

Updated Soil Remediation Standards – New Jersey

Updated: September 20, 2017

On September 18, 2017, NJDEP Site Remediation & Waste Management Program issued updates to the Soil Remediation Standards (SRS) for 19 constituents¹ due to USEPA updates to the Integrated Risk Information System (IRIS)². The use of these updated SRS limits is effective immediately, with special provisions concerning the compounds detailed in Note 4 below.

Analyte Name	CAS #	Residential SRS			Non-Residential SRS		
		Old (mg/kg)	New (mg/kg)	Change	Old (mg/kg)	New (mg/kg)	Change
Benzo[a]anthracene	56-55-3	0.6	5	Higher	2	17	Higher
Benzo[a]pyrene	50-32-8	0.2	0.5	Higher	0.2	2	Higher
Benzo[b]fluoranthene	205-99-2	0.6	5	Higher	2	17	Higher
Benzo[k]fluoranthene	207-08-9	6	45	Higher	23	170	Higher
Biphenyl, 1,1-	92-52-4	3100	61	Lower	34,000	240	Lower
Carbon Tetrachloride	56-23-5	0.6	2	Higher	2	4	Higher
Chrysene	218-01-9	62	450	Higher	230	1700	Higher
Cyanide, Total	57-12-5	1600	47	Lower	23,000	680	Lower
Dibenz(a,h)anthracene	53-70-3	0.2	0.5	Higher	0.2	2	Higher
Hexachloroethane	67-72-1	35	12	Lower	140	48	Lower
Indeno[1,2,3-cd]pyrene	193-39-5	0.6	5	Higher	2	17	Higher
Methylene Chloride	75-09-2	34	46	Higher	97	230	Higher
Nitrobenzene	98-95-3	31	5	Lower	340	14	Lower
Pentachlorophenol	87-86-5	3	0.9	Lower	10	3	Lower
Tetrachloroethane,1,1,2,2-	79-34-5	1	1	SEE NOTE 1	3	3	SEE NOTE 1
Tetrachloroethene	127-18-4	2	43	Higher	5	1500	Higher
Thallium	7440-28-0	5	withdrawn	SEE NOTE 2	79	withdrawn	SEE NOTE 2
Trichloroethane, 1,1,1-	71-55-6	290	160,000	Higher	4200	NA	SEE NOTE 3
Trichloroethene	79-01-6	7	3	Lower	20	10	Lower

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Technical Memo

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NOTES:

1. There are no changes to 1,1,2,2-Tetrachloroethane's SRS standards. However, the existing inhalation unit risk factor in the IRIS database was withdrawn
2. Per IRIS, there is inadequate toxicity information for TI available. SRS limits are withdrawn. IGW limits remain since IGW is driven by GWQS
3. Using IRIS values to calculate an updated Non-Res SRS limit yielded a value exceeding 1,000,000ppm (100%), thus no limit can feasibly exist
4. 1,1-Biphenyl (res/non-res); Cyanide (res/non-res); Nitrobenzene (non-res): Order of magnitude change ($\geq 10x$ lower than previous standard) – the DEP may require remediation down to the new levels. Consult the Brownfields Act³ and/or Tech Rules⁴ for detailed information.

The use of these standards becomes effective immediately upon posting to the Department website (9/18/17) at those sites where these constituents are known or potential contaminants of concern. Special provisions may apply for analytes with an order of magnitude change. See Note 4 above.

IAL can meet the necessary reporting limits for the values which have decreased.

Thank you for your continued use of IAL's services.

References:

¹ Announced via SRRA ListServ http://www.nj.gov/dep/srp/srra/listserv_archives/2017/20170918_srra.html . For changes to the Remediation Standards, N.J.A.C. 7:26D, www.nj.gov/dep/rules/rules/njac7_26d.pdf

² www.epa.gov/iris

³ In accordance with the Brownfield and Contaminated Site Remediation Act (Brownfield Act) at N.J.S.A. 58:10B-12.j and 13e, <http://www.nj.gov/dep/srp/regs/statutes/bcsra.pdf>

⁴ Technical Requirements for Site Remediation, N.J.A.C. 7:26E, http://www.nj.gov/dep/rules/rules/njac7_26e.pdf

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