

Name:	Auditor#:					
	Choose One:	CLIA	QWEL	EPA		

Field Audit Submission Package

Summary

- Read and follow the directions carefully. Field audits are mandatory for: new construction, rehabilitated projects, developer installed or home owner provided landscaping.
- All landscape irrigation audits shall be conducted by a third party certified landscape irrigation auditor. Landscape
 audits shall not be conducted by the person who designed the landscape or installed the landscape. Auditors must
 hold certifications from one of the following agencies; Irrigation Association-CLIA, Qualified Water Efficient LandscaperQWEL, or the Environmental Protection Agency-Water Sense Irrigation System Auditor.
- All landscape requiring a Building Permit, Improvement Plan Permit, or Design Review Permit require a certified landscape irrigation audit.
- In all commercial projects and auditing rate of 15% of the irrigation valves will satisfy the audit requirement. For projects with multiple landscape installations (i.e. production home developments) an auditing rate of 1 in 7 lots or approximately 15% of the projects irrigation valves will satisfy this requirement. City of Roseville Municipal Code 14.18.080 B.

Background _

- Landscapes that are planned, designed, installed, and maintained with the watershed based approach can improve California's environmental conditions and provide benefits and realize sustainability goals.
- Irrigation systems that apply water at a usable rate within the root zone of the plants, through automatic irrigation
 controllers, containing moisture sensors that override automatic irrigation when the soil is already moist or wet are
 all measures that can reduce water demands, yet at the same time provide sufficient moisture to maintain the City's
 climate appropriate landscaping.

Expectations ___

The project applicant shall submit an irrigation audit report with the Certificate of Completion to the local agency that may include, but is not limited to: inspection, system tune-up, system test with distribution uniformity, reporting overspray or run off that causes overland flow, and preparation of an irrigation schedule, including configuring irrigation controllers with application rate, soil types, plant factors, slope, exposure and any other factors necessary for accurate programing.



uditor Information
uditor Name: Auditor License #:
none: Email:
te Information
ontact: Date:
ompany:
none: Email:
te Name: Lot Number:
te Address:
te Type Check applicable
Residential Commercial Municipal
nstallation Type Check applicable
New Project Rehabilitation
rigation System Data Check applicable
atic Pressure: Hose Spigot Quick Coupler Backflow (outgoing) Other
ater Type: Potable Recycled Meter Number: Meter Size:
nits of Measure: Backflow Preventer? Yes No
ow Sensor Installed? Yes No Size: Master Valve Installed? Yes No Size:
ooster Pump? Yes No Size: Pump Max Pressure: Pump Max Flow GPM:
dater Source: Check one Potable Reclaimed Other
ackflow Device: Check one
Reduced Pressure Assembly Double Check Valve Pressure Vacuum Breaker

None

Atmospheric Vacuum Breaker

WATER EFFICIENT LANDSCAPE ORDINANCE





POC Field Flow Data

Station #	Sprinkler Type	Dynamic Pressure	Beginning Read	Ending Readings	Design Flow	Actual Field Flow	Total Run Time

WATER EFFICIENT LANDSCAPE ORDINANCE





Hydrozone Information

Controller Name:					
Irrigated Area					
Plant Material All that apply					
Plant Condition Choose one					
Microclimate Choose one					
Soil Category Choose one					
Root Depth	in.	in.	in.	in.	in.
Slope Choose one			·		
Compaction Yes or No					
Runtime Until Runoff	min.	min.	min.	min.	min.
Standing Water Yes or No					
Hydrozone Separation Yes or No					
Wind Speed Catch can					

Abbreviation Key

Plant Materials

CS= Cool Season Turf **WS**= Warm Season Turf

T= Trees

S= Shrubs **N**= Natives

GC= Ground Cover

Plant Condition

LM= Low or lack of maintenance, stressed.

TRD= Traditional some stress, generally good condtion.

HQ= High quality, majority are vigorously growing.

Microclimate

FS= Full sun

PS= Part shade, less 6hrs per day

SH= Full shade all day

EX= Extreme conditions (hot)

Slope

F= Flat **SL**= Slight

Mod= Moderate

STP= Steep

Soil Category

C= Course

MC= Moderately Course

M= Medium

MF= Moderately Fine

F= Fine

Other

N/A= Not Available



Sprinkler System Review

Controller Name:										
Sprinkler Type <i>Choose one below</i>										
Station Flow Rate (Plan Set)		gpm		gpm		gpm		gpm		gpm
High Pressure		psi		psi		psi		psi		psi
Low Pressure		psi		psi		psi		psi		psi
Action Required X = Needs Correction ✓ = Completed	×	√	×	\checkmark	×	\checkmark	×	√	×	√
Broken Pipes										
Missing/broken heads										
Missing nozzle										
psi adjustment needed										
Clogged nozzle										
Heads not turning										
Arc misalignment										
Low head drainage										
Leaking seals/fittings										
Spray deflected/blocked										
Sunken head										
Tilted heads										
Mismatched heads										
Spray/rotor separation										
Spacing uneven										
Valve malfunction										

Observations on Maintenance Frequency

Site Conditions _____

	CRITERIA	YES	NO	N/A
Leaks	System operates without leaks.			
Overspray	System operates without overspray to buildings or hardscape?			
Run-off	System confined to property, no run-off to hardscape, sidewalk, or gutter. These must be demonstrated and confirmed in the audit.			
	A self-adjusting weather or soil moisture based controller has been installed?			
c . "	Weather sensor has been installed and is communicating with controller via on-site sensor, WiFi or central controller?			
Controller	Controller installed per plan set?			
	Back up battery installed and tab removed?			
	Is the moisture sensor(s) operating properly with the controller?			
	Spray heads installed in areas greater than 10 ft wide, only.			
	In areas where slope is greater than 25%, nozzles installed have a percipitation rate of .75"/hour or less.			
	All nozzles & bubbles have been installed with pressure regulation as needed per manufacturer recommended specifications?			
Spray Heads Rotors	All nozzles & bubbles have been installed per plan set standard details?			
Bubblers	Nozzles have been adjusted to prevent ALL overspray and runoff?			
	All sprinkler heads have check valves designed to prevent run off from low head drainage where needed?			
	Spacing of heads is uniform and designed to promote a high DU?			
	Nozzles are of like kind and precipitation rates are not mismatched?			
	Low volume irrigation was used in mulched planting areas?			
Drip Systems	Drip is installed per manufacturers recommendation or per plan?			
	All drip valves, filters and tubing have been flushed and are operating per manufacturers specifications?			
	3 inches of mulch installed?			
Landscape	Plants have been installed per planting plan, planting notes and by hydrozone?			
Master Valve	If indicated on plan, the master valve has been installed, programmed to the controller and is fully functional per program			
Flow Sensor	Flow sensor has been installed per plans, is wired and is functioning properly with the programmed controller?			

Flow Sensor	properly with the programmed controller?		
Notes:			



est Area Map				
ddress:				
ıditor ID #:				
st Area/Station:				
Test Run Time:	min Wind:	mph	Pressure:	psi
Meter Start:	Meter Stop:		Total:	
Notes:				

WATER EFFICIENT LANDSCAPE ORDINANCE



Audit Report

Catch Can Test		
Project Name:	Date:	
Address:		
Auditor ID #:		
Test Area/Station:		
Catch Device Area (Acd):in.	Test Run Time (t _R): min	

Catch Device Volumes

	1				1								
1		13		25		37		49		61		73	
2		14		26		38		50		62		74	
3		15		27		39		51		63		75	
4		16		28		40		52		64		76	
5		17		29		41		53		65		77	
6		18		30		42		54		66		78	
7		19		31		43		55		67		79	
8		20		32		44		56		68		80	
9		21		33		45		57		69		81	
10		22		34		46		58		70		82	
11		23		35		47		59		71		83	
12		24		36		48		60		72		84	
Su	b Total	Su	ıb Total	Su	ıb Total	Su	ıb Total						

Calculate Distribution Uniformity (Show Work)

 $(DU_{LQ}) = \frac{\text{avg catch in low quarter}}{\text{avg catch volume}}$

$$X - \frac{mL}{ml} =$$

Calculate Net Precipitation Rate (Show Work)

$$PR_{net} = \frac{3.66 \times V_{avg}}{T_r \times A_{CD}}$$

$$X = \frac{3.66 \text{ x (} \text{mL})}{(\text{min) x (} \text{in.}^2)} =$$



Controller Name:	Date:
Manufacturer:	
Total Operational Stations Being Use	d:
Smart Controller? Yes No	
Type of Sensor: Onsite Wi	-Fi Central Controller
Notes:	
System needs corrections	System functions properly
listed above and not affiliated with th	_ declare that I have performed a third party Irrigation Audit on the property e property owner, builder or landscape installer. This audit was performed with ody that certified me as a landscape irrigation auditor.
Irrigation Auditor Name:	Certification #:
Signature:	Date: