Connecticut Department of
Energy & Environmental Protection

Checklist for Solid Waste Disposal Areas

Applicant Name:

Mailing Address:

City/Town: State: Zip Code:

Business Phone: ext.:

Contact Person: Phone: ext.

E-mail:

The following application information is required for applications to discharge from solid waste disposal areas as defined in section 22a-430-6(b) of the Regulations of Connecticut State Agencies (RCSA). Completing this attachment will fulfill the regulatory requirements of sections 22a-430-4(c)(20)(E), 22a-209-4(b)(2)(A), and 22a-209-14(e) RCSA. A copy of this checklist and all required submittals must be included with the *Permit Application for Wastewater Discharges* (DEEP-WPED-APP-100) and the *Permit Application for the Construction and Operation of a Solid Waste Facility* (DEEP-WEED-APP-100).

Check the box preceding each document to indicate that it is included with this checklist; if the document does not apply then check the box after the description of the document indicating it is not applicable"NA". Unless specifically noted, all supporting documents listed must be included and submitted with this checklist.

☐ (1) The latest version of a United States Geological Survey quadrangle map at a scale of one inch equal to two thousand feet which shows the North arrow and identifies the location of the solid waste disposal area and the area lying within a one mile radius of the boundaries of such location. ☐ "NA"

The following detailed maps *(numbers 2 through 5)* must be produced, minimally, at a scale of one inch equal to five hundred feet, and must show the North arrow, topography at a contour interval no greater than ten feet and all pertinent features, noting natural and artificial features, within a minimum one half mile radius of the boundaries of the disposal area:

☐ (2) An area map of the site showing, at a minimum, the following physical features: ☐ "NA"

(A) all existing and proposed above-ground and underground man-made structures and installations;

(B) all roads, railways and other transportation corridors;

(C) all property boundaries and names and addresses of adjacent property owners and all landowners within the area of potentially impacted ground waters as identified on the latest assessor's map;

(D) all adjacent land uses as identified on the latest existing land use maps;

Checklist for Solid Waste Disposal Areas (continued)

(E) all rights of way, easements, or other interests on the land upon which the solid waste disposal area and its ground water zone of influence are located, including but not limited to all such interests held by gas, sewer, water, and electric utilities;

(F) all areas served by a public water system as defined in section 25-33d of the Connecticut General Statutes (CGS);

(G) all areas served by public sewer; and

(H) all public and private water supply wells and all other water supply wells including but not limited to wells used for industrial or agricultural water supply.

☐ (3) A water resources map of the site which includes, at a minimum, identification of: ☐ "NA"

(A) all wetlands, tidal wetlands, watercourses, and other waters as defined in CGS sections 22a-38(15), 22a-29(2), 22a-38(16) and 22a-367, respectively;

(B) all floodplains as defined in CGS section 25-68b;

(C) all coastal areas as defined in CGS section 22a-93;

(D) all potential well fields as defined in CGS section 22a-354a;

(E) all public and private water supply wells and all other water supply wells including but not limited to wells used for industrial or agricultural water supply;

(F) the surface water quality classification goal(s) of all surface waters as identified on maps adopted pursuant to CGS section 22a-426;

(G) the ground water quality classification goal(s) of all ground waters as identified on maps adopted pursuant to CGS section 22a-426; and

(H) all aquifer protection areas as defined in CGS section 22a-354(h)(10).

☐ (4) A bedrock geology map of the site which includes identification of the type of bedrock, location of outcrops, bedrock and surface topography, strike and dip of bedding planes or foliation, fault lines, fractures, and any other structural features. ☐ "NA"

☐ (5) A surficial materials map of the site which includes types of unconsolidated deposits and soils, and isopach contours of unconsolidated deposits. ☐ "NA"

☐ (6) Detailed site map(s) at a scale of one inch equal to no greater than one hundred feet with topographic contours at an interval of two or five feet, showing the North arrow, and the entire solid waste disposal area. The site map(s) shall include identification of the following: ☐ "NA"

(A) topographic contours;

(B) for new solid waste disposal areas or lateral expansions, the proposed topographic contours after site preparation;

(C) proposed final topographic contours;

(D) all existing and proposed test pit, boring, and observation and monitoring well locations;

(E) all existing and proposed surface water monitoring locations;

(F) locations of existing and proposed fill limits including location of fill limit markers;

(G) all existing and proposed above-ground and underground man-made structures and installations, including but not limited to on-site buildings, fences, gates, and roads;

(H) locations of property boundaries, buffer zones and screening;

(I) all rights of way, easements, or other interests on the land upon which the solid waste disposal area and its ground water zone of influence are located, including but not limited to all such interests held by gas, sewer, water, and electric utilities;

(J) the areal extent of the existing and predicted leachate plume to the point of discharge to a surface water;

(K) the existing and potential ground water elevations at the site;

Checklist for Solid Waste Disposal Areas (continued)

(L) identification of the location of cross-sections prepared in accordance with paragraph (8) of this checklist; and

(M) the type and location of all existing and proposed sedimentation and erosion controls.

☐ (7) Detailed site map(s) at a scale and topographic contour interval equal to the maps required by paragraph (6) of this checklist showing the North arrow, the entire solid waste disposal area, and all monitoring locations. The site map(s) shall include identification of the following: ☐ "NA"

(A) Contours of surface water elevations at each surface water monitoring location and ground water elevations and corresponding point data at each monitoring location for each measurement period and for each hydrogeologic stratum in which ground water elevations are measured. Elevations shall be based on a minimum of two sets of measurements from all surface water monitoring stations, available wells, test pits, springs and borings. Measurements shall be taken during spring high water levels, unless otherwise approved by the Department of Energy and Environmental Protection (DEEP).

(B) Spatial distribution, using point data and concentration isopleths of three representative leachate parameters measured at each monitoring location during high and low rainfall months and for each hydrogeologic stratum sampled.

☐ (8) A minimum of four intersecting cross-sections through the site, two of which shall be along lines parallel and two of which shall be along lines perpendicular to the general direction of ground water flow. Each cross-section shall document the stratigraphic variation across the site, and depict the following at a horizontal scale equal to the maps required by paragraph (6) of this checklist: ☐ "NA"

(A) existing, site preparation and final grades after closure;

(B) location, total depth, screen location, and logs of wells or test borings used to construct the cross-section;

(C) maximum and minimum recorded ground water elevations;

(D) ground water flow nets;

(E) vertical and horizontal direction of ground water flow within and across each geologic formation;

(F) depth of the existing and predicted ground water zone of influence;

(G) bedrock surface and structure; and

(H) the stratigraphy of the unconsolidated deposits.

☐ (9) A detailed report describing the existing and projected water quality impacts of the discharge. The report shall include, at a minimum, the following: ☐ "NA"

(A) A summary of the site history identifying past and present land uses at the site and other historical sources of impacts to the quality of ground water and adjacent surface waters at the site for the past thirty (30) years. Such summary shall include, but need not be limited to, a description of past and present land uses at the site and at properties adjacent to the site, identification and addresses of present owners of adjacent property, identification of easements on the site, previous site improvements, identification of the types of materials and wastes stored or disposed of on-site, analysis of aerial photographs of the site, and a synopsis of the purpose, methods and results of any previous environmental investigations or conditions at the site.

(B) An explanation of the map(s) prepared pursuant to paragraphs (2), (3), (4), (5), (6), (7), and (8) of this checklist.

(C) A statement by each affected utility identified on the area map(s) that the proposed activity protects these utilities in compliance with applicable standards.

(D) A description of the hydrogeologic interaction at the site between the surficial and bedrock geology, the ground water flow, surface water and the leachate discharge.

Checklist for Solid Waste Disposal Areas (continued)

(E) All boring logs, construction and development details, and other supporting documentation associated with monitor wells installed for the purpose of preparing the hydrogeologic descriptions. Prior to preparation of the application, you may wish to consult with DEEP for information about monitor well installation.

(F) A compilation of data on the quality of ground water and surface water entering or adjacent to the site for the purposes of characterizing ambient water quality at the site and identifying the degree and extent of the leachate plume. Such compilation shall include, at a minimum, the following:

(i) samples taken from (1) surface water monitoring locations upstream and downstream from the solid waste disposal area; (2) monitoring wells located at or adjacent to the site in areas which are or which could potentially be affected by the leachate discharge from the solid waste disposal area; and (3) a representative sample of all water supply wells within a one-quarter mile of the boundaries of the existing or proposed solid waste disposal area provided such representative sample shall be chosen in accordance with a sampling program which identifies the number and location of wells and discussion of why such a sampling program is representative of ground water quality for such area;

(ii) a minimum of two sampling events, one month apart, shall be taken from all monitoring locations, monitoring wells, and water supply wells described pursuant to paragraph (9)(F)(i) of this checklist;

(iii) leachate parameters as defined in RCSA section 22a-430-3 as amended, shall be used to characterize the discharge and its impact on water quality. In addition, DEEP may determine that other parameters are necessary to characterize the discharge and its impact on water quality. (A listing of the leachate parameters as defined in RCSA section 22a-430-3 is included following this checklist.)

(iv) all existing water quality data including, at a minimum, quality assurance and quality control protocols for the collection and analysis of ground water and surface water samples, the analytical methods used and their method detection limits. The results of all such water quality data shall be presented on graphs which depict parameter concentrations on the ordinate and sampling events on the abscissa for each monitoring location and each pertinent hydrogeologic stratum; and

(v) precipitation hydrographs.

(G) An estimate of the quantity of the existing and proposed leachate discharge volume(s) calculated on a daily, monthly and annual basis using site area and discharge rates in accordance with the following:

(i) For discharges of leachate from unlined solid waste disposal areas to ground water, calculate the discharge volume using fifty percent of the average annual rainfall for the region in which the site is located for the entire disposal area.

(ii) For discharges of leachate from new lined solid waste disposal areas to ground water, calculate the discharge volume using five-hundred and fifty (550) gallons per day per acre for the entire disposal area. An alternative discharge volume of one-hundred (100) gallons per day per acre for the entire disposal area may be used only if the lined solid waste disposal area will not be receiving ash residue from a municipal resource recovery facility.

(iii) For discharges of leachate from new lined solid waste disposal areas to other than ground water, calculate the maximum daily discharge volume using a twenty-four hour, twenty-five year storm applied to the active portion of the disposal area for the region in which the site is located. The active portion is defined as that part of a solid waste disposal area that has received or is receiving wastes and that has not been closed in accordance with RCSA section 22a-209-14.

Checklist for Solid Waste Disposal Areas (continued)

(H) A leachate quality characterization shall be developed for the purposes of evaluating possible impacts of the discharge to the waters of the state. Such characterization shall consider the type of waste disposed of, on-site testing, testing of similar landfills, or published literature. Such characterization shall be developed using the leachate parameters as defined in RCSA section 22a-430-3 as amended, and any other substances necessary to characterize the discharge and its impact on water quality, and the following:

(i) for discharges to the ground water, the concentration of each leachate parameter which exceeds 95 percent of all concentrations measured for each such leachate parameter;

(ii) for discharges other than to the ground water, the concentration of each leachate parameter which exceeds 50 percent of all concentrations measured for each such leachate parameter.

(I) A detailed discussion of the possible impact of the existing and/or proposed leachate discharge in terms of the conformance of such discharge with the Connecticut Water Quality Standards and water quality criteria published pursuant to section 304(a) of the Clean Water Act. Such discussion shall be prepared in accordance with the following:

(i) For discharges to ground water, evaluate such impact for the bedrock and unconsolidated deposits at the site boundary, adjacent wetlands and surface waters, and existing or potential water supply wells. The evaluation shall be based on the leachate quality characterization described in paragraph (9)(H) of this checklist and the estimate of the quantity of the existing and proposed discharge volumes calculated in paragraphs (9)(G)(i) or (9)(G)(ii) of this checklist. In evaluating such impacts, the applicant shall assume that the underlying geologic formations do not have any capacity to physically, chemically or biologically alter, retard, or attenuate the water quality impacts of the leachate discharge. For water quality impacts from the leachate discharge, the applicant shall consider the average existing ambient ground water and surface water quality for each parameter. Predicted surface water impacts shall be estimated using seven day, ten year low flows obtained from stage measurements or calculated from the United States Geological Survey Connecticut Basin Reports or an equivalent low flow for areas affected by tidal exchange or which are flow regulated.

(ii) For discharges to a POTW, evaluate such impact in accordance with RCSA section 22a-430-4(t). The evaluation shall be based on the leachate quality characterization described in paragraph (9)(H) and the estimate of the quantity of the existing and proposed discharge volumes described in paragraph (9)(G)(iii) of this checklist.

(iii) For discharges to a surface water, evaluate such impact based on the leachate quality characterization described in paragraph (9)(H) of this checklist and the estimate of the quantity of the existing and proposed discharge volumes described in paragraph (9)(G)(iii) of this checklist. For water quality impacts from the leachate discharge, the applicant shall consider the average ambient surface water quality for each parameter. Predicted surface water impacts shall be estimated using seven day, ten year low flows obtained from stage measurements or calculated from the United States Geological Survey Connecticut Basin Reports or an equivalent low flow for areas affected by tidal exchange or which are flow regulated.

☐ (10) Except as provided below, all applicants for permits to discharge to a surface waterbody (i.e., for new and existing discharges) must perform a Discharge Toxicity Evaluation (DTE) in accordance with RCSA section 22a-430-4(c)(21)(B) and submit the results of the DTE as Attachment O, Table 6. ☐ "NA"

Exceptions:

A DTE need *not* be performed or submitted with this application *if*:

- this application is for a permit to discharge sewage from a POTW; or
- a DTE covering all discharges to surface waters at the site has been previously approved by DEEP; or

Checklist for Solid Waste Disposal Areas (continued)

- the applicant has been specifically exempted from submission of a DTE for the discharge(s), in writing by DEEP, in accordance with RCSA section 22a-430-4(c)(21)(C), prior to submittal of this application (see instructions).

  Note: For discharges to a POTW, a DTE may be required depending on the nature of the discharge. In this case, you will be notified by DEEP after submitting your application.

☐ (11) A detailed plan suitable for field use by the operator for the construction, operation, and management of the solid waste disposal area. Such plan shall ensure that the solid waste disposal area is operated and maintained to: minimize the size of the working face of such area; provide for and maintain adequate cover; minimize erosion, run-on, and the infiltration of stormwater into the soil and the generation of leachate; and maximize stormwater runoff which has not been in contact with the solid waste. At a minimum, such plan shall include a description of the following: ☐ "NA"

(A) area, volume, and expected site life of the entire solid waste disposal area;

(B) type of solid wastes proposed to be accepted at the solid waste disposal area, the methods of measuring and monitoring waste, the monitoring parameters and schedule and provisions for the inspection of waste as it is deposited at the working face;

(C) details and sequence of construction of the solid waste disposal area;

(D) orientation, sequence and construction of lifts and cells which minimizes the infiltration of stormwater into the soil;

(E) location, and the dimensions, and construction of access roads and a description of traffic flows;

(F) type and amount of equipment and the number and responsibilities of staff to ensure compliance with any approved plan of operation;

(G) daily operations, controls necessary to protect public health safety and welfare, dust and odor controls, decomposition gas controls, fire protection, vector controls, emergency procedures, communications equipment, regular maintenance schedules, and information to be recorded and recording procedures;

(H) proposed fiscal or institutional controls which will ensure the proper operation, maintenance, and closure;

(I) a system of dispersion berms, trenches or other drainage structures to prevent stormwater from infiltrating the soil and contacting the waste, and to direct water away from the solid waste disposal area;

(J) daily and intermediate cover materials of low permeability;

(K) removal of snow from the disposal area; and

(L) a stormwater discharge system that includes a sedimentation and erosion control basin capable of containing a 24-hour, 25-year design storm. A stormwater discharge system is subject to the permit requirements of CGS section 22a-430 and RCSA sections 22a-430-3 and 22a-430-4.

☐ (12) A plan for a ground and surface water quality monitoring program, including but not limited to quality assurance and quality control protocols for the collection of all surface water and ground water samples, a listing of the leachate parameters to be monitored at each monitoring location, their respective analytical methods and method detection limits, precipitation hydrographs for the site, and a schedule for performing and reporting the results of such monitoring program to DEEP. Such program shall be designed to evaluate whether the ground water zone of influence is within the right of possession of the permittee, and that the leachate discharge will conform with Water Quality Standards and water quality criteria published pursuant to section 304(a) of the Clean Water Act. ☐ "NA"

Checklist for Solid Waste Disposal Areas (continued)

☐ (13) A plan for a monthly inspection and monitoring program of the perimeter and side slopes of the solid waste disposal area, the banks of surface waters, and any wetlands adjacent to the solid waste disposal area to identify the degree and extent of leachate seeps or iron oxide precipitation. At a minimum the following shall be included as part of such plan: ☐ "NA"

(A) All persistent leachate seeps shall be identified and shall be sampled and analyzed for the leachate parameters as defined in RCSA section 22a-430-3 as amended, and any other substances necessary to characterize the discharge and its impact on water quality. Such sample collection and analyses shall be performed in accordance with the requirements of paragraph (12) of this checklist. Persistent leachate seeps are defined as active discharges, which have been identified at any one location in three consecutive inspections events.

(B) Submittal of a report which includes, at a minimum, a map drawn to a scale of one inch equal to one hundred feet showing the location and extent of all leachate seeps or iron oxide precipitation, and which describes the chemical composition of the leachate seeps, any sampling results, the discharge rate, and which includes a plan for remediation of such seeps or iron oxide precipitation and a schedule for carrying out the remediation plan.

☐ (14) A plan for closure of the solid waste disposal area which includes but is not limited to provisions for the grading of slopes, placement of final cover, and stabilization with soils and vegetation to minimize erosion, run-on, and infiltration in accordance with the applicable requirements of RCSA section 22a-209. ☐ "NA"

☐ (15) A plan for post-closure maintenance and monitoring of the solid waste disposal area and the ground water zone of influence to ensure the minimization of leachate generation and the monitoring of ground water and pertinent surface waters for a period of time which is adequate to protect the environment and is at least 30 years. At a minimum such plan shall: ☐ "NA"

(A) identify all persons that will be legally responsible for the solid waste disposal area following closure;

(B) provide for financial guarantees to ensure the long term monitoring and maintenance of the facility as provided for in RCSA section 22a-209-4 (i);

(C) provide for post-closure inspection, monitoring, and maintenance of the solid waste disposal area and the remediation of any damage to or deficiencies in its liner system, final cover, security facilities, or monitoring or treatment systems or facilities;

(D) provide for post-closure operation of such treatment system as is provided for leachate.

(E) provide a discussion of post-closure use.

Place a check mark preceding each of the following to verify that the requirements have been met.

☐ (16) Except as provided in RCSA section 22a-209-14(a) and (b), a solid waste disposal area for the disposal of residue shall be provided with a liner system which includes a leachate collection system and a leak detection zone, and a leachate treatment and discharge system. The liner system shall be constructed and operated in accordance with the requirements set forth in RCSA section 22a-209-14(g). To the extent possible, these requirements shall be implemented to facilitate treatment of residue before disposal and retrieval of residue after disposal. ☐ "NA"

☐ (17) The operator of a solid waste disposal area for the disposal of residue shall utilize any means, including but not limited to inspection of material to be disposed, necessary to ensure that no residue deposited in a cell contains material capable of penetrating or puncturing any portion of the liner. ☐ "NA"

☐ (18) In accordance with Title 40 of the Code of Federal Regulations, Part 258 (RCRA Subtitle D), the applicant must demonstrate that the facility is constructed and operated in accordance with the following location restrictions. ☐ "NA":

(A) airport safety;

Checklist for Solid Waste Disposal Areas (continued)

(B) floodplains;
(C) wetlands;
(D) fault areas;
(E) seismic impact zones;
(F) unstable areas.

(19) *Please respond to the following questions:*

☐ Yes ☐ No Is the proposed facility consistent with the Solid and Hazardous Waste Land Disposal Siting Policy adopted by DEEP?

☐ Yes ☐ No Is the proposed facility consistent with the latest adopted State Solid Waste Management Plan?

☐ Yes ☐ No Is the proposed facility consistent with the criteria in the latest adopted Connecticut Water Quality Standards?

☐ Yes ☐ No Has the applicant applied for an amendment to reclassify the ground water quality for the solid waste disposal area to a classification of GC pursuant to CGS section 22a-426 and the latest adopted Connecticut Water Quality Standards? For more information concerning amendments of ground water quality classification, call PERD at 860-424-3705.

☐ Yes ☐ No Does the applicant have the right of possession, by means of fee interest or easement, to the zone of influence of the existing and/or proposed solid waste disposal area?

☐ Yes ☐ No Is the zone of influence of the existing and/or proposed solid waste disposal area located, in whole or in part, within an aquifer protection area as defined in CGS section 22a-354(h)(10)?

☐ Yes ☐ No Is there any potable water supply well located within the zone of influence of the existing and/or proposed solid waste disposal area, or located such that recharge of such well from the zone of influence could be induced by pumpage?

☐ Yes ☐ No Is the existing and/or proposed solid waste disposal area located, in whole or in part, within any tidal wetlands as defined under CGS section 22a-29?

Leachate Parameters

Leachate parameters include the following and Appendix I of Part 258, which is attached. Upon review of your application, you may be required to analyze the discharge for additional parameters identified in Appendix II of Part 258, which is also attached.
If you have any questions, please contact PED at 860-424-3705.

Common Name
Total Dissolved Solids
Total Suspended Solids
Alkalinity
pH
Total Dissolved Iron
Total Dissolved Manganese
Ammonia (expressed as Nitrogen)
Nitrate (expressed as Nitrogen)
Sodium
Potassium
Chlorides
Sulfates
Oxidation - Reduction Potential
Biological Oxygen Demand (5 day)

Appendix I of Part 258

Common Name	CAS RN	Chemical Abstracts Service Index Name	Suggested methods	PQL (µg/L)
Inorganic Constituents:				
Antimony	(Total)	Antimony	6010 7040 7041	300 2000 30
Arsenic	(Total)	Arsenic	6010 7060 7061	500 10 20
Barium	(Total)	Barium	6010 7080	20 1000
Beryllium	(Total)	Beryllium	6010 7090 7091	3 50 2
Cadmium	(Total)	Cadmium	6010 7130 7131	40 50 1
Chromium	(Total)	Chromium	6010 7190 7191	70 500 10
Cobalt	(Total)	Cobalt	6010 7200 7201	70 500 10
Copper	(Total)	Copper	6010 7210 7211	60 200 10
Lead	(Total)	Lead	6010 7420 7421	400 1000 10
Nickel	(Total)	Nickel	6010 7520	150 400
Selenium	(Total)	Selenium	6010 7740 7741	750 20 20
Silver	(Total)	Silver	6010 7760 7761	70 100 10
Thallium	(Total)	Thallium	6010 7840 7841	400 1000 10
Vanadium	(Total)	Vanadium	6010 7910 7911	80 2000 40
Zinc	(Total)	Zinc	6010 7950 7951	20 50 0.5

Appendix I of Part 258

Common Name	CAS RN	Chemical Abstracts Service Index Name	Suggested methods	PQL (µg/L)
Organic Constituents:				
Acetone	67-64-1	2-Propanone	8260	100
Acrylonitrile	107-13-1	2-Propenenitrile	8030 8260	5 200
Benzene	71-43-2	Benzene	8020 8021 8260	2 0.1 5
Bromochloromethane; Chlorobromomethane	74-97-5	Methane, bromochloro-	8021 8260	0.1 5
Bromodichloromethane; Dibromochloromethane	75-27-4	Methane, bromodichloro-	8010 8021 8260	1 0.2 5
Bromoform; Tribromomethane	75-25-2	Methane, tribromo-	8010 8021 8260	2 15 5
Carbon disulfide	75-15-0	Carbon disulfide	8260	100
Carbon tetrachloride	56-23-5	Methane, tetrachloro-	8010 8021 8260	1 0.1 10
Chlorobenzene	108-90-7	Benzene, chloro-	8010 8020 8021 8260	2 2 0.1 5
Chloroethane; Ethyl chloride	75-00-3	Ethane, chloro-	8010 8021 8260	5 1 10
Chloroform; Trichloromethane	67-66-3	Methane, trichloro-	8010 8021 8260	0.5 0.2 5
Dibromochloromethane; Chlorodibromomethane	124-48-1	Methane, dibromochloro-	8010 8021 8260	1 0.3 5
1, 2-Dibromo-3-chloropropane; DBCP	96-12-8	Propane, 1,2-dibrome-3-chloro-	8011 8021 8260	0.1 30 25
1, 2-Dibromoethane; Ethylene dribromide; EDB	106-93-4	Ethane, 1,2-dibromo-	8011 8021 8260	0.1 10 5
o-Dichlorobenzene; 1, 2-Dichlorobenzene	95-50-1	Benzene, 1,2-dichloro-	8010 8020 8021 8120 8260 8270	2 5 0.5 10 5 10

Common Name	CAS RN	Chemical Abstracts Service Index Name	Suggested methods	PQL (µg/L)
p-Dichlorobenzene; 1, 4-Dichlorobenzene	106-46-7	Benzene, 1,4-dichloro-	8010 8020 8021 8120 8260 8270	2 5 0.1 15 5 10
trans-1, 4-Dichloro-2-butene	110-57-6	2-Butene, 1,4-dichloro-, (E)-	8260	100
1, 1-Dichloroethane; Ethylidene chloride	75-34-3	Ethane, 1,1-dichloro-	8010 8021 8260	1 0.5 5
1, 2-Dichloroethane; Ethylene dichloride	107-06-2	Ethane, 1,1-dichloro-	8010 8021 8260	0.5 0.3 5
1, 1-Dichloroethylene; 1, 1-Dichloroethene; Vinylidene chloride	75-35-4	Ethene, 1,1-dichloro-	8010 8021 8260	1 0.5 5
cis-1, 2-Dichloroethylene; cis-1, 2-Dichloroethene	156-59-2	Ethene, 1,2-dichloro-, (Z)-	8021 8260	0.2 5
trans-1, 2-Dichloroethylene trans-1, 2-Dichloroethene	156-60-5	Ethene, 1,2-dichloro-, (E)-	8010 8021 8260	1 0.5 5
1, 2-Dichloropropane; Propylene dichloride	78-87-5	Propane, 1,2-dichloro-	8010 8021 8260	0.5 0.05 5
cis-1, 3-Dichloropropene	10061-01-5	1-Propene, 1,3-dichloro-, (Z)-	8010 8260	20 10
trans-1, 3-Dichloropropene	10061-02-6	1-Propene, 1,3-dichloro-, (E)-	8010 8260	5 10
Ethylbenzene	100-41-4	Benzene, ethyl-	8020 8221 8260	2 0.05 5
2-Hexanone; Methyl butyl ketone	591-78-6	2-Hexanone	8260	50
Methyl bromide; Bromomethane	74-83-9	Methane, bromo-	8010 8021	20 10
Methyl chloride; Chloromethane	74-87-3	Methane, chloro-	8010 8021	1 0.3
Methylene bromide; Dibromomethane	74-95-3	Methane, dibromo-	8010 8021 8260	15 20 10
Methylene chloride; Dichloromethane	75-09-2	Methane, dichloro-	8010 8021 8260	5 0.2 10

Common Name	CAS RN	Chemical Abstracts Service Index Name	Suggested methods	PQL (µg/L)
Methyl ethyl ketone; MEK; 2-Butanone	78-93-3	2-Butanone	8015 8260	10 100
Methyl iodide; Iodomethane	74-88-4	Methane, iodo-	8010 8260	40 10
4-Methyl-2-pentanone; Methyl isobutyl ketone	108-10-1	2-Pentanone, 4-methyl-	8015 8260	5 100
Styrene	100-42-5	Benzene, ethenyl-	8020 8021 8260	1 0.1 10
1, 1, 1, 2-Tetrachloroethane	630-20-6	Ethane, 1,1,1,2-tetrachloro-	8010 8021 8260	5 0.05 5
1, 1, 2, 2-Tetrachloroethane	79-34-5	Ethane, 1,1,2,2-tetrachloro-	8010 8021 8260	0.5 0.1 5
Tetrachloroethylene; Tetrachloroethene; Perchloroethylene	127-18-4	Ethene, tetrachloro-	8010 8021 8260	0.5 0.5 5
Toluene	108-88-3	Benzene, methyl-	8020 8021 8260	2 0.1 5
1, 1, 1-Trichloroethane; Methylchloroform	71-55-6	Ethane, 1,1,1-trichloro-	8010 8021 8260	0.3 0.3 5
1, 1, 2-Trichloroethane	79-00-5	Ethane, 1,1,2-trichloro-	8010 8260	0.2 5
Trichloroethylene; Trichloroethene	79-01-6	Ethene, trichloro-	8010 8021 8260	1 0.2 5
Trichlorofluoromethane; CFC-11	75-69-4	Methane, trichlorofluoro-	8010 8021 8260	10 0.3 5
1, 2, 3-Trichloropropane	96-18-4	Propane, 1,2,3-trichloro-	8010 8021 8260	10 5 15
Vinyl acetate	108-05-4	Acetic acid, ethenyl ester	8260	50
Vinyl chloride; Chloroethene	75-01-4	Ethene, chloro-	8010 8021 8260	2 0.4 10
Xylenes	1330-20-7	Benzene, dimethyl-	8020 8021 8260	5 0.2 5

Appendix II of Part 258

Common Name	CAS RN	Chemical Abstracts Service Index Name	Suggested methods	PQL (µg/L)
Acenaphthene	83-32-9	Acenaphthylene, 1,2-dihydro-	8100 8270	200 10
Acenaphthylene	208-96-8	Acenaphthylene	8100 8270	200 10
Acetone	67-64-1	2-Propanone	8260	100
Acetonitrile; Methyl cyanide	75-05-8	Acetonitrile	8015	100
Acetophenone	98-86-2	Ethanone, 1-phenyl	8270	10
2-Acetylaminofluorene; 2-AAF	53-96-3	Acetamide, N-9H-fluoren-2-yl	8270	20
Acrolein	107-02-8	2-Propenal	8030 8260	5 100
Acrylonitrile	107-13-1	2-Propenenitrile	8030 8260	5 200
Aldrin	309-00-2	1, 4:5, 8-Dimethanonaphthalene, 1, 2, 3, 4, 10, 10-hexachloro-1, 4, 4a, 5, 8, 8a-hexahydro- (1a, 4a, 4ab, 5a, 8a, 8ab)	8080 8270	0.05 10
Allyl chloride	107-05-1	1-Propene, 3-chloro	8010 8260	5 10
4-Aminobipherryl	92-67-1	[1, 1^{1}-Biphenyl]-4-amine	8270	20
Anthracene	120-12-7	Anthracene	8100 8270	200 10
Antimony	(Total)	Antimony	6010 7040 7041	300 2000 30
Arsenic	(Total)	Arsenic	6010 7060 7061	500 10 20
Barium	(Total)	Barium	6010 7080	20 1000
Benzene	71-43-2	Benzene	8020 8021 8260	2 0.1 5
Benzo[a]anthracene; Benzanthracene	56-55-3	Benz[a]anthracene	8100 8270	200 10
Benzo[b]fluoranthene	205-99-2	Benz[e]acephenanthrylene	8100 8270	200 10
Benzo[k]fluoranthene	207-08-9	Benzo[k]fluoranthene	8100 8270	200 10
Benzo[ghi]perylene	191-24-2	Benzo[ghi]perylene	8100 8270	200 10
Benzo[a]pyrene	50-32-8	Benzo[a]pyrene	8100 8270	200 10

Appendix II of Part 258

Common Name	CAS RN	Chemical Abstracts Service Index Name	Suggested methods	PQL (µg/L)
Benzyl alcohol	100-51-6	Benzenemethanol	8270	20
Beryllium	(Total)	Beryllium	6010 7090 7091	3 50 2
alpha-BHC	319-84-6	Cyclohexane, 1, 2, 3, 4, 5, 6-hexachloro-, (1a, 2a, 3b, 4a, 5b, 6b)	8080 8270	0.05 10
beta-BHC	319-85-7	Cyclohexane, 1, 2, 3, 4, 5, 6-hexachloro-, (1a, 2b, 3a, 4b, 5a, 6b)	8080 8270	0.05 20
delta-BHC	319-86-8	Cyclohexane, 1, 2, 3, 4, 5, 6-hexachloro-, (1a, 2a, 3a, 4b, 5a, 6b)	8080 8270	0.1 20
gamma-BHC; Lindane	58-89-9	Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1a,2a,3b,4a,5a,6b)	8080 8270	0.05 20
Bis(2-chloroethoxy)methane	111-91-1	Ethane, 1,1[1]-[methylenebis(oxy)]bis[2-chloro-	8110 8270	5 10
Bis(2-chloroethyl)ether; Dichloroethyl ether	111-44-4	Ethane, 1,1[1]-oxybis[2-chloro-	8110 8270	3 10
Bis-(2-chloro-1-methylethyl) ether; 2, 2[1] - Dichlorodiisopropyl ether; DCIP, see Note 7	108-60-1	Propane, 2,2[1]-oxybis[1-chloro-	8110 8270	10 10
Bis(2-ethylhexyl) phthalate	117-81-7	1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester	8060	20
Bromochloromethane; Chlorobromomethane	74-97-5	Methane, bromochloro-	8021 8260	0.1 5
Bromodichloromethane; Dibromochloromethane	75-27-4	Methane, bromodichloro-	8010 8021 8260	1 0.2 5
Bromoform; Tribromomethane	75-25-2	Methane, tribromo-	8010 8021 8260	2 15 5
4-Bromophenyl phenyl ether	101-55-3	Benzene, 1-bromo-4-phenoxy-	8110 8270	25 10
Butyl benzyl phthalate; Benzyl butyl phthalate	85-68-7	1,2-Benzenedicarboxylic acid, butyl phenylmethyl ester	8060 8270	5 10
Cadmium	(Total)	Cadmium	6010 7130 7131	40 50 1
Carbon disulfide	75-15-0	Carbon disulfide	8260	100
Carbon tetrachloride	56-23-5	Methane, tetrachloro-	8010 8021 8260	1 0.1 10
Chlordane	See Note 8	4,7-Methano-1H-indene, 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-	8080 8270	0.1 50

Appendix II of Part 258

Common Name	CAS RN	Chemical Abstracts Service Index Name	Suggested methods	PQL (µg/L)
p-Chloroaniline	106-47-8	Benzenamine, 4-chloro-	8270	20
Chlorobenzene	108-90-7	Benzene, chloro-	8010 8020 8021 8260	2 2 0.1 5
Chlorobenzilate	510-15-6	Benzeneacetic acid, 4-chloro-a-(4-chlorophenyl)-a-hydroxy-, ethyl ester	8270	10
p-Chloro-m-cresol; 4-Chloro-3-methylphenol	59-50-7	Phenol, 4-chloro-3-methyl-	8040 8270	5 20
Chloroethane; Ethyl chloride	75-00-3	Ethane, chloro-	8010 8021 8260	5 1 10
Chloroform; Trichloromethane	67-66-3	Methane, trichloro-	8010 8021 8260	0.5 0.2 5
2-Chloronaphthalene	91-58-7	Naphthalene, 2-chloro-	8120 8270	10 10
2-Chlorophenol	95-57-8	Phenol, 2-chloro-	8040 8270	5 10
4-Chlorophenyl phenyl ether	7005-72-3	Benzene, 1-chloro-4-phenoxy-	8110 8270	40 10
Chloroprene	126-99-8	1,3-Butadiene, 2-chloro-	8010 8260	50 20
Chromium	(Total)	Chromium	6010 7190 7191	70 500 10
Chrysene	218-01-9	Chrysene	8100 8270	200 10
Cobalt	(Total)	Cobalt	6010 7200 7201	70 500 10
Copper	(Total)	Copper	6010 7210 7211	60 200 10
m-Cresol; 3-methylphenol	108-39-4	Phenol, 3-methyl-	8270	10
o-Cresol; 2-methylphenol	95-48-7	Phenol, 2-methyl-	8270	10
p-Cresol; 4-methylphenol	106-44-5	Phenol, 4-methyl-	8270	10
Cyanide	57-12-5	Cyanide	9010	200
2, 4-D; 2, 4-Dichlorophenoxyacetic acid	94-75-7	Acetic acid, (2,4-dichlorophenoxy)-	8150	10
4, 4[1] - DDD	72-54-8	Benzene 1,1[1]-(2,2-dichloroethylidene)bis[4-chloro-	8080 8270	0.1 10

Appendix II of Part 258

Common Name	CAS RN	Chemical Abstracts Service Index Name	Suggested methods	PQL (µg/L)
4, 4[1] - DDE	72-55-9	Benzene 1,1[1]-(dichloroethyenylidene)bis[4-chloro-	8080 8270	0.05 10
4, 4[1] - DDT	50-29-3	Benzene 1,1[1]-(2,2,2-trichloroethylidene)bis[4-chloro-	8080 8270	0.1 10
Diallate	2303-16-4	Carbamothioic acid, bis(1-methylethyl)-S-(2,3-dichloro-2-pro-penyl) ester	8270	10
Dibenz [a, h] anthracene	53-70-3	Dibenz [a, h] anthracene	8100 8270	200 10
Dibenzofuran	132-64-9	Dibenzofuran	8270	10
Dibromochloromethane; Chlorodibromomethane	124-48-1	Methane, dibromochloro-	8010 8021 8260	1 0.3 5
1, 2-Dibromo-3-chloropropane; DBCP	96-12-8	Propane, 1,2-dibrome-3-chloro-	8011 8021 8260	0.1 30 25
1, 2-Dibromoethane; Ethylene dribromide; EDB	106-93-4	Ethane, 1,2-dibromo-	8011 8021 8260	0.1 10 5
Di-n-butyl phthalate	84-74-2	1,2-Benzenedicarboxylic acid, dibutyl ester	8060 8270	5 10
o-Dichlorobenzene; 1, 2-Dichlorobenzene	95-50-1	Benzene, 1,2-dichloro-	8010 8020 8021 8120 8260 8270	2 5 0.5 10 5 10
m-Dichlorobenzene; 1, 3-Dichlorobenzene	541-73-1	Benzene, 1,3-Dichloro-	8010 8020 8021 8120 8260 8270	5 5 0.2 10 5 10
p-Dichlorobenzene; 1, 4-Dichlorobenzene	106-46-7	Benzene, 1,4-dichloro-	8010 8020 8021 8120 8260 8270	2 5 0.1 15 5 10
3, 3[1]- Dichlorobenzidine	91-94-1	[1,1[1]-Biphenyl]-4,4[1]-diamine, 3,3[1]-dichloro-	8270	20
trans-1, 4-Dichloro-2-butene	110-57-6	2-Butene, 1,4-dichloro-, (E)-	8260	100
Dichlorodifluoromethane; CFC 12	75-71-8	Methane, dichlorodifluoro-	8021 8260	0.5 5
1, 1-Dichloroethane; Ethyldidene chloride	75-34-3	Ethane, 1,1-dichloro-	8010 8021 8260	1 0.5 5

Appendix II of Part 258

Common Name	CAS RN	Chemical Abstracts Service Index Name	Suggested methods	PQL (µg/L)
1, 2-Dichloroethane; Ethylene dichloride	107-06-2	Ethane, 1,1-dichloro-	8010 8021 8260	0.5 0.3 5
1, 1-Dichloroethylene; 1, 1-Dichloroethene; Vinylidene chloride	75-35-4	Ethene, 1,1-dichloro-	8010 8021 8260	1 0.5 5
cis-1, 2-Dichloroethylene; cis-1, 2-Dichloroethene	156-59-2	Ethene, 1,2-dichloro-, (Z)-	8021 8260	0.2 5
trans-1, 2-Dichloroethylene trans-1, 2-Dichloroethene	156-60-5	Ethene, 1,2-dichloro-, (E)-	8010 8021 8260	1 0.5 5
2, 4-Dichlorophenol	120-83-2	Phenol, 2,4-dichloro-	8040 8270	5 10
2, 6-Dichlorophenol	87-65-0	Phenol, 2,6-dichloro-	8270	10
1, 2-Dichloropropane; Propylene dichloride	78-87-5	Propane, 1,2-dichloro-	8010 8021 8260	0.5 0.05 5
1, 3-Dichloropropane; Trimethylene dichloride	142-28-9	Propane, 1,3-dichloro-	8021 8260	0.3 5
2, 2-Dichloropropane; Isopropylidene chloride	594-20-7	Propane, 2,2-dichloro-	8021 8260	0.5 15
1, 1-Dichloropropene	563-58-6	1-Propene, 1,1-dichloro-	8021 8260	0.2 5
cis-1, 3-Dichloropropene	10061-01-5	1-Propene, 1,3-dichloro-, (Z)-	8010 8260	20 10
trans-1, 3-Dichloropropene	10061-02-6	1-Propene, 1,3-dichloro-, (E)-	8010 8260	5 10
Dieldrin	60-57-1	2,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexa,chloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aa,2b,2aa,3b,6b,6aa,7b,7aa)-	8080 8270	0.05 10
Diethyl phthalate	84-66-2	1,2-Benzenedicarboxylic acid, diethyl ester	8060 8270	5 10
0, 0-Diethyl 0-2-pyrazinyl phosphorothioate; Thionazin	297-97-2	Phosphorothioic acid, 0,0-diethyl 0-pyrazinyl ester	8141 8270	5 20
Dimethoate	60-51-5	Phosphorodithioic acid, 0,0-dimethyl S-[2-(methylamino)-2-oxoethyl] ester	8141 8270	3 20
p-(Dimethylamino)azobenzene	60-11-7	Benzenamine, N,N-dimethyl-4-(phenylazo)-	8270	10
7, 12-Dimethylbenz [a] anthracene	57-97-6	Benz[a]anthracene, 7,12-dimethyl-	8270	10
3, 3^1-Dimethylbenzidine	119-93-7	[1,1^1-Biphenyl]-4,4^1-diamine, 3,3^1-dimethyl-	8270	10

Appendix II of Part 258

Common Name	CAS RN	Chemical Abstracts Service Index Name	Suggested methods	PQL (µg/L)
2, 4-Dimethylphenol; m-Xylenol	105-67-9	Phenol, 2,4-dimethyl-	8040 8270	5 10
Dimethyl phthalate	131-11-3	1,2-Benzenedicarboxylic acid, dimethyl ester	8060 8270	5 10
m-Dinitrobenzene	99-65-0	Benzene, 1,3-dinitro-	8270	20
4, 6-Dinitro-o-cresol 4, 6-Dinitro-2-methylphenol	534-52-1	Phenol, 2-methyl-4,6-dinitro	8040 8270	150 50
2, 4-Dinitrophenol	51-28-5	Phenol, 2,4-dinitro-	8040 8270	150 50
2, 4-Dinitrotoluene	121-14-2	Benzene, 1-methyl-2,4-dinitro-	8090 8270	0.2 10
2, 6-Dinitrotoluene	606-20-2	Benzene, 2-methyl-1,3-dinitro-	8090 8270	0.1 10
Dinoseb; DNBP; 2-sec-Butyl-4,6-dinitrophenol	88-85-7	Phenol, 2-(1-methylpropyl)-4,6-dinitro-	8150 8270	1 20
Di-n-octyl phthalate	117-84-0	1,2-Benzenedicarboxylic acid, dioctyl ester	8060 8270	30 10
Diphenylamine	122-39-4	Benzenamine, N-phenyl-	8270	10
Disulfoton	298-04-4	Phosphorodithioic acid, 0,0-diethyl S-[2-(ethylthio)ethyl] ester	8140 8141 8270	2 0.5 10
Endosulfan I	959-98-8	6,9-Methano-2,4,3-benzodioxathiepin, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide	8080 8270	0.1 20
Endosulfan II	33213-65-9	6,9-Methano-2,4,3-benzodioxathiepin, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide, (3a,5aa,6b,9b,9aa)-	8080 8270	0.05 20
Endosulfan sulfate	1031-07-8	6,9-Methano-2,4,3-benzodioxathiepin, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-3-dioxide	8080 8270	0.5 10
Endrin	72-20-8	2,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aa,2b,2ab,3a,6a,6ab,7b,7aa)-	8080 8270	0.1 20
Endrin aldehyde	7421-93-4	1,2,4-Methenocyclopenta[cd]pentalene-5-carboxaldehyde,2,2a,3,3,4,7-hexachlorodecahydro-, (1a,2b,2ab,4b,4ab,5b,6ab,6bb,7r*)-	8080 8270	0.2 10
Ethylbenzene	100-41-4	Benzene, ethyl-	8020 8221 8260	2 0.05 5

Appendix II of Part 258

Common Name	CAS RN	Chemical Abstracts Service Index Name	Suggested methods	PQL (µg/L)
Ethyl methacrylate	97-63-2	2-Propenoic acid, 2-methyl-, ethyl ester	8015 8260 8270	5 10 10
Ethyl methanesulfonate	62-50-0	Methanesulfonic acid, ethyl ester	8270	20
Famphur	52-85-7	Phosphorothioic acid, 0-[4-[(dimethylamino)sulfonyl]phenyl]0,0-dimethyl ester	8270	20
Fluoranthene	206-44-0	Fluoranthene	8100 8270	200 10
Fluorene	86-73-7	9H-Fluorene	8100 8270	200 10
Heptachlor	76-44-8	4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-	8080 8270	0.05 10
Heptachlor epoxide	1024-57-3	2,5-Methano-2H-indeno[1,2-b]oxirene, 2,3,4,5,6,7,7-heptachloro-1a,1b,5,5a,6,6a-hexahydro-, (1aa,1bb,2a,5a,5ab,6b,6aa)	8080 8270	1 10
Hexachlorobenzene	118-74-1	Benzene, hexachloro-	8120 8270	0.5 10
Hexachlorobutadiene	87-68-3	1,3-Butadiene, 1,1,2,3,4,4-hexachloro-	8021 8120 8260 8270	0.05 5 10 10
Hexachlorocyclopentadiene	77-47-4	1,3-Cyclopentadiene, 1,2,3,4,5,5-hexachloro-	8120 8270	5 10
Hexachloroethane	67-72-1	Ethane, hexachloro-	8120 8260 8270	0.5 10 10
Hexachloropropene	1888-71-7	1-Propene, 1,1,2,3,3,3-hexachloro-	8270	10
2-Hexanone; Methyl butyl ketone	591-78-6	2-Hexanone	8260	50
Indeno (1, 2, 3-cd) pyrene	193-39-5	Indeno(1,2,3-cd)pyrene	8100 8270	200 10
Isobutyl alcohol	78-83-1	1-Propanol, 2-methyl-	8015 8240	50 100
Isodrin	465-73-6	1,4,5,8-Dimethanonaphthalene,1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a hexahydro-(1a,4a,4ab,5b,8b,8ab)-	8270 8260	20 10
Isophorone	78-59-1	2-Cyclohexen-1-one, 3,5,5-trimethyl-	8090 8270	60 10
Isosafrole	120-58-1	1,3-Benzodioxole, 5-(1-propenyl)-	8270	10

Appendix II of Part 258

Common Name	CAS RN	Chemical Abstracts Service Index Name	Suggested methods	PQL (µg/L)
Kepone	143-50-0	1,3,4-Metheno-2H-cyclobuta[cd]pentalen-2-one,1,1a,3,3a,4,5,5,5a,5b,6-decachlorooctahydro-	8270	20
Lead	(Total)	Lead	6010 7420 7421	400 1000 10
Mercury	(Total)	Mercury	7470	2
Methacrylonitrile	126-98-7	2-Propenenitrile, 2-methyl-	8015 8260	5 100
Methapyrilene	91-80-5	1,2-Ethanediamine, N,N-dimethyl-N^1-2-pyridinyl-N1/2-thienyl-methyl)-	8270	100
Methoxychlor	72-43-5	Benzene,1,1^1-(2,2,2,trichloroethylidene)bis[4-methoxy-	8080 8270	2 10
Methyl bromide; Bromomethane	74-83-9	Methane, bromo-	8010 8021	20 10
Methyl chloride; Chloromethane	74-87-3	Methane, chloro-	8010 8021	1 0.3
3-Methylcholanthrene	56-49-5	Benz[j]aceanthrylene, 1,2-dihydro-3-methyl-	8270	10
Methyl ethyl ketone; MEK; 2-Butanone	78-93-3	2-Butanone	8015 8260	10 100
Methyl iodide; Iodomethane	74-88-4	Methane, iodo-	8010 8260	40 10
Methyl methacrylate	80-62-6	2-Propenoic acid, 2-methyl-, methyl ester	8015 8260	2 30
Methyl methanesulfonate	66-27-3	Methanesulfonic acid, methyl ester	8270	10
2-Methylnaphthalene	91-57-6	Naphthalene, 2-methyl-	8270	10
Methyl parathion; Parathion methyl	298-00-0	Phosphorothioic acid, 0,0-dimethyl 0-(4-nitrophenyl) ester	8140 8141 8270	0.5 1 10
4-Methyl-2-pentanone; Methyl isobutyl ketone	108-10-1	2-Pentanone, 4-methyl-	8015 8260	5 100
Methylene bromide; Dibromomethane	74-95-3	Methane, dibromo-	8010 8021 8260	15 20 10
Methylene chloride; Dichloromethane	75-09-2	Methane, dichloro-	8010 8021 8260	5 0.2 10
Naphthalene	91-20-3	Naphthalene	8021 8100 8260 8270	0.5 200 5 10

Appendix II of Part 258

Common Name	CAS RN	Chemical Abstracts Service Index Name	Suggested methods	PQL (µg/L)
1, 4-Naphthoquinone	130-15-4	1,4-Naphthalenedione	8270	10
1-Naphthylamine	134-32-7	1-Naphthalenamine	8270	10
2-Naphthylamine	91-59-8	2-Naphthalenamine	8270	10
Nickel	(Total)	Nickel	6010 7520	150 400
o-Nitroaniline; 2-Nitroaniline	88-74-4	Benzenamine, 2-nitro-	8270	50
m-Nitroaniline; 3-Nitroanile	99-09-2	Benzenamine, 3-nitro-	8270	50
p-Nitroaniline; 4-Nitroaniline	100-01-6	Benzenamine, 4-nitro-	8270	20
Nitrobenzene	98-95-3	Benzene, nitro-	8090 8270	40 10
o-Nitrophenol; 2-Nitrophenol	88-75-5	Phenol, 2-nitro-	8040 8270	5 10
p-Nitrophenol; 4-Nitrophenol	100-02-7	Phenol, 4-nitro-	8040 8270	10 50
N-Nitrosodi-n-butylamine	924-16-3	1-Butanamine, N-butyl-N-nitroso-	8270	10
N-Nitrosodiethylamine	55-18-5	Ethanamine, N-ethyl-N-nitroso-	8270	20
N-Nitrosodimethylamine	62-75-9	Methanamine, N-methyl-N-nitroso-	8070	2
N-Nitrosodiphenylamine	86-30-6	Benzenamine, N-nitroso-N-phenyl-	8070	5
N-Nitrosodipropylamine; N-Nitroso-N-dipropylamine; Di-n-pro-pylnitrosamine	621-64-7	1-Propanamine, N-nitroso-N-propyl-	8070	10
N-Nitrosomethylethalamine	10595-95-6	Ethanamine, N-methyl-N-nitroso-	8270	10
N-Nitrosopiperidine	100-75-4	Piperidine, 1-nitroso-	8270	20
N-Nitrosopyrrolidine	930-55-2	Pyrrolidine, 1-nitroso-	8270	40
5-Nitro-o-toluidine	99-55-8	Benzenamine, 2-methyl-5-nitro-	8270	10
Parathion	56-38-2	Phosphorothioic acid, 0,0-diethyl 0-(4-nitrophenyl) ester	8141 8270	0.5 10
Pentachlorobenzene	608-93-5	Benzene, pentachloro-	8270	10
Pentachloronitrobenzene	82-68-8	Benzene, pentachloronitro-	8270	20
Pentachlorophenol	87-86-5	Phenol, pentachloro-	8040 8270	5 50
Phenacetin	62-44-2	Acetamide, N-(4-ethoxyphenl)	8270	20
Phenanthrene	85-01-8	Phenanthrene	8100 8270	200 10
Phenol	108-95-2	Phenol	8040	1
p-Phenylenediamine	106-50-3	1,4-Benzenediamine	8270	10

Appendix II of Part 258

Common Name	CAS RN	Chemical Abstracts Service Index Name	Suggested methods	PQL (µg/L)
Phorate	298-02-2	Phosphorodithioic acid, 0,0-diethyl S-[(ethylthio)methyl] ester	8140 8141 8270	2 0.5 10
Polychlorinated biphenyls; PCBs; Aroclors	See Note 9	1,1[1]-Biphenyl, chloro derivatives	8080 8270	50 200
Pronamide	23950-58-5	Benzamide, 3,5-dichloro-N-(1,1-dimethyl-2-propynyl)-	8270	10
Propionitrile; Ethyl cyanide	107-12-0	Propanenitrile	8015 8260	60 150
Pyrene	129-00-0	Pyrene	8100 8270	200 10
Safrole	94-59-7	1,3-Benzodioxole, 5-(2-propenyl)-	8270	10
Selenium	(Total)	Selenium	6010 7740 7741	750 20 20
Silver	(Total)	Silver	6010 7760 7761	70 100 10
Silvex; 2, 4, 5-TP	93-72-1	Propanoic acid, 2-(2,4,5-trichlorophenoxyl)-	8150	2
Styrene	100-42-5	Benzene, ethenyl-	8020 8021 8260	1 0.1 10
Sulfide	18496-25-8	Sulfide	9030	4000
2, 4, 5-T; 2, 4, 5-Trichlorophenoxyacetic acid	93-76-5	Acetic acid, (2,3,5-trichlorophenoxy)-	8150	2
1, 2, 4, 5-Tetrachlorobenzene	95-94-3	Benzene, 1,2,4,5-tetrachloro-	8270	10
1, 1, 1, 2-Tetrachloroethane	630-20-6	Ethane, 1,1,1,2-tetrachloro-	8010 8021 8260	5 0.05 5
1, 1, 2, 2-Tetrachloroethane	79-34-5	Ethane, 1,1,2,2-tetrachloro-	8010 8021 8260	0.5 0.1 5
Tetrachloroethylene; Tetrachloroethene; Perchloroethylene	127-18-4	Ethene, tetrachloro-	8010 8021 8260	0.5 0.5 5
2, 3, 4, 6-Tetrachlorophenol	58-90-2	Phenol, 2,3,4,6-tetrachloro-	8270	10
Thallium	(Total)	Thallium	6010 7840 7841	400 1000 10
Tin	(Total)	Tin	6010	40
Toluene	108-88-3	Benzene, methyl-	8020 8021 8260	2 0.1 5

Appendix II of Part 258

Common Name	CAS RN	Chemical Abstracts Service Index Name	Suggested methods	PQL (µg/L)
o-Toluidine	95-53-4	Benzenamine, 2-methyl-	8270	10
Toxaphene	See Note 10	Toxaphene	8080	2
1, 2, 4-Trichlorobenzene	120-82-1	Benzene, 1,2,4-trichloro-	8021 8120 8260 8270	0.3 0.5 10 10
1, 1, 1-Trichloroethane; Methylchloroform	71-55-6	Ethane, 1,1,1-trichloro-	8010 8021 8260	0.3 0.3 5
1, 1, 2-Trichloroethane	79-00-5	Ethane, 1,1,2-trichloro-	8010 8260	0.2 5
Trichloroethylene; Trichloroethene	79-01-6	Ethene, trichloro-	8010 8021 8260	1 0.2 5
Trichlorofluoromethane; CFC-11	75-69-4	Methane, trichlorofluoro-	8010 8021 8260	10 0.3 5
2, 4, 5-Trichlorophenol	95-95-4	Phenol, 2,4,5-trichloro-	8270	10
2, 4, 6-Trichlorophenol	88-06-2	Phenol, 2,4,6-trichloro-	8040 8270	5 10
1, 2, 3-Trichloropropane	96-18-4	Propane, 1,2,3-trichloro-	8010 8021 8260	10 5 15
0, 0, 0-Triethyl phosphorothioate	126-68-1	Phosphorothioic acid, 0,0,0-triethylester	8270	10
sym-Trinitrobenzene	99-35-4	Benzene, 1,3,5-trinitro-	8270	10
Vanadium	(Total)	Vanadium	6010 7910 7911	80 2000 40
Vinyl acetate	108-05-4	Acetic acid, ethenyl ester	8260	50
Vinyl chloride; Chloroethene	75-01-4	Ethene, chloro-	8010 8021 8260	2 0.4 10
Xylene (total)	See Note 11	Benzene, dimethyl-	8020 8021 8260	5 0.2 5
Zinc	(Total)	Zinc	6010 7950 7951	20 50 0.5

Appendix II of Part 258

Notes:

1 The regulatory requirements pertain only to the list of substances; the right hand columns (Methods and PQL) are given for informational purposes only. See also footnotes 5 and 6.

2 Common names are those widely used in government regulations, scientific publications, and commerce; synonyms exist for many chemicals.

3 Chemical Abstracts Service registry number. Where "Total" is entered, all species in the ground water that contain this element are included.

4 CAS index are those used in the 9th Collective Index.

5 Suggested Methods refer to analytical procedure numbers used in EPA Report SW-846 "Test Methods for Evaluating Solid Waste", third edition, November 1986, as revised, December 1987. Analytical details can be found in SW-846 and in documentation on file at the agency. CAUTION: The methods listed are representative SW-846 procedures and may not always be the most suitable method(s) for monitoring an analyte under the regulations.

6 Practical Quantitation Limits (PQLs) are the lowest concentrations of analytes in ground waters that can be reliably determined within specified limits of precision and accuracy by the indicated methods under routine laboratory operating conditions. The PQLs listed are generally stated to one significant figure. PQLs are based on 5 ml samples for volatile organics and 1 L samples for semivolatile organics. CAUTION: The PQL valves in many cases are based only on a general estimate for the method and not on a determination for individual compounds; PQLs are not a part of the regulation.

7 This substance is often called Bis(2-chloroisopropyl) ether, the name Chemical Abstracts Service applies to its noncommercial isomer, Propane, 2,2"-o.xybis [2-chloro- (CAS RN 39638-32-9)].

8 Chlordane: This entry includes alpha-chlordane (CAS RN 5103-71-9), beta-chlordane (CAS RN 5103-74-2), gammachlordane (CAS RN 5566-34-7), and constituents of chlordane (CAS RN 57-74-9 and CAS RN 12789-03-6). PQL shown is for technical chlordane. PQLs of specific isomers are about 20 µg/L by method 8270.

9 Polychlorinated biphenyls (CAS RN 1336-36-3); this category contains congener chemicals, including constituents of Aroclor 1016 (CAS RN 12674-11-2), Aroclor 1221 (CAS RN 11104-28-2), Aroclor 1232 (CAS RN 11141-16-5), Aroclor 1242 (CAS RN 53469-21-9), Aroclor 1248 (CAS RN 12672-29-6), Aroclor 1254 (CAS RN 11097-69-1), and Aroclor 1260 (CAS RN 11096-82-5). The PQL shown is an average for PCB congeners.

10 Toxaphene: This entry includes congener chemicals contained in technical toxaphene (CAS RN 8001-35-2), i.e., chlorinated camphene.

11 Xylene (total): This entry includes o-xylene (CAS RN 96-47-6), m-xylene (CAS RN 108-38-3), p-xylene (CAS RN 106-42-3), and unspecified xylenes (dimethylbenzenes) (CAS RN 1330-20-7). PQLs for method 8021 are 0.2 for o-xylene and 0.1 for m- or p-xylene. The PQL for m-xylene is 2.0 µg/L by method 8020 or 8260.