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season to develop anaerobic conditions in the upper part; and

● hydrology, which is the science of dealing with the properties, distribution and circulation of water.

Section 404 of the Clean Water Act requires developers to obtain a permit before any dredging or fill activity occurs in property encroaching into a wetland.

"If the proposed development is found to impact the wetland area," explains Stevens, the landscape architect must devise an alternative layout or develop a plan that mitigates lost wetland to another on-site location."

To determine the exact

boundaries of wetland area, Stevens says The Lannert Group uses a wetland consultant, a soil scientist and a botanist.

That crew studies sites and makes the proper determination by using various factors:

● the amount of wetland vegetation present,

● the limits of the hydric soil and

● a computer-plot over a map or aerial photograph.

"This not only preserves an irreplaceable natural resource, but also achieves the highest and best possible use of that wetland," says Stevens. More people are able to enjoy the amenity, while its important ecological function has been retained." □

EVENTS

DECEMBER

12-14: Pacific Coast Turf and Landscape Conference and Trade Show, Washington State Convention and Trade Center, Seattle. Contact: Jones and Associates, Park Center, Suite 200, N. 908 Howard St., Spokane, WA 992-01-2261; (509) 327-5904.

13-14: New England Arborists Exposition, Sheraton Inn and Conference Center, Boxborough, Mass. Contact: Elizabeth Collins, Massachusetts Arborists Association, 288 Walnut St., Suite 300, Newton, MA 02160; (617) 332-8683.

JANUARY

4-6: Mid-Atlantic Nurserymen's Trade Show, Baltimore Convention Center. Contact: P.O. Box 314, Perry Hall, MD 21128.

7-9: Maryland Turfgrass Council Conference & Trade Show, Baltimore Marriott Inner Harbor. Contact: Cheryl Gaultney, Michigan Turfgrass Council, 12 Pressie Lane, Churchville, MD 21028.

9: Sacramento Valley Landscape & Nursery Expo, Sacramento Community Convention Center. Contact: Patti Adkins, (916) 729-2606.

13-18: National Institute of Golf Management, Oglebay Park Resort and Conference Center, Wheeling, W.V. Contact: NIGM, Wheeling Park Commission, Oglebay, Wheeling WV 26003, or Department of Continuing Education at Oglebay, (800) 624-6988.

14-16: Great Lakes Nursery & Landscape Trade Show, Amway Grand Plaza Hotel and Grand Center, Grand Rapids, MI. Contact: Michigan Nursery and Landscape Association, 819 N. Washington Ave., Suite 2, Lansing, MI 48906; (517) 487-1282.

14-17: Virginia Turf and Landscape Conference & Trade Show, Richmond Centre and Richmond Marriott, Richmond, Va. Contact: Randeem Tharp, (804) 340-3473.

14-17: University of Maryland Advanced Turfgrass IPM Short Course, College Park, Md. Contact: Lee Hellman, (310) 454-7130.

ATHLETIC TURF

Rebuilding and resodding

Vicnor Farms of Connoquenessing, Pa. uses an innovative method of installing athletic fields.

The company strips off existing vegetation, tills, and adds lime, fertilizer and soil amendments. Fields are graded and sodded with a bluegrass blend.

Vicnor says the soil amendments loosen tight soils, reducing future soil compaction. Another amendment reduces the frequency of irrigation. According to Vicnor, amending the existing soil rather than using a sand base reduces divots caused by athletic cleats. Fields are playable in four to six weeks.

Vicnor Farms, which will consult with schools in maintaining rebuilt fields, is located at Box 227, Connoquenessing, PA 16027. Its phone number is (412) 789-7811.

Natural turf in domes

Technology for installing and maintaining natural turf athletic fields in domed stadiums and other indoor facilities is now available from the Greenway Group of Horsham, Pa.

Greenway, says **Thomas L. Ripley Sr.**, has a patent pending on the Integrated Turf Management (ITM) System, which can also be used over existing artificial surfaces.

ITM provides the first transportable natural turfgrass system, complete with an all-new greenspec lightweight growing medium. The system, which **Dr. Henry Indyk** of Rutgers University helped develop, weighs a fraction of typical growing alternatives. ITM systems also can be interchanged to meet the demand of the sports activity.

For more information, contact Greenway at (215) 343-0110.

Brochure is offered

Dr. Bruce Augustin and **Art Wick** of Lesco, Inc. have authored a new brochure entitled "Athletic Field Turf Maintenance Handbook." The 12-page brochure gives specifications for a variety of athletic fields. To receive a copy, call the Sports Turf Managers Association at (702) 739-8052 or Lesco at (800) 825-3726.