

EXPLANATORY NOTE

This Form 8-A/A amends the Registration Statement on Form 8-A, dated May 13, 2008 (the "Form 8-A") filed by Perma-Fix Environmental Services, Inc. (the "Company") with respect to the rights to purchase Series A Junior Participating Preferred Stock (the "Rights"), issued pursuant to the Rights Agreement, dated May 2, 2008, between the Company and Continental Stock Transfer & Trust Company ("Continental"), as Rights Agent (the "Rights Agreement"). On September 29, 2008, the Rights Agreement was amended by a certain Letter Agreement between the Company and Continental in order to correct the numbering of certain subparagraphs which were inadvertently misnumbered in the Rights Agreement. The Letter Agreement is attached as Exhibit 4.3 to this Registration Statement and is incorporated herein by reference.

Item 2. Exhibits.

<u>Exhibit</u>	<u>Description</u>
4.1	Rights Agreement, dated May 2, 2008, between the Company and Continental Stock Transfer & Trust Company, as Rights Agent, which is incorporated by reference from Exhibit 4.1 to the Company's Form 8-K, filed May 8, 2008.
4.2	Certificate of Designations of Series A Junior Participating Preferred Stock, which is incorporated by reference from Exhibit 4.2 to the Company's Form 8-K, filed May 8, 2008.
4.3	Letter Agreement, dated September 29, 2008, between the Company and Continental Stock Transfer & Trust Company, as Rights Agent.

Signatures

Pursuant to the requirements of Section 12 of the Securities Exchange Act of 1934, the registrant has duly caused this registration statement to be signed on its behalf by the undersigned, thereto duly authorized.

Dated: October 1, 2008

PERMA-FIX ENVIRONMENTAL SERVICES, INC.

By: /s/ Steven T. Baughman

Steven T. Baughman
Vice President and
Chief Financial Officer