



Technical Memo

Interim Ground Water Quality Standards – New Jersey

Updated: December 2, 2015

On November 25, 2015, NJDEP Site Remediation & Waste Management Program issued Interim Ground Water Quality Standards (IGWQS) for 12 constituents¹. The use of these IGWQS is effective immediately. IGWQSs are also considered ground water remediation standards².

Constituent	CAS #	TCL/TAL Compound?	Higher of PQL and Interim GWQC (µg/L)
1-chloro-1,1-difluoroethane	75-68-3	No	100,000
Cresols (mixed isomers) <i>synonyms: 2-Methylphenol[#]; 3-Methylphenol[#]; 4-Methylphenol[#]</i>	95-48-7	YES	50
	108-39-4		
	106-44-5		
1,1-dichloro-1-fluoroethane	1717-00-6	No	500
1,4-dioxane* [#]	123-91-1	YES	0.4**
1-methylnaphthalene	90-12-0	No	5
Perfluorononanoic acid (PFNA)	375-95-1	No	0.01
Strontium	7440-24-6	No	2,000
1,1,2-trichloro-1,2,2-trifluoroethane (Freon 113) [#]	76-13-1	YES	20,000
1,1,1-trifluoroethane	420-46-2	No	5,000
1,2,4-trimethylbenzene [#]	95-63-6	No	100
tri-cresyl phosphate (mixed isomers)	1330-78-5	No	3
	563-04-2		
	78-32-0		
tri-ortho-cresyl phosphate	78-30-8	No	3

* See exclusions on next page

** In order to reach this low limit, IAL must utilize SW-846 8270D

IAL holds certification for these compounds

The use of these standards becomes effective immediately upon posting to the Department website (11/25/15) at those sites where these constituents are known or potential contaminants of concern.

(continued on next page)

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1,4-Dioxane is *partially* excluded from this rule because the ground water remediation standard is changing by more than an order of magnitude (Old: 10ppb versus New: 0.4ppb).

- For all active sites where 1,4-dioxane is a known or potential contaminant of concern, the use of the new ground water remediation standard is effective immediately upon posting to the Department website³.
- An order of magnitude evaluation is required for sites that:
 - Are being remediated:
 - Pursuant to a Ground Water Remedial Action Permit OR
 - Without a Ground Water Remedial Action Permit by an active ground water treatment system or by natural monitored attenuation
 - Were previously remediated to 10 ppb, if and when the site is subsequently reevaluated (i.e., there is a new ISRA trigger, pending sale of a non-ISRA site prompts a reevaluation of the property, etc.)
- The purpose of this evaluation is to determine whether the existing engineering or institutional controls on the site prevent exposure to the contamination and that the site remains protective of public health, safety and the environment.

The requirements of the *Technical Requirements for Site Remediation*⁴ are to be applied in the evaluation of these new ground water remediation standards at sites.

- Samples for all environmental media shall be analyzed for:
 - The contaminants that may be present as determined during the preliminary assessment and/or from any other information obtained during the remediation; or
 - The Target Compound List plus TICs/Target Analyte List (TCL + TICs/TAL), hexavalent chromium, extractable petroleum hydrocarbons (EPH), and pH when contaminants are unknown or not well documented

References:

¹ www.nj.gov/dep/wms/bears/gwqs_interim_criteria_table.htm

² Pursuant to N.J.A.C. 7:26D-2.2(a)1

³ In accordance with the Brownfield and Contaminated Site Remediation Act (Brownfield Act) at N.J.S.A. 58:10B-12.j.

⁴ N.J.A.C. 7:26E-2.1(c)1

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