



ATHLETIC FIELD DRAINAGE EVALUATION

Why an Athletic Field Drainage Evaluation is important:

A well-drained athletic field maximizes the safety and performance of your athletes and allows for consistent scheduling of games, practices, and events.

Poorly drained athletic fields are difficult to manage, jeopardize athlete safety, and can result in costly rescheduling and community disappointment. An Athletic Field Drainage Evaluation uncovers the factors that have been contributing to your field's poor drainage and provides solutions to bring your Athletic Fields back to health.

How Tom Irwin Advisors will help:

Our team will perform a targeted scientific investigation into the underlying causes of your drainage challenges. We will determine why your Athletic Field is often saturated through a combination of testing and examination.

What we do for you during an Athletic Field Drainage Evaluation:

We use a wide range of specialized scientific tools and methods to evaluate your Athletic Field according to established performance standards.

- **Drainage System Surface Inspection** – Initial walk through and review of your drainage system's visual characteristics.
- **Drainage System Design Assessment** – Review of the system's plans, "as built", and specifications. Whatever the system, we inspect the available elements.
- **Infiltration Rate Test** – Measure the rate at which water penetrates the surface of the field at multiple locations.

- **Physical Soil Evaluation** – Laboratory analysis determining the characteristics of your soils and their ability to move air and water efficiently.
- **Surface Hardness and Compaction Test** – Measure conditions that impact conductivity, permeability, and infiltration of the rootzone at multiple field locations.
- **Sub-Base Material Examination** – Laboratory and on-site compaction and permeability tests.
- **Drainage / Gravel Layer Test** – Identify lower profile sphericity, angularity, porosity, and contamination.
- **Athletic Field Gradients Evaluation** – We use a laser level to validate if the current grades are capable of moving water across the surface.
- **Discharge Pipe Inspection** – If a blockage in a drain collection and outlet pipe is suspected, we test flow rate and volume.
- **Drainage Camera Inspection** – Where applicable, we use a high definition video camera to inspect the main drain lines and a multi-directional radio detector to locate damage or obstructions.

At the conclusion of the process, you will receive your **Drainage Evaluation Report**:

This details our findings and test results, and provides the solutions that will improve your field's drainage and create outstanding playing conditions for your athletes and community.

TOM IRWIN ADVISORS

Tom IRWIN^{INC.}