

**Materials List for:**

## Design and Construction of an Urban Runoff Research Facility

Benjamin G. Wherley<sup>1</sup>, Richard H. White<sup>1</sup>, Kevin J. McInnes<sup>1</sup>, Charles H. Fontanier<sup>1</sup>, James C. Thomas<sup>1</sup>, Jacqueline A. Aitkenhead-Peterson<sup>1</sup>, Steven T. Kelly<sup>2</sup>

<sup>1</sup>Soil and Crop Sciences Department, Texas A&M University

<sup>2</sup>The Scotts Miracle-Gro Company

Correspondence to: Benjamin G. Wherley at [b-herley@tamu.edu](mailto:b-herley@tamu.edu)

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### Materials

Name	Company	Catalog Number	Comments
Flow Meter	Teledyne Isco	Model 4230	Bubbling flow meter that measures and records water flow through flume
Portable Sampler	Teledyne Isco	Model 6712	Works in conjunction with the flow meter to collect water samples at predetermined intervals.
Flow Link Software to collect data	Teledyne Isco	Ver 5.0	Allows communication between flow meter and computer
Presloped trench drain	Zurn Industries, LLC	Z-886	
Irrigation Controller	Toro Company	VP Satellite	Controls irrigation to each plot individually
Electric Valves	Hunter	2.5 cm PGV	Opens or closes water flow to individual plots based on signal from irrigation controller
Irrigation heads	Hunter	Pro Spray 4	4 in pop up spray heads
6 in Slotted Drain Pipe	Advanced Drainage Systems	6410100	Single wall corrugated HDPE - slotted
6 in Plain Drain Pipe	Advanced Drainage Systems	6400100	Single wall corrugated HDPE - plain
Filter Paper	Whatman GF/F	1825-047	47 mm diameter, binder-free, glass microfiber filter
pH Meter	Fisher	Accumet XL20	
Combination pH Probe	Fisher	13-620-130	
Automatic Temperature Compensating Probe	Fisher	13-602-19	
Electrical Conductivity Probe	Fisher	13-620-100	Cell constant of 1.0
TOC-V <sub>CSH</sub> with total nitrogen unit TMN-1	Shimadzu Corp	TOC-V <sub>CSH</sub> with TMN-1	Dissolved C and N analyzer
Smartchem 200	Unity Scientific	200	Discrete Analyzer for P measurement
ICS 1000	Dionex	ICS 1000	Ion Chromatography for Ca, Mg, K, and Na measurement
Portable Soil Moisture Meter	Spectrum	FieldScout TDR 300	7.5 cm long probes
Totallizing Water Meters	Badger	3/4 inch water meters	Standard homeowner water meters