

ENVIRONMENTAL REMEDiation SUCCESS

JUNE 2008

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SPECIAL POINTS OF INTEREST:

- NJDEP's new Soil Remediation Standards will be phased in from June 2 through December 2, 2008.
- Since DEP's old Soil Cleanup Criteria (SCC) is less stringent than the new standards, cleanups may be less costly for the next six months!

NJDEP'S NEW SOIL REMEDIATION STANDARDS

The New Jersey Department of Environmental Protection (NJDEP) has published the final Soil Remediation Standards (SRS) for residential and non-residential direct contact scenarios.

NJDEP has decided not to establish the minimum impact to ground water SRS at this time. Instead, those standards will be developed on a site specific basis.

At a recent NJDEP roundtable, Assistant Director Dr. Barry Frasco informed BEI that the new SRS will be phased in gradually from

June 2 to December 2, 2008.

To help you better understand the new SRS, we've included side-by-side tables comparing the SCC to the SRS for some of the most commonly encountered contaminants on page 4.

Additionally, NJDEP plans to issue new soil cleanup criteria for petroleum hydrocarbons. NJDEP believes that the standard will be either 4,700 or 4,800 mg/kg (current standard is 10,000 mg/kg).

For more NJDEP updates, please read page 2 of our newsletter.



Soil remediation that BEI implemented at an industrial property.

TIP: NOW IS A GREAT TIME TO RE-EVALUATE CLEANUP PLANS

With the new NJDEP SRS being phased in through December 2, now is a great time for you and your clients to re-evaluate your cleanup plans.

Here's why: through December 2, 2008, the old Soil

Cleanup Criteria (SCC) and impact to groundwater can be used on two conditions. First, an order of Magnitude Test must be passed. Second, an accurate Remedial Action Report or Workplan must be submitted during this time period.

Since the old SCC may be less stringent than the new standards, cleanups of contaminated properties will be less costly for the next six months. Please call John Brennan with questions about these new standards.

UNDER NJDEP'S NEW UNREGULATED HEATING OIL TANK PROGRAM, NFA LETTERS ARE EXPEDITED

If you are interested in selling your home or commercial property and have an underground storage tank, it is often necessary to have it investigated and remediated.

Through NJDEP's new program known as the 'UHOT' program, pre-qualified environmental consultants such

as BEI, are able to investigate and remediate these storage tanks with limited DEP oversight.

This benefits you as a home owner or property owner because it means a faster closing on your property.

NJDEP No Further Action ('NFA') letters typically

have taken anywhere from a few months to a few years to obtain.

However, through the Unregulated Heating Oil Tank program, we are now able to receive 'NFA' letters for our clients within two weeks. This is great news if your 'NFA' letter is the one thing that is holding up your closing.



Picture of an unregulated heating oil tank

NJDEP'S LICENSED SITE PROFESSIONALS PROGRAM

NJDEP is currently working on developing a Licensed Site Professional program, which will enable pre-qualified environmental consultants to receive 'NFA' letters more quickly for their clients.

How it Will Work:

The new program will enable pre-qualified environmental

consultants to work on some of the more complex environmental cases with limited NJDEP oversight.

In return, NJDEP will sign off on LSPs reports more quickly, thereby granting 'NFA' letters for sites much more quickly.

To date, NJDEP has not determined what criteria

environmental consultants must meet to become licensed site professionals.

For your reference:

To learn more about the 'UHOT' program, please visit

<http://www.state.nj.us/dep/srp/unregulatedtanks/>

For more on Licensed Site Professionals, please visit:

*http://www.nj.gov/dep/srp/stakeholders/proposed_reforms.htm

"Through the 'UHOT' program, we are now able to receive 'NFA' letters for our clients within two weeks time."

REMEDICATION TREATMENT APPROACHES

The principle types of remediation are known as ex-situ and in-situ. Ex-situ remediation involves removing and treating contaminated soil and ground water in another location, either on or off-site. The types of ex-situ remediation include incineration, solidification and stabiliza-

tion, soil washing/steam stripping, bioremediation and air stripping.

Ex-situ methods are not always feasible, due to various construction obstacles. For example, if the impacted soil is difficult to gain access to because it is under a build-

ing, a method called in-situ remediation is more plausible. In-situ remediation is an effective and recognized method of treating contamination in place. It includes chemical oxidation, bioremediation/augmentation, soil vapor extraction, pump and...

Story continues on page 3



BEI scientists perform in-situ remediation on contaminated soil at a residential property

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ENVIRONMENTAL CONSULTING SERVICES

REMEDIATION TREATMENT APPROACHES CONT'D...

treat/dual phase extraction, metals stabilization, steam injection, thermal desorption/six phase heating and natural attenuation.

A combination of technologies, known as a "treatment train" approach, is most com

monly used to treat contamination that involves accessible and inaccessible soil and groundwater. In other words, this approach involves using two or more technologies together to achieve the cleanup objective.

If you have any questions or topics you would like covered in our next newsletter, please feel free to contact Kate Walsh at 908-918-1702 or kwalsh@bei-env.com.

BEI HOLDS ANNUAL FISHING TRIP

BEI held their annual fishing trip on Friday, May 23rd. BEI staffers were successful in catching many blue fish.

BEI staffers particularly enjoyed the beautiful weather, especially after all the rain that we experienced during the prior weeks.

We hope you enjoyed reading the BEI newsletter for June 2008.



Group shot of Brennan Environmental, Inc. staffers enjoying their fishing trip



BEI staffers take a break from fishing to pose for a picture

About BEI

Founded in 1996, Brennan Environmental, Inc. (BEI) is an environmental consulting firm located in Summit, N.J.

BEI typically performs due diligence services including preliminary assessments and site investigations, storage tank management, brownfield redevelopment and remedial services, and ecological services.

The company's growing roster of Northeast clients covers a broad range of law firms, real estate brokerages, as well as insurance, engineering and financial institutions. BEI's dedication to quality consulting in today's ever-changing environmental climate has resulted in solid client relationships, many lasting for the past decade.

JUNE 2, 2008 NJDEP SOIL REMEDIATION STANDARDS
 COMPARED WITH 1999 SOIL CLEANUP CRITERIA
 MOST COMMONLY ENCOUNTERED CONSTITUENT GROUPS

Constituent	1999 Residential Direct Contact SCC	1999 Non-Residential Direct Contact SCC	June 2, 2008 Residential Direct Contact SRS	June 2, 2008 Non-Residential Direct Contact SRS
Benzene	3	13	2	5
1,4-Dichlorobenzene	570	10,000	5	13
Ethylbenzene	1,000	1,000	7,800	110,000
Methyl-tert-butyl ether (MTBE)	NS	NS	110	320
Napthalene	230	4,200	6	17
Tertiary butyl alcohol (TBA)	NS	NS	1,400	11,000
Tetrachloroethene (PCE)	4	6	2	5
Toluene	1,000	1,000	6,300	91,000
Trichloroethene (TCE)	23	54	7	20
Xylenes (Total)	410	1,000	12,000	170,000

Abbreviations/color codes:

SRS – Soil Remediation Standard

SCC – Soil Cleanup Criteria

NS – No Standard



No change or increase in SCC



Decrease in SCC



Order of magnitude decrease in SCC. Could lead to possible re-opening of Areas of Concern which have obtained No Further Action status



No SCC in 1999. Could lead to possible re-opening of Areas of Concern which have obtained No Further Action status

All values are mg/kg or ppm

The SRSs are based on the Soil Remediation Standards released on June 2, 2008

For complete tables of all constituents and other major constituent groups, please contact

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