



April 23, 2012

New York City Office of Environmental Remediation
City Brownfield Cleanup Program
c/o Mr. Shaminder Chawla
100 Gold Street, 2nd Floor
New York, NY 10038

**Re: NYC BCP Project #12CBCP039K
544 Union Avenue
Remedial Action Work Plan (RAWP) Stipulation List**

Dear Mr. Chawla,

URS hereby submits a Remedial Action Work Plan (RAWP) Stipulation List for the 544 Union Avenue (the Site) to the New York City Office of Environmental Remediation (OER) on behalf of 544 Unioncon, LLC. This letter serves as an addendum to the RAWP to stipulate additional content, requirements, and procedures that will be followed during the site remediation. The contents of this list are added to the RAWP and will supersede the content in the RAWP where there is a conflict in purpose or intent. The additional requirements/procedures include the follow:

Stipulation List

1. A pre-approval letter from all disposal facilities will be provided to OER prior to any soil/fill material removal from the site. Documentation specified in the RAWP - Appendix 3 - Section 1.6 "Materials Disposal Off-Site" will be provided to OER. If a different disposal facility for the soil/fill material is selected, OER will be notified immediately.
2. A CD containing the final RAWP including this approved Stipulation List will be placed in the library that constitutes the primary public repository for project documents.
3. Signage for the project will include a sturdy placard mounted in a publically accessible right of way to building and other permits signage will consist of the NYC BCP Information Sheet (attached Appendix 1) announcing the remedial action. The Information sheet will be laminated and permanently affixed to the placard.
4. This NYC BCP project involving the removal and transportation of hazardous waste may be subject to the New York state Department of Environmental Conservation's Special Assessment Tax (ECL 27-0923) and

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5. Hazardous Waste Regulatory Fees (ECL 72-00402). See DEC's website for more information:
<http://www.dec.ny.gov/chemical/9099.html>.

6. The manufacturer's specification sheets for the 20 mil Vapor Block Plus is attached to Appendix 2.

Very truly yours,

URS CORPORATION-New York

A handwritten signature in black ink, appearing to read "Robert Wolff".

Robert Wolff

Principal Environmental Scientist

cc: M. Mandac, OER
J. Gluck, J. Petrocelli Contracting, Inc.

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Appendix 1

NYC BCP Signage

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NYC Brownfield Cleanup Program

**544 Union Avenue
Site #: 12CBCP039K**

This property is enrolled in the New York City Brownfield Cleanup Program for environmental remediation. This is a voluntary program administered by the NYC Office of Environmental Remediation.

For more information, log on to:

www.nyc.gov/oer

Or scan with smart phone:



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If you have questions or would like more information, please contact:

Shaminder Chawla at (212) 788-8841
or email us at brownfields@cityhall.nyc.gov

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Appendix 2

VaporBlock Plus Manufacturer's Specification Sheets

URS Corporation - New York
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PRODUCT DESCRIPTION

VaporBlock Plus[™] is a seven-layer co-extruded barrier made from state-of-the-art polyethylene and barrier resins to provide unmatched impact strength as well as superior resistance to gas and moisture transmission. VaporBlock Plus is a highly resilient underslab / vertical wall barrier designed to restrict naturally occurring gases such as radon and/or methane from migrating through the ground and concrete slab. VaporBlock Plus is more than 50 times less permeable than typical high-performance polyethylene vapor retarders against Methane, Radon and other harmful VOC's.

VaporBlock Plus is one of the most effective underslab barriers in the building industry today far exceeding ASTM E-1745 (Plastic Water Vapor Retarders Used in Contact with Soil or Granular Fill Under Concrete Slabs) Class A, B and C requirements. Available in 6 (Class C) and 20 (Class A) mil thicknesses designed to meet the most stringent requirements. VaporBlock Plus is produced within the strict guidelines of our ISO 9001:2000 Certified Management System.

PRODUCT USE

VaporBlock Plus resists gas and moisture migration into the building envelop when properly installed. It can be installed as a passive or active control system extending across the entire building including floors, walls and crawl spaces. When installed as a passive system it is recommended to also include a ventilated system with sump(s) that could be converted to an active control system with properly designed ventilation fans.

VaporBlock Plus works to protect your flooring and other moisture-sensitive furnishings in the building's interior from moisture and water vapor migration, greatly reducing condensation, mold and degradation.

SIZE & PACKAGING

VaporBlock Plus 6 is available in 12' x 200' rolls and VaporBlock Plus 20 in 10' x 150' rolls to maximize coverage. All rolls are folded on heavy-duty cores for ease in handling and installation. Other custom sizes with factory welded seams are available based on minimum volume requirements. Installation instructions and ASTM E-1745 classifications accompany each roll.



PRODUCT

PART
NUMBER

VaporBlock Plus 6 VBP 6

VaporBlock Plus 20 VBP 20

COMMON APPLICATIONS

- Radon Barrier
- Methane Barrier
- VOC's Barrier
- Under-Slab Vapor Retarder
- Foundation Wall Vapor Retarder



VaporBlock[®] Plus[™] 6 & 20

UNDERSLAB VAPOR RETARDER / GAS BARRIER

TECHNICAL DATA SHEET					
PROPERTIES	TEST METHOD	VAPORBLOCK PLUS 6		VAPORBLOCK PLUS 20	
		English	Metric	English	Metric
APPEARANCE		White/Black		White/Gold	
THICKNESS, NOMINAL		6 mil	0.15 mm	20 mil	0.51 mm
WEIGHT		28 lbs/MSF	139 g/m ²	102 lbs/MSF	498 g/m ²
CLASSIFICATION	ASTM E 1745	CLASS C		CLASS A, B & C	
TENSILE STRENGTH 1" (2.54 cm) Average MD & TD (New Material)	ASTM E 154 Section 9 (D882)	22 lbs	98 N	58 lbs	258 N
PUNCTURE RESISTANCE	ASTM D 1709 *Method B	800 g		2600 g	
MAXIMUM USE TEMPERATURE		180°F	82°C	180°F	82°C
PERMEANCE (New Material)	ASTM E 154 Section 7 ASTM E 96 Procedure B	0.090 U.S. Perms	0.060 Metric Perms	0.025 U.S. Perms	0.016 Metric Perms
RADON DIFFUSION COEFFICIENT		N/A		< 0.25 x 10 ⁻¹² m ² /s	
METHANE PERMEABILITY	ASTM D 1434	N/A		< 5 x 10 ⁻¹⁰ m ² /d·atm	

*Method B conditioned at 65% humidity for 14 days.

VaporBlock Plus Placement

Instructions on architectural or structural drawings should be reviewed & followed. Detailed installation instructions accompany each roll of VaporBlock Plus. ASTM E 1643 also provides general installation information for vapor retarders.



VaporBlock Plus[™] is a seven-layer co-extruded barrier made using high quality virgin-grade polyethylene and barrier resins to provide unmatched impact strength as well as superior resistance to gas and moisture transmission. VaporBlock Plus contains a bright white on one side and a metallic gold on the other side.

Note: To the best of our knowledge, unless otherwise stated, these are typical property values and are intended as guides only, not as specification limits. NO WARRANTIES ARE MADE AS TO THE FITNESS FOR A SPECIFIC USE OR MERCHANTABILITY OF PRODUCTS REFERRED TO, no guarantee of satisfactory results from reliance upon contained information or recommendations and disclaims all liability for resulting loss or damage.



ISO 9001:2000
CERTIFIED MANAGEMENT SYSTEM