NORTHERN WAKE FIRE DEPARTMENT **STANDARD OPERATING GUIDELINES**	
TITLE: Dump Site Setup	**SECTION/TOPIC:** OPERATIONS
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REVISION DATES: **3-8-2023**	**APPROVED BY:** Blake Wright **FIRE CHIEF** Darrin Holt **CHIEF OF OPERATIONS**

I. PURPOSE

1. The purpose of this Standard Operating Guideline is to define the steps of properly setting up a dump site for Tankers to supply water to the fire ground.

II. SCOPE

2. This Standard Operating Guideline applies to all personnel within the Northern Wake Fire Department.

III. PROCEDURE

A. Driver/Operator - Primary Engine

1. Properly position engine in order to prepare for water haul operation. (Preferred - Driver side pump intake w/ Pre-con Valve or Butterfly Valve attached)
2. Engage parking brake.
3. Engage pump.
4. Chock rear wheels.
5. Open the tank-to-pump valve.
6. Open tank-fill valve.
7. Determine which pump discharge is being utilized.
8. Close tank fill valve.
9. Open proper pump discharge valve(s).

10. Increase throttle to desired pump discharge pressure.

11. Observe pump intake gauge (no more than 20” Hg) and adjust accordingly.

12. Set pump discharge pressure relief valve.

13. Remove 6” drafting hose(s) from engine.

14. If not already attached, remove 6” low-level strainer from engine, attach the 6” low-level strainer to 6” drafting hose(s) and tighten connection(s).

15. Connect 6” drafting hose(s) with attached strainer to the pump intake (Pre-con Valve, Butterfly Valve or Front) and tighten connection(s).

16. Remove drop tank from a Tanker and position next to the engine with drain spout positioned downhill.

17. Place 6” hard suction with attached 6” low-level strainer into the primary drop tank, positioned away from the water column being dumped by Tankers.

18. Place a plastic/rubber beach ball in primary drop tank to prevent whirlpool.

19. Once the drop tank is filled, ensure that the engine rpms are approximately 1,300 or above, engage pump primer (no more than 30-seconds) and slowly open the pump intake valve (Butterfly Valve, Front) If left unlocked, the Pre-con valve will open itself and operate in the floating position.

20. Closely close the tank-to-pump valve.

21. Adjust pump throttle and re-set pump discharge pressure relief valve.

22. Refill booster tank.

23. Observe pump intake gauge (no more than 20” Hg) and adjust accordingly.

24. Monitor drop tank level and all gauges.

Note: *One drop tank and three Tankers operating within an efficient Water Haul Operation should sustain at least a 250 GPM flow rate.*

Increase Flow to a Sustainable 500 GPM Flow Rate

1. Remove secondary drop tank from a Tanker and position next to the primary drop tank with drain spout positioned downhill.

2. Remove additional 6” drafting hose

3. Remove a 6” jet-siphon and connect to the 6” drafting hose

4. Connect a pre-connected 1 ½” hose line to the jet-siphon.

5. Place jet-siphon assembly into the secondary drop tank.

6. Place the open end of the 6” drafting hose into the primary drop tank, positioned away from the primary 6” low-level strainer.

7. Secure the jet siphon assembly to both drop tanks.

8. As additional water is needed in the primary drop tank, open the 1 ½” pre-connect discharge valve and transfer water as needed.

Note: *Two drop tanks and six Tankers operating within an efficient Water Haul Operation should sustain at least a 500 GPM flow rate.*

Increase Flow to a Sustainable 750 GPM Flow Rate

1. Remove third drop tank from a Tanker and position next to an additional pump intake (Front or Side) with the drain spout downhill.

2. Remove an additional 6” drafting hose(s).

3. If not already attached, remove an additional 6” low-level strainer, attach the 6” low-level strainer to the 6” drafting hose(s) and tighten connection(s).

4. Connect 6” drafting hose(s) with attached strainer to the pump intake and tighten connection(s).

5. Place 6” drafting hose(s) with attached 6” low-level strainer into the drop tank, positioned away from the water column being dumped by Tankers.

6. Place a plastic/rubber beach ball in the drop tank to prevent whirlpool

7. Once the drop tank is filled, ensure that the engine rpms are approximately 1,300 or above, engage pump primer (no more than 30-seconds) and slowly open the pump intake valve (Front or Side)

8. Adjust pump throttle and re-set pump discharge pressure relief valve.

9. Observe pump intake gauge (no more than 20” Hg) and adjust accordingly.

10. Monitor drop tank level and all gauges.

Note: *Three drop tanks and nine Tankers operating within an efficient Water Haul Operation should sustain at least a 750 GPM flow rate.*

Key Positions: Water Supply Section Chief
Dump Site Supervisor
Dump Site Safety Officer

Key Points: One Tanker per 100 GPM plus one extra
250 GPM flow rate per drop tank
Place Water Supply Operations on a separate radio channel
Tanker Driver/Operators should always remain in their apparatus