

HACCP Step 1 – Activity Description

Activity Description	
Facility: Various Tulsa District Lakes	Site: Reservoir
Project Coordinator: Everett Laney	Activity: Use of Portable Water Pumps
Site Manager: Lake Manager	
Address: Tulsa District Office 1645 S. 101 st East Ave Tulsa, OK 74128	
Phone: (918) 669-7411	
Project Description i.e. Who; What; Where; When; How; Why	
<p>Tulsa District personnel use portable water pumps for a wide variety of tasks. Pumps used are of a variety of sizes and may be project owned or rented. When large jobs such as stilling basin dewaterers occur, pumps are frequently borrowed from other Project Offices. The potential exists to transport zebra mussels and golden algae in the pumps from infested water if the pumps are not properly drained when work is completed.</p> <p>The species listed in this HACCP Plan are of primary concern to the Tulsa District. For a detailed list of additional species, refer to your state’s Aquatic Nuisance Species (ANS) Management Plan.</p> <p>Kansas: http://www.kdwp.state.ks.us/news/Fishing/Aquatic-Nuisance-Species/KS-Nuisance-Species-Plan</p> <p>Oklahoma: http://anstaskforce.gov/State%20Plans/OK/OKLAHOMA%20ANS%20PLAN%20JULY08.pdf</p> <p>Texas: Currently the Texas ANS Management Plan is under development http://www.tpwd.state.tx.us/publications/pwdpubs/media/pwd_pl_t3200_1221_draft.doc</p>	

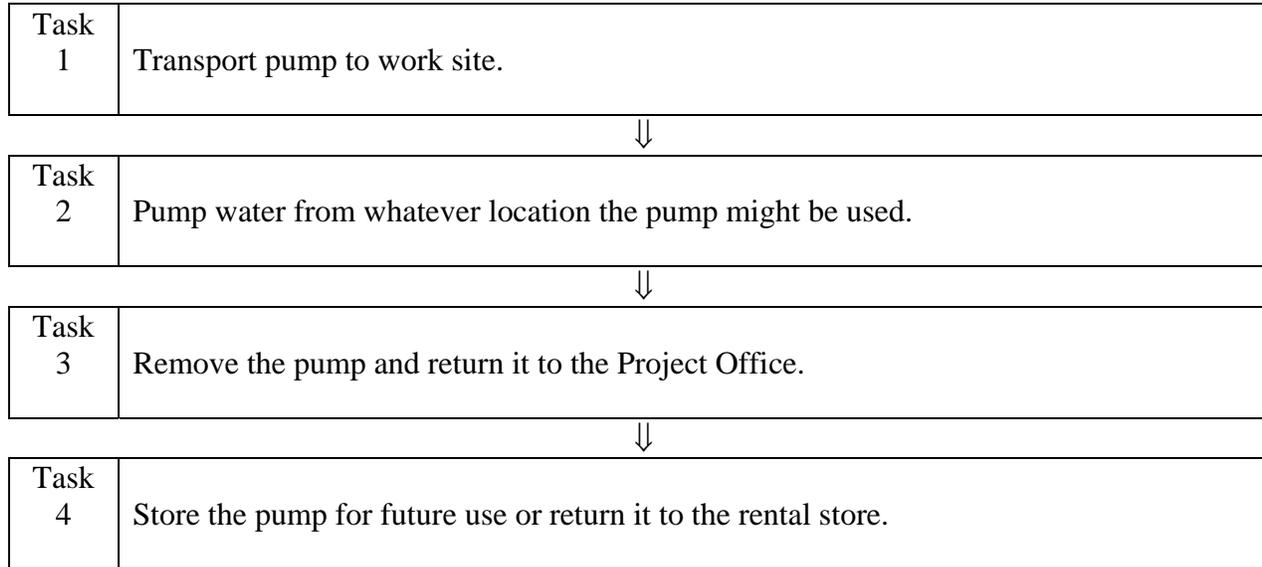
HACCP Step 2 – Identify Potential Hazards

(to be transferred to column 2 of HACCP Step 4 – Hazard Analysis Worksheet)

Hazards: Species Which May Potentially Be Moved/Introduced
Vertebrates:
Invertebrates: Zebra mussels
Plants: Algae (golden)
Other Biologics (e.g. disease, pathogen, parasite):
Others (e.g. construction materials, etc.):

HACCP Step 3 – Flow Diagram

Flow Diagram Outlining Sequential Tasks to Complete Activity/Project
Described in HACCP Step 1 – Activity Description
(to be transferred to column 1 of the HACCP Step 4 – Hazard Analysis Worksheet)



HACCP Step 4 - Hazard Analysis Worksheet

1 Tasks (from HACCP Step 3 - Flow Diagram)	2 Potential hazards identified in HACCP Step 2	3 Are any potential hazards probable? (yes/no)	4 Justify evaluation for column 3	5 What control measures can be applied to prevent undesirable results?	6 Is this task a critical control point? (yes/no)
Task 1 Transport pump to work site	Vertebrates	No			No
	Invertebrates Zebra mussels	Yes	Zebra mussel adults and veligers could be present in any water remaining in the pump from previous usage.	Check the interior of the pump to determine if it was thoroughly drained during the previous usage. Remove any water in the pump before leaving to go to the job site.	Yes If not all water was removed from the previous use and the pump is to be used in non-infested water.
	Plants Algae (golden)	Yes	Golden algae could be present in any water remaining in the pump from a previous usage.	Check the interior of the pump to determine if it was thoroughly drained during the previous usage. Remove any water in the pump before leaving to go to the job site.	Yes If not all water was removed from the previous use and the pump is to be used in non-infested water.
	Others	No			No
Task 2 Pump water from whatever location that the pump might be used	Vertebrates	No			No
	Invertebrates Zebra mussels	Yes	Zebra mussel adults and veligers could get into the pump.	None	No
	Plants Algae (golden)	Yes	Golden algae could get into the pump.	None	No
	Others	No			No

HACCP Step 4 - Hazard Analysis Worksheet (continued)

1 Tasks (from HACCP Step 3 - Flow Diagram)	2 Potential hazards identified in HACCP Step 2	3 Are any potential hazards probable? (yes/no)	4 Justify evaluation for column 3	5 What control measures can be applied to prevent undesirable results?	6 Is this task a critical control point? (yes/no)
Task 3 Remove the pump and return it to the Project Office	Vertebrates	No			No
	Invertebrates Zebra mussels	Yes	Zebra mussel adults and veligers could be present in the water inside the pump.	Thoroughly drain the pump and the intake and outflow lines before loading and leaving the job site.	Yes If the pump is to be transported from infested water to non- infested water for use.
	Plants Algae (golden)	Yes	Golden algae is present in some waters within the Tulsa District.	Thoroughly drain the pump and the intake and outflow lines before loading and leaving the job site.	Yes If the pump is to be transported from infested water to non- infested water for use.
	Others	No			No
Task 4 Store the pump for future use or return it to the rental store	Vertebrates	No			No
	Invertebrates Zebra mussels	Yes	Zebra mussel adults and veligers could be in any water that was missed after Task 3.	Thoroughly drain the pump and the intake and outflow lines before storing the pump or returning it to the rental store.	Yes If the pump is to be returned to a rental store.
	Plants Algae (golden)	Yes	Golden algae is present in some waters within the Tulsa District.	Thoroughly drain the pump and the intake and outflow lines before storing the pump or returning to it rental store.	Yes If the pump is to be returned to a rental store.
	Other	No			No

HACCP Step 5 – HACCP Plan Form

HACCP Plan Form								
(all CCP's or "yes's" from column 6 of HACCP Step 4 – Hazard Analysis Worksheet)								
Critical Control Point (CCP)	Significant Hazard(s)	Limits for each Control Measure	Monitoring				Evaluation & Corrective Action(s) (if needed)	Supporting Documentation (if any)
			What	How	Frequency	Who		
Task 1 Transport pump to work site	Zebra mussels Algae (golden)	Zero tolerance for water remaining in the pump and lines prior to use.	Interior of the pump.	Visual inspection.	Before each use if the pump has been transported from infested water to non-infested water for use.	Employee using the pump.		

HACCP Step 5 – HACCP Plan Form (continued)

HACCP Plan Form								
(all CCP's or "yes's" from column 6 of HACCP Step 4 – Hazard Analysis Worksheet)								
Critical Control Point (CCP)	Significant Hazard(s)	Limits for each Control Measure	Monitoring				Evaluation & Corrective Action(s) (if needed)	Supporting Documentation (if any)
			What	How	Frequency	Who		
Task 3 Remove the pump and return it to the Project Office	Zebra mussels Algae (golden)	Zero tolerance for water remaining in the pump and lines after to use.	Interior of the pump and lines.	Thoroughly drain the pump and lines.	After each use when the pump is used in infested water and is to be transported to non-infested water for use.	Employee using the pump.		

HACCP Step 5 – HACCP Plan Form (continued)

<p align="center">HACCP Plan Form (all CCP's or "yes's" from column 6 of HACCP Step 4 – Hazard Analysis Worksheet)</p>								
Critical Control Point (CCP)	Significant Hazard(s)	Limits for each Control Measure	What	Monitoring			Evaluation & Corrective Action(s) (if needed)	Supporting Documentation (if any)
				How	Frequency	Who		
<p>Task 4 Store the pump for future use or return it to the rental store</p>	Zebra mussels Algae (golden)	Zero tolerance for water remaining in the pump and lines.	Interior of the pump and lines.	Double check that the pump and lines are thoroughly drained before storing the pump or returning it to the rental store.	After to each use when the pump is to be returned to the rental store.	Employee storing the pump or returning the pump to the rental store.		

HACCP Plan has been discussed with all employees. It is the manager's responsibility to review plan with all new employees as required.

Facility:	Address:
Signature:	Date: