

a.

**2013 Wallace Lake Aquatic Vegetation Control Plan**  
LDWF, Inland Fisheries

Located in Catahoula Parish

Map located in Appendix I

1. Waterbody type – Natural Lake
2. Age and condition of control structure – The control structure was built in 1991 and is currently inoperable due to a leaking and deteriorated culvert. The outflow pipe has been buried in several tons of sacks of concrete. It is believed that this was done to stop the structure from leaking. There also has been a dirt dam placed across the inlet channel to prohibit water from reaching the water control structure. These efforts effectively stopped all possible use of the structure without major repairs.
3. Type of control structure – Rodney Hunt Sluice Gate 48” pipe/ flap gate
4. Water level – Pool stage is 43’ MSL; very small watershed, water level fluctuations more than 1 foot are rare.
5. Surface acres at pool stage – 262 acres
6. Average depth – 12’
7. Watershed ratio – 5:1  
Drawdown potential of structure - 6’ when operable
8. Waterbody Board or Lake Commission –According to a cursory review of State Land Office records by John P. Evans, Jr. P. L. S. on March 3, 2008 the State of Louisiana does not claim the bed and water bottom of Wallace Lake. Details of the ruling are in Appendix II below. Additional review of land ownership maps at the Catahoula Parish Assessor’s Office indicate the lake bottom is owned by private landowners.
  - a. Creation / Nomination –
  - b. Primary contact information- Catahoula Parish Police Jury  
P.O. Box 258  
Harrisonburg, La. 71340
- b.Procedure for spillway openings – inoperable

No drawdowns have been conducted to date.

What significant stakeholders use the lake?

The lake is utilized for agricultural irrigation and recreational fishing. There are also home and camp owners along the shoreline.

What are their needs and concerns? What is the history of aquatic vegetation complaints?

No history or record of vegetation complaints.

Have there been any controversial issues on the lake

No controversial issues at this time.

## **Aquatic Vegetation Status:**

As of November 2012 no serious vegetation problems were found in the lake.

Total vegetation coverage was less than 30 acres. There were isolated areas of alligator weed along the shoreline (less than 5 acres) and scattered clumps of water hyacinth in the lake totaling less than 30 acres.

No major vegetation problems are expected for 2013. Vegetation coverage is expected to be similar to what was found in 2012.

## **Limitations:**

Note factors that may limit the effectiveness of chemical, mechanical, or biological control methods for the aquatic plant problems found in the waterbody.

- Inoperable water control structure
- Small watershed may limit drawdown capabilities

Note regulatory or public factors or anything else that may limit the ability of LDWF to control aquatic plant problems in the water body.

- 2,4,-D Waiver area

## **Past Control Measures:**

Historically water hyacinth has been the primary vegetation sprayed. It does not cause serious problems and spray crews keep it under control by spraying on the lake a couple of times each year. The table below lists the acreage sprayed and the type of vegetation.

Spray crews worked in the lake four days in 2012 and a total of 133 acres of emergent vegetation was sprayed. This spraying was for vegetation maintenance. No complaints have been received. The majority of the vegetation sprayed was water hyacinth.

### **Aquatic Vegetation Control**

<b>Year</b>	<b>Acres</b>	<b>Vegetation</b>
2005	68	Water Hyacinth
2006	33	Water Hyacinth
2008	94	Water Hyacinth
2009	67	Water Hyacinth
	1	Common Salvinia
	22	Alligator Weed

2010	71	Water Hyacinth
	3	Alligator Weed
2012	32	Cutgrass
	95	Water Hyacinth
	6	Primrose

Herbicides have been applied at the following rates:

Glyphosate (Aquamaster, Aquastar, etc.): Used at a rate of 0.75 gallons per acre to treat alligator weed, water hyacinth and common salvinia during the active growing period.

Diquat (Reward, Knockout): Used at a rate of 0.75 gallons per acre to treat alligator weed, water hyacinth, and common salvinia during the slower growing period or winter months.

Surfactant is added at a rate of 1:4 (surfactant: herbicide) for all herbicides.

No changes are needed in the vegetation control efforts at this time.

### **Type map**

No type map has been conducted

### **Recommendations:**

Conduct an annual vegetation survey in July or August of 2013 to determine the status of aquatic vegetation and monitor the lake for the infestation of new exotic vegetation.

Aquatic technicians will report significant changes in the status of aquatic vegetation following days spraying on the reservoir. LDWF spray crews will continue spraying emergent vegetation, primarily water hyacinth, several days each year with either glyphosate or diquat and an approved surfactant. These herbicides are applied at the rate of 0.75 gallons per acre with the surfactant applied at 0.25 gallons per acre. A diquat/glyphosate mix may be applied to giant salvinia infestations (if it is found in the lake) at a rate of 0.75 gal/acre glyphosate, 0.25 gal/acre diquat, 0.25 gal/acre Aqua King Max, and 8 oz. Thoroughbred. Alligator weed will be treated with imazapyr (0.5 gal/acre) and methylated seed oil surfactant (Inergy, 0.25 gal/acre).

## Appendix I.

Wallace Lake with locations of boat ramps and water control structure.



## Appendix II

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Ewing, Michael

From: Tilyou, Gary  
Sent: Tuesday, March 04, 2008 11 :36 AM  
To: Ewing, Michael  
Subject: FW: Wallace Lake

-----Original Message-----

From: John Evans (mailto:John.Evans@LA.GOV)  
Sent: Tuesday, March 04, 2008 10:42 AM  
To: Tilyou, Gary  
Cc: Charles St. Romain  
Subject: Wallace Lake

Re: Wallace Lake  
Located within T8N-R6E  
Catahoula Parish, Louisiana  
(SLO File No. 334.8)

In accordance with your request of March 3, 2008, I have made a cursory review of State Land Office records to determine the state's claim to Wallace Lake within T8N-R6E.

I have researched the official U.S. government township plat, 2004 aerial photography, various editions of the USGS quadrangle maps, and other information on file in our office to make a determination of state ownership of Wallace Lake.

Although Wallace Lake is shown on the original U.S. Government survey of T8N-R6E, the deputy surveyor did not meander Wallace Lake as he did along the Ouachita River and other navigable waterways in T8N-R6E. The deputy surveyor did not subtract the area of Wallace Lake from the total acreage of sections 11, 14, 23 or 24 as he did in other sections that contained navigable waterways. All of the lands under the current location of Wallace Lake were patented out by the U.S. Government or the State of Louisiana. Therefore, the state does not claim the bed and water bottom of Wallace Lake, within T8N-R6E, as a historically navigable waterway.

Article 9, Section 3 of the Louisiana Constitution states as follows:

"The legislature shall neither alienate nor authorize the alienation of the bed of a navigable water body, except for purposes of reclamation by the riparian owner to recover land lost through erosion."

Accordingly this report is limited to the matters discussed here and is based upon the referenced documentation. Any matters of historic usage, navigability in law, public rights of use and access or other matters which are beyond the purview of this office are expressly excluded. Therefore, in the event additional evidence is made available, this office reserves the right to review said evidence and amend its claim as deemed appropriate.

Very truly yours,

John P. Evans, Jr. P. L. S.

3/4/2008