenzene	100-41-4	3.0E+02	1.5E+00	3.0E+02	2.9E+02	4.3E+01	1.3E+02	3.5E+00	3.2E+03	1.5E+01	1.4E+04	5.0E+04	3.0E+01	3.0E+02	3.5E+00	Vapor Intrusion
Heptachlor	76-44-8	1.0E-02	1.4E-03	2.6E-01	3.8E-03	3.6E-03	5.9E-06	1.8E-01	--	7.8E-01	--	9.0E+01	2.0E+01	2.0E+02	5.9E-06	Aquatic Habitat
Heptachlor epoxide	1024-57-3	1.0E-02	1.4E-03	1.2E-01	3.8E-03	3.6E-03	2.0E-05	1.3E+00	--	5.5E+00	--	1.0E+02	--	--	2.0E-05	Aquatic Habitat
Hexachlorobenzene	118-74-1	1.0E+00	8.8E-03	2.0E-01	3.7E+00	6.5E+01	7.9E-05	7.9E-02	--	3.5E-01	--	3.1E+00	3.0E+03	3.0E+04	7.9E-05	Aquatic Habitat
Hexachlorobutadiene	87-68-3	--	1.4E-01	6.5E+00	4.7E+00	3.2E+00	1.0E-02	3.0E-01	--	1.3E+00	--	1.6E+03	6.0E+00	6.0E+01	1.0E-02	Aquatic Habitat
γ-Hexachlorocyclohexane (Lindane)	58-89-9	2.0E-01	3.2E-02	9.7E-03	8.0E-02	4.0E-03	6.3E-02	--	--	--	--	3.7E+03	1.2E+04	1.2E+05	4.0E-03	Aquatic Habitat
Hexachloroethane	67-72-1	--	3.3E-01	6.2E+00	1.2E+01	9.4E+01	1.0E-01	1.6E+00	2.0E+02	7.0E+00	8.3E+02	2.5E+04	1.0E+01	1.0E+02	1.0E-01	Aquatic Habitat
Lead	7439-92-1	1.5E+01	--	2.0E-01	2.5E+00	2.0E+00	--	--	--	--	--	5.0E+04	--	--	2.0E+00	Aquatic Habitat
Mercury (elemental)	7439-97-6	2.0E+00	--	6.1E-02	2.5E-02	2.5E-02	5.1E-02	--	8.9E-02	--	3.7E-01	3.0E+01	--	--	2.5E-02	Aquatic Habitat
Methoxychlor	72-43-5	3.0E+01	--	9.0E-02	1.9E-02	3.0E-03	2.0E-02	--	--	--	--	5.0E+01	4.7E+03	4.7E+04	3.0E-03	Aquatic Habitat
Methylene chloride	75-09-2	5.0E+00	1.7E+00	1.0E+02	2.2E+03	3.2E+03	1.0E+03	7.6E+00	3.1E+03	9.2E+01	1.3E+04	5.0E+04	9.1E+03	9.1E+04	5.0E+00	MCL
Methyl ethyl ketone	78-93-3	--	--	5.6E+03	1.4E+04	--	--	--	2.2E+06	--	9.4E+06	5.0E+04	8.4E+03	8.4E+04	5.6E+03	Tapwater
Methyl isobutyl ketone	108-10-1	--	--	1.2E+02	1.7E+02	--	--	--	5.5E+05	--	2.3E+06	5.0E+04	1.3E+03	1.3E+04	1.2E+02	Tapwater
Methyl mercury	22967-92-6	--	--	2.0E+00	3.0E-03	--	--	--	--	--	--	5.0E+04	--	--	3.0E-03	Aquatic Habitat
2-Methylnaphthalene	91-57-6	--	--	3.6E+01	2.1E+00	3.0E+01	--	--	--	--	--	1.2E+04	1.0E+01	1.0E+02	2.1E+00	Aquatic Habitat
Methyl tertiary butyl ether (MTBE)	1634-04-4	5.0E+00	1.3E+01	6.3E+03	6.6E+04	8.0E+03	--	4.5E+02	1.3E+05	2.0E+03	5.5E+05	5.0E+04	5.0E+00	1.8E+03	5.0E+00	Odor/Nuis
Molybdenum	7439-98-7	--	--	1.0E+02	2.4E+02	--	--	--	--	--	--	5.0E+04	--	--	1.0E+02	Tapwater
Nickel	7440-02-0	1.0E+02	1.2E+01	2.2E+02	5.2E+01	5.0E+00	4.6E+03	--	--	--	--	5.0E+04	--	--	5.0E+00	Aquatic Habitat
PAH: Acenaphthene	83-32-9	--	--	5.3E+02	2.3E+01	1.5E+01	9.0E+01	--	--	--	--	2.0E+03	2.0E+01	2.0E+02	1.5E+01	Aquatic Habitat
PAH: Anthracene	120-12-7	--	--	1.8E+03	7.3E-01	1.5E+01	4.0E+02	--	--	--	--	2.2E+01	--	--	7.3E-01	Aquatic Habitat
PAH: Benzo[a]anthracene	56-55-3	--	1.7E-02	--	2.7E-02	1.5E+01	1.3E-03	1.9E+01	--	2.3E+02	--	4.7E+00	--	--	1.3E-03	Aquatic Habitat
PAH: Benzo[a]pyrene	50-32-8	2.0E-01	7.0E-03	6.0E+00	1.4E-02	1.5E+01	1.3E-04	--	--	--	--	8.1E-01	--	--	1.3E-04	Aquatic Habitat

2025 (Rev 3)		Summary of Groundwater ESLs (µg/L)														
Chemicals	CAS No.	Direct Exposure Human Health Risk Levels (Table GW-1)			Aquatic Habitat Goal Levels (Table GW-2)			Groundwater Vapor Intrusion Human Health Risk Levels (Table GW-3)				Gross Contamination Levels (GW-4)	Odor Nuisance Levels (Table GW-5)		GW Tier 1 ESL	Basis
		MCL ¹	Tapwater Cancer Risk	Tapwater Non-cancer Hazard	Fresh Water Ecotox	Saltwater Ecotox	Seafood Ingestion Human Health	Residential		Commercial/Industrial			Drinking Water	Non-Drinking Water		
								Cancer Risk	Non-cancer Hazard	Cancer Risk	Non-cancer Hazard					
PAH: Benzo[b]fluoranthene	205-99-2	--	2.5E-01	--	--	1.5E+01	1.3E-03	--	--	--	--	7.5E-01	--	--	1.3E-03	Aquatic Habitat
PAH: Benzo[k]fluoranthene	207-08-9	--	2.5E+00	--	3.7E+00	1.5E+01	1.3E-02	--	--	--	--	4.0E-01	--	--	1.3E-02	Aquatic Habitat
PAH: Chrysene	218-01-9	--	2.5E+01	--	3.5E-01	1.5E+01	4.9E-02	--	--	--	--	1.0E+00	--	--	4.9E-02	Aquatic Habitat
PAH: Dibenz[a,h]anthracene	53-70-3	--	6.1E-03	--	7.5E+00	1.5E+01	1.3E-04	--	--	--	--	1.2E+00	--	--	1.3E-04	Aquatic Habitat
PAH: Fluoranthene	206-44-0	--	--	8.0E+02	8.1E+00	8.0E+00	2.0E+01	--	--	--	--	1.3E+02	--	--	8.0E+00	Aquatic Habitat
PAH: Fluorene	86-73-7	--	--	2.9E+02	3.9E+00	1.5E+01	7.0E+01	--	--	--	--	8.5E+02	--	--	3.9E+00	Aquatic Habitat
PAH: Indeno[1,2,3-c,d]pyrene	193-39-5	--	2.5E-01	--	--	1.5E+01	1.3E-03	--	--	--	--	9.5E-02	--	--	1.3E-03	Aquatic Habitat
PAH: Naphthalene	91-20-3	--	1.2E-01	6.1E+00	2.4E+01	1.5E+01	--	4.6E+00	1.7E+02	2.0E+01	7.3E+02	1.6E+04	2.1E+01	2.1E+02	1.2E-01	Tapwater
PAH: Pyrene	129-00-0	--	--	1.2E+02	2.0E+00	1.5E+01	3.0E+01	--	--	--	--	6.8E+01	--	--	2.0E+00	Aquatic Habitat
Pentachlorophenol	87-86-5	1.0E+00	4.1E-02	2.3E+01	1.5E+01	1.0E+00	4.0E-02	--	--	--	--	7.0E+03	3.0E+01	5.9E+03	4.0E-02	Aquatic Habitat
Perchlorate	7790-98-9	6.0E+00	--	1.0E+00	6.0E+02	--	--	--	--	--	--	5.0E+04	--	--	6.0E+00	MCL
Petroleum: Gasoline	--	--	--	8.0E+02	4.4E+02	3.7E+03	--	--	--	--	--	5.0E+04	1.0E+02	5.0E+03	1.0E+02	Odor/Nuis
Petroleum: Stoddard Solvent	--	--	--	2.1E+02	6.4E+02	6.4E+02	--	--	--	--	--	2.5E+03	1.0E+02	5.0E+03	1.0E+02	Odor/Nuis
Petroleum: Jet Fuel	--	--	--	2.1E+02	6.4E+02	6.4E+02	--	--	--	--	--	2.5E+03	1.0E+02	5.0E+03	1.0E+02	Odor/Nuis
Petroleum: Diesel	--	--	--	1.8E+02	6.4E+02	6.4E+02	--	--	--	--	--	2.5E+03	1.0E+02	5.0E+03	1.0E+02	Odor/Nuis
Petroleum: HOPs	--	--	--	4.1E+02	6.4E+02	6.4E+02	--	--	--	--	--	5.0E+04	1.0E+02	5.0E+03	1.0E+02	Odor/Nuis
Petroleum: Motor Oil	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PFAS: Perfluoropropanoic acid (PFPrA)	422-64-0	--	--	9.8E+00	2.0E-01	2.0E-01	--	--	--	--	--	5.0E+04	--	--	2.0E-01	Aquatic Habitat
PFAS: Perfluorobutanoic acid (PFBA)	375-22-4	--	--	1.8E+01	7.6E+01	1.2E+02	--	--	--	--	--	5.0E+04	--	--	1.8E+01	Tapwater
PFAS: Perfluoropentanoic acid (PFPeA)	2706-90-3	--	--	--	1.4E+02	--	--	--	--	--	--	5.0E+04	--	--	1.4E+02	Aquatic Habitat
PFAS: Perfluorohexanoic acid (PFHxA)	307-24-4	--	--	9.9E+00	3.4E+01	5.4E+02	--	--	--	--	--	5.0E+04	--	--	9.9E+00	Tapwater
PFAS: Perfluoroheptanoic acid (PFHpA)	375-85-9	--	--	--	8.7E+02	--	--	--	--	--	--	5.0E+04	--	--	8.7E+02	Aquatic Habitat
PFAS: Perfluorooctanoic acid (PFOA)	335-67-1	4.0E-03	2.7E-06	6.0E-04	4.8E+01	3.2E+00	3.6E-06	--	--	--	--	5.0E+04	--	--	3.6E-06	Aquatic Habitat
PFAS: Perfluorononanoic acid (PFNA)	375-95-1	< 0.01 (HI Calc)	--	5.9E-02	1.2E-01	1.2E-01	--	--	--	--	--	5.0E+04	--	--	< 0.01 (HI Calc)	MCL
PFAS: Perfluorodecanoic acid (PFDA)	335-76-2	--	--	4.0E-05	9.4E-02	9.4E-02	--	--	--	--	--	5.0E+04	--	--	4.0E-05	Tapwater
PFAS: Perfluoroundecanoic acid (PFUDA)	2058-94-8	--	--	6.0E+00	4.9E+01	--	--	--	--	--	--	4.6E+04	--	--	6.0E+00	Tapwater
PFAS: Perfluorododecanoic acid (PFDoDA)	307-55-1	--	--	1.0E+00	7.2E+01	--	--	--	--	--	--	4.1E+04	--	--	1.0E+00	Tapwater
PFAS: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	--	--	2.0E+01	--	--	--	--	--	--	--	1.5E+02	--	--	2.0E+01	Tapwater
PFAS: Perfluorooctadecanoic acid (PFODA)	16517-11-6	--	--	8.0E+02	--	--	--	--	--	--	--	2.4E+00	--	--	2.4E+00	Gross Contam
PFAS: Perfluorobutane sulfonic acid (PFBS)	375-73-5	< 2.0 (HI Calc)	--	5.0E-01	2.1E+02	2.1E+02	5.0E-01	--	--	--	--	5.0E+04	--	--	5.0E-01	Aquatic Habitat
PFAS: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	< 0.01 (HI Calc)	--	3.0E-03	1.4E+01	1.4E+01	--	--	--	--	--	5.0E+04	--	--	< 0.01 (HI Calc)	MCL
PFAS: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	4.0E-03	1.0E-03	2.0E-03	1.7E-02	1.7E-02	7.0E-05	--	--	--	--	5.0E+04	--	--	7.0E-05	Aquatic Habitat
PFAS: Hexafluoropropylene oxide dimer acid (HFPO-DA)	13252-13-6	< 0.01 (HI Calc)	--	1.5E-02	--	--	--	--	--	--	--	5.0E+04	--	--	< 0.01 (HI Calc)	MCL
Phenol	108-95-2	--	--	6.0E+02	1.3E+03	3.0E+01	3.0E+05	--	--	--	--	5.0E+04	3.0E+02	7.9E+04	3.0E+01	Aquatic Habitat
Polychlorinated biphenyls (PCBs)	1336-36-3	5.0E-01	7.9E-03	--	1.4E-02	3.0E-02	1.9E-05	2.9E-01	--	1.3E+00	--	3.5E+02	--	--	1.9E-05	Aquatic Habitat
Selenium	7782-49-2	5.0E+01	--	3.0E+01	5.0E+00	5.0E-01	4.2E+03	--	--	--	--	5.0E+04	--	--	5.0E-01	Aquatic Habitat
Silver	7440-22-4	1.0E+02	--	9.4E+01	3.4E+00	7.0E-01	--	--	--	--	--	5.0E+04	1.0E+02	--	7.0E-01	Aquatic Habitat
Styrene	100-42-5	1.0E+02	5.0E-01	1.1E+03	--	--	--	--	8.3E+03	--	3.5E+04	5.0E+04	1.0E+01	1.1E+02	1.0E+01	Odor/Nuis
tert-Butyl alcohol	75-65-0	--	1.2E+01	4.5E+03	1.8E+04	--	--	--	1.4E+07	--	5.9E+07	5.0E+04	--	--	1.2E+01	Tapwater

2025 (Rev 3) **Summary of Groundwater ESLs (µg/L)**

Chemicals	CAS No.	Direct Exposure Human Health Risk Levels (Table GW-1)			Aquatic Habitat Goal Levels (Table GW-2)			Groundwater Vapor Intrusion Human Health Risk Levels (Table GW-3)				Gross Contamination Levels (GW-4)	Odor Nuisance Levels (Table GW-5)		GW Tier 1 ESL	Basis
		MCL ¹	Tapwater Cancer Risk	Tapwater Non-cancer Hazard	Fresh Water Ecotox	Saltwater Ecotox	Seafood Ingestion Human Health	Residential		Commercial/Industrial			Drinking Water	Non-Drinking Water		
								Cancer Risk	Non-cancer Hazard	Cancer Risk	Non-cancer Hazard					
1,1,1,2-Tetrachloroethane	630-20-6	--	5.7E-01	4.8E+02	9.3E+02	--	--	3.7E+00	--	1.6E+01	--	5.0E+04	--	--	5.7E-01	Tapwater
1,1,2,2-Tetrachloroethane	79-34-5	1.0E+00	7.6E-02	3.6E+02	4.2E+02	9.0E+02	2.3E+00	3.2E+00	--	1.4E+01	--	5.0E+04	5.0E+02	5.0E+03	1.0E+00	MCL
Tetrachloroethene	127-18-4	5.0E+00	6.0E-02	4.1E+01	1.2E+02	2.3E+02	2.0E+00	6.4E-01	5.8E+01	2.8E+00	2.4E+02	5.0E+04	1.7E+02	3.0E+03	6.4E-01	Vapor Intrusion
Thallium	7440-28-0	2.0E+00	--	1.0E-01	2.0E+01	2.1E+02	4.7E-01	--	--	--	--	5.0E+04	--	--	4.7E-01	Aquatic Habitat
Toluene	108-88-3	1.5E+02	--	1.5E+02	1.3E+02	2.5E+03	5.2E+02	--	1.6E+03	--	6.8E+03	5.0E+04	4.0E+01	4.0E+02	4.0E+01	Odor/Nuis
Toxaphene	8001-35-2	3.0E+00	3.0E-02	1.8E+00	2.0E-04	2.0E-04	2.1E-04	--	--	--	--	2.8E+02	1.4E+02	1.4E+02	2.0E-04	Aquatic Habitat
1,2,4-Trichlorobenzene	120-82-1	5.0E+00	1.2E+00	4.0E+00	2.5E+01	6.5E+01	7.6E-02	--	3.6E+01	--	1.5E+02	2.5E+04	3.0E+03	3.0E+04	7.6E-02	Aquatic Habitat
1,1,1-Trichloroethane	71-55-6	2.0E+02	--	1.0E+03	6.2E+01	3.1E+03	2.0E+05	--	1.5E+03	--	6.2E+03	5.0E+04	9.7E+02	5.0E+05	6.2E+01	Aquatic Habitat
1,1,2-Trichloroethane	79-00-5	5.0E+00	2.8E-01	4.1E-01	4.7E+03	--	8.9E+00	5.2E+00	6.2E+00	2.3E+01	2.6E+01	5.0E+04	--	--	5.0E+00	MCL
Trichloroethene	79-01-6	5.0E+00	4.9E-01	2.8E+00	3.6E+02	2.0E+02	7.0E+00	1.2E+00	5.2E+00	7.4E+00	2.2E+01	5.0E+04	3.1E+02	1.0E+05	1.2E+00	Vapor Intrusion
2,4,5-Trichlorophenol	95-95-4	--	--	1.2E+03	6.3E+01	1.0E+00	6.0E+02	--	--	--	--	5.0E+04	2.0E+02	2.0E+03	1.0E+00	Aquatic Habitat
2,4,6-Trichlorophenol	88-06-2	--	6.5E-01	1.2E+01	4.9E+02	1.0E+00	2.9E-01	--	--	--	--	5.0E+04	1.0E+02	1.0E+03	2.9E-01	Aquatic Habitat
1,2,3-Trichloropropane	96-18-4	5.0E-03	7.0E-04	6.2E-01	2.7E+03	6.0E-03	--	--	2.2E+01	--	9.4E+01	5.0E+04	--	--	5.0E-03	MCL
Vanadium	7440-62-2	--	--	5.0E+01	1.9E+01	--	--	--	--	--	--	5.0E+04	--	--	1.9E+01	Aquatic Habitat
Vinyl chloride	75-01-4	5.0E-01	9.7E-03	3.7E+01	7.8E+02	--	1.6E+00	8.3E-03	4.7E+01	1.4E-01	2.0E+02	5.0E+04	3.4E+03	3.4E+04	8.3E-03	Vapor Intrusion
Xylenes	1330-20-7	1.8E+03	--	1.9E+02	--	1.0E+02	--	--	3.8E+02	--	1.6E+03	5.0E+04	2.0E+01	5.3E+03	2.0E+01	Odor/Nuis
Zinc	7440-66-6	5.0E+03	--	6.0E+03	1.2E+02	2.0E+01	2.6E+04	--	--	--	--	5.0E+04	5.0E+03	--	2.0E+01	Aquatic Habitat

Notes:

- 1 - The lowest of Primary and Secondary Maximum Contaminant Levels (MCL) from USEPA and California.
- Petroleum Motor Oil is composed of large carbon chain compounds (C24-C36+) having negligible solubility. Detections in water samples typically are Petroleum HOPs, nonaqueous phase liquid (NAPL or free product), contaminated sediment entrained in the water sample, or naturally occurring compounds. Review the chromatograms to help determine the nature of the compounds being detected. See User's Guide Chapter 4.
- PFAS Mixture MCL Hazard Index (HI) Calculation (Calc): The HI should be equal to or less than 1 for mixtures of two or more of the following PFAS: PFNA, PFHxS, HFPO-DA, and PFBS. See ESL User's Guide Section 3.6.6 for more information on the PFAS MCL HI Calc.

Abbreviations:

- Canc - Cancer
- Contam - Contamination
- DDD - Dichlorodiphenyldichloroethane
- DDE - Dichlorodiphenyldichloroethene
- DDT - Dichlorodiphenyltrichloroethane
- HOPs - Hydrocarbon Oxidation Products (biodegradation metabolites and photo-oxidation products of petroleum hydrocarbons). See User's Guide Chapter 4 for further information.
- MCL - Maximum Contaminant Level
- NC - Noncancer
- Odor/Nuis - Odor Nuisance
- PAH - Polycyclic aromatic hydrocarbon
- PFAS - Per- and polyfluoroalkyl substances
- TCDD - Tetrachlorodibenzodioxin

ATTACHMENT II

California Division of Drinking Water Maximum Contaminant Levels

**Maximum Contaminant Levels
California Division of Drinking Water**

ANALYTE	SYMBOL	MCL	UNITS	SMCL	UNITS	RECOMMEND	UPPER	SHORT	MRDL	UNITS	US EPA	UNITS	GROUP	TABLE	CODE	MAJOR ORIGINS	HEALTH EFFECTS
ALUMINUM	Al	1	mg/L								0.05	mg/L	Inorganic Chem	64431-A	Title 22	Erosion of natural deposits; residue from some surface water treatment processes	Some people who drink water containing aluminum in excess of the MCL over many years may experience short-term gastrointestinal tract effects.
ANTIMONY	Sb	0.006	mg/L								0.006	mg/L	Inorganic Chem	64431-A	Title 22	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder	Some people who drink water containing antimony in excess of the MCL over many years may experience increases in blood cholesterol and decreases in blood sugar.
ARSENIC	As	0.010	mg/L								0.01	mg/L	Inorganic Chem	64431-A	Title 22	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes	Some people who drink water containing arsenic in excess of the MCL over many years may experience skin damage or circulatory system problems, and may have an increased risk of getting cancer.
ASBESTOS		7	MFL*								7	MFL	Inorganic Chem	64431-A	Title 22	Internal corrosion of asbestos cement water mains; erosion of natural deposits	Some people who drink water containing asbestos in excess of the MCL over many years may have an increased risk of developing benign intestinal polyps
BARIUM	Ba	1.0	mg/L								2	mg/L	Inorganic Chem	64431-A	Title 22	Discharges of oil drilling wastes and from metal refineries; erosion of natural deposits	Some people who drink water containing barium in excess of the MCL over many years may experience an increase in blood pressure.
BERYLLIUM	Be	0.004	mg/L								0.004	mg/L	Inorganic Chem	64431-A	Title 22	Discharge from metal refineries, coal-burning factories, and electrical, aerospace, and defense industries	Some people who drink water containing beryllium in excess of the MCL over many years may develop intestinal lesions.
CADMIUM	Cd	0.005	mg/L								0.005	mg/L	Inorganic Chem	64431-A	Title 22	Internal corrosion of galvanized pipes; erosion of natural deposits; discharge from electroplating and industrial chemical factories, and metal refineries; runoff from waste batteries and paints	Some people who drink water containing cadmium in excess of the MCL over many years may experience kidney damage.
CHROMIUM	Cr	0.05	mg/L								0.1	mg/L	Inorganic Chem	64431-A	Title 22	Discharge from steel and pulp mills and chrome plating; erosion of natural deposits	Some people who use water containing chromium in excess of the MCL over many years may experience allergic dermatitis.
CYANIDE		0.15	mg/L								0.2	mg/L	Inorganic Chem	64431-A	Title 22	Discharge from steel/metal, plastic and fertilizer factories	Some people who drink water containing cyanide in excess of the MCL over many years may experience nerve damage or thyroid problems.
FLUORIDE		2.0	mg/L								2	mg/L	Inorganic Chem	64431-A	Title 22	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories	Some people who drink water containing fluoride in excess of the federal MCL of 4 mg/L over many years may get bone disease, including pain and tenderness of the bones. Children who drink water containing fluoride in excess of the state MCL of 2 mg/L may get mottled teeth.
MERCURY	Hg	0.002	mg/L								0.002	mg/L	Inorganic Chem	64431-A	Title 22	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills and cropland	Some people who drink water containing mercury in excess of the MCL over many years may experience mental disturbances, or impaired physical coordination, speech and hearing.
NICKEL	Ni	0.1	mg/L										Inorganic Chem	64431-A	Title 22	Erosion of natural deposits; discharge from metal factories	Some people who drink water containing nickel in excess of the MCL over many years may experience liver and heart effects.
NITRATE (as NO3)	NO3	45	mg/L								10	mg/L	Inorganic Chem	64431-A	Title 22	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits	Infants below the age of six months who drink water containing nitrate in excess of the MCL may quickly become seriously ill and, if untreated, may die because high nitrate levels can interfere with the capacity of the infant's blood to carry oxygen. Symptoms include shortness of breath and blueness of the skin. High nitrate levels may also affect the oxygen-carrying ability of the blood of pregnant women.
NITRITE+NITRATE (sum as N)		10	mg/L								10	mg/L	Inorganic Chem	64431-A	Title 22		
NITRITE (as N)	NO2	1	mg/L								1	mg/L	Inorganic Chem	64431-A	Title 22	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits	Infants below the age of six months who drink water containing nitrite in excess of the MCL may become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blueness of the skin.
PERCHLORATE		0.006	mg/L										Inorganic Chem	64431-A	Title 22	Perchlorate is an inorganic chemical used in solid rocket propellant, fireworks, explosives, flares, matches, and a variety of industries. It usually gets into drinking water as a result of environmental contamination from historic aerospace or other industrial operations that used or use, store, or dispose of perchlorate and its salts.	Perchlorate has been shown to interfere with uptake of iodide by the thyroid gland, and to thereby reduce the production of thyroid hormones, leading to adverse effects associated with inadequate hormone levels. Thyroid hormones are needed for normal prenatal growth and development of the fetus, as well as for normal growth and development in the infant and child. In adults, thyroid hormones are needed for normal metabolism and mental function.
SELENIUM	Se	0.05	mg/L								0.05	mg/L	Inorganic Chem	64431-A	Title 22	Discharge from petroleum, glass, and metal refineries; erosion of natural deposits; discharge from mines and chemical manufacturers; runoff from livestock lots (feed additive)	Selenium is an essential nutrient. However, some people who drink water containing selenium in excess of the MCL over many years may experience hair or fingernail losses, numbness in fingers or toes, or circulation system problems.
THALLIUM	Tl	0.002	mg/L								0.002	mg/L	Inorganic Chem	64431-A	Title 22	Leaching from ore-processing sites; discharge from electronics, glass, and drug factories	Some people who drink water containing thallium in excess of the MCL over many years may experience hair loss, changes in their blood, or kidney, intestinal, or liver problems.
COLOR				15	units									64449-A	Title 22	Naturally-occurring organic materials	
COPPER	Cu			1.0	mg/L						1.3	mg/L	Inorganic Chem	64449-A	Title 22	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives	Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short amount of time may experience gastrointestinal distress. Some people who drink water containing copper in excess of the action level over many years may suffer liver or kidney damage. People with Wilson's Disease should consult their personal doctor.
CORROSIVITY				Non-corrosive										64449-A	Title 22		
Foaming agents	MBAS			0.5	mg/L									64449-A	Title 22	Municipal and industrial waste discharges	
IRON	Fe			0.3	mg/L								Inorganic Chem	64449-A	Title 22	Leaching from natural deposits; industrial wastes	
MANGANESE	Mn			0.05	mg/L								Inorganic Chem	64449-A	Title 22	Leaching from natural deposits	
Methyl-tert-butyl ether	MTBE			0.005	mg/L									64449-A	Title 22	Leaking underground storage tanks; discharge from petroleum and chemical factories;	Some people who use water containing methyl-tert-butyl ether in excess of the MCL over many years may have an increased risk of getting cancer.
ODOR-Threshold				3	units									64449-A	Title 22	Naturally-occurring organic materials	
SILVER	Ag			0.1	mg/L								Inorganic Chem	64449-A	Title 22	Industrial discharges	
THIOBENCARB				0.001	mg/L									64449-A	Title 22	Runoff/leaching from herbicide used on rice	Some people who use water containing thiobencarb in excess of the MCL over many years may experience body weight and blood effects.
TURBIDITY				5	mg/L									64449-A	Title 22	Soil runoff	
ZINC	Zn			5.0	mg/L								Inorganic Chem	64449-A	Title 22	Runoff/leaching from natural deposits; industrial wastes	
CHLORIDE						250	500	600					Inorganic Chem	64449-B	Title 22	Runoff/leaching from natural deposits; seawater influence	
ELECTRICAL CONDUCTANCE					µmhos	900	1600	2200						64449-B	Title 22	Substances that form ions when in water; seawater influence	
SULFATE					mg/L	250	500	600					Inorganic Chem	64449-B	Title 22	Runoff/leaching from natural deposits; industrial wastes	
Total Dissolved Solids	TDS				mg/L	500	1000	1500						64449-B	Title 22	Runoff/leaching from natural deposits	
Acenaphthene													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Acrolein	none												Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Acrylonitrile	none												Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Benzene	0.001	mg/L									0.005	mg/L	Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Benzidine													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Carbon tetrachloride	0.0005	mg/L									0.005	mg/L	Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Chlorobenzene											100.0	mg/L	Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
1,2,4-trichlorobenzene	0.005	mg/L									0.07	mg/L	Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Hexachlorobenzene	0.001	mg/L									0.001	mg/L	Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
1,2-dichloroethane	0.0005	mg/L									0.005	mg/L	Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
1,1,1-trichloroethane	0.200	mg/L									0.2	mg/L	Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Hexachloroethane											3.0	mg/L	Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
1,1-dichloroethane	0.005	mg/L											Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
1,1,1-trichloroethane	0.005	mg/L									0.005	mg/L	Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
1,1,2,2-tetrachloroethane	0.001	mg/L											Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Chloroethane													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Bis(2-chloroethyl) ether													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
2-chloroethyl vinyl ethers													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
2-chloronaphthalene													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
2,4,6-trichlorophenol	none												Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Parachlorometa cresol													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Chloroform													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
2-chlorophenol	none												Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
1,2-dichlorobenzene	0.6	mg/L									0.6	mg/L	Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
1,3-dichlorobenzene													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
1,4-dichlorobenzene	0.005	mg/L									0.075	mg/L	Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
3,3-dichlorobenzidine													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
1,1-dichloroethylene	0.006	mg/L									0.007	mg/L	Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
1,2-trans-dichloroethylene	0.01	mg/L									0.1	mg/L	VOC	Part 423 Appendix A	40CFR401.15		
2,4-dichlorophenol	none												Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
1,2-dichloropropane	0.005	mg/L									0.005	mg/L	Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
1,3-dichloropropylene													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
2,4-dimethylphenol	none												Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
2,4-dinitrotoluene	none												Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
2,6-dinitrotoluene	none												Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
1,2-diphenylhydrazine													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Ethylbenzene	0.3	mg/L									0.7	mg/L	Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Fluoranthene													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
4-chlorophenyl phenyl ether													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
4-bromophenyl phenyl ether													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		

ANALYTE	SYMBOL	MCL	UNITS	SMCL	UNITS	RECOMMEND	UPPER	SHORT	MRDL	UNITS	US EPA	UNITS	GROUP	TABLE	CODE	MAJOR ORIGINS	HEALTH EFFECTS
Bis(2-chloroisopropyl) ether													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Bis(2-chloroethoxy) methane													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Methylene chloride		0.005	mg/L								0.005	mg/L	Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Methyl chloride													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Methyl bromide		none											Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Bromoform		0.080	mg/L										Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Dichlorobromomethane													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Chlorodibromomethane	TTHM	0.08	mg/L										Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Hexachlorobutadiene		none											Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Hexachlorocyclopentadiene		0.05	mg/L								0.05	mg/L	Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Isophorone													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Naphthalene		none											Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Nitrobenzene											2.0	mg/L	Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
2-nitrophenol													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
4-nitrophenol													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
2,4-dinitrophenol													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
4,6-dinitro-o-cresol													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
N-Nitrosodimethylamine	NDMA										1.4	µg/L	Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
N-nitrosodiphenylamine													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
N-nitrosodi-n-propylamine													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Pentachlorophenol		0.001	mg/L								0.001	mg/L	Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Phenol		none											Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Bis(2-ethylhexyl) phthalate													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Butyl benzyl phthalate	PAE	none											Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Di-n-Butyl Phthalate													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Di-n-octyl phthalate													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Diethyl Phthalate	PAE	none											Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Dimethyl phthalate													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Benzo(a) anthracene													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Benzo(a) pyrene	PAH	0.0002	mg/L								0.0002	mg/L	Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Benzo(b) fluoranthene	PAH	none											Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Benzo(k) fluoranthene													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Chrysene													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Acenaphthylene		none											Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Anthracene													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Benzo(ghi) perylene													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Fluorene													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Phenanthrene													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Dibenzo(h) anthracene													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Indeno (1,2,3-cd) pyrene													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Pyrene													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Tetrachloroethylene	PCE	0.005	mg/L								0.005	mg/L	Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Toluene		0.15	mg/L								1	mg/L	Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Trichloroethylene		0.005	mg/L										Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Vinyl chloride		0.0005	mg/L								0.002	mg/L	Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Aldrin		none											Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Dieldrin		none											Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Chlordane		0.0001	mg/L								0.002	mg/L	Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
4,4-DDT													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
4,4-DDE													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
4,4-DDD													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Alpha-endosulfan													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Beta-endosulfan													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Endosulfan sulfate													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Endrin		0.002	mg/L								0.002	mg/L	Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Endrin aldehyde													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Heptachlor		0.00001	mg/L								0.0004	mg/L	Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Heptachlor epoxide		0.00001	mg/L								0.0002	mg/L	Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Alpha-BHC													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Beta-BHC													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Gamma-BHC													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Delta-BHC													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
PCB-1242 (Arochlor 1242)													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
PCB-1254 (Arochlor 1254)													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
PCB-1221 (Arochlor 1221)													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
PCB-1232 (Arochlor 1232)													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
PCB-1248 (Arochlor 1248)													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
PCB-1260 (Arochlor 1260)													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
PCB-1016 (Arochlor 1016)													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Toxaphene		0.003	mg/L								0.003	mg/L	Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Antimony	Sb	0.006	mg/L								0.006	mg/L	Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Arsenic	As	0.010	mg/L								0.01	mg/L	Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Asbestos		7	MFL*								7	MFL	Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Beryllium	Be	0.004	mg/L								0.004	mg/L	Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Cadmium	Cd	0.005	mg/L								0.005	mg/L	Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Chromium	Cr	0.05	mg/L								0.1	mg/L	Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Copper	Cu			1.0	mg/L						1.3	mg/L	Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Cyanide, Total		0.15	mg/L								0.2	mg/L	Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Lead	Pb	0.015	mg/L								0.015	mg/L	Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Mercury	Hg	0.002	mg/L								0.002	mg/L	Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Nickel	Ni	0.1	mg/L										Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Selenium	Se	0.05	mg/L								0.05	mg/L	Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Silver	Ag			0.1	mg/L								Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Thallium	Tl	0.002	mg/L								0.002	mg/L	Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Zinc	Zn			5.0	mg/L								Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
2,3,7,8-TCDD													Priority Toxic Pollutant	Part 423 Appendix A	40CFR401.15		
Benzene		0.001	mg/L								0.005	mg/L	VOC	64444-A	Title 22	Discharge from plastics, dyes and nylon factories; leaching from gas storage tanks and landfills	Some people who use water containing benzene in excess of the MCL over many years may experience anemia or a decrease in blood platelets, and may have an increased risk of getting cancer.
Carbon Tetrachloride		0.0005	mg/L								0.005	mg/L	VOC	64444-A	Title 22	Discharge from chemical plants and other industrial activities	Some people who use water containing carbon tetrachloride in excess of the MCL over many years may experience liver problems and may have an increased risk of getting cancer.
1,2-Dichlorobenzene		0.6	mg/L								0.6	mg/L	VOC	64444-A	Title 22	Discharge from industrial chemical factories	Some people who drink water containing 1,2-dichlorobenzene in excess of the MCL over many years may experience liver, kidney, or circulatory system problems.
1,4-dichlorobenzene		0.005	mg/L								0.075	mg/L	VOC	64444-A	Title 22	Discharge from industrial chemical factories	Some people who use water containing 1,4-dichlorobenzene in excess of the MCL over many years may experience anemia, liver, kidney, or spleen damage, or changes in their blood.
1,1-Dichloroethane		0.005	mg/L										VOC	64444-A	Title 22	Extraction and degreasing solvent; used in manufacture of pharmaceuticals, stone, clay and glass products; fumigant	Some people who use water containing 1,1-dichloroethane in excess of the MCL over many years may experience nervous system or respiratory problems.
1,2-Dichloroethane		0.0005	mg/L								0.005	mg/L	VOC	64444-A	Title 22	Discharge from industrial chemical factories	Some people who use water containing 1,2-dichloroethane in excess of the MCL over many years may have an increased risk of getting cancer.
1,1-Dichloroethylene		0.006	mg/L								0.007	mg/L	VOC	64444-A	Title 22	Discharge from industrial chemical factories	Some people who use water containing 1,1-dichloroethylene in excess of the MCL over many years may experience liver problems.
cis-1,2-Dichloroethylene		0.006	mg/L								0.07	mg/L	VOC	64444-A	Title 22	Discharge from industrial chemical factories; major biodegradation byproduct of TCE and PCE groundwater contamination	Some people who use water containing cis-1,2-dichloroethylene in excess of the MCL over many years may experience liver problems.

ANALYTE	SYMBOL	MCL	UNITS	SMCL	UNITS	RECOMMEND	UPPER	SHORT	MRDL	UNITS	US EPA	UNITS	GROUP	TABLE	CODE	MAJOR ORIGINS	HEALTH EFFECTS
trans-1,2-Dichloroethylene		0.01	mg/L								0.1	mg/L	VOC	64444-A	Title 22	Discharge from industrial chemical factories; minor biodegradation byproduct of TCE and PCE groundwater contamination	Some people who drink water containing trans-1,2-dichloroethylene in excess of the MCL over many years may experience liver problems.
Dichloromethane (Methylene chloride)		0.005	mg/L								0.005	mg/L	VOC	64444-A	Title 22	Discharge from pharmaceutical and chemical factories; insecticide	Some people who drink water containing dichloromethane in excess of the MCL over many years may experience liver problems and may have an increased risk of getting cancer.
1,2-Dichloropropane		0.005	mg/L								0.005	mg/L	VOC	64444-A	Title 22	Discharge from industrial chemical factories; primary component of some fumigants	Some people who use water containing 1,2-dichloropropane in excess of the MCL over many years may have an increased risk of getting cancer.
1,3-Dichloropropene		0.0005	mg/L										VOC	64444-A	Title 22	Runoff/leaching from nematocides used on croplands	Some people who use water containing 1,3-dichloropropene in excess of the MCL over many years may have an increased risk of getting cancer.
Ethylbenzene		0.3	mg/L								0.7	mg/L	VOC	64444-A	Title 22	Discharge from petroleum refineries; industrial chemical factories	Some people who use water containing ethylbenzene in excess of the MCL over many years may experience liver or kidney problems.
Methyl-tert-butyl ether	MTBE	0.013	mg/L										VOC	64444-A	Title 22	Leaking underground storage tanks; discharge from petroleum and chemical factories	Some people who use water containing methyl-tert-butyl ether in excess of the MCL over many years may have an increased risk of getting cancer.
Monochlorobenzene		0.07	mg/L								0.1	mg/L	VOC	64444-A	Title 22	Discharge from industrial and agricultural chemical factories and drycleaning facilities	Some people who use water containing monochlorobenzene in excess of the MCL over many years may experience liver or kidney problems.
Styrene		0.1	mg/L								0.1	mg/L	VOC	64444-A	Title 22	Discharge from rubber and plastic factories; leaching from landfills	Some people who drink water containing styrene in excess of the MCL over many years may experience liver, kidney, or circulatory system problems.
1,1,2,2-Tetrachloroethane		0.001	mg/L										VOC	64444-A	Title 22	Discharge from industrial and agricultural chemical factories; solvent used in production of TCE, pesticides, varnish and lacquers	Some people who drinking water containing 1,1,2,2-tetrachloroethane in excess of the MCL over many years may experience liver or nervous system problems.
Tetrachloroethylene	PCE	0.005	mg/L								0.005	mg/L	VOC	64444-A	Title 22	Discharge from factories, dry cleaners, and auto shops (metal degreaser)	Some people who use water containing tetrachloroethylene in excess of the MCL over many years may experience liver problems, and may have an increased risk of getting cancer.
Toluene		0.15	mg/L								1	mg/L	VOC	64444-A	Title 22	Discharge from petroleum and chemical factories; underground gas tank leaks	Some people who use water containing toluene in excess of the MCL over many years may experience nervous system, kidney, or liver problems.
1,2,4-Trichlorobenzene		0.005	mg/L								0.07	mg/L	VOC	64444-A	Title 22	Discharge from textile-finishing factories	Some people who use water containing 1,2,4-trichlorobenzene in excess of the MCL over many years may experience adrenal gland changes.
1,1,1-Trichloroethane		0.200	mg/L								0.2	mg/L	VOC	64444-A	Title 22	Discharge from metal degreasing sites and other factories; manufacture of food wrappings	Some people who use water containing 1,1,1-trichloroethane in excess of the MCL over many years may experience liver, nervous system, or circulatory system problems.
1,1,2-Trichloroethane		0.005	mg/L								0.005	mg/L	VOC	64444-A	Title 22	Discharge from industrial chemical factories	Some people who use water containing 1,1,2-trichloroethane in excess of the MCL over many years may experience liver, kidney, or immune system problems.
Trichloroethylene	TCE	0.005	mg/L								0.005	mg/L	VOC	64444-A	Title 22	Discharge from metal degreasing sites and other factories	Some people who use water containing trichloroethylene in excess of the MCL over many years may experience liver problems and may have an increased risk of getting cancer.
Trichlorofluoromethane		0.15	mg/L										VOC	64444-A	Title 22	Discharge from industrial factories; degreasing solvent; propellant and refrigerant	Some people who use water containing trichlorofluoromethane in excess of the MCL over many years may experience liver problems.
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.2	mg/L										VOC	64444-A	Title 22	Discharge from metal degreasing sites and other factories; drycleaning solvent; refrigerant	Some people who use water containing 1,1,2-trichloro-1,2,2-trifluoroethane in excess of the MCL over many years may experience liver problems.
Vinyl Chloride		0.0005	mg/L								0.002	mg/L	VOC	64444-A	Title 22	Leaching from PVC piping; discharge from plastics factories; biodegradation byproduct of TCE and PCE groundwater contamination	Some people who use water containing vinyl chloride in excess of the MCL over many years may have an increased risk of getting cancer.
Xylenes		1.750	mg/L								10	mg/L	VOC	64444-A	Title 22	Discharge from petroleum and chemical factories; fuel solvent	Some people who use water containing xylenes in excess of the MCL over many years may experience nervous system damage.
Alachlor		0.002	mg/L								0.002	mg/L	Non-Volatile SOCs	64444-A	Title 22	Runoff from herbicide used on row crops	Some people who use water containing alachlor in excess of the MCL over many years may experience eye, liver, kidney, or spleen problems, or experience anemia, and may have an increased risk of getting cancer.
Atrazine		0.001	mg/L								0.003	mg/L	Non-Volatile SOCs	64444-A	Title 22	Runoff from herbicide used on row crops and along railroad and highway right-of-ways	Some people who use water containing atrazine in excess of the MCL over many years may experience cardiovascular system problems or reproductive difficulties.
Bentazon		0.018	mg/L										Non-Volatile SOCs	64444-A	Title 22	Runoff/leaching from herbicide used on beans, peppers, corn, peanuts, rice, and ornamental grasses	Some people who drink water containing bentazon in excess of the MCL over many years may experience prostate and gastrointestinal effects.
Benzo(a)pyrene	PAH	0.0002	mg/L								0.0002	mg/L	Non-Volatile SOCs	64444-A	Title 22	Leaching from linings of water storage tanks and distribution mains	Some people who use water containing benzo(a)pyrene in excess of the MCL over many years may experience reproductive difficulties and may have an increased risk of getting cancer.
Carbofuran		0.018	mg/L								0.04	mg/L	Non-Volatile SOCs	64444-A	Title 22	Leaching of soil fumigant used on rice and alfalfa, and grape vineyards	Some people who use water containing carbofuran in excess of the MCL over many years may experience problems with their blood, or nervous or reproductive system problems.
Chlordane		0.0001	mg/L								0.002	mg/L	Non-Volatile SOCs	64444-A	Title 22	Residue of banned insecticide	Some people who use water containing chlordane in excess of the MCL over many years may experience liver or nervous system problems, and may have an increased risk of getting cancer.
2,4-D		0.07	mg/L								0.07	mg/L	Non-Volatile SOCs	64444-A	Title 22	Runoff from herbicide used on row crops, range land, lawns, and aquatic weeds	Some people who use water containing the weed killer 2,4-D in excess of the MCL over many years may experience kidney, liver, or adrenal gland problems.
Dalapon		0.2	mg/L								0.2	mg/L	Non-Volatile SOCs	64444-A	Title 22	Runoff from herbicide used on right-of-ways, and crops and landscape maintenance	Some people who drink water containing dalapon in excess of the MCL over many years may experience minor kidney changes.
Dibromochloropropane	DBCP	0.0002	mg/L								0.0002	mg/L	Non-Volatile SOCs	64444-A	Title 22	Banned nematocide that may still be present in soils due to runoff/leaching from former use on soybeans, cotton, vineyards, tomatoes, and tree fruit	Some people who use water containing DBCP in excess of the MCL over many years may experience reproductive difficulties and may have an increased risk of getting cancer.
Di(2-ethylhexyl)adipate		0.4	mg/L								0.4	mg/L	Non-Volatile SOCs	64444-A	Title 22	Discharge from chemical factories	Some people who drink water containing di(2-ethylhexyl) adipate in excess of the MCL over many years may experience weight loss, liver enlargement, or possible reproductive difficulties.
Di(2-ethylhexyl)phthalate		0.004	mg/L								0.006	mg/L	Non-Volatile SOCs	64444-A	Title 22	Discharge from rubber and chemical factories; inert ingredient in pesticides	Some people who use water containing di(2-ethylhexyl) phthalate well in excess of the MCL over many years may experience liver problems or reproductive difficulties, and may have an increased risk of getting cancer.
Dinoseb		0.007	mg/L								0.007	mg/L	Non-Volatile SOCs	64444-A	Title 22	Runoff from herbicide used on soybeans, vegetables, and fruits	Some people who drink water containing dinoseb in excess of the MCL over many years may experience reproductive difficulties.
Dioxin (2,3,7,8-TCDD)		3x10neg8	mg/L								3x10neg8	mg/L	Non-Volatile SOCs	64444-A	Title 22	Emissions from waste incineration and other combustion; discharge from chemical factories	Some people who use water containing dioxin in excess of the MCL over many years may experience reproductive difficulties and may have an increased risk of getting cancer.
Diquat		0.02	mg/L										Non-Volatile SOCs	64444-A	Title 22	Runoff from herbicide use for terrestrial and aquatic weeds	Some people who drink water containing diquat in excess of the MCL over many years may get cataracts.
Endothal		0.1	mg/L								0.1	mg/L	Non-Volatile SOCs	64444-A	Title 22	Runoff from herbicide use for terrestrial and aquatic weeds; defoliant	Some people who drink water containing endothal in excess of the MCL over many years may experience stomach or intestinal problems.
Endrin		0.002	mg/L								0.002	mg/L	Non-Volatile SOCs	64444-A	Title 22	Residue of banned insecticide and rodenticide	Some people who drink water containing endrin in excess of the MCL over many years may experience liver problems.
Ethylene Dibromide (Dibromoethane)	EDB	0.00005	mg/L								0.00005	mg/L	Non-Volatile SOCs	64444-A	Title 22	Discharge from petroleum refineries; underground gas tank leaks; banned nematocide that may still be present in soils due to runoff and leaching from grain and fruit crops	Some people who use water containing ethylene dibromide in excess of the MCL over many years may experience liver, stomach, reproductive system, or kidney problems, and may have an increased risk of getting cancer.
Glyphosate		0.7	mg/L								0.7	mg/L	Non-Volatile SOCs	64444-A	Title 22	Runoff from herbicide use	Some people who drink water containing glyphosate in excess of the MCL over many years may experience kidney problems or reproductive difficulties.
Heptachlor		0.00001	mg/L								0.0004	mg/L	Non-Volatile SOCs	64444-A	Title 22	Residue of banned insecticide	Some people who use water containing heptachlor in excess of the MCL over many years may experience liver damage and may have an increased risk of getting cancer.
Heptachlor Epoxide		0.00001	mg/L								0.0002	mg/L	Non-Volatile SOCs	64444-A	Title 22	Breakdown of heptachlor	Some people who use water containing heptachlor epoxide in excess of the MCL over many years may experience liver damage, and may have an increased risk of getting cancer.
Hexachlorobenzene	HCB	0.001	mg/L								0.001	mg/L	Non-Volatile SOCs	64444-A	Title 22	Discharge from metal refineries and agricultural chemical factories; byproduct of chlorination reactions in wastewater	Some people who drink water containing hexachlorobenzene in excess of the MCL over many years may experience liver or kidney problems, or adverse reproductive effects, and may have an increased risk of getting cancer.
Hexachlorocyclopentadiene		0.05	mg/L								0.05	mg/L	Non-Volatile SOCs	64444-A	Title 22	Discharge from chemical factories	Some people who use water containing hexachlorocyclopentadiene in excess of the MCL over many years may experience kidney or stomach problems.
Lindane		0.0002	mg/L								0.0002	mg/L	Non-Volatile SOCs	64444-A	Title 22	Runoff/leaching from insecticide used on cattle, lumber, and gardens	Some people who drink water containing lindane in excess of the MCL over many years may experience kidney or liver problems.
Methoxychlor		0.03	mg/L								0.04	mg/L	Non-Volatile SOCs	64444-A	Title 22	Runoff/leaching from insecticide used on fruits, vegetables, alfalfa, and livestock	Some people who drink water containing methoxychlor in excess of the MCL over many years may experience reproductive difficulties.
Molinate		0.02	mg/L										Non-Volatile SOCs	64444-A	Title 22	Runoff/leaching from herbicide used on rice	Some people who use water containing molinate in excess of the MCL over many years may experience reproductive effects.
Oxamyl (Vydate)		0.05	mg/L								0.2	mg/L	Non-Volatile SOCs	64444-A	Title 22	Runoff/leaching from insecticide used on field crops, fruits and ornamentals, especially apples, potatoes, and tomatoes	Some people who drink water containing oxamyl in excess of the MCL over many years may experience slight nervous system effects.
Pentachlorophenol		0.001	mg/L								0.001	mg/L	Non-Volatile SOCs	64444-A	Title 22	Discharge from wood preserving factories, cotton and other insecticidal/herbicidal uses	Some people who use water containing pentachlorophenol in excess of the MCL over many years may experience liver or kidney problems, and may have an increased risk of getting cancer.
Picloram		0.5	mg/L								0.5	mg/L	Non-Volatile SOCs	64444-A	Title 22	Herbicide runoff	Some people who drink water containing picloram in excess of the MCL over many years may experience liver problems.
Polychlorinated Biphenyls	PCBs	0.0005	mg/L								0.0005	mg/L	Non-Volatile SOCs	64444-A	Title 22	Runoff from landfills; discharge of waste chemicals	Some people who drink water containing PCBs in excess of the MCL over many years may experience changes in their skin, thymus gland problems, immune deficiencies, or reproductive or nervous system difficulties, and may have an increased risk of getting cancer.
Simazine		0.004	mg/L								0.004	mg/L	Non-Volatile SOCs	64444-A	Title 22	Herbicide runoff	Some people who use water containing simazine in excess of the MCL over many years may experience blood problems.
Thiobencarb		0.07	mg/L										Non-Volatile SOCs	64444-A	Title 22	Runoff/leaching from herbicide used on rice	Some people who use water containing thiobencarb in excess of the MCL over many years may experience body weight and blood effects.
Toxaphene		0.003	mg/L								0.003	mg/L	Non-Volatile SOCs	64444-A	Title 22	Runoff/leaching from insecticide used on cotton and cattle	Some people who use water containing toxaphene in excess of the MCL over many years may experience kidney, liver, or thyroid problems, and may have an increased risk of getting cancer.
1,2,3-Trichloropropane		0.000005	mg/L										Non-Volatile SOCs	64444-A	Title 22		
2,3,7,8-TCDD (Dioxin)		3x10neg8	mg/L								3x10neg8	mg/L	Non-Volatile SOCs	64444-A	Title 22	Emissions from waste incineration and other combustion; discharge from chemical factories	Some people who use water containing dioxin in excess of the MCL over many years may experience reproductive difficulties and may have an increased risk of getting cancer.
2,4,5-TP (Silvex)		0.05	mg/L								0.05	mg/L	Non-Volatile SOCs	64444-A	Title 22	Residue of banned herbicide	Some people who drink water containing Silvex in excess of the MCL over many years may experience liver problems.
combined Radium-226 & Radium-228		5	pCi/L								5	pCi/L	Radioactivity	64443-4	Title 22	Erosion of natural deposits	
Gross Alpha particle activity (including Radium-226 but excluding Radon & Uranium)		15	pCi/L								15	pCi/L	Radioactivity	64443-4	Title 22	Erosion of natural deposits	

ANALYTE	SYMBOL	MCL	UNITS	SMCL	UNITS	RECOMMEND	UPPER	SHORT	MRDL	UNITS	US EPA	UNITS	GROUP	TABLE	CODE	MAJOR ORIGINS	HEALTH EFFECTS	
Tritium		20,000	pCi/L								20,000	pCi/L	Radioactivity	64443-4	Title 22	Decay of natural and man-made deposits		
Strontium-90		8	pCi/L								8	pCi/L	Radioactivity / Inorganic	64443-4	Title 22	Decay of natural and man-made deposits		
Gross Beta particle activity		50	pCi/L								4	millirem/yr	Radioactivity	64443-4	Title 22	Decay of natural and man-made deposits		
Beta/Photon emitters		4	millirem/yr											64443	Title 22			
Uranium		20	pCi/L								30	µg/L	Radioactivity	64443-4	Title 22	Erosion of natural deposits		
Total Trihalomethanes	TTHM	0.080	mg/L								0.08	mg/L	Disinfection Byproducts	64533-A	Title 22	Byproduct of drinking water disinfection	Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience liver, kidney, or central nervous system problems, and may have an increased risk of getting cancer.	
Bromodichloromethane		0.080	mg/L										Disinfection Byproducts	64533-A	Title 22			
Bromoform		0.080	mg/L										Disinfection Byproducts	64533-A	Title 22			
Chloroform													Disinfection Byproducts	64533-A	Title 22			
Dibromochloromethane													Disinfection Byproducts	64533-A	Title 22			
Haloacetic Acids (five)	HAA5	0.060	mg/L								0.06	mg/L	Disinfection Byproducts	64533-A	Title 22	Byproduct of drinking water disinfection	Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.	
Monochloroacetic Acid													Disinfection Byproducts	64533-A	Title 22			
Dichloroacetic Acid													Disinfection Byproducts	64533-A	Title 22			
Trichloroacetic Acid													Disinfection Byproducts	64533-A	Title 22			
Monobromoacetic Acid													Disinfection Byproducts	64533-A	Title 22			
Dibromoacetic Acid													Disinfection Byproducts	64533-A	Title 22			
Bromate		0.010	mg/L								0.01	mg/L	Inorganic / Disinfection Byproducts	64533-A	Title 22	Byproduct of drinking water disinfection	Some people who drink water containing bromate in excess of the MCL over many years may have an increased risk of getting cancer.	
Chloramines	Cl2								4	mg/L			Inorganic / Disinfection Residuals	64533.5-A	Title 22	Drinking water disinfectant added for treatment	Some people who use water containing chloramines well in excess of the MRDL could experience irritating effects to their eyes and nose. Some people who drink water containing chloramines well in excess of the MRDL could experience stomach discomfort or anemia.	
Chlorine	Cl2								4	mg/L			Inorganic / Disinfection Residuals	64533.5-A	Title 22	Drinking water disinfectant added for treatment	Some people who use water containing chlorine well in excess of the MRDL could experience irritating effects to their eyes and nose. Some people who drink water containing chlorine well in excess of the MRDL could experience stomach discomfort.	
Chlorite		1.0	mg/L								1	mg/L	Inorganic / Disinfection Residuals	64533-A	Title 22	Byproduct of drinking water disinfection	Some infants and young children who drink water containing chlorite in excess of the MCL could experience nervous system effects. Similar effects may occur in fetuses of pregnant women who drink water containing chlorite in excess of the MCL. Some people may experience anemia.	
Chlorine dioxide	ClO2								0.8	mg/L			Inorganic / Disinfection Residuals	64533.5-A	Title 22	Drinking water disinfectant added for treatment	Some infants and young children who drink water containing chlorine dioxide in excess of the MRDL could experience nervous system effects. Similar effects may occur in fetuses of pregnant women who drink water containing chlorine dioxide in excess of the MRDL. Some people may experience anemia.	
Calcium	Ca	none	0-60	soft	60-120	moderate	120-180	hard	>180	very hard					888888	Title 22		
Hardness		none	0-60	soft	60-120	moderate	120-180	hard	>180	very hard					888888	Title 22	Indicates the presence of dissolved ions in water	
Magnesium	Mg	none	0-60	soft	60-120	moderate	120-180	hard	>180	very hard					888888	Title 22		
pH		6.5-8.5	SU												888888	Title 22		
Silica		none			mg/L	70									888888	Title 22		
Sodium	Na	none			mg/L	100									888888	Title 22	Water softeners can contribute to the level of sodium in water	
Ammonia		none											Inorganic Chem		888888	Title 22		
Boron	B	none			mg/L	1							Inorganic Chem		888888	Title 22		
Chlorate		none											Inorganic Chem		888888	Title 22		
Hexavalent Chromium		0.010	mg/L										Inorganic Chem		888888	Title 22		
Lead	Pb	0.015	mg/L								0.015	mg/L	Inorganic Chem		888888	Title 22	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits	Infants and children who drink water containing lead in excess of the action level may experience delays in their physical or mental development. Children may show slight deficits in attention span and learning abilities. Adults who drink this water over many years may develop kidney problems or high blood pressure.
Molybdenum	Mo	none											Inorganic Chem		888888	Title 22		
Vanadium	V	none											Inorganic Chem		888888	Title 22		
White Phosphorous		none											Inorganic Chem		888888	Title 22		
Acenaphthylene		none											Organic	999999	Title 22			
Acetate		none											Organic	999999	DWS			
Acetone		none											Organic	999999	DWS			
Acetophenone		none											Organic	999999	DWS			
Acifluorfen		none											Organic	999999	DWS			
Acrolein		none											Organic	999999	DWS			
Acrylamide	TT												Organic	999999	DWS	Added to water during sewage/wastewater treatment	Some people who drink water containing high levels of acrylamide over a long period of time may experience nervous system or blood problems, and may have an increased risk of getting cancer.	
Acrylonitrile		none											Organic	999999	DWS			
Aldicarb		none											Organic	999999	DWS			
Aldicarb Sulfone		none											Organic	999999	DWS			
Aldicarb Sulfoxide		none											Organic	999999	DWS			
Aldrin		none											Organic	999999	DWS			
Allyl alcohol		none											Organic	999999	DWS			
Ametryn		none											Organic	999999	DWS			
Ammonium Sulfamate		none											Organic	999999	DWS			
Anthracene	PAH	none											Organic	999999	DWS			
Baygon (Propoxur)		none											Organic	999999	DWS			
Benfen		none											Organic	999999	DWS			
Benzo(a)anthracene	PAH	none											Organic	999999	DWS			
Benzene Hexachloride (alpha, beta isomers)		none											Organic	999999	DWS			
Benzo(b)fluoranthene	PAH	none											Organic	999999	DWS			
Bolero (Thiobencarb)		none		0.07	mg/L								Organic	999999	DWS			
Bromacil		none											Organic	999999	DWS			
Bromobenzene		none											Organic	999999	DWS			
Bromochloromethane		none											Organic	999999	DWS			
Bromomethane (Methyl Bromide)		none											Organic	999999	DWS			
Butylbenzene		none											Organic	999999	DWS			
Butyl benzylphthalate	PAE	none											Organic	999999	DWS			
Butylate		none											Organic	999999	DWS			
Captan		none											Organic	999999	DWS			
Carbaryl (Sevin)		none											Organic	999999	DWS			
Carbon Disulfide		none											Organic	999999	DWS			
Chloral Hydrate (Trichloroacetaldehyde)		none											Organic	999999	DWS			
Chloramden		none											Organic	999999	DWS			
Chlorodibromomethane	TTHM	0.08	mg/L										Organic	999999	DWS			
Trichloromethane	TTHM	0.08	mg/L										Organic	999999	DWS			
bis-2-Chloroisopropyl ether		none											Organic	999999	DWS			
Chloromethane		none											Organic	999999	DWS			
2-Chlorophenol		none											Organic	999999	DWS			
Chloropicrin		none											Organic	999999	DWS			
Chlorothalonil		none											Organic	999999	DWS			
Chlorotoluene (o,p)		none											Organic	999999	DWS			
Chlorpyrifos		none											Organic	999999	DWS			
CIPC (Chlorpropham) (isopropyl-N-(3-chlorophenyl) carbamate)		none											Organic	999999	DWS			
Cresol (p)		none											Organic	999999	DWS			
Cyanazine		none											Organic	999999	DWS			
Cyanogen chloride		none											Organic	999999	DWS			

ANALYTE	SYMBOL	MCL	UNITS	SMCL	UNITS	RECOMMEND	UPPER	SHORT	MRDL	UNITS	US EPA	UNITS	GROUP	TABLE	CODE	MAJOR ORIGINS	HEALTH EFFECTS
DCPA (Dachthal)	DCPA	none											Organic	999999	DWS		
DDT	DDT	none											Organic	999999	DWS		
Diazinon		none											Organic	999999	DWS		
Dibromoacetonitrile		none											Organic	999999	DWS		
1,2-Dibromo-3-chloro propane	DBCP	0.0002	mg/L										Organic	999999	DWS		
Dibutyl phthalate	PAE	none											Organic	999999	DWS		
Dicamba		none											Organic	999999	DWS		
Dichloroacetonitrile		none											Organic	999999	DWS		
1,3-Dichlorobenzene (m-Dichlorobenzene)		none											Organic	999999	DWS		
2,4-Dichlorophenol		none											Organic	999999	DWS		
2,4-Dichlorophenoxyacetic acid		0.070	mg/L										Organic	999999	DWS		
Dieldrin		none											Organic	999999	DWS		
Diethylphthalate	PAE	none											Organic	999999	DWS		
Diisopropyl methylphosphonate		none											Organic	999999	DWS		
Dimethoate		none											Organic	999999	DWS		
Dimethrin		none											Organic	999999	DWS		
Dimethylaniline		none											Organic	999999	DWS		
Dimethyl methylphosphonate		none											Organic	999999	DWS		
2,4-Dimethylphenol		none											Organic	999999	DWS		
1,3-Dinitrobenzene		none											Organic	999999	DWS		
2,4-Dinitrotoluene		none											Organic	999999	DWS		
2,6-Dinitrotoluene		none											Organic	999999	DWS		
1,4-Dioxane (p-Dioxane)		none											Organic	999999	DWS		
Diphenamide		none											Organic	999999	DWS		
Diphenylamine		none											Organic	999999	DWS		
Disulfoton		none											Organic	999999	DWS		
1,4-Dithiane		none											Organic	999999	DWS		
Diuron		none											Organic	999999	DWS		
Epichlorohydrin	TT												Organic	999999	DWS	Discharge from industrial chemical factories; impurity of some water treatment chemicals	Some people who drink water containing high levels of epichlorohydrin over a long period of time may experience stomach problems, and may have an increased risk of getting cancer.
Ethion		none											Organic	999999	DWS		
Ethylene Glycol		none											Organic	999999	DWS		
Ethylene Thiourea	ETU	none											Organic	999999	DWS		
Fenamiphos		none											Organic	999999	DWS		
Fluometuron		none											Organic	999999	DWS		
Fluorotrichloro-methane		none											Organic	999999	DWS		
Folpet		none											Organic	999999	DWS		
Fonofos		none											Organic	999999	DWS		
Formaldehyde		none											Organic	999999	DWS		
Heptachlor		none											Organic	999999	DWS		
Perchlorobenzene	HCS	0.001	mg/L								0.001	mg/L	Organic	999999	DWS		
Hexachlorobutadiene		none											Organic	999999	DWS		
Hexane		none											Organic	999999	DWS		
Hexazinone		none											Organic	999999	DWS		
HMX		none											Organic	999999	DWS		
Isophorone		none											Organic	999999	DWS		
Isopropyl benzene (cumene)		none											Organic	999999	DWS		
Isopropyl N-(3-chlorophenyl) carbamate	CIPC	none											Organic	999999	DWS		
Isopropyl methylphosphonate		none											Organic	999999	DWS		
Linuron		none											Organic	999999	DWS		
Malathion		none											Organic	999999	DWS		
Maleic Hydrazide		none											Organic	999999	DWS		
MCPA		none											Organic	999999	DWS		
Methomyl (Lannate)		none											Organic	999999	DWS		
Methylene Chloride (Dichloromethane)		0.005	mg/L								0.005	mg/L	Organic	999999	DWS		
Methyl Ethyl Ketone (2-Butanone)	MEK	none											Organic	999999	DWS		
Methyl Isobutyl Ketone	MIBK	none											Organic	999999	DWS		
Methyl Parathion		none											Organic	999999	DWS		
Metolachlor		none											Organic	999999	DWS		
Metribuzin		none											Organic	999999	DWS		
Mirex		none											Organic	999999	DWS		
Naphthalene		none											Organic	999999	DWS		
Nitroguanidine		none											Organic	999999	DWS		
p-Nitrophenol		none											Organic	999999	DWS		
Paraquat		none											Organic	999999	DWS		
Parathion (Ethyl Parathion)		none											Organic	999999	DWS		
Pentachloronitrobenzene (Tetrachlor)		none											Organic	999999	DWS		
Pentachlorophenol		0.0001	mg/L										Organic	999999	DWS		
Phenol		none											Organic	999999	DWS		
Phthalates (Di(ethylhexyl)-phthalate)		0.0004	mg/L										Organic	999999	DWS		
Polynuclear Aromatic Hydrocarbons (Benzo(a)pyrene)	PAH	0.0002	mg/L										Organic	999999	DWS		
Prometon		none											Organic	999999	DWS		
Pronamide		none											Organic	999999	DWS		
Propachlor		none											Organic	999999	DWS		
Propazine		none											Organic	999999	DWS		
Propam		none											Organic	999999	DWS		
RDX		none											Organic	999999	DWS		
Tebuturon		none											Organic	999999	DWS		
Terbacil		none											Organic	999999	DWS		
Terbufos		none											Organic	999999	DWS		
Tetrachlor (Pentachloronitrobenzene)		none											Organic	999999	DWS		
1,1,1,2-Tetrachloroethane		none											Organic	999999	DWS		
Tribromomethane (Bromoform)	TTHM	0.080	mg/L										Organic	999999	DWS		
Trichloroacetaldehyde (Chloral hydrate)		none											Organic	999999	DWS		
1,3,5-Trichlorobenzene		none											Organic	999999	DWS		
Trichloroethylene		0.005	mg/L										Organic	999999	DWS		
2,4,6-Trichlorophenol		none											Organic	999999	DWS		
2,4,5-Trichloro-phenoxyacetic acid (2,4,5-T)		none											Organic	999999	DWS		
2,4,5-Trichlorophenoxypropionic acid (2,4,5-TP) (Silvex)		0.050	mg/L										Organic	999999	DWS		
1,2,3-Trichloropropane		0.000005	mg/L										Organic	999999	DWS		

ANALYTE	SYMBOL	MCL	UNITS	SMCL	UNITS	RECOMMEND	UPPER	SHORT	MRDL	UNITS	US EPA	UNITS	GROUP	TABLE	CODE	MAJOR ORIGINS	HEALTH EFFECTS
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)		1.2	mg/L										Organic	999999	DWS		
Trifluoralin		none											Organic	999999	DWS		
Trinitroproceol		none											Organic	999999	DWS		
Trinitrotoluene		none											Organic	999999	DWS		
Trithion		none											Organic	999999	DWS		
Arsenic	As										75	mg/kg	TCLP-Metals	503.13	40cfr503		
Barium	Ba										100.0	mg/L	TCLP-Metals	2.3-1	40cfr503		
Cadmium	Cd										85	mg/kg	TCLP-Metals	503.13	40cfr503		
Chromium	Cr										5.0	mg/L	TCLP-Metals	2.3-1	40cfr503		
Copper	Cu										4,300	mg/kg	TCLP	503.13	40cfr503		
Lead	Pb										840	mg/kg	TCLP-Metals	503.13	40cfr503		
Mercury	Hg										57	mg/kg	TCLP-Metals	503.13	40cfr503		
Molybdenum	Mo										75	mg/kg	TCLP	503.13	40cfr503		
Nickel	Ni										420	mg/kg	TCLP	503.13	40cfr503		
Selenium	Se										100	mg/kg	TCLP-Metals	503.13	40cfr503		
Silver	Ag										5.0	mg/L	TCLP-Metals	2.3-1	40cfr503		
Zinc	Zn										7,500	mg/kg	TCLP	503.13	40cfr503		
Chlordane											0.03	mg/L	TCLP-Pesticides	2.3-1	40cfr503		
Endrin											0.02	mg/L	TCLP-Pesticides	2.3-1	40cfr503		
Heptachlor											0.008	mg/L	TCLP-Pesticides	2.3-1	40cfr503		
Lindane											0.4	mg/L	TCLP-Pesticides	2.3-1	40cfr503		
Methoxychlor											10.0	mg/L	TCLP-Pesticides	2.3-1	40cfr503		
Toxaphene											0.5	mg/L	TCLP-Pesticides	2.3-1	40cfr503		
2,4-D											10	mg/L	TCLP-Herbicides	2.3-1	40cfr503		
2,4-5-TP Silvex											1.0	mg/L	TCLP-Herbicides	2.3-1	40cfr503		
Benzene											0.5	mg/L	TCLP-Volatiles	2.3-1	40cfr503		
Carbon tetrachloride											0.5	mg/L	TCLP-Volatiles	2.3-1	40cfr503		
Chlorobenzene											100.0	mg/L	TCLP-Volatiles	2.3-1	40cfr503		
Chloroform											6.0	mg/L	TCLP-Volatiles	2.3-1	40cfr503		
1,2-Dichloroethane											0.5	mg/L	TCLP-Volatiles	2.3-1	40cfr503		
1,1-Dichloroethylene											0.7	mg/L	TCLP-Volatiles	2.3-1	40cfr503		
Methyl ethyl ketone											200.0	mg/L	TCLP-Volatiles	2.3-1	40cfr503		
Tetrachloroethylene											0.7	mg/L	TCLP-Volatiles	2.3-1	40cfr503		
Toluene											1000.0	mg/L	TCLP-Volatiles	2.3-1	40cfr503		
Trichloroethylene											0.5	mg/L	TCLP-Volatiles	2.3-1	40cfr503		
Vinyl chloride											0.2	mg/L	TCLP-Volatiles	2.3-1	40cfr503		
o-Cresol											200.0	mg/L	TCLP-Semivolatiles	2.3-1	40cfr503		
m-Cresol											200.0	mg/L	TCLP-Semivolatiles	2.3-1	40cfr503		
p-Cresol											200.0	mg/L	TCLP-Semivolatiles	2.3-1	40cfr503		
1,2-Dichlorobenzene											300.0	mg/L	TCLP-Semivolatiles	2.3-1	40cfr503		
1,4-Dichlorobenzene											7.5	mg/L	TCLP-Semivolatiles	2.3-1	40cfr503		
2,4-Dinitrotoluene											0.1	mg/L	TCLP-Semivolatiles	2.3-1	40cfr503		
Hexachlorobenzene											0.02	mg/L	TCLP-Semivolatiles	2.3-1	40cfr503		
Hexachlorobutadiene											0.5	mg/L	TCLP-Semivolatiles	2.3-1	40cfr503		
Hexachloroethane											3.0	mg/L	TCLP-Semivolatiles	2.3-1	40cfr503		
Nitrobenzene											2.0	mg/L	TCLP-Semivolatiles	2.3-1	40cfr503		
Pentachlorophenol											1.0	mg/L	TCLP-Semivolatiles	2.3-1	40cfr503		
2,4,5-Trichlorophenol											400.0	mg/L	TCLP-Semivolatiles	2.3-1	40cfr503		
2,4,6-Trichlorophenol											2.0	mg/L	TCLP-Semivolatiles	2.3-1	40cfr503		