M-223

Formerly Utilized Sites Remedial Action Program (FUSRAP)

# ADMINISTRATIVE RECORD

for Maywood, New Jersey



U.S. Department of Energy

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То Distribution 7440/118/137/138/144 File No. Subject New Jersey Groundwater Date March 5, 1993 Quality Standards J. D. Mazzoni (M From ESH&WM 0f Copies to G. R. Galen Oak Ridge At. Ext. 4-3643 T. E. Morris E. A. Rudek

Attached for your review and concurrence is an Environmental Regulation Notice (ERN) on the New Jersey Groundwater Quality Standards, New Jersey Administrative Code (N.J.A.C.) Title 7: Chapter 9-6.

This regulation establishes policy for the State of New Jersey to restore, enhance and maintain the chemical, physical and biological integrity of its waters and to protect human health, aquatic life, and scenic and ecological values.

This regulation is applicable to FUSRAP wherever groundwater samples are being analyzed for the chemical constituents listed in N.J.A.C. 7: 9-6.

Please sign the attached concurrence to verify that you have reviewed the ERN; the notice will then be distributed via the Project Document Control Center to FUSRAP Departments for their information.

If you have any questions, please contact me at 574-3643.

JDM:bk:IO\_0667

Attachments: (1) Concurrence page (2) ERN on New Jersey Groundwater Quality Standards

Distribution:

- S. D. Liedle M. E. Redmon N. C. Ring W. K. Barry
- K. Skinner
- T O Maga
- J. C. McCague
- L. S. Curtis



## **CONCURRENCE**

Your signature is a verification that you have received the Environmental Regulation Notice on the New Jersey Groundwater Quality Standards and concur with its applicability to FUSRAP.

Lev) EC Supervisor

 $\infty$ ESH&WM Manager

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Project Manger - New Jersey e <u>3/11/93</u> Program Manager

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# **Environmental Regulation Notice**

NEW JERSEY GROUNDWATER QUALITY STANDARDS

FINAL RULE - N.J.A.C. Title 7: Chapter 9-6

## INTRODUCTION

This regulation establishes groundwater quality standards for groundwater discharges that cause or may cause pollutants to enter the groundwaters of the State of New Jersey. This regulation also establishes three major classes of groundwater and their designated uses. The groundwater quality standards will establish the basis for cleanup standards in the State of New Jersey to ensure consistency for cleanup activities from site to site.

> EFFECTIVE DATE FEBRUARY 1, 1993

### **REGULATION SUMMARY**

The key provisions of this regulation are as follows:

Groundwater Classification System and Designated Uses

New Jersey groundwater shall be classified according to hydrogeological characteristics and uses. All classes of groundwater have both primary and secondary designated uses. These classification are as follows:

# Class I: Groundwater of Special Ecological Significance

The primary designated use of Class I groundwater shall be groundwater which supports special ecological resources. The secondary designated use is for potable water, agricultural water and industrial water. Class I groundwater must remain at natural concentration levels for any listed constituent. Class I groundwater is further classified as Class I-A, Exceptional Ecological Areas; Class I-PL, Pinelands; Class I-PL (Preservation Area); and Class I-PL (Protection Area). Designated uses of the above mentioned classes are defined in the attached regulation. The attached regulation also lists a number of Class I-A groundwater areas.

## Class II: Groundwater for Potable Water Supply

The primary designated use of Class II groundwater shall be for potable water following conventional water supply treatment. This is the only classification to which chemical constituent standards were established. Class II groundwater is further classified as Class II-A which includes all groundwaters of the State of

## FUSRAP ENVIRONMENTAL REGULATION NOTICE

## Page 2 of 3

New Jersey, except Classes I, II-B, or III. Class II groundwater also Includes Class II-B groundwater which address potential supplies that have a history of contamination or do not provide the State with quantities needed for potable water supply.

## Class III: Groundwater With Uses Other Than Potable Water Supply

Class III groundwaters are not suitable for potable water because of their natural water quality (e.g., saline groundwater). This groundwater includes geologic formations or units that are aquitards or have a natural quality which is unsuitable for potable water. Class III groundwater is classified on a case-by-case basis. Class III groundwater is further classified as Class III-A and Class III-B and is described in detail in the attached regulation.

Exceptions to the classification system are obtained only with the approval of the New Jersey Department of Environmental Protection and Energy (NJDEPE). In Classification Exception Areas, it shall be the responsibility of the NJDEPE to define appropriate uses and water quality standards.

## Groundwater Quality Criteria

Groundwater quality criteria have been established for the classes of groundwater mentioned above. These criteria are included in the attached regulation. The criteria are based on whether the water is of the natural quality for each constituent, background water quality, the most stringent criteria for adjacent groundwaters, or on an area-by-area basis in response to a case-by-case need. Groundwater quality criteria are described in detail in the attached regulation.

## Groundwater Quality Standards

Groundwater quality standards have been established for Class II groundwater criteria and consist of the chemical constituents listed in the attached regulation. When no specific standard exists for a synthetic organic chemical, the interim generic criteria listed in Table 2 of the attached regulation shall be used until an interim specific criterion has been established by the NJDEPE. The standards for radionuclides in groundwater have not changed, and can be found in NJDEPE's regulations of the federal Safe Drinking Water Act (N.J.A.C 7: 10-1 et seq.).

## Practical Quantitation Levels

Practical Quantitation Levels (PQLs) have been established as a new standard of measurement. The PQLs shall be used to monitor sites and to look for contaminants. There may be some cases where the water quality standard is lower than the PQL. If this is the case, compliance with the PQL is only required because detection below the PQL may not be possible.

## IMPLICATIONS FOR FUSRAP

This regulation is applicable to the Department of Energy (DOE) Formerly Utilized Sites Remedial Action Program (FUSRAP) sites where groundwater monitoring is being performed.

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## FUSRAP ENVIRONMENTAL REGULATION NOTICE

The following recommendations are made:

- 1. FUSRAP sites should be examined for classification under the groundwater classification system listed in section 9-6.5 of the attached regulation.
- 2. For FUSRAP sites where the groundwater is analyzed for chemical constituents, the State's groundwater quality standards are applicable requirements (ARARs) and future monitoring data should be evaluated against the new standards to determine whether FUSRAP sites are meeting the standards of this regulation.

Since the site is being remediated, exceeding a groundwater quality standard will not pose any regulatory violations at this time. However, since these standards will eventually be used to establish groundwater cleanup levels at contaminated sites, it is in the best interest of the project to begin considering corrective action alternatives for those constituents standards that are currently being exceeded.

The Site Environmental Reports should address the groundwater classification for each site and use the groundwater quality standards to evaluate collected data.

REFERENCES New Jersey Register, Monday, February 1, 1993

Author: J. D. Mazzoni Date: 3/2/93

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Dimethyl phthalate, Indeno(1,2,3-cd) pyrene and Silver. The criteria for these parameters will be changed based on the recent toxicological references. The revised criteria for these parameters will be reproposed in a separate rulemaking.

43. The practical quantitation level for chloride was changed from 3000 to 2000 in Table 1. The listing of 3000 was a typographical error in the proposed Table 3, but it was correctly listed as 2000 in the Basis and Background Document which accompanied the proposal.

44. Corrosivity was removed from list of specific ground water quality criteria in Table 1 since the parameters by which corrosivity is measured, such as pH and hardness, are included elsewhere in Table 1.

45. The minimum level for hardness was eliminated from Table 1 since there is no need to regulate the minimum concentration of this parameter.

46. The footnote regarding the Chemical Abstracts Registration Number for chromium was found to be in error and has therefore been eliminated.

47. A footnote has been added to Table 1 to clarify the mean of (Total) as it is applied to metals parameters.

48. A footnote has been added to Table 1 to clarify the meaning of "prevailing safe Drinking Water Act Regulations (NJ.A.C. 7:10-1 et seq.)" as it is applied to microbiological criteria for ground water.

49. Language has been added to the explanatory note on Table 2 which clarifies the determination of carcinogenicity of various synthetic organic chemicals.

Full text of the adoption follows (additions to proposal indicated in boldface with asterisks \*thus\*; deletions from proposal indicated in brackets with asterisks \*[thus]\*):

#### SUBCHAPTER 6. GROUND WATER QUALITY STANDARDS

#### 7:9-6.1 Scope of subchapter

(a) Unless otherwise provided by statute, the following shall constitute the rules of the Department of Environmental Protection and Energy concerning ground water classification, designated uses of ground water, and ground water quality criteria and constituent standards, pursuant to the Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) and the Water Quality Planning Act (N.J.S.A. 58:11A-1 et seq.).

(b) This subchapter shall provide the basis for protection of ambient ground water quality, through the establishment of constituent standards for ground water pollutants. These constituent standards are applicable to the development of: ground water protection standards pursuant to the New Jersey Pollutant Discharge Elimination System (NJPDES; N.J.A.C. 7:14A); ground water cleanup standards and compliance levels beyond the boundaries of a contaminated site pursuant to applicable regulatory programs; and other requirements and regulatory actions applicable to discharges that cause or may cause pollutants to enter the ground waters of the State, including nonpoint and diffuse sources regulated by the Department. Other relevant laws through which the Ground Water Quality Standards may be applied include, but are not limited to, the Spill Compensation and Control Act (N.J.S.A. 58:10-23.11 et seq.), the Solid Waste Management Act (N.J.S.A. 13:1E-1 et seq.), the Environmental Cleanup Responsibility Act (N.J.S.A. 13:1K-6 et seq.), the Storage of Hazardous Substances Act (N.J.S.A. 58:10A-21 et seq.), the Realty Improvement \*Sewerage and Facilities\* Act (N.J.S.A. 58:11-23 et seq.), and the Pesticide Control Act of 1971 (NJ.S.A. 13:1F-1 et seq.).

\*(c) This subchapter shall be the Department's primary basis for setting numerical criteria for limits on discharges to ground water and standards for ground water cleanups.\*

#### 7:9-6.2 Policies

(a) It is the policy of this State to restore, enhance and maintain the chemical, physical and biological integrity of its waters, to protect public health, to safeguard fish and aquatic life and scenic and ecological values<sup>\*</sup>,<sup>\*</sup> and to enhance the domestic, municipal, recreational, industrial and other uses of water.

(b) Discharges to ground water that subsequently discharges into surface waters shall not be permitted \*by the applicable regulatory program\* if such discharges would cause a contravention of surface water quality standards applicable to those surface waters. That is, those discharges must "[meet]" \*achieve compliance with\* both these standards and the surface water quality standards (N.J.A.C. 7:9-4).

(c) When existing ground water quality does not meet the constituent standards determined pursuant to N.J.A.C. 7:9-6.7, 6.8 and 6.9(a) and (b), due to human activities, the Department shall, after a review of relevant and available scientific and technical data, determine in the context of the applicable regulatory programs the management actions necessary (including, but not limited to, the requirement of remedial actions) to restore or enhance ground water quality pursuant to the policies of this subchapter.

(d) The Department shall not approve discharges or activities posing a significant risk of discharges, within the jurisdiction of and subject to regulation by the Pinelands Commission, that would contravene the rules of the Pinelands Commission with regard to the protection of ground water or surface water quality.

#### 7:9-6.3 Construction

This subchapter shall be liberally construed to permit the Department to implement its statutory functions.

#### 7:9-6.4 Definitions

The following words and terms, when used in this subchapter, shall have the following meanings:

"ACL" means alternative concentration limit.

"Agricultural water" means water used for crop production, livestock, horticulture and silviculture.

"Alternative concentration limit" (ACL) means a constituent standard or narrative description of actions, discharge controls and water quality requirements that is less stringent than the ground water quality requirements of N.J.A.C. 7:9-6.7, 6.8 and 6.9(a) and (b), due to a Departmental determination pursuant to NJPDES \*regulations\* (N.J.A.C. 7:14\*A\*-6.15(e)2). In order to approve an ACL, the Department must find that the relevant constituent standard(s) cannot be achieved through technologically practicable means.

"Antidegradation" means a policy to ensure that existing ground water quality (that currently is of higher quality than the water quality criteria in N.J.A.C. 7:9-6.7) is not degraded to the criteria by discharges, but rather remains at a better quality ranging from natural quality at the most stringent, to a limited allowance for degradation at the least stringent. "Nondegradation" is the most stringent case of the antidegradation policy. It prohibits any degradation of ground water quality below existing background water quality by a discharge.

"Antidegradation limit" is the numerical expression (in terms of a concentration or level of a constituent in ground water) of the antidegradation policy.

\*Applicable regulatory program" means any of the Department's programs which implement the regulations issued pursuant to the statutes cited in N.J.A.C. 7:9-6.1(b) or in any other regulations that specifically cite this subchapter.\*

"Aquifer" means a saturated geologic formation(s) or unit(s) which is sufficiently permeable to transmit water to a pumping well in usable and economic quantities. The upper level of an unconfined aquifer may vary over time; "aquifer" applies to the full saturated zone at any time.

"Aquitard" means a hydrogeologic confining unit(s) that exhibits limited permeability, bounding one or more aquifers, that does not readily yield water to wells or springs, but may serve as a storage unit for ground water and may release this water to adjacent ground water units or surface waters. Such confining units are "further" defined and listed in N.J.A.C. 7:9-6.5(f)1 or may be established through reclassification under N.J.A.C. 7:9-6.10.

"Background water quality" means the "[existing]" concentration of constituents in ground water which is determined to exist directly upgradient of a discharge but not influenced by the discharge"[, as determined using monitoring data as required by the Department]" \*, or is otherwise representative of such concentration of constituents as determined using methods and analyses consistent with the requirements of N.J.A.C. 7:14A-6.15(h)7\*.

(CITE 25 N.J.R. 528)

### ADOPTIONS

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"Classification area" means the geographic extent (lateral and vertical) of a geologic formation(s) or unit(s) wherein ground water is classified for designated uses, as described in N.J.A.C 7:9-6.5.

"Classification exception area" means an area within which one or more constituent standards and designated uses are suspended in accordance with N.J.A.C. 7:9-6.6.

"Constituent" means a specific chemical substance (that is, waste, element or compound) or water quality parameter (for example, temperature, odor, color).

"Constituent standard" means the required \*[minimum or]\* maximum level or concentration \*or the required range of levels or concentrations\* (as applicable) for a constituent in a classification area, as established in N.J.A.C. 7:9-6.7, 6.8 and 6.9(a) and (b). The constituent standards shall be the basis for the Department's regulation of ground water quality effects of past, present or future discharges to ground water or the land surface, pursuant to applicable authorities as defined in N.J.A.C. 7:9-6.1.

\*"Conventional water supply treatment" means the chemical and physical treatment of ground water supplies for microbiological contaminants and undesirable naturally occurring substances resulting in treated water that meets all the primary and secondary standards for those constituents stipulated by the New Jersey Safe Drinking Water Act regulations (N.J.A.C. 7:10-12).\*

"Criteria" means \*ground\* water quality criteria.

"Department" means the New Jersey Department of Environmental Protection and Energy.

"Designated use" means a present or potential use of ground water which is to be maintained, restored and enhanced within a ground water classification area, as determined by N.J.A.C. 7:9-6.5. Designated uses may include any human withdrawal of ground water (for example, for potable, agricultural and industrial water), the discharge of ground water to surface waters of the State which support human use or ecological systems, or the direct support of ecological systems.

"Discharge" means an intentional or unintentional action or omission resulting in the releasing, spilling, leaking, pumping, pouring, emitting, emptying or dumping of a pollutant at any time into the waters of the State, onto land or into wells from which it might flow or drain into said waters, or into waters or onto lands outside the jurisdiction of the State, which pollutant enters the waters of the State. "Discharge" includes, without limitation, the release of any pollutant into a municipal treatment works. "[The flow of pollutants to ground water includes, without limitation, flow through the unsaturated zone, and the movement of pollutants in ground water into new volumes of the saturated zone.]\*

"Discharger" means any person, corporation, municipality, government agency or authority or other legal entity, who causes", induces]\* or allows a discharge, either through action or omission.

\*"Extensive exceedance", as used in N.J.A.C. 7:9-6.10, means a condition where ground water quality in an area exceeds the criteria of N.J.A.C. 7:9-6.7 for one or more contaminants over the vast majority of the subject area for such contaminant(s) and that such exceedances are not attributable to the past or present discharges of a single discharger or any group of active NJPDES permitted discharges.\*

"FW1" means those surface fresh waters defined as such in the Surface Water Quality Standards, N.J.A.C. 7:9-4, and shown on maps maintained by the Department.

"Ground water" means the portion of water beneath the land surface that is within the "saturated" zone "[of saturation (below the water table) where the pore spaces are filled with water]\*.

"Hazardous pollutant" means:

1. Any toxic pollutant;

2. Any substance regulated as a pesticide under the Federal Insecticide, Fungicide and Rodenticide Act, Pub.L.92-516 (7 U.S.C. \$136 et seq.);

3. Any substance the use or manufacture of which is prohibited under the Federal Toxic Substances Control Act, Pub.L.94-469 (15 U.S.C. §2601 et seq.);

4. Any substance identified as a known carcinogen by the International Agency for Reseach on Cancer; 5. Any hazardous waste as designated pursuant to section 3 of P.L. 1981, c.279 (N.J.S.A. 13:1E-51) or the "Resource Conservation and Recovery Act," Pub.L.94-580 (42 U.S.C. §5901 et seq.); or

6. Any hazardous substance as defined pursuant to section 3 of P.L. 1976, c.141 (N.J.S.A. 58:10-23.11b).

"Industrial water" means water used for processing, heating or cooling in a manufacturing process.

"Natural Area" means an area of land or water, designated by the Department under N.J.A.C. 7:2-11 and shown on maps maintained by the Office of Natural Lands Management, Division of Parks and Forestry, of the Department, which is owned in fee simple or in which a conservation easement is held by the Department.

"Natural quality" means the concentration or level of constituents which occurs in ground water of a hydrologic unit without the influence of human activity, other than the effects of regional precipitation of air pollutants (for example, acid precipitation). The natural quality for SOCs is established as zero (0.0) except where the SOCs are the result of air transport from outside the State, enter the State from ground water transport of pollutants having their origins in other states, or are created entirely by natural processes. Where natural quality for other constituents is not ascertainable from generally acceptable scientific studies, the lowest concentrations known to exist within the same or a similar hydrologic unit and setting (that is, depth) within the classification area shall be used to represent the natural quality, provided, however, that for pH, corrosivity and hardness, the most representative concentration shall be used.

"NJPDES" means the New Jersey Pollutant Discharge Elimination System (N.J.A.C. 7:14A).

"NJPDES permit action" means a draft or final NJPDES permit, a permit equivalent, or a decision that a discharge is not to be regulated by NJPDES, as determined pursuant to the NJPDES regulations.

\*"Organoleptic effect" means an offensive taste, foul odor or other adverse aesthetic consequence caused by pollutants in a water supply and rendering the water supply unfit for potable use.\*

\*"PQL" means practical quantitation level.\*

"Pollutant" means any dredged spoil, solid waste, incinerator residue, sewage, garbage, refuse, oil, grease, sewage sludge, munitions, chemical wastes, biological materials, radioactive substance, thermal waste, wrecked or discarded equipment, rock, sand, cellar dirt, and industrial, municipal or agricultural or other residue discharged into the waters of the State. "Pollutant" includes both hazardous and nonhazardous pollutants. "Industrial, municipal or agricultural or other residue" specifically included, without limitation, constituents that are not considered wastes (that is, process chemicals) prior to discharge, but which are discharged and may or do degrade natural or existing ground water quality.

"Potable water" means water suitable for household consumption, primarily as drinking water, based upon human health, welfare and aesthetic considerations.

"Practical quantitation level" (PQL) means the lowest concentration of a constituent that can be reliably achieved among laboratories within specified limits of precision and accuracy during routine laboratory operating conditions. "Specified limits of precision and accuracy" are the criteria which have been included in applicable regulations **\*including**, but not limited to, those regulations listed at N.J.A.C. 7:9-6.9\* or are listed in the calibration specifications or quality control specifications of an analytical method.

\*"Saturated zone" means the zone in which all the subsurface voids in the rock or soil are filled with water.\*

"SOC" means Synthetic Organic Chemical.

"Soils" means any naturally occurring or man-made unconsolidated mineral and organic matter on the surface of the earth that has been subjected to and influenced by geologic and environmental factors. "Soils" also includes fill or overburden.

"Source water" means the supply source of water (for example, private wells, public water supply) to a discharger, where the source water becomes part of a discharge.

"Surface water" means water at or above the land's surface which is neither ground water nor contained within the unsaturated zone.

NEW JERSEY REGISTER, MONDAY, FEBRUARY 1, 1993

(CITE 25 N.J.R. 529)

#### ENVIRONMENTAL PROTECTION

"Synthetic organic chemicals" (SOCs) means any compounds that contain at least one carbon atom and that result from purposeful chemical synthesis, whether as products, by-products, or waste, or from the purposeful refinement of naturally occurring substances. Where a chemical substance is sometimes found in nature and sometimes synthesized, it shall be considered an SOC only to the extent or in the proportion produced or isolated by human activity. Naturally occurring organic chemicals in their natural location are not considered a pollutant pursuant to the Ground Water Quality Standards. \*An SOC may be considered to be in its natural location, if, by background sampling and modeling, it is shown that such SOC has migrated to that point from the place it naturally occurred.\*

\*"Technologically practicable means" means the best available treatment or remedial technology, from an engineering perspective; "best" means that technology which achieves the most stringent numerical values attainable for a constituent at a contaminated site or for a NJPDES-regulated discharge; "available" means fielddemonstrated technology although such technology need not be in common commercial use.\*

"Toxic pollutant" means any pollutant identified pursuant to the Federal Water Pollution Control Act Amendments of 1972 (Pub.L.92-500, 33 U.S.C. §1251 et seq.), or any pollutant or combination of pollutants, including disease causing agents, which after discharge and upon exposure, ingestion, inhalation or assimilation into any organism, either directly or indirectly by ingestion through \*[the]\* food chain\*s\*, will, on the basis of information available to the Department, cause death, disease, behavioral abnormalities, cancer, genetic mutations, physiological malfunctions, including malfunctions in reproduction, or physical deformation, in such organisms or their offspring.

"USEPA" means the United States Environmental Protection Agency.

"Unsaturated zone" (vadose zone) means the subsurface volume between the land's surface and the top of a saturated zone \*[(water table), where moisture does not fill all the pore spaces in the formation or soil]\*.

"Water quality criteria" means the designated levels or concentrations of constitutents that, when not exceeded, will not prohibit or significantly impair a designated use of water. Criteria may be "specific" (listed for each constituent in Table 1), "interim specific" (derived using a standard method, for constituents not listed in Table 1), or "interim generic" (as listed for carcinogenic and noncarcinogenic Synthetic Organic Compounds in Table 2).

"Waters of the State" means the ocean and its estuaries, all springs, streams and bodies of surface or ground water, whether natural or artificial, within the boundaries of this State or subject to its jurisdiction.

"Zone of Contribution" means the volume of a geologic formation or unit that directly contributes ground water to a pumping well over time, or a Well Head Protection Area as defined by the Department pursuant to the Federal Safe Drinking Water Act, Amendments of 1986.

#### 7:9-6.5 Ground water classification system and designated uses

(a) Ground water shall be classified according to the hydrogeologic characteristics of the ground water resource and the designated use(s) which are to be maintained, restored and enhanced within the classification area. Classifications shall be regional in nature and shall not reflect localized infringements on designated uses due to natural quality or pollution incidents. Ground water users should not assume that existing ground water quality everywhere meets the criteria for classification areas established herein, in view of the potential for variations in natural quality or for localized pollution caused by human activity. Additional uses may be made of ground water in any classification area, subject to applicable Department rules, but these uses are not directly protected through this subchapter.

(b) The Department shall preferentially protect the primary designated use for each classification area, and shall protect any secondary designated uses to the extent that such uses are viable using water of sufficient quality for the primary use and that the primary use is not impaired.

(c) <u>There shall be three major classes of ground water, as defined</u> in (d) <u>through (f) below. They are:</u>

Class I	Ground Water of Special Ecological Significance
Class II	Ground Water for Potable Water Supply
Class III	Ground Water With Uses Other Than Potable
	Water Supply

(d) The primary designated use for Class I ground water shall be the maintenance of special ecological resources supported by the ground water within the classification area. Secondary designated uses shall be potable water, agricultural water and industrial water to the extent that these uses are viable using water of natural quality and do not impair the primary use, such as by altering ground water quality.

1. Class I-A-Exceptional Ecological Areas: Class I-A ground water shall consist of all ground waters within those classification areas, \*listed at (d)liii below or\* designated by the Department through the reclassification procedure in N.J.A.C. 7:9-6.10, which satisfy either (d)li or ii below. In addition, ground waters within those areas listed in (d)liii below are classified as Class I-A ground waters, because the Department has determined that they satisfy the requirements of either (d)li or ii below. The Department may approve a Class I-A classification area if the ground water within that area:

i. Contributes to the transmittal of ground water to surface water in FW1 watersheds; and

(1) The area involved is under government ownership (fee simple or conservation easement); or

(2) Is owned by a private entity that petitions the Department for reclassification of the property to Class I-A pursuant to N.J.A.C. 7:9-6.10; or

ii. Contributes to the transmittal of ground water to the land surface or to surface water in areas of exceptional ecological value. Areas of exceptional ecological value satisfy the conditions described in (d)1ii(1), (2) or (3) below, and also satisfy the conditions described in both (d)1ii(4) and (5) below:

(1) Support threatened or endangered species as determined by the United States Department of the Interior pursuant to the Endangered Species Act<sup>\*</sup>, 16 U.S.C. 1531 et seq.,<sup>\*</sup> or by the Department pursuant to the Endangered and Nongame Species Conservation Act<sup>\*</sup>, N.J.S.A. 23:2A-1 et seq<sup>\*</sup>.

(2) Support biotic communities within Natural Areas.

(3) Serve other exceptional ecological values such as being a part of or supporting state, nationally or internationally rare, threatened or endangered habitats where there is a significant risk that ground water pollution would impair or imperil the ecological values.

(4) The quality and transmittal of ground water is essential to the survival or maintenance of the exceptional ecological resource contained within the classification area.

(5) The area involved is \*of sufficient size to provide meaningful control of ground water quality to protect the target resource, based upon the biotic resource and local hydrogeology and is\* under government ownership (fee simple or conservation easement), or is owned by a private entity that petitions the Department for reclassification of the property to Class I-A pursuant to NJ.A.C. 7:9-6.10.

iii. Ground water within the following areas are herein classified as Class I-A:

(1) Watersheds of FW1 surface waters;

(2) The following Natural Areas as designated by the Department pursuant to N.J.A.C. 7:2-11:

Absegami Natural Area Allamuchy Natural Area Batsto Natural Area Bearfort Mountain Natural Area Bear Swamp East Natural Area Black River Natural Area Cape May Point Natural Area

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#### ADOPTIONS

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Cedar Swamp Natural Area Cheesequake Natural Area Cook Natural Area Dryden Kuser Natural Area Dunnfield Creek Natural Area Farny Natural Area Hacklebarney Natural Area Island Beach Northern Natural Area Island Beach Southern Natural Area Ken Lockwood Gorge Natural Area Manahawkin Natural Area Oswego River Natural Area Parvin Natural Area Ramapo Lake Natural Area Rancocas Natural Area Sunfish Pond Natural Area Swimming River Natural Area Tillman Ravine Natural Area Troy Meadows Natural Area Washington Crossing Natural Area Wawayanda Hemlock Ravine Natural Area Wawayanda Swamp Natural Area Whittingham Natural Area

2. <u>Class I-PL—Pinelands</u>: The classification area for Class I-PL consists of all ground water in the Cohansey and Kirkwood Formations located within the pinelands area as designated by the Pinelands Protection Act, N.J.S.A. 13:18A-1 et seq. (as indicated in figure 1 in the Appendix, incorporated herein by reference), other than those ground water areas classified as Class I-A.

i. <u>Class I-PL (Preservation Area</u>): The primary designated use is the support and preservation of unique and significant ecological resources of the Pinelands, through the restoration, maintenance and preservation of ground water quality in its natural state. Secondary designated uses include compatible\*[, indigenous]\* agricultural \*uses in conformance with N.J.A.C. 7:50-6 et seq.\* and potable water uses.

ii. <u>Class I-PL (Protection Area)</u>: The primary designated use is the preservation of Pinelands plant and animal species and their habitats through the protection and maintenance of the essential characteristics of Pinelands ground water quality. Secondary designated uses include potable and agricultural water.

(e) <u>Class II ground waters have a designated use of the provision</u> of potable ground waters with conventional water supply treatment, either at their current water quality (Class II-A) or subsequent to enhancement or restoration of regional water quality so that the water will be of potable quality with conventional water supply treatment (Class II-B). Both existing and potential potable water uses are included in the designated use.

1. Class II-A shall consist of all ground water of the State, except for ground water designated in Classes I, II-B or III. The primary designated use for Class II-A ground water shall be potable water and conversion (through conventional \*water supply\* treatment, mixing or other similar technique) to potable water. Class II-A secondary designated uses include agricultural water and industrial water.

2. Specific Class II-B areas, designated uses and constituent standards will be established through rule or through reclassification pursuant to N.J.A.C. 7:9-6.10. The designated uses of Class II-B areas generally may include any reasonable use (other than potable use). Designated uses of Class II-B ground water shall not exacerbate existing ground water pollution or impede the ability to enhance or restore the quality of the ground water so that it will be potable or convertible to potable use with conventional \*water supply\* treatment, mixing or other similar techniques. Class II-B shall consist only of ground waters:

i. That exhibit extensive exceedance of one of more of the ground water quality criteria in N.J.A.C. 7:9-6.7(c) within the proposed Class II-B area, due to past discharges of ground water pollutants;

ii. Where restoration of the ground water, where polluted, \*[is technologically impracticable from an engineering perspective using

best available remedial technology]\* \*cannot be achieved using technologically practicable means\*;

iii. Where the conditions listed in (e)2(1) through (4) below exist within the proposed Class II-B area, and there is no indication in the projections of the Department, public water supply systems serving the area, or municipalities of the area that those conditions will cease to exist within the next 25 years:

(1) No public community water supply well or Zone of Contribution for such a well exists;

(2) Less than five percent of the potable water supply for the \*[overall]\* area \*subject to the petition\* is derived from ground water from within the \*proposed Class II-B\* area;

(3) Less than five percent of the potable water supply for any municipality (or portion thereof\*)\* within the Class II-B area\*[)]\* is derived from ground water from within the \*proposed Class II-B\* area; and

(4) No significant concentration of domestic water supply wells exists;

iv. Where no significant risk of pollution migration into Class I or II-A areas exists; \*[and]\*

v. Where a reliance on natural attenuation processes \*can be relied on over the vast majority of the area\* for the restoration of ground water quality \*for criteria identified pursuant to (e)2i above and\* does not pose a significant risk to public health\*, safety\* \*[or]\* \*and\* welfare \*[or ecological systems.]\*\*; and\*

\*vi. Where the reclassification requirements of N.J.A.C. 7:9-6.10 are met.\*

3. Class II-B Classification Areas-(Reserved)

(f) The Class III ground waters are not suitable for potable water due to natural hydrogeologic characteristics or natural water quality. Class III includes geologic formations or units that are aquitards or have a natural quality that is unsuitable for conversion to potable water (for example, saline ground water).

1. Class III-A ground water consists of \*ground water in\* those aquitards that are described below. The primary designated use for Class III-A ground water is the release or transmittal of ground water to adjacent classification areas and surface water, as relevant. Secondary designated uses in Class III-A include any reasonable uses. Class III-A ground water includes portions of the saturated zones (that meet the criteria below) of the Woodbury Formation, Merchantville Formation, Marshalltown Formation, Navesink Formation, Hornerstown Formation, aquitard formations of the Potomac-Raritan-Magothy aquifer system and the Kirkwood aquifer system, \*[and]\* portions of the glacial moraine and glacial lake deposits, \*and other geologic units having the characteristics of an aquitard,\* excepting Class I areas. These \*named\* aquitards (excluding glacial units) outcrop approximately in municipalities depicted in Figure 2 in the Appendix. \*[Aquitards included within Class III-A]\* \*Class III-A areas shall have the following characteristics<sup>\*</sup>:

i. Average at least 50 feet in thickness within the Class III-A area; ii. Have a typical hydraulic conductivity of approximately 0.1 ft/ day or less within the Class III-A area; and

iii. Have an areal extent within the Class III-A area of at least 100 acres.

\*2. Any interested party may provide evidence to the Department to demonstrate that an area meets the descriptive criteria of Class III-A. Upon review and verification of such evidence the Department may provide concurrence that the Class III-A classification applies to the area of interest.\*

\*[2.]\*\*3.\* Class III-B ground water consists of all geologic formations or units which contain ground water having natural \*concentrations\* or regional \*concentrations\* (through the action of salt-water intrusion) \*[concentrations]\* exceeding 3,000 mg/l Chloride or 5,000 mg/l Total Dissolved Solids, or where the natural quality of ground water is otherwise not suitable for conversion to potable uses. The designated uses for Class III-B ground water consist of any reasonable uses for such ground water other than potable water, using water of existing quality. The classification area includes ground water in parts of formations as indicated in Figures 3 through 5 in the Appendix. \*4. Class III-B areas are subject to field verification wherever necessary. Areas not indicated on the maps may also qualify as Class III-B, subject to Department concurrence through an applicable regulatory program.\* The precise borders of Class III-B areas shall be confirmed using site specific data in the context of applicable regulatory programs. \*Any interested party may provide evidence to the Department to demonstrate that an area meets the descriptive criteria of Class III-B. Upon review and verification of such evidence the Department may provide concurrence that the Class III-B classification applies to the area of interest.\*

#### 7:9-6.6 Exceptions to the classification system

(a) The Department may establish a Classification Exception Area \*[where]\* \*only when\* the Department determines that constituent standards for a given classification are not being met or will not be met in a localized area due to: natural quality; localized effects of a discharge approved through a NJPDES permit action; pollution caused by human activity within a contaminated site as defined by the Department in the context of an applicable regulatory program \*(for example, Site Remediation Program Oversight Document)\*; or an ACL as approved by the Department pursuant to NJPDES. "[The]\* \*In the context of an applicable regulatory program, the\* Department shall determine or describe appropriate boundaries for each Classification Exception Area \*and include the written description of the boundaries in the appropriate oversight document or permit action along with\*\*[, and]\* \*specifications as to which\* [the]\* constituents \*[to which]\* the exception applies. \*[Violations of constituent standards for which the above considerations do not apply shall not constitute a valid purpose for a Classification Exception.]\* \*Classification Exception Areas may only be established when constituent standards are not being met or will not be met due to the conditions set forth above and shall not be established for the purpose of sanctioning violations of constituent standards.\*

(b) Where natural quality for any constituent contravenes the criteria established in N.J.A.C 7:9-6.7 such that the primary designated use is not viable within a limited area, the Department may establish a Classification Exception Area within which the Department shall define appropriate designated uses and constituent standards, based upon the natural quality. Such Classification Exception Areas shall remain in effect as long as the primary designated use of the original classification area is not viable using ground water at natural quality.

(c) Where the Department defines, through a NJPDES permit action, an area of temporary noncompliance with specific constituent standards related to the localized effects of a permitted discharge, the ground water within that area of noncompliance shall be a Classification Exception Area for those constituents only. \*All other constituent standards shall apply within the Classification Exception Area.\* All designated uses in these Classification Exception Area. All designated uses in these Classification Exception Area. Constituent standards of the surrounding classification area shall apply at the perimeter of the Classification Exception Area for the specified constituents. \*[All other constituent standards shall apply within the Classification Exception Area for the specified constituents. \*[All other constituent standards shall apply within the Classification Exception Area in Exception Area shall have the same life as the approved NJPDES permit action, after which the original classification, designated uses and constituent standards shall apply.

(d) Where a discharge has resulted or will result in localized ground water quality that contravenes one or more constituent standards, the Department may define that area as a Classification Exception Area for specified constituents pursuant to (or in accordance with) a NJPDES permit action or a Department-approved remedial action in the context of an applicable regulatory program. \*All other constituent standards shall apply within the Classification Exception Area.\* All designated uses in each Classification Exception Area will be suspended during the life of the Classification Exception Area. Constituent standards of the surrounding classification area shall apply at the perimeter of the Classification Exception Area for the specified constituents.

\*[All other constituent standards shall apply within the Classification Exception Area.]\* The Department shall restrict or require the restriction of potable ground water uses within any Classification Exception Area where there is or will be an exceedance of the Primary Drinking Water Quality Standards (in N.J.A.C 7:10). \*Where the Department defines the Classification Exception Area through a NJPDES permit action, the Classification Exception Area shall have the same life as the approved NJPDES permit action, after which the original classification, designated uses and constituent standards shall apply. Other\* \*[The]\* regulatory action\*s\* creating the Classification Exception Area shall specify the longevity of the exception, after which the original classification, designated uses and constituent standards shall be applicable.

#### 7:9-6.7 Ground water quality criteria

(a) Ground water quality criteria for Class I-A areas shall be the natural quality for each constituent. Class I-A is a nondegradation classification where natural quality shall be maintained or restored. The Department shall not approve any discharge to ground water nor approve any human activity which results in a degradation of natural quality within a Class I-A classification area.

(b) Ground water quality criteria for Class I-PL are as follows:

1. Within Class I-PL (Preservation Area), ground water quality criteria shall be the natural quality for each constituent. Class I-PL (Preservation Area) is a nondegradation classification in which natural quality shall be maintained or restored. The Department shall not approve any discharge or any other activity which would result in the degradation of natural quality within a Class I-PL (Preservation Area) classification area. However, the provisions of this paragraph (b)1 shall not apply to \*[indigenous agricultural]\* activities \*that are in conformance with N.J.A.C. 7:50-6 et seq\*.

2. Ground water quality criteria for Class I-PL (Protection Area) shall be the \*[existing]\* \*background\* water quality. The Department shall not approve any discharge or any other activity which would result in the degradation of background water quality in the Class I-PL (Protection Area) classification area. However, the provisions of this paragraph (b)2 shall not apply to \*activities that are in conformance with N.J.A.C. 7:50-6 et seq.\* \*[agricultural activities, nor shall they be deemed to prohibit to discharges or activities that would result in ground water having a concentration of nitrate (N-NO3) of 2.0 milligrams per liter (mg/l) or less, where those discharges or activities are otherwise consistent with the Class I-PL (Protection Area) criteria.]\*

3. The Department shall not approve any discharge to ground water within the Class I-PL classification area which results in a violation of the Surface Water Quality Standards applicable to the Pinelands National Reserve, as established in N.J.A.C. 7:9-4 or successor rules.

(c) Ground water quality criteria for Class II-A are as follows: 1. Specific criteria for ground water quality in Class II-A areas are listed in Table 1 in the Appendix.

2. Where a specific criterion is not listed for a constituent in Table 1, the Department may establish interim specific criteria for Class II-A ground water based upon the weight of evidence available regarding each constituent's carcinogenicity, toxicity, public welfare or organoleptic effects, as appropriate for the protection of the potable water use. Interim specific criteria may be established \*on a\* case by case \*basis\* using the methods listed in (c)3 below, which are the same methods applied to the development of the specific criteria in Table 1. Interim specific criteria shall be replaced with specific criteria as soon as reasonably possible by rule.

3. Interim specific criteria may be derived by the Department for any constituent, in accordance with the methodologies in (c)5 below, and using the risk assessment approach in (c)4 below. The Department shall maintain and make available to the public a listing of all interim specific criteria and the supplemental information used in their derivation.

i. The human health-based criteria are derived from the toxicity factor (carcinogenic potency slope or Reference Dose), the exposure assumptions for drinking water and a relative source contribution factor (for non-carcinogens) which is used to account for the contribution from other sources of exposure including air and food. The Department assumes a 20 per cent relative source contribution factor when sufficient quantitative data are not available on the contribu7 E

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tion of each source of exposure. Data sources for carcinogenic potency slope or Reference Dose shall be used in the following [hierarchy]\* \*order of priority\*:

(1) Information which forms the basis for drinking water standards adopted by the Department pursuant to the Safe Drinking Water Act, N.J.S.A. 58:12A-1 et seq.;

(2) The United States Environmental Protection Agency (USEPA) Integrated Risk Information System (IRIS) data base;

(3) The USEPA's Health Effects Assessment Summary Tables (HEAST);

(4) The Department may develop health-based criteria which differ from those based on the sources cited in (c)3i (1) through (3) above if warranted by convincing scientific evidence. For contaminants which are not addressed in the sources cited in (c)3i (1) through (3) above, the Department may develop health-based criteria based on review of pertinent scientific data.

ii. The final calculations are rounded to one significant figure for deriving the criteria for each chemical.

4. The risk assessment approach for derivation of the health-based criteria for each contaminant will be determined by its strength of evidence (see 50 FR 46880, 46884-86 (1985), National Primary Drinking Water Regulations, Volatile Synthetic Organic Chemicals, and any successor documents) for human carcinogenicity, the risk levels given below, and the exposure assumptions and models listed in (c)3 above.

i. For contaminants classified in Group A or Group B, the Class II-A criteria are calculated from the potency factor based on additional lifetime cancer risk of  $1 \times 10^{-6}$ .

ii. For contaminants classified in Group C, the Class II-A criteria are calculated by application of an additional uncertainty factor of 10 to the chronic reference dose. If no reference dose is available from the sources cited in (c)3i above, the Class II-A criteria are calculated from the potency factor or unit risk factor based on additional lifetime cancer risk of  $1 \times 10^{-5}$ .

iii. For contaminants classified in Group D or Group E, the Class II-A criteria are calculated from the chronic reference dose.

iv. For lead, the Department has determined that a Class II-A criterion of five ug/L is appropriate as a conservative application of the regulations of the United States Environmental Protection Agency seeking a maximum concentration of five ug/L in drinking water subsequent to treatment.

\*[v. For polycyclic aromatic hydrocarbons classified in Group A or Group B, the general risk assessment approach given in (c)4i above applies except that the potency factor used for benzo(a)pyrene and dibens(a.h)anthracene will be that of benzo(a)pyrene, while other such polycyclic aromatic hydrocarbons will use a potency factor of one-tenth that of benzo(a)pyrene.]\*

5. The following equations shall be used for the derivation of interim specific criteria for each constituent:

i. For Carcinogens:

Criterion = 
$$\frac{(1 \times 10^{-6}) \times 70 \text{ kg} \times 1000 \text{ ug/mg}}{q_1^* (\text{mg/kg/day})^{-1} \times (2 \text{ L/day})}$$

Where:

$1 \times 10^{-6}$	= upper bound lifetime excess cancer risk $10^3$ used for Group C chemicals lacking RfD)
70 kg	= assumed weight of average adult = carcinogenic potency factor (mg/kg/day) <sup>1</sup>
q₁* 2 L/day q₁*	= assumed daily water consumption = Risk/Dose
q <sub>1</sub> * (mg/k	$1 \times 10^{4}$
q <sub>1</sub> (mg/k)	animal dose (mg/kg/day) × $(W_{A}/W_{H})^{1/3}$

Where:

 $1 \times 10^{-6}$ = risk level = dose to experimental animals predicted to animal dose result in  $1 \times 10^{-6}$  risk <sup>(W</sup>,/W<sub>µ</sub>) <sup>1/3</sup> = factor for extrapolating from animals to humans based on body surface area

$$W_{A} = assumed weight of animal:for mice - 0.03 kgfor rats - 0.35 kg
$$W_{H} = assumed weight of human = 70 kgFor mice (W_{A}/W_{H})^{1/3} = 0.075For rats (W_{A}/W_{H})^{1/3} = 0.17$$$$

ii. For non-carcinogens:

$$Criterion = \frac{RfD (mg/kg/day) \times 70 \text{ kg} \times 1000 \text{ ug/mg} \times RSC}{2 \text{ L/day}}$$

Where:

RFD =	Reference Dose
70 kg =	assumed weight of average adult
RSC =	relative source contribution
2 L/day =	assumed daily water consumption

6. Where no specific criterion exists for a Synthetic Organic Chemical, the interim generic criteria for Synthetic Organic Chemicals in Table 2 in the Appendix shall apply until an interim specific criterion has been established \*in accordance with (c)1, 2, 3, 4, and 5 above\*.

(d) The ground water quality criteria for Class II-B ground waters shall be the Class II-A criteria.

\*[(e) Ground water quality criteria for Class III areas are as follows:]\*

\*[1.]\*\*(e)\* The ground water quality criteria for Class III-A \*areas\* shall be the criteria of the most stringent classification for vertically or horizontally adjacent ground waters that are not Class III-A, unless the Department concludes (in the context of an applicable regulatory program) that there is no significant potential for the migration of ground water pollutants to that classification area. If there is significant potential for pollutant migration, the criteria shall be those of the classification area determined to be downgradient of the Class III-A area. \*[Otherwise]\* \*If there is no significant potential for pollutant migration\*, criteria shall be determined for such Class III-A areas on a case by case basis in the context of applicable regulatory programs. In each case \*where there is no significant potential for pollutant migration\*, the criteria shall be \*[the least]\* \*no more\* stringent \*[criteria that will]\* \*than necessary to\* ensure that there will be no:

"[i.]\*\*1.\* Impairment of existing uses of the ground water;

\*[ii.]\*\*2.\* Resulting violation of Surface Water Quality Standards; \*[iii.]\*\*3.\* Release of pollutants to the ground surface, structures

or air in concentrations that pose a threat to human health;

\*[iv.]\*\*4.\* Reasonable potential for a change in hydraulic gradient that could cause pollutants to migrate from the Class III-A area to any classification area other than Class III.

\*[2.]\*\*(f)\* The ground water quality criteria for Class III-B \*areas\* shall be determined on an area by area basis in response to case by case needs, in the context of applicable regulatory programs. In each case, the criteria shall be "[the least]\* "no more" stringent \*[criteria that will]\* \*than necessary to\* ensure that there will be no:

\*[i.]\*\*1.\* Impairment of existing uses of ground water;
\*[ii.]\*\*2.\* Resulting violation of Surface Water Quality Standards; \*[iii.]\*\*3.\* Release of pollutants to the ground surface, structures or air in concentrations that pose a threat to human health;

\*[iv.]\*\*4.\* Violation of constituent standards for downgradient classification areas to which there is a significant potential for migration of ground water pollutants.

\*[(f)]\*\*(g)\* Where ground water that receives pollutants from a discharge(s) subsequently flows to surface waters, the Department shall regulate such discharges as necessary so as not to exceed the Surface Water Quality Standards applicable to that body of surface water. The discharger may request application of only the ground water quality standards by showing, to the satisfaction of the Department, and in the context of the applicable regulatory procedure, that the flow of ground water pollutants into the surface water will not cause a violation of the Surface Water Quality Standards.

\*[(g)]\*\*(h)\* For constituents for which specific or interim specific criteria have been derived, the Department may evaluate potential toxicological interactions between or among contaminants in ground water by the sum of the risk levels of contaminants with health-based criteria that are based on carcinogenic risk, and by utilizing the hazard index approach described in the USEPA Guidelines for the Health Risk Assessment of Chemical Mixtures (51 FR 34014 (1986), and any subsequent revisions) for noncarcinogens. Additional actions and more stringent criteria may be required when either of the following conditions exists:

1. The total risk level for all Group A or Group B contaminants present in ground water exceeds  $1 \times 10^4$ ; or

2. There is a Hazard Index of greater than one for noncarcinogenic effects.

\*[(h)]\*\*(i)\* The Department shall regulate discharges for compliance with each specific, interim specific and generic criterion applicable to the discharge pursuant to this section.

7:9-6.8 Antidegradation policy

(a) The Department shall protect from significant degradation ground water which is of better quality than the criteria in N.J.A.C. 7:9-6.7. Antidegradation limits shall be used as the basis for the development of constituent standards applicable to discharges, as modified by N.J.A.C. 7:9-6.9(a) and (b). Where the concentration of a constituent at background water quality currently contravenes the criteria in N.J.A.C. 7:9-6.7, no further degradation of ground water quality shall be allowed for that constituent.

(b) \*[Antidegradation]\* \*For constituents whose concentrations in background water quality are less than the ground water quality criteria in N.J.A.C. 7:9-6.7 (excluding those constituents whose criteria are expressed as a range of concentrations), the antidegradation\* limits shall be determined\*[, for the regulation of a discharge, as the]\* \*by adding to\* background water quality concentration \*[plus a percentage of]\* the difference between the \*ground water quality\* criterion and the background water quality concentration \*times the following percentages for each of the corresponding classes of ground water as follows\*\*[, for each constituent. The following percentages shall be used]\*:

Class I-A 0%

Class I-PL 0%

\* Class II-A 50%

Class II-B 100% (See (c) below) Class III Not applicable]\*

\*The calculation of antidegradation limits may be represented by the following formula:

Constitutent Standard =  $BWQ + (GWQC-BWQ) \times \%$ 

where BWQ is the background water quality for a given constituent, GWQC is the ground water quality criterion and % is the antidegradation factor given above.\*

(c) The antidegradation limit\*s\* for Class II-B \*[is]\* \*are\* equal to the Class II-B criteria stated in N.J.A.C. 7:9-6.7(d). \*Where the concentration of a constituent at background water quality currently contravenes the criteria, no further degradation of ground water quality shall be allowed for that constituent.

(d) The antidegradation limits for Class III-A are equal to the Class III-A criteria established pursuant to N.J.A.C. 7:9-6.7(e).

(e) The antidegradation limit for Class III-B is equal to the Class III-B criteria established pursuant to N.J.A.C. 7:9-6.7(f).\*

7:9-6.9 Constituent standard modifications and practical quantitation levels

(a) When constituents at background water quality exceed the criteria in N.J.A.C. 7:9-6.7, the Department shall consider the following modifications in the development of constituent standards in the context of applicable regulatory programs:

1. For discharges that derive their source water from directly upgradient of the discharge, the constituent standards shall not be more stringent than the background water quality (that is, the source water quality);

2. For other discharges:

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i. In areas where the criteria for the constituent are exceeded within the area due to natural quality, the constituent standards shall be established as the background water quality.

ii. In other areas, the constituent standards shall be established such that the volume and concentration of ground water exceeding the criteria are not increased by discharges.

(b) The Department may define Classification Exception Areas as provided for in N.J.A.C. 7:9-6.6 within which the provisions of N.J.A.C. 7:9-6.7, 6.8 and (a) above do not apply regarding specified constituents.

(c) Where a constituent standard (the criterion as adjusted by the antidegradation policy and applicable criteria exceptions); is of a lower concentration than the relevant PQL (Table \*[3]\*\*1\* in the Appendix), the Department shall not (in the context of an applicable regulatory program) consider the discharge to be causing a contravention of that constituent standard so long as the concentration of the constituent in the affected ground water is less than the relevant PQL.

1. Where interim specific criteria are derived by the Department, interim PQLs shall also be derived for those constituents as appropriate.

2. No PQLs other than those listed in Table \*[3]\*\*1\* in the Appendix are applicable to or shall be derived for interim generic criteria.

3. Selection and derivation of PQLs shall be as follows:

i. PQLs shall be rounded to one significant figure using standard methods.

ii. PQLs listed in Table \*[3]\*\*1\* were, and additional PQLs shall be, derived or selected for each constituent using the most sensitive analytical method providing positive constituent identification from (c)3ii (1) through (5) below, in that order of preference:

(1) PQLs for a specific constituent and analytical method using the USEPA 500 series methods, which PQLs were derived through scientific studies conducted by the Department in support of the Safe Drinking Water Program;

(2) PQLs for a specific constituent and analytical method using the USEPA 500 series or 600 series methods (in order of preference, and provided that the method is currently in use by Departmentcertified laboratories), which PQLs were adopted by the USEPA in support of the Safe Drinking Water Program;

(3) PQLs derived by multiplying times a factor of five, a median, Interlaboratory Method Detection Limit (MDL). The Interlaboratory MDL is derived from verified MDL data from Department-certified laboratories for the USEPA 500 series or 600 series methods (in order of preference);

(4) PQLs derived by multiplying times a factor of 10, the MDL published by EPA for a specific constituent and analytical method for the USEPA 500 series or 600 series methods (in order of preference);

(5) PQLs for aqueous matrices published by EPA in "Test Method for Evaluating Solid Waste," Publication SW846, Third Edition, November 1986, and successor publications, incorporated herein by reference.

iii. The Department may approve an alternative PQL. An alternative PQL shall be approved when the evidence (in the context of an applicable regulatory program) establishes that:

Based upon site-specific, ground water matrix considerations,
 PQL listed in Table \*[3]\*\*1\* for a constituent is not valid;
 An alternative PQL is more appropriate for that constituent

with regard to compliance with this subchapter,

(3) The alternative PQL has been determined through rigorous laboratory analysis using methods appropriate to the site-specific ground water matrix and constituent(s), including, without limitation, the derivation of an MDL using the methodology specified by Appendix B of 40 CFR Part 136; and

(4) The alternative PQL does not result in nondetection of any target constituent due to masking effects of other target constituents, non-target constituents, or natural substances.

iv. The approval of an alternative PQL shall be applicable to the regulation of ground water quality affected by the discharge for L

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which it is derived, and its approval and utilization shall be subject to the same procedural requirements as any other aspect of the regulatory decision.

4. Where ground water pollutants affect surface water quality within the meaning of N.J.A.C. 7:9-6.7\* $[(f)]^{**}(g)^*$ , more sensitive analytical techniques such as bioassays or bioaccumulation assays may be required by the Department.

7:9-6.10 Procedures for reclassification of ground water

(a) Reclassification of ground water areas shall be accomplished through rulemaking in accordance with the Administrative Procedure Act, N.J.S.A. 52:14B-1 et seq.

(b) Any interested person may seek to have  $*[a]^* *any^*$  ground water area reclassified by filing a petition with the Department. For the purposes of this subsection, interested persons shall include, but not be limited to:

1. Any State, county or municipal governmental entity with jurisdiction over the area that is proposed for reclassification; and 2. Any person residing or discharging in the area that is proposed for reclassification.

(c) Petitions shall comply with and shall be reviewed in compliance with N.J.S.A. 52:14B-4 and N.J.A.C. 7:1-1.2.

(d) For purposes of this subsection, ground water areas subject to petition for reclassification shall constitute at least a significant portion of one or more geologic units or formations. In no event shall a reclassification area consist only of an area underlying property owned by a single person \*(except in the case of reclassification to and from Class I-A)\*, an area affected only by one discharge, or an area affected only by a set of discharges owned or controlled by a single person.

(e) In setting forth the reasons for its petition, the petitioner shall describe the proposed reclassification area (both lateral and vertical), and shall include appropriate ground water quality and hydrogeologic analyses, as well as statements regarding the environmental, economic and social impacts of the proposed reclassification.

(f) In "[determining whether]" "order" to grant a petition to propose a rule amendment to apply a more stringent classification to a ground water area, the Department "[shall consider whether]" "must find that" the petitioner has established that the subject area has the characteristics of the more stringent classification.

(g) In "[determining whether]" "order" to grant a petition to propose a rule amendment to apply a less stringent classification to a ground water area, the Department "[shall consider whether]" "must find that" the petitioner has established that:

1. The designated use cannot be maintained in the subject area \*[because of the widespread exceedance of one or more of the criteria set forth in NJ.A.C. 7:9-6.7 within the subject area]\*;

\*[2. The exceedances cannot be remedied using the best available demonstrated technology;]\*

\*[3.]\*\*2. Based upon an analysis of background water quality of constituent standards in downgradient areas and of ground water flow vectors and gradients, contaminant attentuation, flow barriers and potential for induced movement, the\* \*[The]\* reclassification will not result in significant risk \*[or]\* \*of the following:\*

\*i.\* \*[impairment]\* \*Impairment\* to existing uses of ground water\*[, to]\* \*or significant potential for pollutant migration to\* downgradient classification areas\*;\*

\*ii. Degradation of \* \*[to]\* downgradient surface water \*[s]\* \*quality in violation of the surface water quality standards;\*

\*iii. Degradation of \* \*[to]\* the \*quality of \* source water for public water supply wells \*in violation of the provisions of N.J.A.C. 7:9-6.7, 6.8 and 6.9;\*, or

\*iv. Significant threats\* to public health, safety and welfare; and \*[4.]\*\*3.\* The subject area has the characteristics of the less stringent classification.

\*(h) The petitioner shall provide public notice of the petition by mailing a copy of a summary of the petition, including all subsequent amendments, to:

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1. All owners of residences or facilities identified by local health officials or by the petitioner during the preparation of the petition as operators of wells in the subject area;

2. The mayor or governing body, and the planning board and environmental commission of all municipalities in which any part of the subject area is located;

3. All public water systems utilizing ground or surface water from the subject area;

4. All local or county health agencies with jurisdiction over any part of the subject area; and

5. Any other interested party who requests a copy of the petition summary in writing to either the Department or the petitioner.

(i) The petitioner shall cause public newspaper notice of the petition to be published, in two daily, and one weekly, newspapers (if available) that are distributed in the municipalities of the subject area, which notice shall include a brief summary of the petition.\*

#### 7:9-6.11 Severability

If any provision of this subchapter or any application of any such provision is held to be invalid, such invalidity shall not affect any other provision or application, and to this end, the provisions of this subchapter are declared to be severable.

*[TAB SPECIFIC GROUND WATER QU		A: CLASS II-A
Constituent	CASRN	Criteria (ug/L)*
Acenaphthene	83-32-9	400
Acetone	67-64-1	700
Acrylamide	79-06-1	0.008
Acrylonitrile	107-13-1	0.06
Adipates (Di(ethylhexyl)adipate)	103-23-1	5,000
Alachlor	15972-60-8	0.43
Aldicarb sulfone	1646-88-4	2
Aldrin	309-00-2	0.002
Aluminum Ammonia	7429-90-5	50 to 200 500
Anthracene	120-12-7	2000
Antimony	7440-36-0	2
Arsenic (Total)	7440-38-2	0.02
Asbestos	1332-21-4	7x10%f/L>10um <sup>a</sup>
Atrazine	1912-24-9	3
Barium	7440-39-3	2,000
Benz(a)anthracene	56-55-3	0.03
Benzene	71-43-2	0.2
Benzidine	92-87-5	0.0002
Benzyl Alcohol	100-51-6	2000
Benzo(a)pyrene (BaP) 3,4-Benzofluoranthene	50-32-8	0.003
(Benzo(b)fluoranthene)	205-99-2	0.03
Benzo(k)fluoranthene	207-08-9	0.03
Beryllium	7440-41-7	0.008
alpha-BHC (alpha-HCH)	319-84-6	0.006
beta-BHC (beta-HCH)	319-85-7	0.2
gamma-BHC (gamma-HCH/Lindane)	58-89-9	0.2
Bis(2-chloroethyl) ether	111-44-4	0.03
Bis(2-chloroisopropyl) ether	39638-32-9	300
Bis(2-ethylhexyl) phthalate	117-81-7	. 3
Bromodichloromethane		
(Dichlorobromomethane)	75-27-4	0.3
Bromoform	75-25-2	4
Butylbenzyl phthalate	85-68-7	100
Cadmium	7440-43-9	4
Carbofuran	1563-66-2	. 40
Carbon tetrachloride	56-23-5	0.4
Chlordane	57-74-9	0.01
Chloride	16887-00-6	250,000
Chlorobenzene	108-90-7	5

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ADOPTIONS

	ENVIRONMENTAL FROTECT					ADOPTIONS
$ \begin{array}{c} 2.0 \text{Keyspherical} & 95.718. 4.0 \\ Cherrynkow (104) & 740.94.75. 100 \\ Cherrynkow (104) & 740.97.8 \\ Control (104) & 740$		67-66-3	6		7439-89-6	300
$ \begin{array}{c} Chorpute \\ Charamur (Total) & P49-97.4 & 23 \\ Cheramur (Total) & P49-97.4 & 33 \\ Cheramur (Total) & P49-97.4 & 0.0 \\ Cheramur (Tot$		95-57-8	40	Isophorone		
		2921-88-2				-
$\begin{array}{cccc} Coprese & 22.810-9 & 0.03 \\ Course & Value &$	Chromium (Total)	7440-47-3∧				
$ \begin{array}{c cccc} Coper & 10.6 a for units & Meccay (Total) & 739576 & 3 \\ Corrolivy & 74.9.3 & 1.00 & 748379 & 10 \\ Corrolivy & 74.9.3 & 10 & 748379 & 10 \\ Corrolivy & 74.9.3 & 10 & 748379 & 10 \\ Corrolivy & 74.9.3 & 10 & 748379 & 10 \\ Corrolivy & 74.9.1 & 74849 & 10 \\ Methy Corrolic (choronethan) & 74.873 & 30 \\ Methy Corrolic (choronethan) & 74.873 & 30 \\ Methy Corroling (choronethan) & 74.973 & 30 \\ Methy Corrolic (choronethan) & 73.943 & 0.03 \\ Mitrate and Nutric (a N) & 14797.545 & 10,00 \\ Nitrate and Nutric (a N) & 14797.545 & 10,00 \\ Nitrate and Nutric (a N) & 14797.545 & 10,00 \\ Nitrate and Nutric (a N) & 14797.545 & 10,00 \\ Nitrate and Nutric (a N) & 14797.545 & 10,00 \\ Nitrate and Nutric (a N) & 14797.545 & 10,00 \\ Nitrate and Nutric (a N) & 14797.545 & 10,00 \\ Nitrate and Nutric (a N) & 14797.545 & 10,00 \\ Nitrate and Nutric (a N) & 14797.545 & 10,00 \\ Nitrate and Nutric (a N) & 14797.545 & 10,00 \\ Nitrate and Nutric (a N) & 14797.545 & 10,00 \\ Nitrate and Nutric (a N) & 13353.53 & 0.02 \\ 1,20 Haloncehane & 55.9-1 & 600 & Nitrocodinetylamine & 62.75 & 0.007 \\ 1,20 Haloncehane & 55.9-1 & 600 & Nitrocodinetylamine & 62.75 & 0.007 \\ 1,20 Haloncehane & 51.7-1 & 600 & Nitrocodinetylamine & 62.945 & 0.02 \\ 1,20 Haloncehane & 51.7-1 & 600 & Nitrocodinetylamine & 62.945 & 0.02 \\ 1,20 Haloncehane & 51.9-1 & 600 & Nitrocodinetylamine & 62.945 & 0.02 \\ 1,20 Haloncehane & 55.9-1 & 70 & Mathyle National & 75.945 & 0.02 \\ 1,20 Haloncehane & 75.945 & 10 & 72.946 & 0.00 \\ 1,20 Haloncehane & 75.945 & 0.00 & Nitrocodinetylamine & 75.945 & 0.00 \\ 1,20 Haloncehane & 75.945 & 0.00 & Nitrocodinetylamine & 75.945 & 0.00 \\ 1,20 Haloncehane & 75.945 & 0.00 & Nitrocodinetylamine & 75.945 & 0.00 \\ 1,20 Haloncehane & 75.945 & 0.0 & 77.94 & 0.00 \\ 1,20 Haloncehan$	Chrysene	219.01 0	0.00			_
$\begin{array}{c} Coper \\ Corrolling \\ Corrolling \\ Advance \\ Advan$		210-01-9				
		7440 50 9				
Conside         71.2.5         200         Methyl Cholds (Chloromethan)         74.2.7         30           Za-D         59.5.7         200         Methyl Chlords (Chloromethan)         74.7.3         30           At-DDD ( $g^{+}$ TDE)         75.9.6         200         Methyl Chlords (Chloromethan)         74.8.7.3         30           At-DDD ( $g^{+}$ TDE)         75.9.6         200         Methyl Chlords (Chloromethan)         74.9.7.3         30           At-DDD ( $g^{+}$ TDE)         75.9.6         200         Methyl Chlords (Chloromethan)         74.9.7.3         30           At-DDD ( $g^{+}$ TDE)         75.9.6         0.1         Mitre (Chloromethan)         74.9.7.3         30           Denter(a) humbars         80.54.8.3         0.3         Nitrate (a N)         14797.55.8         10.00           Discourphones-Schloroperate (DBCP)         95.4.3         0.002         Nitrate (a N)         14797.65.0         10.00           J.2-Dichloromethane         51.7.3.1         600         Nitrate (a N)         14797.65.0         10.00           J.2-Dichloromethane         51.9.7.3         600         Nitrate (a N)         14797.65.0         10.00           J.2-Dichloromethane         51.9.7.3         600         Nitrate (a N)         123.9.8.9         0.0		7440-20-0				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			Roll-collosive	Memyl bromide (bromomeinane)	/4-83-9	10
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		57-12-5	200	Methyl chloride (chloromethane)	74-87-3	30
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	•	94-75-7				
44-00D (sp <sup>3</sup> -TDE)     72.54-8     0.1     44:01p1-2periatonee     108-10.1     40       44-0DT     59-25-9     0.1     Miret     235.55.5     0.01       44-0DT     59-25-3     0.1     Miret     1377.55.4     1000       Disconchiomentane     55.79-3     0.035     Mirets (as N)     1477.55.4     10000       Disconchiomentane     124-45-1     10     Mirets (as N)     1477.55.4     10000       Disconchiomentane     55.79-3     0.00     Nitrobalane     629-5-3     3       1_2.Dishorobareane     55.79-3     0.00     Nitrobalane     623-6-7     7       1_2.Dishorobareane     55.79-3     0.00     Nitrobalane     623-6-7     7       1_3.Dishorobareane     55.79-3     0.00     Nitrobalane     623-6-7     7       1_3.Dishorobareane     74.4-7     0.03     Odar     77     018.6     018.6       1_3.Dishorobareane     75.44.1     0.03     018.6     77     018.6     235.25.0     20       1_3.Dishorobareane     75.45.2     10     PH     PH     PH     95.45.3     0.3       1_3.Dishorobareane     77.45.2     20     PH     PH     95.45.3     0.3       1_3.Dishorobareane     77.45.5		75-99-0	200	Methylene chloride		
4.4-DDE       72.559       0.1       Mirat       228.55.5       0.0         4.4-DDT       205.48-3       0.3       Nitrate (as N)       1479.75.8       10,00         Dimental, hjuthracen       55.78-3       0.003       Nitrate (as N)       1479.75.3       10,00         Dironcohoronethane       65.78-3       0.002       Nitrate (as N)       1479.75.3       10,00         Colorodiversementhare       57.78-3       0.002       Nitrate (as N)       1479.75.3       10,00         Dirbenty (h)halate       84.74-2       900       Nitrosocilinethylamine       62.1-4.7       0.003         JDichorobenzane       55.58-1       600       Nitrosocilinethylamine       62.1-4.7       0.035         JDichorobenzane       10.4-4.7       0.05       Old Corany       2115.52.0       0.007         JDichorobenzane       17.54.3       70       Orany       2115.52.0       0.03         JDichorobenzane       17.55.4       100       PA       108.55.2       0.03         JDichorobenzane       17.55.4       100       PA       108.55.2       0.03         JDichorobenzane       17.55.4       100       Pateol       108.55.2       0.03         JDicholonopoinet (cs and	4,4'-DDD (p,p'-TDE)	72-54-8	0.1	4-Methyl-2-pentanone		
4/-0DT     50:25:3     0.1     Nicel (Soluble salus)     140:02.0     000       Denetian     55:70.3     0.003     Nitrate (at N)     1477:53.4     1000       Disconcionamentane     124:45:1     10     Nitrate (at N)     1477:53.4     10000       Chorosthoreomentane)     124:45:1     10     Nitrate (at N)     1477:53.4     10000       Chorosthoreomentane     55:70.3     0.003     Nitrate (at N)     1477:53.4     10000       Chorosthoreomentane     55:70.5     0.000     Nitrobalization     52:75.9     0.0007       1,3.Dichlorobenzee     55:75.1     000     Nitrobalization     52:75.9     0.0007       1,3.Dichlorobenzee     55:75.1     000     Oder     70     20:52.0     20:52.0       1,3.Dichlorobenzee     75:45.1     000     Oder     70:85.4     100       1,2.Dichlorobenzee     75:53.2     10     74:60:07     20:85.4     20:85.4       1,2.Dichlorobenzee     75:54.2     10     74:60:07     20:85.4     20:85.4       1,2.Dichlorobenze     75:55.2     10     74:60:07     20:85.4     100       1,2.Dichlorobenze     75:55.2     10     74:60:07     20:15.25.4     100       1,2.Dichlorobenze     75:75.4     000	A P DDE	72.65.0			-	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	•					
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $				Nickel (Soluble sails)	7440-02-0	100
Distruccionalization         Nitrite         Nitrite </td <td></td> <td></td> <td></td> <td>Nitrate (as N)</td> <td>14797-55-8</td> <td>10.000</td>				Nitrate (as N)	14797-55-8	10.000
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		J3+70-5	0.003			
	Dibromochloromethane				14797-65-0	
		124-48-1	-10			
12-Dicklorobenzes         95:95-1         600         N-Ntrosofi-propriamine         68:00-6         7           13.Dichlorobenzes         54:173-1         600         Oder         621:64-7         0.03           14.Dichlorobenzes         16:46-7         75         03         75         03         1.0         01.8. Grease and Petroleum Hydrocarbons         123:52:53         200           14.Dicklorobethylene         75:53:4         1         Petroleum Hydrocarbons         77:64:5         0.03           1.2.Dicklorobethylene         155:93:2         10         Petroleum Hydrocarbons         65:83:5         0.02           1.2.Dicklorobethylene         156:93:2         10         PH         55:53:4         0.02           1.2.Dickloropethylene         156:93:2         10         PH         55:53:4         0.02           1.2.Dickloropethylene         156:93:2         10         PH         55:53:4         0.02           1.3.Dickloropethylene         156:40:5         100         PH         55:53:5         0.02           1.3.Dickloropethylene         10:54:79         100         Sodium         74:02:25         50,000           Dinethylphthalate         10:45:40         0.03         Syrane         10:04:25         10:0 <td>1,2-Dibromo-3-chloropropane (DBCP)</td> <td>96-12-8</td> <td>0.002</td> <td>57 5 M</td> <td>•</td> <td>-</td>	1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	0.002	57 5 M	•	-
1.2.Dichlorobenzene       95:50-1       600       Mutusodi-propinatione       621-64-7       0.00         1.3.Dichlorobenzene       104:47       75       Old C Grass and Petroleum Hydrocarbons       0/2 <t< td=""><td>Di-n-butyl phthalate</td><td></td><td>900</td><td></td><td></td><td></td></t<>	Di-n-butyl phthalate		900			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		95-50-1	600	N-Nitrosodiphenylamine		•
1.4-Dichlorobenzene       10646.7       75       Oil & Grease and Petroleum Hydrocarbons       None Noticeable         3.3-Dichlorobenzidine       73.34.3       70       Oramy       2135.22.0       20         1.2-Dichloroethynen       73.34.3       70       Oramy       2135.22.0       20         1.2-Dichloroethynen       73.34.4       1       Petatekliorophenol       87.86.5       0.3         1.2-Dichloroethynen       156.95.2       10       Phenol       108.95.2       400         2.4-Dichloroethynen       156.95.2       10       Phenol       108.95.2       400         2.4-Dichloroptopae       78.47.5       0.2       Store       129.00.0       200         1.2-Dichloroptopae       78.47.5       0.2       Store       129.00.0       200         1.2-Dichloroptopae       78.47.5       0.2       Store       129.00.0       200         1.2-Dichloroptopae       10.56.75       10.00       Sofura       140.22.4       2.1       1         2.4-Dintrotohene       10.36.75       10.00       Sofura       140.42.5       100       1.1.2.7         2.4-Dintrotohene       10.36.77       7       1.1.2.7       1.1.2.7       1.1.2.7       1.1.2.7       1.1.2.7	13 Dichlorohenzens	E 41			621-64-7	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				Udor		3°
1.1 Disklorochane       75,34,3       70       (PHC)       None Notizeable         1.2 Disklorochane       107,652       0.3       PCBs (Polychlorinated biphenyls)       1335,35,3       0.02         1.4 Disklorochylene       75,354       1       Pentachlorophenol       1335,35,3       0.02         1.4 Disklorochylene       156,952       10       Pentachlorophenol       87,855       0.3         2.4 Disklorochylene       128,452       20       Pichant       1918-05.1       400         1.2 Diskloropropane       17,87,45       0.2       Selenium (Total)       7782,49,2       50         1.3 Diskloropropane       16,457,4       0.00       Selenium (Total)       7782,49,2       50         Dischyl phtalate       84,4662       5,000       Silver       124,23,49       1         2,4-Dinitrophenol       105,679       100       Sodium       7440,22,4       20         2,4-Dinitrophenol       51,22,5       00       Sulfate       114,83       700       Solfate       Solfate       14608,79,8       250,000       24,04,00,00       1,12,27,12,12,12,12,12,12,12,12,12,12,12,12,12,				Oil & Grease and Petroleum Hydroc	arhons	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$						None National
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1,1-Dichlorocthane	75-34-3	70		23135.22.0	
$ \begin{array}{ccccccc} 1,2-Dichlorocethylene & 15334 & 1 \\ cis-1,2-Dichlorocethylene & 156.99-2 & 10 \\ trans.1,2-Dichlorocethylene & 156.99-2 & 10 \\ trans.1,2-Dichlorocethylene & 156.99-2 & 10 \\ pHenol & 108.95-2 & 4000 \\ 1,2-Dichloropropane & 78.87.5 & 0.2 \\ 1,2-Dichloropropane & 78.87.5 & 0.2 \\ 1,2-Dichloropropane & 78.87.5 & 0.2 \\ Dieldri & 6.57.1 & 0.002 \\ Silver & 7440.22.4 & 20 \\ Dinethyl phthalate & 84.66-2 & 5,000 \\ Dinethyl phthalate & 111.113 & 7,000 \\ 2,4-Dinitrophenol & 105.67.9 & 100 \\ 2,4-Dinitrophenol & 112.84.5 & 10 \\ Dineshyl phthalate & 111.143 & 7,000 \\ 2,4-Dinitrophenol & 112.84.5 & 10 \\ Dineshyl phthalate & 117.84-0 & 100 \\ Dinoseh & 18.85.7 & 7 \\ 1,2-Diphenylhydrazine & 112.46.7 & 0.004 \\ 1,1,2,2-Tetrachlorochhane & 17.46.01.6 \\ Dinoseh & 18.85.7 & 7 \\ 1,2-Diphenylhydrazine & 122.66.7 & 0.04 \\ 1,1,2,2-Tetrachlorochhane & 17.46.01.6 \\ Dinoseh & 18.85.7 & 7 \\ 1,2-Diphenylhydrazine & 122.66.7 & 0.04 \\ 1,1,2,2-Tetrachlorochhane & 17.18.4 & 0.4 \\ Eadosulfan center & 17.18.4 & 0.4 \\ Total disobed solids (TDS) & 500,000 \\ Dinoseh & 16.87.8 & 1.000 \\ Endosulfan sulfate & 103.147.8 & 0.4 \\ Total disobed solids (TDS) & 500,000 \\ Endosulfan sulfate & 103.147.8 & 0.4 \\ Total disobed solids (TDS) & 500,000 \\ Endosulfan sulfate & 103.147.8 & 0.4 \\ Total disobed solids (TDS) & 500,000 \\ Endosulfan sulfate & 104.14 & 700 \\ 1,1.2.Trichklorocethane & 77.94.5 & 30 \\ Ehylienze dibromide & 166.97.4 & 300 \\ Cytheset & 106.97.4 & 500 \\ Endosulfan Sulfate & 106.97.4 & 500 \\ Endosulfan Sulfate & 106.87.4 & 300 \\ Cytheset & 106.97.4 & 500 \\ Herachlorobytin & 106.87.8 & 11.2 \\ Trichklorocethane & 75.04.1 & 0.08 \\ Fandonidis & 8.06.2 & 3 \\ Functione & 86.75.7 & 700 \\ Cytheset & 75.04 & 75.04 & 75.04 \\ Theorem & 86.75.7 & 700 \\ Cytheset & 75.04 & 75.04 & 75.04 & 75.04 \\ Theorem & 87.64.3 & 11.2 \\ Trichklorophenol & 95.95.4 & 770 \\ Cytheset & 75.04 & 75.04 & 75.04 \\ Cytheset & 75.04 & 7$	1,2-Dichloroethane	107-06-2	0.3			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1,1-Dichloroethylene					
$\begin{array}{llllllllllllllllllllllllllllllllllll$				•	07-00-0	0.5
$\begin{array}{c c c c c c c c c c c c c c c c c c c $						6.5-8.5
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	•					
	2,4-Dichlorophenol					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				Pyrene	129-00-0	200
Diethy phtalate         B4:05:1         Good         Silver         7440-22:4         20           2.4-Dinterhylphenol         105:67:9         100         Sodium         7440-23:5         50,000           2.4-Dinitrophenol         131:13         7,000         Sprene         100-42:5         100           2.4-Dinitrophenol         51:23:5         10         Suffate         180:42:5         100           2.4-Dinitrophenol         51:23:5         10         Suffate         180:42:5         100           2.4-Dinitrophenol         51:23:5         10         Suffate         180:42:5         100           Dia-octyl phthalate         117:84:0         100         dioxin)         1746-01:6         0.0000002           Diasocb         88:45:7         7         1,1,1,2.7 Etrachloroethane         630-20:6         10           1,2:Dipherythydrazine         122:26:7         0.4         Thallium         7440-23:0         0.5           alpha-Endosulfan (Endosulfan I)         959:98:8         0.4         Tokene         100:42:5:TP         9           Endotall         145:77:3         100         24:5:TP         9:57:2:1         50           Endotall         16:69:94         0.0004         Tichioroethane				Selenium (Total)	1782 40 1	60
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Dieldrin	60-57-1	0.002			
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Diethyl phthalate	84-65-2	5 000			
$\begin{array}{c c c c c c c c c c c c c c c c c c c $						
2.4-Dinitrophenol       51:28.5       10       Styrate $100:42:5$ 100         2.4-Dinitrotoluene2,6-Dinitrotoluene       Taste       None Noticeable         mixture       121:14:2       0.05       TCDD (2,3,7,8-Tetrachlorodibenzo-p-       1746:01:6       0.0000002         Dinoseb       88:45:7       7       1,1,12-Tetrachlorothane       630-20:6       10         1,2-Diphenylhydrazine       12:6:6:7       0.04       1,1,22-Tetrachlorothane       79:34:5       2         Diquat       85:00.7       20       Tetrachlorothylene       127:18:4       0.4         Endosulfan (Endosulfan II)       959:98:8       0.4       Total dissolved solids (TDS)       500,000         Endosulfan (Endosulfan III)       33213-65:9       0.4       Total dissolved solids (TDS)       500,000         Endosulfan (Endosulfan II)       332213-65:9       0.4       Total dissolved solids (TDS)       500,000         Endosulfan (Endosulfan II)       132:17:45:4       0.4       Total dissolved solids (TDS)       500,000         Endosulfan Sulfate       103:107:48       0.4       Total dissolved solids (TDS)       500,000         Endosulfan Sulfate       103:107:48       0.4       Total dissolved solids (TDS)       500,000         Endosulfan Sulfate<				Socialit	1440-23-3	- 20,000
24-Dinitrotoluene2,6-Dinitrotoluene       121:14-2       0.05       Taste       None Noticzable         mixture       117:84-0       100       dixin)       1746-01-6       0.0000002         Dinoseb       88:85:7       7       1,1,2.2.Tetrachlorothane       630-20-6       10         1,2.Diphenylhydrazine       122:66:7       0.04       1,1,1.2.Tetrachlorothane       79-34:5       2         Diquat       85:40:7       20       Tetrachlorothylene       127.18:4       0.4         alpha-Endosulfan (Endosulfan I)       959-98:8       0.4       Toluene       108-88:3       1,000         endosulfan (Endosulfan II)       35213:65:9       0.4       Toluene       108-88:3       1,000         Endosulfan (Endosulfan II)       35213:65:9       0.4       Total dissolved solids (TDS)       500,000       500,000         Endonalla       145:73:3       100       2,45:TF       95:72:1       50         Endrin       72:20:8       2       1,1,2-Trichlorobetnane       79:05:5       30         Ethylene dibromide       106:89:8       4       1,24-Trichlorobetnane       79:55:6       30         Ethylene dibromide       106:49:48:8       2000       1,1,2-Trichlorobetnane       79:55:4       30 <td></td> <td></td> <td></td> <td>Styrene</td> <td>100-42-5</td> <td>100</td>				Styrene	100-42-5	100
mixture121-14-20.05TCDD (2,3,7,8-Tetrachlorodibenzo-p- dioxin)1746-01-60.000002Dinoseb88-85-771,1,2-Tetrachlorodibenzo-p- dioxin)1746-01-60.000002Jaba85-00-7201,1,2,2-Tetrachloroethane500-20-610Liquit85-00-720Tetrachloroethane172-18-40.4Ladosulfan115-29-70.4Thallium7440-28-00.5alpha-Endosulfan (Endosulfan I)959-98-80.4Toluene108-88-31,000Endosulfan (Endosulfan II)33213-65-90.4Tolal dissolved solids (TDS)500,000Endosulfan alla145-73-31002,45-TP93-72-150Endonalla105-89-841,1,2-Trichloroethane79-35-530Endrin72-20-821,1,2-Trichloroethane79-55-630Ehylborzene100-4147001,1,1-Trichloroethane79-50-53Ethylbenzene106-89-841,1,2-Trichloroethane79-30-53Ehylborathee206-44-03002,45-Trichlorophenol95-95-4700Fluoranthece206-44-03002,45-Trichlorophenol85-06-23Fluoride1071-8-67002,55-Trichlorophenol85-06-23Fluoranthece1074-8-650001330-20-740Fluoranthece102-57-30004Yulen choinde75-01-40.08Fluoranthece102-57-30004Yulenchoinde75-01-4 <t< td=""><td>•</td><td>01 20 3</td><td>10</td><td>Sulfate</td><td>14808-79-8</td><td>250,000</td></t<>	•	01 20 3	10	Sulfate	14808-79-8	250,000
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Hydrogen sulfide 7783-06-4 20						
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(CITE 25 N.J.R. 536)

#### **ADOPTIONS**

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#### ENVIRONMENTAL **OTEQTION**

## Explanation of Terms

- = Asbestos criterion is measured in terms of fibers/L longer than 10 micrometers (f/L> 10 um) Odor Threshold Number
- =
- = Criteria are expressed as ug/L unless otherwise noted,
- ug = micrograms mg = milligrams
- L = liter
  - = fibers
- f = CASRN of chromium VI ٨
- H = Hardness]\*

\*TABLE 1 SPECIFIC GROUND WATER QUALITY CRITERIA-CLASS II-A AND PRACTICAL QUANTITATION LEVELS

Constituent		Ground Water Quality	Practical Quantitation	Higher of PQLs and Ground Water Quality
	CASRN	Criteria*	Levels (PQLs)*	Criteria (ug/L)*
Acenaphthene	83-32-9	400	10	400
Acenapthylene	208-96-8	NA ·	10	NA
Accelone	67-64-1	700	NA	700
Acroicin	107-02-8	NA	50	ŇĂ
Acrylamide	79-06-1	0.008	NA	0.008
Acrylonitrile	107-13-1	0.06	50	50
Adipates (Di(ethylhexyl)adipate)	103-23-1	[5,000]	6	[5,000]
Alachlor	15972-60-8	0.43	2	2
Aldicarb sulfone	1646-88-4	2	. 3	3
Aldrin	309-00-2	0.002	0.04	0.04
Aluminum	7429-90-5	[50 to] 200	200	200
Ammonia		500	200	500
Anthracene	100 10 7	2000		
Antimony	120-12-7 7440-36-0	2000	10	2000
Arsenic (Total)	7440-38-2	2 0.02	20 8	20
Asbestos	1332-21-4	7×104/L>10um <sup>a</sup>	10 <sup>5</sup> 1/L>10um*	8 7×104/L>10um*
•			-	•
Atrazine	1912-24-9	3	1	3
Barium Barra (a) a 4 harrow (a)	7440-39-3	2,000	200	2000
Benz(a) anthracene Benzene	56-55-3	[0.03]	10	[10]
Dentene	71-43-2	0.2	1	1
Benzidine	92-87-5	0.0002	50	50
Benzyi Alcohol	100-51-6	2000	NA	2000
Benzo(a)pyrene (BaP)	50-32-8	[0.003]	20	[20]
3,4-Benzofluoranthene (Benzo(b)fluoranthene)	205-99-2	[0.03]	10	[10]
Benzo(ghi)perylene	191-24-2	NA	20	NA
Benzo(k)fluoranthene	207-08-9	[0.03]	2	[2]
Beryllium	7440-41-7	0.008	20	20
alpha-BHC (alpha-HCH)	319-84-6	0.006	0.02	0.02
beta-BHC (beta-HCH)	319-85-7	0.2	0.04	0.2
gamma-BHC (gamma-HCH/Lindane)	58-89-9	0.2	0.2	0.2
Bis(2-chloroethyl) ether	111-44-4	0.03	10	10
Bis(2-chloroisopropyi) ether	39638-32-9	300	10	300
Bis(2-ethylhexyl) phthalate			_	
Bromodichloromethane (Dichlorobromomethane)	117- <b>8</b> 1-7 75-27-4	3 0,3	30	30
Bromoform	75-25-2	45	1	I
Butyibenzyi phthalate	85-68-7	100	0.8 20	4 100
				100
Cadmium	7440-43-9	4	2	4
Carbofuran	1563-66-2	· 40	7	<b>40</b> ·
Carbon tetrachloride.	56-23-5	0.4	2	2
Chlorobenzene	108-90-7	[5]4	2	[5]4
Chlordane	57-74-9	0.01	0.5	0.5
Chloride	16887-00-6	250,000	[3000]2000	250,000
Chloroform	67-66-3	6	1	6
4-Chloro-3-methyi (o-chloro-m-cresol)	59-50-7	NA	20	NA .
2-Chlorophenol	95-57-8	40	20	40
Chlorpyrifos	2921-88-2	20	0.2	20
Chromium (Total)	7440-47-3[^]	100	10	100
Chrysene	218-01-9	[0.03]	20	[20]
Color			-	
Copper	7410 50 0	10 CU	20 CU	20 CU
Corrosivity	7440-50-8	1,000	1,000	1,000
Cyanide	ET 14 E	Non-corrosive	NA 40	Non-corrosive]
~jaunu	57-12-5	200	40	200

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ENVIRONMENTAL PROTECTION 2,4-D Dalapon 4,4'-DDD (p,p'-TDE) 4,4'-DDE 4,4'-DDT Demeton Dibenz(a,h)anthracene Dibromochloromethane (Chlorodibromomethane)	94-75-7 75-99-0 72-54-8 72-55-9	70 200 0.1	5 10	70 200	ADOPTIONS
Dalapon 4,4'-DDD (p,p'-TDE) 4,4'-DDE 4,4'-DDT Demeton Dibenz(a,h)anthracene	75-99-0 72-54-8	200	10	200	
Dalapon 4,4'-DDD (p,p'-TDE) 4,4'-DDE 4,4'-DDT Demeton Dibenz(a,h)anthracene	75-99-0 72-54-8	200	10	200	
4,4'-DDD (p,p'-TDE) 4,4'-DDE 4,4'-DDT Demeton Dibenz(a,h)anthracene	72-54-8				
4,4'-DDE 4,4'-DDT Demeton Dibenz(a,h)anthracene		0.1			
4,4'-DDT Demeton Dibenz(a,h)anthracene	72-55-9	• •	0.04	0.1	
Demeton Dibenz(a,h)anthracene		0.1 .	0.04	0.1	
Dibenz(a,h)anthracene	50-29-3	0.1	0.06	0.1	
Dibenz(a,h)anthracene	8065-48-3	0.3	NA	0.3	
Diknomenklammethane (Chland Burner of the st	53-70-3	[0.003]	20	[20]	-
DIDITUMOCALOTOMELAZAE (L.BIOTOAIDITEMOMELEZADE)	4 124-48-1	10	1		
-		10	4	10	
1,2-Dibromo-3-chloropropane (DBCP)	<del>96</del> -12-8	[0.002]	2	[2]	
Di-n-butyl phthalate	84-74-2	900	20	900	
1,2-Dichlorobenzene	95-50-1	600	5	600	
1,3,Dichlorobenzene	541-73-1	600	5	600	
1.4-Dichlorobenzene	10/ 1/ 0				
3,3'-Dichlorobenzidine	106-46-7	75	5	75	
	91-94-1	0.08	60	60	
1,1-Dichloroethane	75-34-3	70	NA	70	1
1,2-Dichloroethane	107-06-2	0.3	2	2	
1,1-Dichloroethylene	75-35-4	1		•	
cis-1,2-Dichloroethylene	156-59-2	10	2 2	2	
trans-1,2-Dichloroethylene	156-60-5	100		10	
2,4-Dichlorophenol	120-83-2		2	100	
•	120-03-2	20	10	20	
l,2-Dichloropropane	78-87-5	0.5	. 1	1	
is-1,3-Dichloropropene	10061-01-5	NA	5	NA	
rans-1,3-Dichloropropene	10061-02-6	NA	3 7	NA	
1,3-Dichloropropene (cis and trans)	542-75-6	0.2	NA '		
Dieldrin	<b>60-57-1</b>	0.002	NA 0.03	.02	•
		U.UU <i>L</i>	0.03	0.03	
Diethyl phthalate	84-66-2	5,000	10	5,000	
2,4-Dimethylphenol	105-67-9	100	20	100	
Dimethyl phthalate	131-11-3	[7,000]	10	[7000]	
l,6-Dinitro-o-cresol	534-52-1	NA	60	NA	
d Distance benefit					
4-Dinitrophenol	51-28-5	10	40	40	
,4-Dinitrotoluene/2,6-Dinitrotoluene mixture	121-14-2	0.05	10	10	•
,6-Dinitrotoluene	606-20-2	NA	10	NA	
Di-n-octyl phthalate	117 <b>-84-0</b>	100	NA	100	
Dinoseb .	88-85-7	7	1	-	
,2-Diphenylhydrazine	122-66-7		2	7	
Diquat	85-00-7	0.04	NA	0.04	
Endosulfan	115-29-7	20	NA	20	
· · · ·	113-49-7	0.4	NA	0.4	
lpha-Endosulfan (Endosulfan I)	959-98-8	0.4	0.02	0.4	
eta-Endosulfan (Endosulfan II)	33213-65-9	0.4	0.04	0.4	•
Indosulfan sulfate	1031-07-8	0.4	0.08	0.4	
Indothall	145-73-3	100	NA	100	
		. 100	INA .	100	
Indrin	72-20-8	2	0.04	· 2	
pichlorohydrin	106-89-8	4	NA	4	
Ithylbenzene	100-41-4	700	5	700	
Ubylene dibromide	106-93-4	0.0004	0.05	0.05	
luoranthene					
	206-44-0	300	10	300	
luorene	86-73-7	300	10	. 300	
luoride	16984-48-8	2000	500	2000	
'oaming agents (ABS/LAS)		500	0.5	500	
Sivohosate	1071 97 6	800			
· · · · · ·	1071-83-6	700	NA	700	• •
lardness (as CaCO <sub>3</sub> )		[50 <h<]250mg l<="" td=""><td>10 mg/L '</td><td>250 mg/L</td><td></td></h<]250mg>	10 mg/L '	250 mg/L	
leptachior	76-44-8	0.008	0.4	0.4	
leptachior epoxide	1024-57-3	0.004	0.2	0.2	
Iexachlorobenzene	118-74-1	0.02	10	••	•
lexachlorobutadiene	87-68-3		10	10	
lexachlorocyclopentadiene	87-06-3 77-47-4	1	1	1	
lexachloroethane		50 0.7	10	50	
	67-72-1	0.7	10	10	
lydrogen sulfide	7783-06-4	20	NA	20	
ndeno(1,2,3-cd)pyrene	193-39-5	[0.03]	20	[20]	
ron	7439-89-6	300	100	300	
sophorone	78-59-1	100	100	100	
			TA	100	
ead (Total)	7439-92-1	5	10	10	
	121-75-5	200	5	200	
falathion					
falathion fanganese	7439-96-5	. 50	6	. 50	

(CITE 25 N.J.R. 538)

ADOPTIONS	•		El	WIRONMENT ALOPRO	NOTDER
Methoxychlor	72-43-5	40	10	40	
Methyl bromide (bromomethane)	74-83-9	10	2	10	
Methyl chloride (chloromethane)	74-87-3	30	2	30	
Methyl ethyl ketone	78-93-3	300	NA	300	
3-Methyl-4-chlorophenol	59-50-7	NA			
Methylene chloride	75-09-2	2	20	NA	
4-Methyl-2-pentanone	108-10-1	400	. 2	. 2	
Mirex	2385-85-5	0.01	NA NA	400	
			INA	0.01	
Nickel (Soluble salts)	7440-02-0	100	10	100	
Nitrate (as N)	14797-55-8	10,000	400	10,000	
Nitrate and Nitrite (as N)		10,000	NA	10,000	
Nitrite (as N)	14797-65-0	1,000	400	1,000	
Nitrobenzene	98-95-3	3	10	10	
N-Nitrosodimethylamine	62-75-9	0.0007	20	20	
N-Nitrosodiphenyłamine	86-30-6	7	20	20	
N-Nitrosodi-n-propylamine	621-64-7	0.005	20	20	
Odor	•	3°	NA	36	
Oil & Grease and Petroleum Hydrocarbons (PHC)		None Noticeable	NA NA	-	
Oxamyl	23135-22-0	200	20	None Noticeable 200	
PCBs (Polychlorinated biphenyls)	1336-36-3	0.02	0.5	0.5	
			v	. 05	
Pentachiorophenol	87-86-5	0.3	1	1	
pH	05 01 0	6.5-8.5	NA	6.5-8.5	
Phenanthrene	85-01-8	' NA	10	NA	ç
Phenol	108-95-2	4000	10	4000	
Picioram	1918-02-1	500	1	500	•
Pyrene	129-00-0	. 200	20	200	
Selenium (Total)	7782-49-2	50	10	50	
Silver	7440-22-4	[20]	2	[20]	
Simazine	122-34-9	1	0.8	1	
Sodium	7440-23-5	50,000	406 .	50,000	
Styrene	100-42-5	100	5	100	
Sulfate	14808-79-8	250,000	5000	250,000	
Taste		None Objectionable [Noticeable]	NA	None Objectionable	
TCDD (2,3,7,8-Tetrachlorodibenzo-p-dioxin)	- 1746-01-6	0.0000002	0.01	[Noticeable]	
1,1,1,2-Tetrachloroethane	630-20-6	10	NA	0.01 10	
1,1,2,2-Tetrachloroethane	79-34-5	2	1 .	2	
Tetrachioroethylene	127-18-4 58-90-2	0.4	- 1	1	
2,3,4,6-Tetrachlorophenol Thailium	7440-28-0	NA 0.5	10	NA	•
Toluene	108-88-3	1,000	10 · 5	10	
	100-00-0			1,000	· . ·
Total dissolved solids (TDS)		500,000	10,000	500,000	
Toxaphene	8001-35-2	0.03	3	3	
2,4,5-TP	93-72-1	50	5	50	
1,2,4-Trichlorobenzene	120-82-1	. 9	1	9 .	
1,1,1-Trichloroethane	71-55-6	30	1	30	•
1,1,2-Trichloroethane	79-00-5	3	2	3	
Trichloroethylene	79-01-6	1	1	1	
2,4,5-Trichlorophenol	95-95-4	700	10	700	
2,5,6-Trichlorophenoi	88-06-2	3	20	20	
Vinylchloride	75-01-4	0.08	5	5	
Xylenes (Total)	1330-20-7	40	2	40	
m&p-Xylenes	. NA	NA	2	NA	
o-Xylene Zine	NA 7440-66-6	• NA 5 000	- 1	NA	
Zinc		5,000	30	5,000	
Microbiological criteria",	Prevailing Safe Drinkin	5			
Radionuclides &	Water Act Regulations			×	
Turbidity	(N.J.A.C. 7:10-1 et seq.)	-			

Explanation of Terms:

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• = Ground Water Quality Criteria and PQLs are expressed as ug/L unless otherwise noted. Table 1 criteria are all maximum values unless clearly indicated as a range for which the minimum value is to the left and the maximum value is to the right.

PQL-Practical Quantitation Level as defined in N.J.A.C. 7:9-6.4

CASRN-Chemical Abstracts System Registration Number

NA = not available for this constituent

a = Asbestos criterion is measured in terms of fibers/L longer than 10 micrometers (UL>10 um)

## 101620 ADOPTIONS

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NA

NA

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0.02

0.04

0.08

NA

NA

05

3000

#### ENVIRONMENTAL PROTECTION

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\*

ug = micrograms, L = liter, f = fibers, CU = Standard Cobalt Units

b = Odor Threshold Number, mg = milligrams, H = Hardness

(Total) means the concentration of metal in an unfiltered sample following treatment with hot dilute mineral acid (as defined in "Methods for Chemical Analysis of Water & Wastes", EPA-600/4-79-020, March 1979) or other digestion defined by the analytical method. However samples that contain less than 1 nephlometric turbidity unit (NTU) and are properly preserved, may be directly analyzed without digestion.

m = Pursuant to prevailing Safe Drinking Water Act Regulations any positive result for fecal coliform is in violation of the MCL and is therefore an exceedance of the ground water quality criteria.\*

TABL INTERIM GENERIC GROUND		Y CRITERIA	Bromoform Butyibenzyl phthalate	75-25-2 85-68-7
Interim Generic Criteria-Synthe	tic Organic Chemi	icals (SOC)*	Cadmium (total) Carbofuran	7440-43-9 1563-66-2
Constituent	Wat	er Quality Criteria		
SOCs with evidence of			Carbon tetrachloride Chlordane	56-23-5 57-74-9
carcinogenicity lacking			Chloride	16887-00-6
specific or interim specific criteria		5 ug/l each	Chlorobenzene	108-90-7
speeze enterna		25 ug/l total	Chloroform	67-66-3
SOCs lacking evidence		-	4-Chloro-3-methyl (o-chloro-m-cresol)	59-50-7
of carcinogenicity lacking			2-Chlorophenol	95-57-8
specific or interim			Chlorpyrifos	2921-88-2
specific criteria		100 ug/l each	Chromium (Total)	7440-47-3∧
		500 ug/l total	Chrysene	218-01-9
*SOCs are identified as having "evidence	of carcinogenicity"	or "lacking evidence	Color (Platinum-Cobalt Units)	NA 7440 50 8
of carcinogenicity" based upon availab			Copper	7440-50-8
classified as carcinogens or noncarcino according to the weight of evidence util			Corrosivity	NA
Drinking Water Regulations (50 FR 4			Cyanide 2.4-D	57-12-5 94-75-7
Printing man reguments (or 111 -		•	Dalapon	75-99-0
*[TAB	LE 3		•	
PRACTICAL QUAN		S	4,4'-DDD (p,p'-TDE) 4,4'-DDE	72-54-8 72-55-9
FOR SELECTED	CONSTITUENTS		4,4'-DDE 4,4'-DDT	50-29-3
			Demeton	8065-48-3
Constituent	CASRN	PQL		53-70-3
		(ug/L)*	Dibenz(a,h)anthracene Dibromochloromethane	53-70-5
Acenaphthene	83-32-9	10	(Chlorodibromomethane)	124-48-1
Acenapthylene	208-96-8 107-02-8	10 50	1,2-Dibromo-3-chloropropane (DBCP)	96-12-8
Acrolein Acrylamide	79-06-1	NA	Di-n-butyl phthalate	84-74-2
			1,2-Dichlorobenzene	95-50-1
Acrylonitrile	107-13-1 103-23-1	_ 50 6	1,3-Dichlorobenzene	541-73-1
Adipates (Di(ethylhexyl)adipate) Alachlor	15972-60-8	· 2	1,4-Dichlorobenzene	106-46-7
Aldicarb sulfone	1646-88-4	3	3,3'-Dichlorobenzidine	91-94-1
Aldrin	309-00-2	0.04	1,2-Dichloroethane	107-06-2
Aluminum	7429-90-5	200	1,1-Dichloroethylene	75-35-4
Ammonia	7764-41-7	200	cis-1,2-Dichloroethylene trans-1,2-Dichloroethylene	156-59-2 156-60-5
Anthracene	120-12-7	10		
Antimony	7440-36-0	20	2,4-Dichlorophenol	120-83-2
Arsenic (Total)	7440-38-2	8	1,2-Dichloropropane 1,3-Dichloropropene (cis and trans)	78-87-5 542-75-6
Asbestos	1332-21-4	100,000f/L<10um	cis-1,3-Dichloropropene	10061-01-5
Atrazine	1912-24-9	1	· · · · · · · · · · · · · · · · · · ·	
Barium	7440-39-3	200	trans-1,3-Dichloropropene	10061-02-6 60-57-1
Benz(a)anthracene	56-55-3	10	Diethyl phthalate	84-66-2
Benzene	71-43-2	1 50	2,4-Dimethyl phenol	105-67-9
Benzidine	92-87-5	50	Dimethyl phthalate	131-11-3
Benzo(a)pyrene (BaP)	50-32-8	20	4,6-Dinitro-o-cresol	534-52-1
3,4-Benzofluoranthene	205-99-2	10	2,4-Dinitrophenol	51-28-5
(Benzo(b)fluoranthene) Benzo(ghi)perylene	191-24-2	20	2.4-Dinitrotoluene	121-14-2
Benzo(k)fluoranthene	207-08-9	20	2,6-Dinitrotoluene	606-20-2
Beryllium	7440-41-7	20	Dinoseb	88-85-7
alpha-BHC (alpha-HCH)	319-84-6	0.02	1,2-Diphenylhydrazine	122-66-7
beta-BHC (beta-HCH)	319-85-7	0.04	Diquat	85-00-7
gamma-BHC (gamma-HCH/Lindane)	58-89-9	0.2	Endosulfan	115-29-7
Bis(2-chloroethyl) ether	111-44-4	10	alpha-Endosulfan (Endosulfan I)	959-98-8
Bis(2-chloroisopropyl) ether	39638-32-9	10	beta-Endosulfan (Endosulfan II)	33213-65-9
Bis(2-ethylhexyl) phthalate	117-81-7	30	Endosulfan sulfate	1031-07-8
Bromodichloromethane		-		
(Dichlorobromomethane)	75-27-4	1		

(CITE 25 N.J.R. 540)

ADOPTIONS			۲ 1 دستر	-10.46.20	
Endothall	145-73-3	NA	pH		NA
Endrin	72-20-8	0.04	Phenanthrene	85-01-8	10
Epichlorohydrin	106-89-8	NA	Phenol	108-95-2	10
Tel. Ib come	100-41-4	5	Phosphorus	7723-14-0	80
Ethylbenzene	106-93-4	0.05	Picloram	1918-02-1	1
Ethylene dibromide	206-44-0	10	Pyrene .	129-00-0	20
Fluoranthene		10	Fyrene .		
Fluorene	86-73-7	10	Selenium (Total)	7782-49-2	10
Fluoride	16984-48-8	500	Silver	7440-22-4	. 2
Foaming agents (ABS/LAS)		0.5	Simazine	122-34-9	0.8
Glyphosate	1071-83-6	NA	Sodium	7440-23-5	400
Hardness (as CaCO <sub>3</sub> )		10		100 10 5	5
			Styrene	100-42-5	•
Heptachlor	76-44-8	0.4	Sulfate	14808-79-8	5000
Heptachlor epoxide	1024-57-3	0.2	Taste		NA
Hexachlorobenzene	118-74-1	10	TCDD (2,3,7,8-Tetrachlorodibenzo-		
Hexachlorobutadiene	87-68-3	1	p-dioxin)	1746-01-6	0.01
Timeshiananalanantadiana	77-47-4	10	1,1,2,2-Tetrachloroethane	79-34-5	1
Hexachlorocyclopentadiene	67-72-1	10	Tetrachloroethylene	127-18-4	. 1
Hexachloroethane	•••••		2,3,4,6-Tetrachlorophenol	58-90-2	10
Hydrogen sulfide	7783-06-4	. NA		7440-28-0	10
Indeno(1,2,3-cd)pyrene	193-39-5	20	Thallium		
Iron	7439-89-6	100	Toluene	108-88-3	5
Isophorone	78-59-1	10	Total dissolved solids (TDS)		10000
Lead (Total)	7439-92-1	10	Toxaphene	8001-35-2	3.
Malathion	121-75-5	5	2,4,5-TP	93-72-1	5 .
	7439-96-5	6	1.2.4-Trichlorobenzene	120-82-1	1
Manganese	7439-97-6	0.5	1.1.1-Trichloroethane	71-55-6	1
Mercury (Total)		10	1.1.2-Trichloroethane	79-00-5	2
Methoxychlor	72-43-5		' Trichloroethylene	79-01-6	1
Methyl bromide (bromomethane)	74-83-9	2	Inchoroeunylene		
Methyl chloride (chloromethane)	74-87-3	2	2,4,5-Trichlorophenol	95-95-4	10
3-Methyl-4-chlorophenol	59-50-7	20	2,4,6-Trichlorophenol	88-06-2	20
Methylene chloride	75-09-2	2	Vinyl chloride	75-01-4	5
Mirex	2385-85-5	NA	The same officer and	1330-20-7	2
			Xylenes (Total)	1550-20-7 NA	2
Nickel (Soluble salts)	7440-02-0	10	m&p-Xylenes	• • • •	1
Nitrate (as N)	14797-55-8	400	o-Xylene	NA	30
Nitrite (as N)	14797-65-0	400	Zinc	7440-66-6	. 00
Nitrobenzene	98-95-3	10	Microbiological criteria,		NA
M Misson din shadamin i	62-75-9	20	Radionuclides &		NA
N-Nitrosodimethylamine	86-30-6	20	Turbidity		NA
N-Nitrosodiphenylamine		20	2 diolotiy		
N-Nitrosodi-n-propylamine	621-64-7	20 NA	Embastion of Terms		
Odor		NA	Explanation of Terms		
Oil & Grease		20000	PQL-Practical Quantitation	Level as defined in NJ.	A.C. 7:9-6.3.
Petroleum Hydrocarbons (PHC)		2000	ug = micrograms	-	•
Oxamyl	23135-22-0	20	L = liter	•	
PAHs (Polynuclear aromatic hydrocarbons)		NA	f = fibers		
	1006 06 0	0.5	$\Lambda$ = CASRN of chromium VI		
PCBs (Polychlorinated biphenyls)	1336-36-3	1	NA = Practical Quantitation Level 1	not available for this con	istituent.]*
Pentachlorophenol	87-86-5	1			

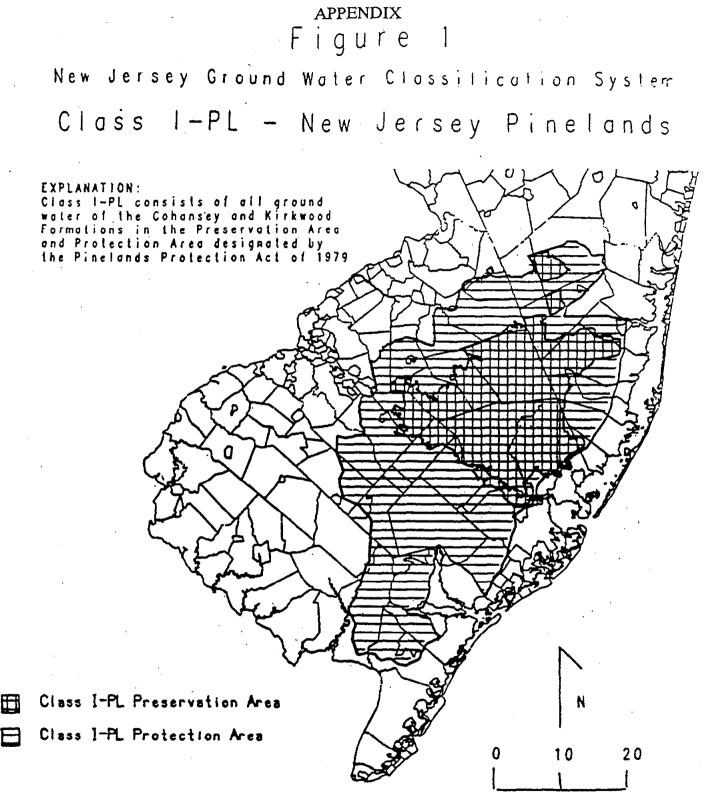
Editor's Note: Appendix "New Jersey Groundwater Classification System—Classification of Surgical Ground Water Units" has been deleted from the adoption.

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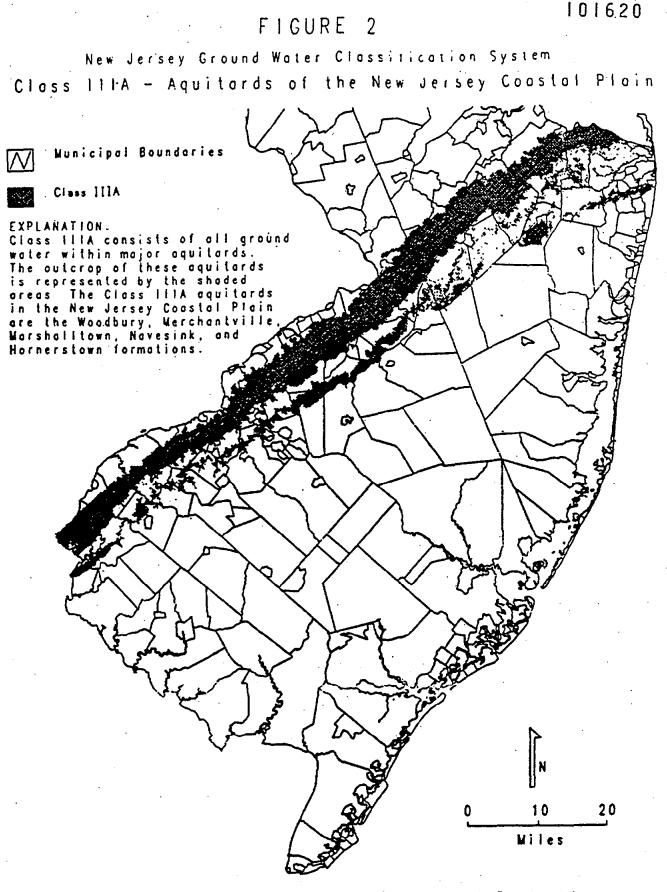
ADOPTIONS



Miles

New Jersey Department of Environmental Protection 1990

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New Jersey Department of Environmental Protection 1990

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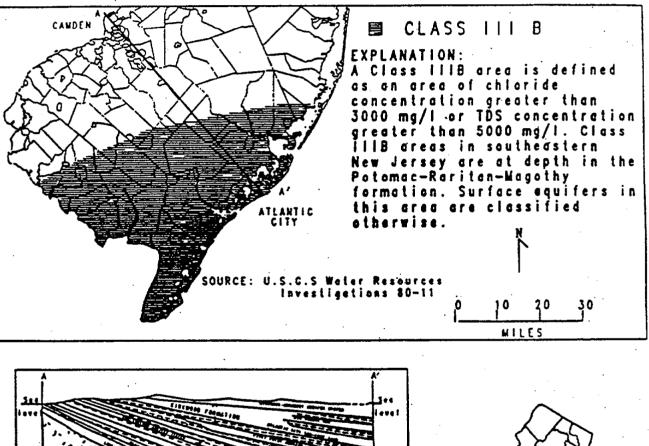
(CITE 25 N.J.R. 543)

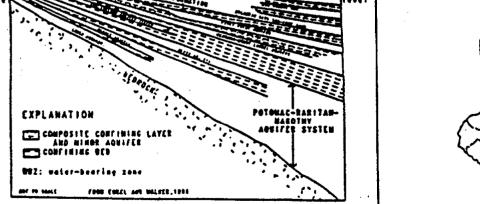
## FIGURE 3

NEW JERSEY GROUND WATER CLASSIFICATION SYSTEM

# CLASS IIIB

## CRETACEOUS POTOMAC-RARITAN-MAGOTHY FORMATION





MAP AREA

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION 1990

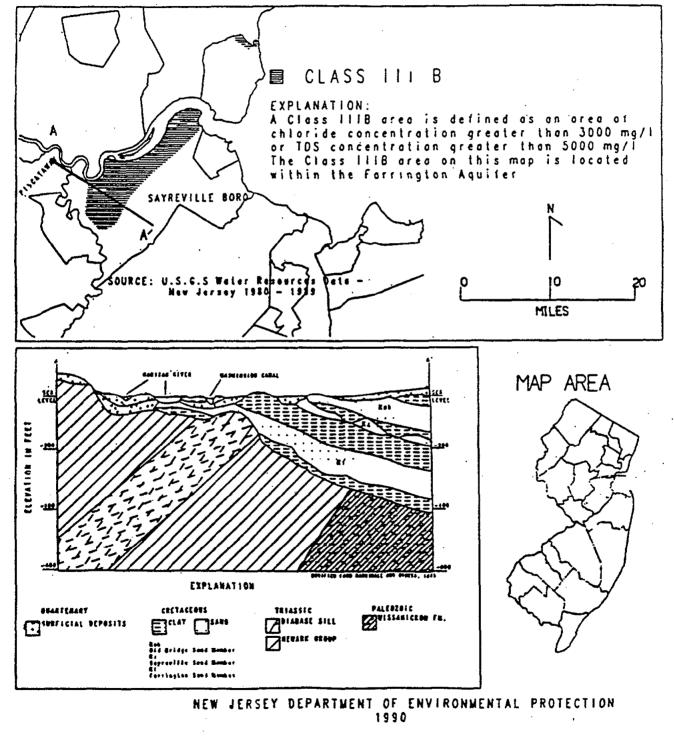
(CITE 25 N.J.R. 544)

## FIGURE 4

NEW JERSEY GROUND WATER CLASSIFICATION SYSTEM

## CLASS IIIB

FARRINGTON AQUIFER



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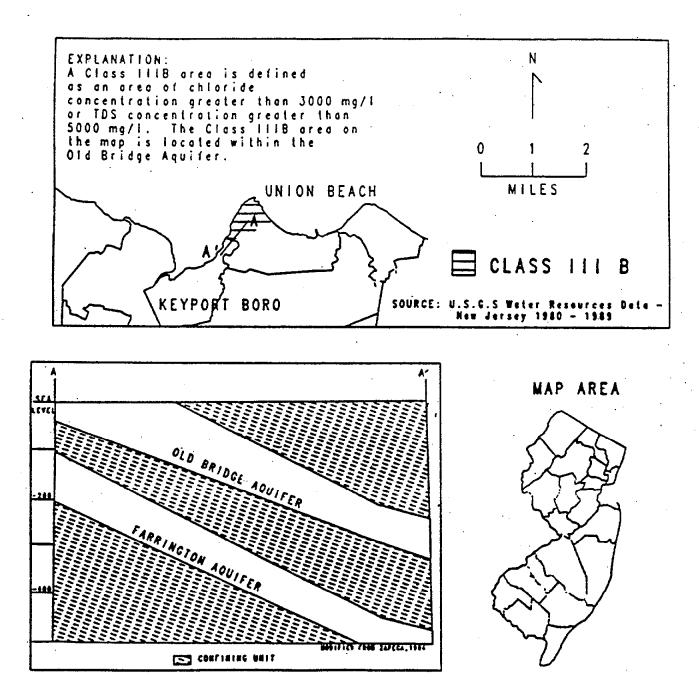
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# ADOPTIONS

## FIGURE 5

## NEW JERSEY GROUND WATER CLASSIFICATION SYSTEM

# CLASS IIIB OLD BRIDGE AQUIFER



NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION 1990

(CITE 25 N.J.R. 546)