MWELO PROJECT INFORMATION FORM

EXHIBIT A

APPLICANT INFORMATION

Name of Project Applicant: _____ Title: _____

Company: _____ Fax: _____ Phone: _____

Email: _____

PROJECT INFORMATION

Site Address: _____

Project Type: ❑ New ❑ Rehabilitated ❑ Private ❑ Public ❑ Cemetery ❑ Homeowner installed

❑ Currently, this project does not include landscaping. I am aware that future landscape installations may be required to comply with the Model Water Efficient Landscape Ordinance (MWELO) requirements per California Code of Regulations, Title 23, Division 2, Chapter 2.7.

❑ This project does include landscaping equal to or less than 2500 ft² and will be using the Prescriptive Compliance Approach which will be included as part of the landscape project. Submit Appendix D-1

❑ This project does include landscaping greater than 2500 ft²and will be using the Performance Compliance Approach which will be included as part of the landscape project. Submit Appendix D-2

Total Landscape Area (ft²): _____ Turf Area (ft²): _____

Special Landscape Area (ft²): _____ Non-Turf Area (ft²): _____

Water Supply Type: ❑ Well ❑ Recycled ❑ Potable

Name of water purveyor (if not served by the City of Lindsay): _____

Signature

I certify the above information is correct and agree to comply with the requirements of the MWELO.

_____ _____

Signature of Property Owner or Authorized Representative Date

COVERED PROJECTS GUIDE:

Landscape and irrigation design plans and Supportive documents shall be required if:

❑ New development project that include a landscape area of 500 ft² or more. (Landscape area between 500 ft² to 2500 ft², use Prescriptive Compliance Appendix D-1 Approach. Landscape area greater than 2500 ft², use Water Budget Performance Approach Appendix D-2 Approach)

❑ Rehabilitated landscape projects with an aggregate landscape area equal to greater than 2500 ft² or more

Exceptions

❑ Remodels and additions where the landscape area is less than 2,500 ft²

❑ Any revisions to landscape areas less than 500 ft²

❑ Projects that DO NOT require a building permit, plan check or design review

❑ Registered historic sites

❑ Ecological restoration projects

❑ Public botanic gardens & arboretums

Landscape Documentation Package Checklist Submittal Appendix D-1

Prescriptive Compliance Pathway

❑ **Project Information Worksheet/ Certificate of Completion of the Landscape Package (Page 1)**

Applicants shall complete the Project Information Worksheet (Title 23, Chapter 2.7 §492.3)

❑ Verify and sign MWELO Appendix D-1.1

❑ **Landscape Design Plan** (Title 23, Chapter 2.7 §492.6)

Landscape Design Plan shall be submitted and must meet all requirements outlined in Chapter 2.7 Model Water Efficient Landscape Ordinance Appendix D-1.1. (Includes all the planting areas, turf areas, and water features in a landscape design plan subject to the Maximum Applied Water Allowance calculation).

❑ **Irrigation Design Plan** (Title 23, Chapter 2.7 §492.7)

Landscape Design Plan shall be submitted and must meet all requirements outlined in Chapter 2.7 Model Water Efficient Landscape Ordinance Appendix D-1.1. Prescriptive Requirements and have applied them for the efficient use of water in the landscape design plan" and 2) shall bear the signature of a licensed landscape architect or licensed landscape contractor.

❑ **Landscape Water Meter, If applicable (**Title 23, Chapter 2.7 §492.7)

A dedicated water service meter or private submeter shall be installed for all non-residents irrigated landscape of 1000 ft² but not more than 5000 ft² (the level at which Water code 535 applies).

❑ **Required Statements and Certification (Title 23, Chapter 2.7 §492.6, §492.7 and §492.9)**

- ❖ Add the following statement on the landscape and irrigation plans: "I have complied with the criteria of the ordinance and applied them for the efficient use of water in the landscape design plans".
- ❖ The final set of landscape and irrigation plans shall bear the signature of a licensed landscape architect, licensed landscape contractor, certified irrigation designer, licensed architect, licensed engineer, licensed land surveyor, or personal property owner.
- ❖ Add note to plans: "A diagram of the irrigation plan showing hydrozones shall be kept with the irrigation controller for subsequent management purposes."
- ❖ Add note to plans: "A Certificate of Completion shall be filled out and certified by either the designer of the landscape plans, irrigation plans, or the licensed landscape contractor for the project".
- ❖ Add note to plans: "An irrigation audit report shall be completed at the time of final inspection."

LANDSCAPE WATER-EFFICIENCY (MWELO) APPENDIX – D1.1

(Can only be used when aggregate landscape areas are 2,500 square feet or less)

Landscape Parameters	Design Measures	Location on Plans
Water Plant Use	Residential: Install climate adapted plants that require occasional, little or no summer water (average WUCOLS plant factor 0.3) for 75% of the plant area. (About At least 50% of the plants and at least 50% of the trees shall either be native or low water use.) Non-Residential: Install climate adapted plants that require occasional, little or no summer water (average WUCOLS plant factor 0.3) for 100% of the plant area. (Plant area excludes edibles and areas using recycled water).	
Turf	Total turf area shall not exceed 25% of the landscape area. Turf is not allowed in non-residential projects.	
	Turf (if utilized) is limited to slopes not exceeding 25% and is not used in parkways less than 10 feet in width.	
	Turf, if utilized in parkways is irrigated by sub-surface irrigation or other technology that prevents overspray or runoff.	
Mulch	A minimum 3-inch layer of mulch should be applied on all exposed soil surfaces of planting areas, except in areas of turf or creeping or rooting groundcovers.	
Compost	Incorporate compost at a rate of at least four (4) cubic yards per 1,000 ft² to a depth of 6 inches into landscape area (unless contra-indicated by a soil test).	
Irrigation System	System shall be designed and maintained to minimize water waste (e.g. runoff, overspray, etc.).	
	Low volume irrigation shall be utilized in non-turf areas.	
	Overhead (spray) irrigation shall only occur in areas over 10 ft. wide.	
	A private landscape submeter is installed at non-residential landscape areas of 1,000 ft² or more.	

I/we have complied with the criteria of the Model Water Efficient Landscape Ordinance Appendix D Prescriptive Requirements and have applied them for the efficient use of water in the landscape design plan.

Select one: ❑ Property Owner ❑Legal Representative

Signature: _____ Print Name: _____ Date: _____

Signature: _____ Print Name: _____ Date: _____

Note:
A landscape and irrigation design plan (and supporting documents) shall be required if: (a) landscape area exceeds 500 sq. ft.; (b) a majority (>50%) of plants are medium or high water use; or (c) turf area exceeds 25% of total landscape area or 1,250 sq. ft. All areas to be disturbed during construction shall be presumed to be landscaped area, except where structures or hardscape will be installed.

Landscape Area:
The total horizontal surface area dedicated to plant installation (including adjacent ground that provides for the plant's establishment), plus the *wet surface area* of any water features. The landscape area does not include footprints of buildings or structures, sidewalks, driveways, parking lots, decks, patios, gravel or stone walks, or other pervious or non-pervious hardscapes outside of planted areas (planted areas containing gravel or inorganic mulch are included). Landscape area does not include undisturbed areas with established non-irrigated vegetation.

Landscape Documentation Package Checklist Submittal Appendix D-2
PERFORMANCE APPROACH (>2,500 ft²of landscape area)

❑ Project Information Worksheet/ Certificate of Completion of the Landscape Package (Page 1)
Applicants shall complete the Project Information Worksheet (Title 23, Chapter 2.7 §492.3)

❑ Water Efficient Landscape Worksheet Appendix B (Title 23, Chapter 2.7 §492.4 and §492.13)
- ❖ Incorporate the Water Efficient Landscape Worksheet into plans. Show that the Maximum Applied Water Allowance (MAWA) meets or exceeds the calculated Estimated Total Water Use (ETWU).
- ❖ The evapotranspiration adjustment factor (ETAF) for the landscape project shall not exceed a factor of (0.55 for residential areas) (0.45 for non-residential areas).
- ❖ The plant factor used shall be from WUCOLS or from horticultural researchers with academic institutions.
- ❖ WUCOLS plants database can be found on-line at: http://ucanr.edu/sites/WUCOLS/
- ❖ All water features shall be included in the high-water use hydro-zone. All temporary irrigated areas shall be included in the low water use hydro-zone.
- ❖ All Special Landscape areas shall be identified on the plans. The ETAF for new and existing (non-rehabilitated) Special Landscape Areas shall not exceed 1.0.
- ❖ For the purpose of calculating ETWU, the irrigation

❑ Landscape design plan at minimum shall Contain the following (Title 23, Chapter 2.7 §492.6)
- ❖ The landscape design plans, at a minimum, shall:
- ❖ Delineate and label each hydro-zone by number, letter, or other methods.
- ❖ Identify each hydro-zone as low, moderate, high water, or mixed water use.
- ❖ MWELO SUBMITTAL CHECKLIST
- ❖ Identify recreational areas, areas solely dedicated to edible plants, areas irrigated with recycled water, type and surface area of water features, impermeable and permeable hardscape, and any infiltration systems.
- ❖ For hydro-zone with a mix of both low and moderate water use plants or both moderate and high-water use plants, the higher plant factor or the plant factor based on the proportions of the respective plant water uses shall be used. Hydro-zones containing a mix of low and high-water use plants is not permitted.
- ❖ Turf is not allowed on slopes greater than 25% where the toe of the slope is adjacent to an impermeable hardscape.
- ❖ Add note to plans: “Recirculating water systems shall be used for water features”
- ❖ Add note to plans: “A minimum 3-inch layer of mulch shall be applied on all exposed soil surfaces of planting areas except turf areas, creeping or rooting groundcovers, or direct seeding applications where mulch is contraindicated.”
- ❖ Add note to plans: “For soils less than 6% organic matter in the top 6 inches of soil, compost at a rate of a minimum of four cubic yards per 1,000 square feet of permeable area shall be incorporated to a depth of six inches into the soil”

❑ Irrigation design plan shall Contain the following (Title 23, Chapter 2.7 §492.7)
- ❖ The irrigation plans, at a minimum, shall contain the following:
- ❖ Location and size of spate water meters for landscape
- ❖ Location, type, and size of all components of the irrigation system, including controllers, main and lateral lines, valves, sprinkler heads, moisture sensing devices, rain switches, quick couplers, pressure regulators, and backflow prevention devices.
- ❖ Static water pressure at the point of connection the public water supply
- ❖ Flow rate (gallons per minute), application rate (inches per hour), and design operating pressure (pressure per square inch) for each station.
- ❖ A dedicated water service meter or private submeter shall be installed for all (non-residential irrigated landscapes of at least 1,000sqft) (residential irrigated landscape areas of at least 5,000sqft).
- ❖ Add note to plans: “Pressure regulating devices are required if water pressure is below or exceeds the recommended pressure of the specified irrigation devices.”
- ❖ Manual shut-off valves shall be required, as close as possible to the point of connection of the water supply, to minimize water loss in case of an emergency or routine repair.
- ❖ Add note to plans: “Check valves or anti-drain valves are required on all sprinkler heads where low point drainage could occur.”
- ❖ Areas less than 10-feet in width in any direction shall be irrigated with subsurface or drip irrigation.
- ❖ Overhead irrigation shall not be permitted within 24-inches of any non-permeable surface.

Landscape Documentation Package Checklist Submittal
PERFORMANCE APPROACH (>2,500 ft² of landscape area)

❑ **Soil Management Report (**Title 23, Chapter 2.7 §492.5)

- ❖ The soil management report, at a minimum, shall contain the following:
- ❖ soil texture; N-P-K and minor trace elements
- ❖ infiltration rate determined by laboratory test or soil texture infiltration rate table;
- ❖ pH
- ❖ total soluble salts
- ❖ sodium
- ❖ percent organic matter
- ❖ recommendations
- ❖ The soil management report shall be both integrated into the plans and submitted as a separate document.

WATER EFFICIENT LANDSCAPE WORKSHEET

This worksheet is filled out by the project applicant and it is a required element of the Landscape Documentation Package.

Reference Evapotranspiration (ETo) _____

Hydrozone # /Planting Description[a]	Plant Factor (PF)	Irrigation Method[b]	Irrigation Efficiency (IE)[c]	ETAF (PF/IE)	Landscape Area (sq. ft.)	ETAF x Area	Estimated Total Water Use (ETWU)[d]
Regular Landscape Areas							
				Totals	(A)	(B)	
Special Landscape Areas							
				1			
				1			
				1			
				Totals	(C)	(D)	
						ETWU Total	
						Maximum Allowed Water Allowance (MAWA)[e]	

[a] ***Hydrozone #/Planting Description*** *E.g*
1.) front lawn
2.) low water use plantings
3.) medium water use planting

[b] ***Irrigation Method***
overhead spray or drip

[c] ***Irrigation Efficiency***
0.75 for spray head
0.81 for drip

[d] ***ETWU*** **(Annual Gallons Required) =** *Eto x 0.62 x ETAF x Area*
where 0.62 is a conversion factor that converts acre-inches per acre per year to gallons per square foot per year.

[e] ***MAWA (Annual Gallons Allowed)*** *= (Eto) (0.62) [(ETAF x LA) + ((1-ETAF) x SLA)]*
where 0.62 is a conversion factor that converts acre-inches per acre per year to gallons per square foot per year, LA is the total landscape area in square feet, SLA is the total special landscape area in square feet, and ETAF is .55 for residential areas and 0.45 for non-residential areas.

ETAF Calculations

Regular Landscape Areas

Total ETAF x Area	(B)	
Total Area	(A)	
Average ETAF	**B ÷ A**	

Average ETAF for Regular Landscape Areas must be 0.55 or below for residential areas, and 0.45 or below for non-residential areas.

All Landscape Areas

Total ETAF x Area	(B+D)	
Total Area	(A+C)	
Sitewide ETAF	**(B+D) ÷ (A+C)**	

A copy of this form may be obtained from Department of Water Resources website:
http://www.water.ca.gov/wateruseefficiency/landscapeordinance/