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EXCEPTIONAL SOLUTIONS.

# NexGen Liquid Controller (NGLC) User Guide

Easy Automation, Inc. User Guide Last Updated:  
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**TOTALLY INTEGRATED SOLUTION**

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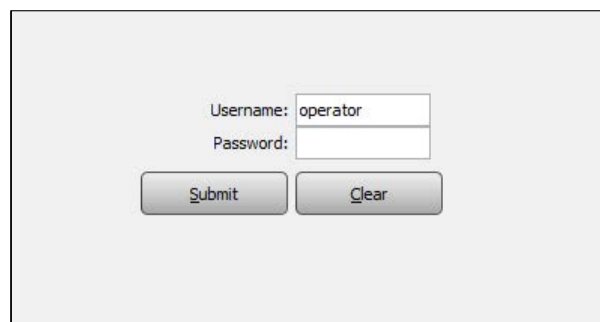
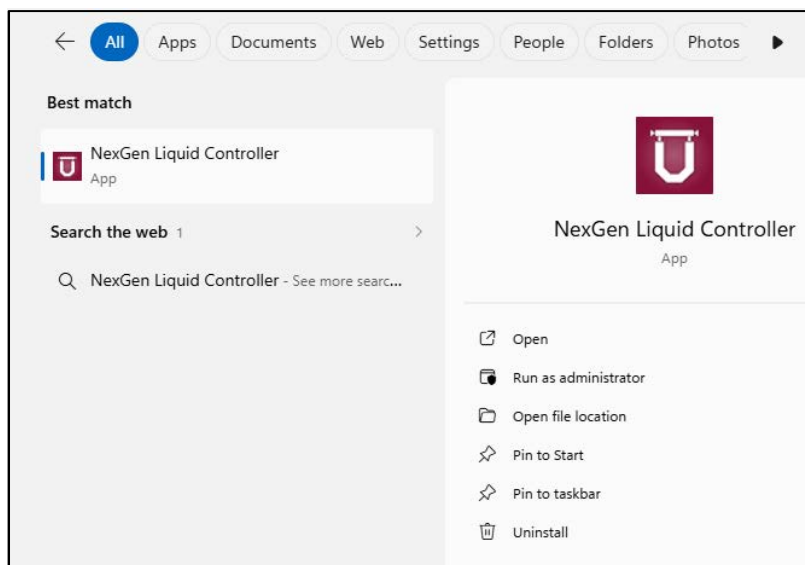
**ITEM PRIORITY..... 27**

## INTRODUCTION TO NGLC

NexGen Liquid Controller is a software program developed by Easy Automation that provides an efficient and effective solution for organizing and controlling a liquid fertilizer facility's ability to run liquid fertilizer blends. The following information in this user guide will help guide an operator on setting up and configuring different measuring systems, organizing different ingredients and their settings, and the process of running and rejecting orders through the system.

### Opening NGLC

1. Either double click on the NexGen Liquid Controller desktop icon  OR search for the NexGen Liquid Controller app in your Windows search bar and open it from there.
2. On the login screen that pops up, enter username and password, click “Submit”.



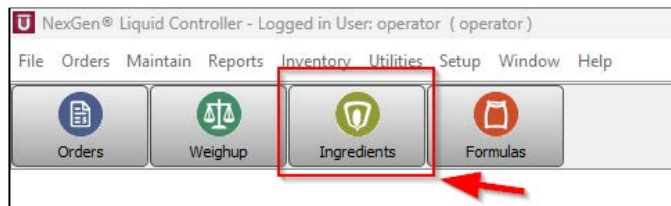
# SETTING UP INGREDIENT LOCATIONS

## Assigning Ingredient Location

One of the first steps needed to be done before being able to release and run an order in NGLC is to assign the ingredients in NGLC a location such as a tank or tote.

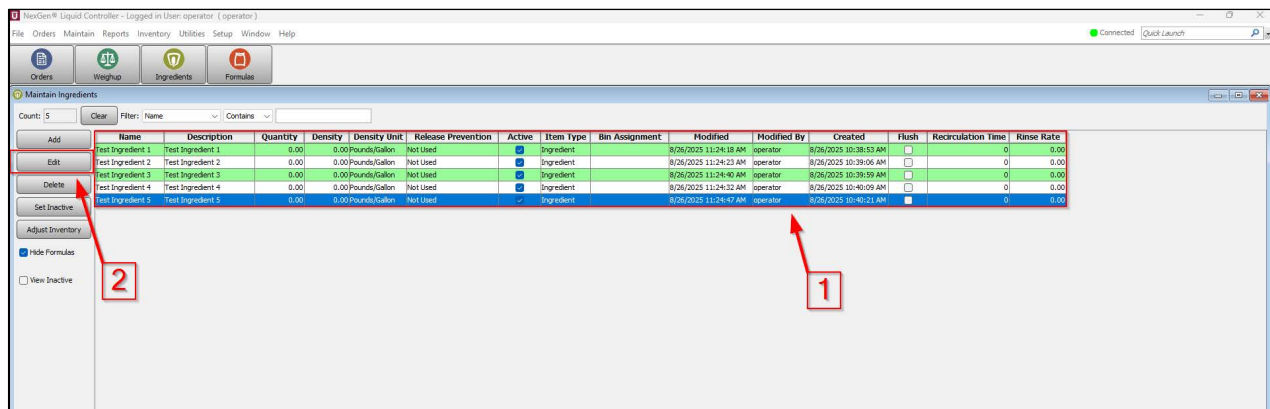
**NOTE:** Ingredients in NGLC are "created" when an order is sent over to NGLC from NexGen Office (NGO) if they don't already exist in your NGLC database. Ingredients can be made in NGLC but this should only be done if NGO is NOT used for order creation.

1. Open the "Ingredients" window.

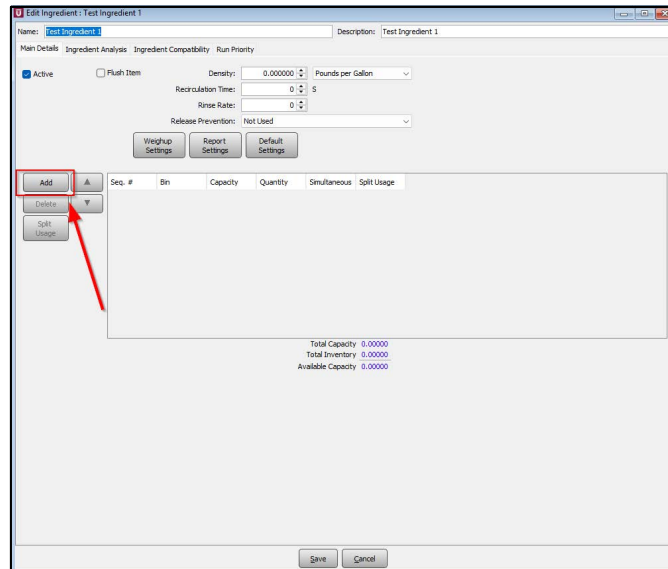


2. With the "Ingredients" window open:

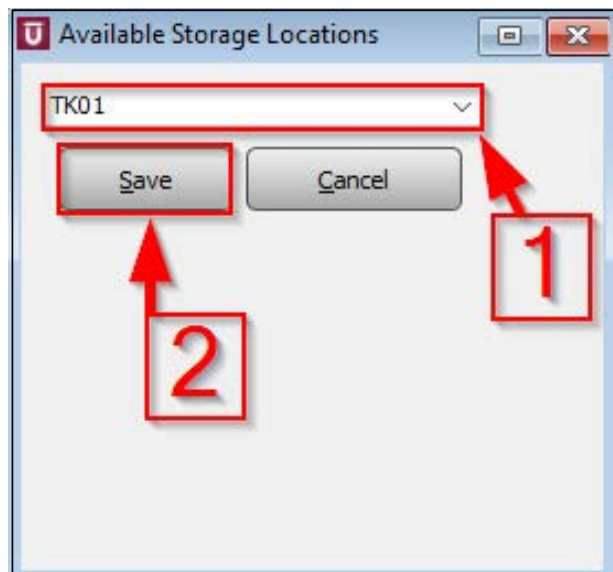
- 1) Click on and highlight the desired ingredient.
- 2) Either double click the highlighted ingredient or click the "Edit" button with the desired ingredient selected.



3. With the "Edit Ingredient" window open, click the "Add" button.

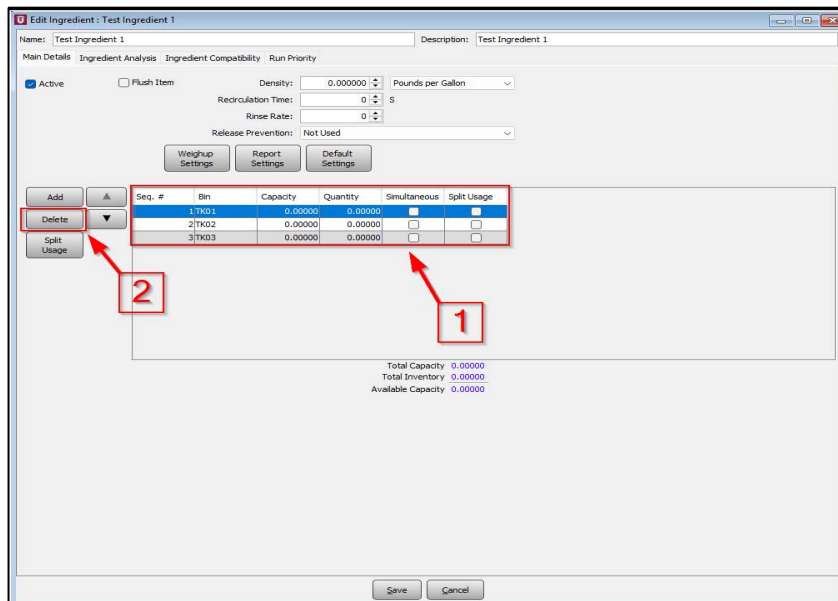


4. With the available storage locations window open:
  - 1) Select the desired location from the drop down menu.
  - 2) Click the "Save" button to save that location.

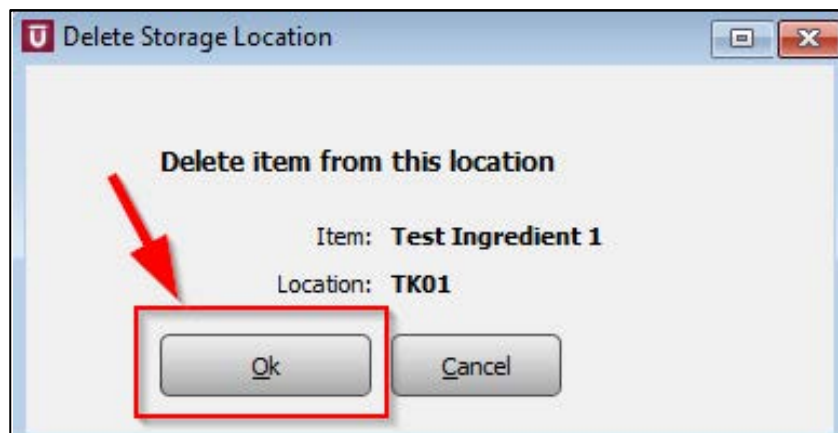


# Removing Ingredient Locations

1. Navigate to the "Edit Ingredient" window via the "Ingredients" window (See ASSIGNING INGREDIENT LOCATIONS for reference):
  - 1) Select the location to be deleted.
  - 2) Click the "delete" button.



2. With the "Delete Storage Location" window open, click "Ok".



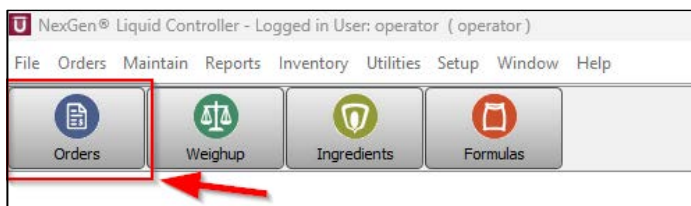
## ORDERS IN NGLC

### Creating an Order in NGLC

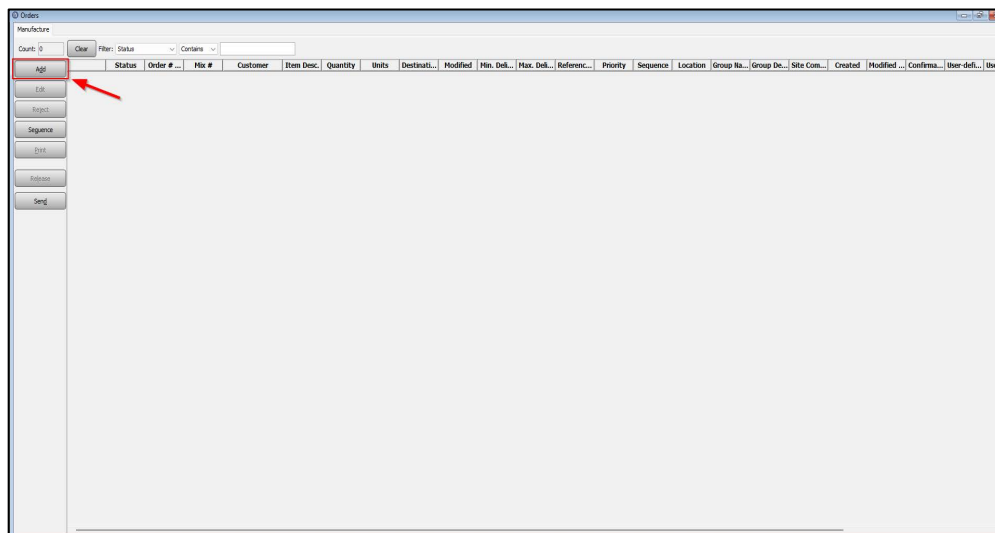
The following steps outline how you would go about creating a liquid blend order within the NGLC interface.

**NOTE: If you have NexGen Office (NGO), your liquid blend orders should be coming from there, over to NGLC. This is so you can get NGO delivery tickets and completed order information to other agronomy software.**

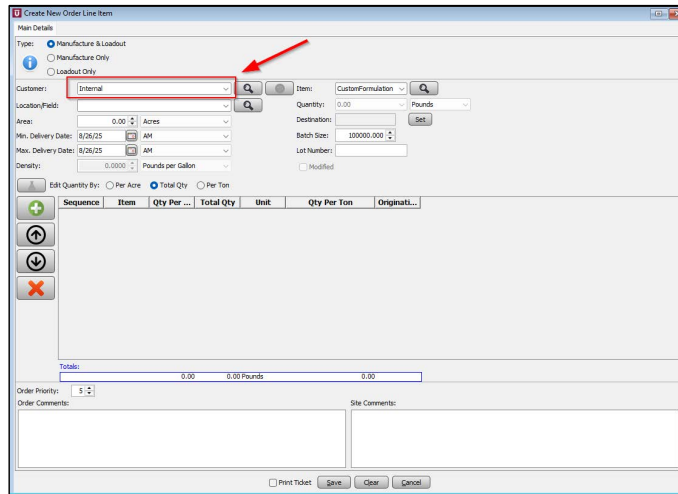
1. Open "Orders"



2. Choose "Add"



3. Customer will default to "Internal" or you can select a customer via the drop down menu.



4. With the order creation window open, follow the steps below to create your order:  
(See screenshot on next page)

- 1) Click the "+" button to add as many ingredients as needed to the order.
- 2) Select the appropriate ingredient via the "Item" drop down menu.
- 3) Enter the desired total quantity for the individual ingredient in the order. You can check either "Per Acre", "Total Qty", or "Per Ton" to determine how you will divide up the ingredients in the order. Depending on which one is checked will determine which "Qty" box you fill out for each ingredient quantity, either "Qty Per Acre", "Total Qty", or "Qty Per Ton"  
**NOTE: If using the "Per Ton" option, all ingredient quantities located in the "Qty Per Ton" boxes combined must add up to 1 ton (2000 pounds).**
- 4) Choose the desired unit of measurement for the quantity you just entered.
- 5) Here you can enter any desired comments you'd like to attach with this order in either the order comments or site comments boxes. These would appear on a printed delivery ticket.
- 6) Click "Save" when done.

**Create New Order Line Item**

**Main Details**

Type:  Manufacture & Loadout  
 Manufacture Only  
 Loadout Only

Customer: Internal  Item: CustomFormulation

Location/Field:  Quantity: 0.00  Pounds

Area: 0.00 Acres  Destination:

Min. Delivery Date: 9/18/25 AM  Batch Size: 100000.000

Max. Delivery Date: 9/18/25 AM  Lot Number:

Density: 0.0000 Pounds per Gallon   Modified

Edit Quantity By:  Per Acre  Total Qty  Per Ton 1 item does not have a bin selected.

<input type="button" value="+"/>	Sequence	Item	Qty Per Acre	Total Qty	Unit	Qty Per Ton	Origination Equipment
<input type="button" value="↑"/>			0.00	0.00	Pounds	0.00	
<input type="button" value="↓"/>							
<input type="button" value="X"/>							
<b>Totals:</b>			0.00	0.00	Pounds	0.00	

Order Priority: 5

Order Comments:  Site Comments:

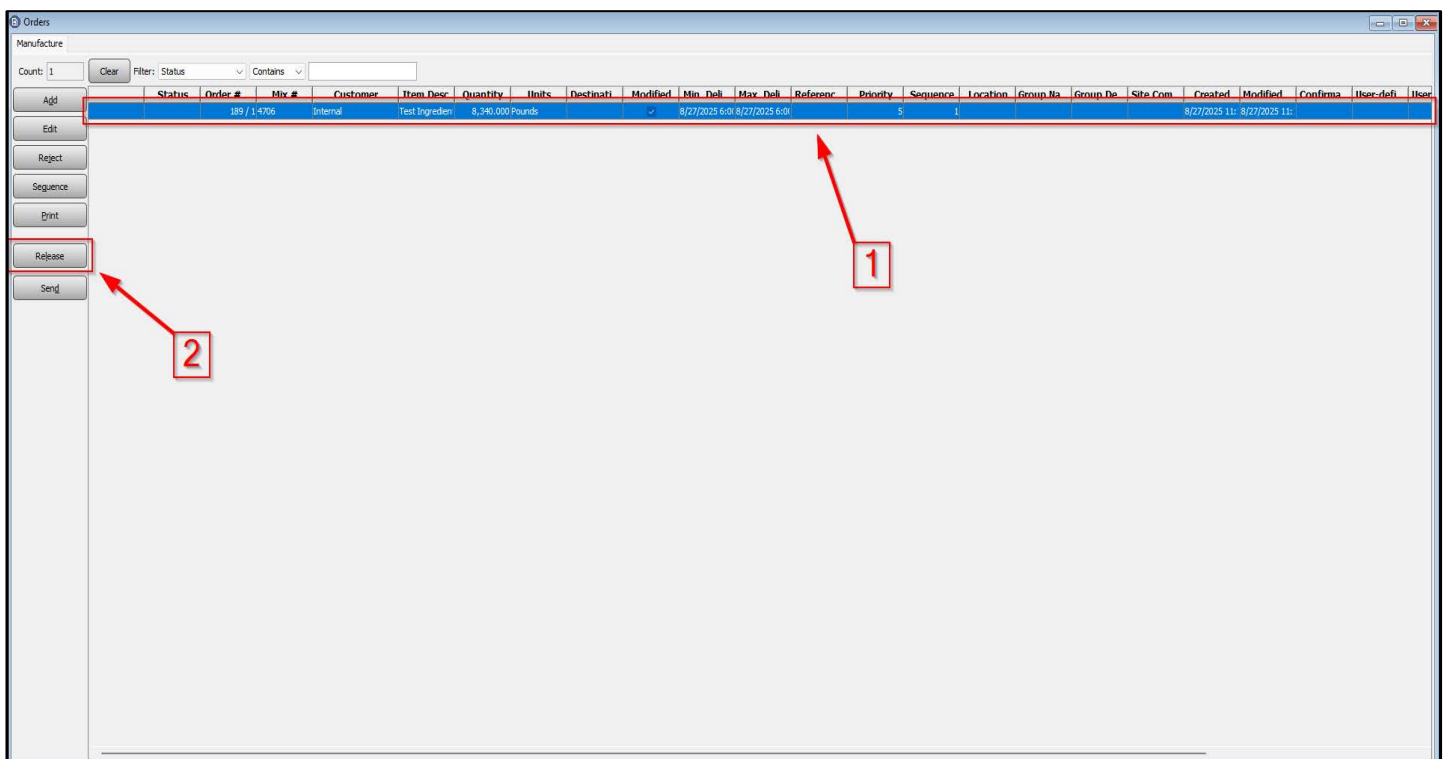
Print Ticket

## Releasing an Order

1. With the "Orders" window open:
  - 1) Select the order you wish to release by clicking on it.
  - 2) Click on the "Release" button.

**NOTE:** If the order has a "red flag" attached to it, this means there is an issue with the order that will prevent it from being release. If you double click the order or highlight it and click "Edit" on the side of the "Orders" window, you will be able to see what is causing the "red flag" to appear. Most of the time it is due to an ingredient not having an assigned location to run from.

**NOTE:** If the order has a "pink flag" attached to it, that just tells you that there is a comment attached to this order. It will not prevent release of the order, rather just notify you there is additional information that is coming along with this order.



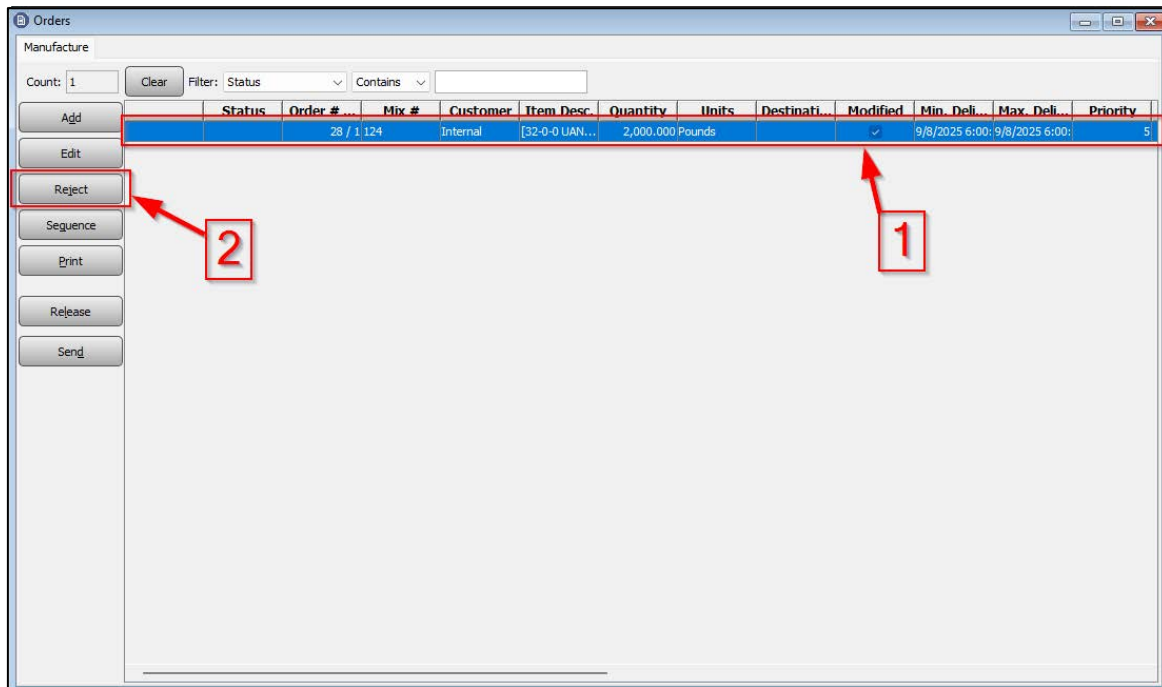


4. Once the order has a status of "Released", you can start the system to run in automatic by either clicking the start button on the respective system load-out HMI page or by pressing the start button on that respective bay's button box as shown below. **IMPORTANT: THE HMI NEEDS TO BE RUNNING WHENEVER AN ORDER FROM NGLC IS RUNNING.**

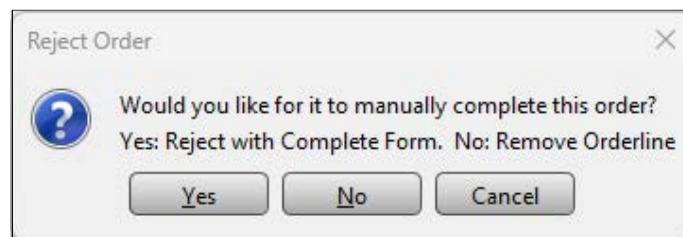


# Rejecting an Order

1. If the order hasn't been released yet, with the "Orders" window open:
  - 1) Select the order you wish to reject by clicking on it.
  - 2) Click on the "Reject" button.



2. With the "Reject Order" popup open:
  - 1) Select "No" to remove the selected order from the "Orders" window.
  - 2) Select "Yes" to manually complete the order in NGLC.



3. If the order to be rejected has already been released, perform the following:
  - 1) Go to the HMI page for the system the order to be rejected has been released to, and click the "End Run" button.
  - 2) Alternatively, you can also press the "Finish" button on the respective system's physical button box.



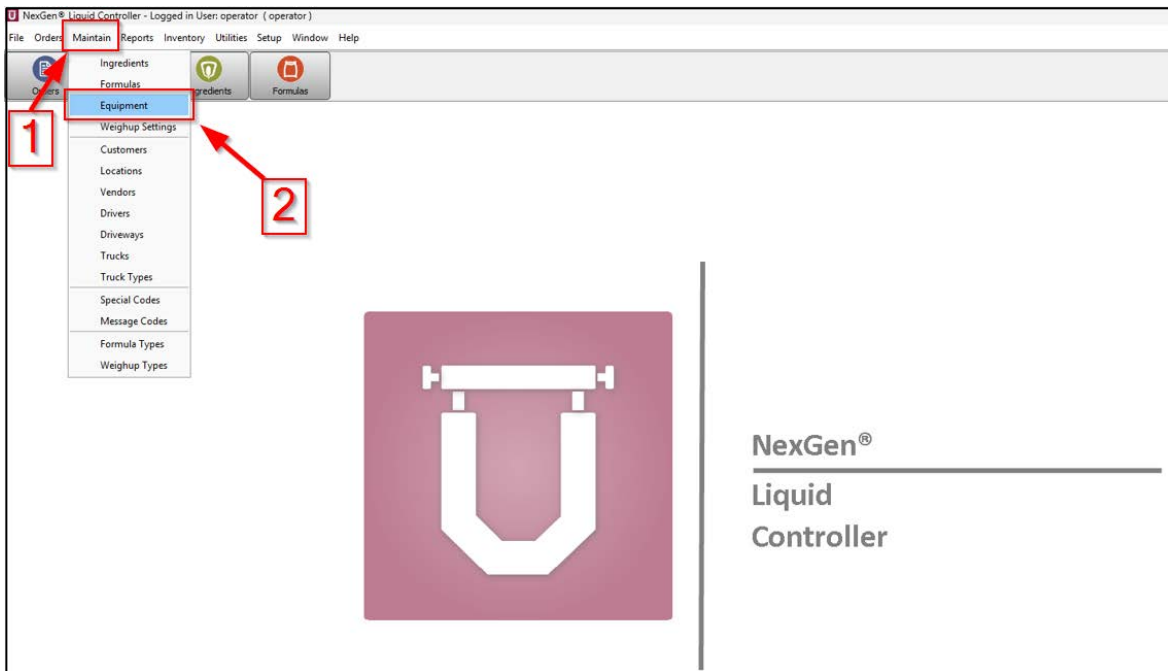
4. The rejected order should now be removed from the NGLC orders window. If the order was never started, it should show a "Rejected" status in NexGen Office (NGO). If any product was ran for the rejected order, that order will be moved to NGO history with run data for whatever ran in that order.

## MEASURING SYSTEM CONFIGURATION SETTINGS

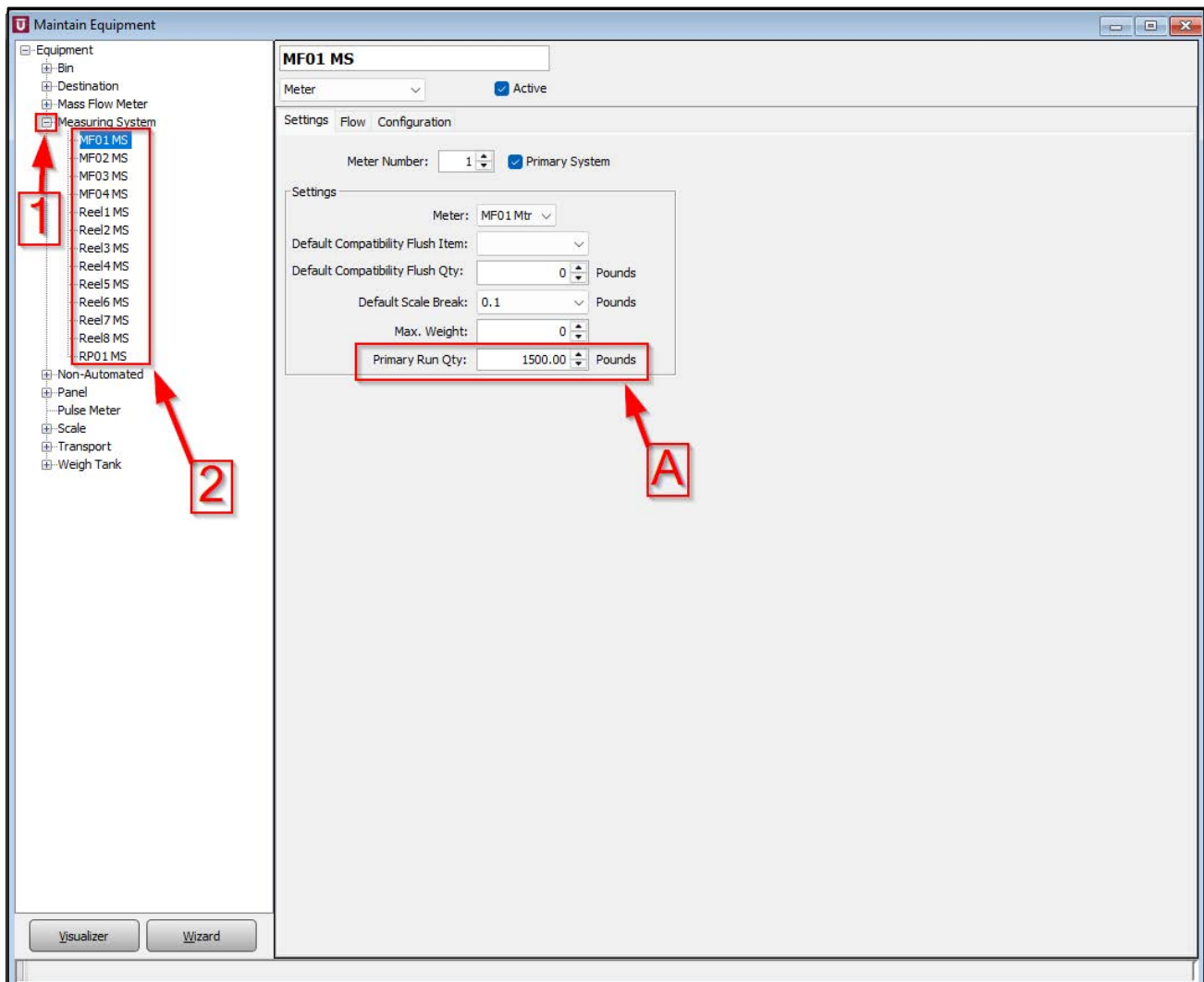
The following are some system settings that are configurable by the user. These are usually setup at install, but they can be changed at anytime as necessary.

- A) **Primary Run Quantity**: The amount of product that must run through the main line before secondary injection ingredients will run.  
**NOTE: THIS MAY ALSO BE EDITED BEFORE RELEASE OF A SPECIFIC ORDER IF NEEDED. (DONE IN THE "EDIT SYSTEM DESTINATIONS" WINDOW)(SEE PAGE 10)**
- B) **Purge Time**: The amount of time, in seconds, that the air purge will run for after all ingredients in that system are done running.
- C) **Purge Cycles**: The amount of times the purge will run after all ingredients in that system are done running with a small delay between cycles.
- D) **Flush Item**: The ingredient that is used to flush the system after all ingredients in that system have finished running (usually set to WATER).
- E) **Origination**: The ingredient location from which the flush ingredient will run.
- F) **Flush Quantity**: The amount of flush ingredient that will run when the system flush is activated.
- G) **Flush Unit**: The unit of measurement for the flush quantity.
- H) **Holdback Quantity**: The amount of product remaining to run in the main line that the system will hold off on running until all of the secondary injection ingredients are finished running. This leaves some amount of product to run through the main line system to finish carrying the secondary injection ingredients to the destination.
- I) **Holdback Unit**: The unit of measurement for the holdback quantity.

1. To access these different settings, perform the following:
  - 1) Click on "Maintain".
  - 2) Click on "Equipment".



2. With the "Maintain Equipment" window open:
  - 1) Expand the "Measuring System" node.
  - 2) Select the measuring system you would like to adjust settings for.
  
3. Setting "A" is under the "Settings" tab and settings "B"- "I" are under the configuration tab.



Maintain Equipment

- Equipment
  - Bin
  - Destination
  - Mass Flow Meter
  - Measuring System
    - MF01 MS**
    - MF02 MS
    - MF03 MS
    - MF04 MS
    - Reel1 MS
    - Reel2 MS
    - Reel3 MS
    - Reel4 MS
    - Reel5 MS
    - Reel6 MS
    - Reel7 MS
    - Reel8 MS
    - RP01 MS
  - Non-Automated
  - Panel
  - Pulse Meter
  - Scale
  - Transport
  - Weigh Tank

**MF01 MS**

Meter   Active

Settings Flow Configuration

Destination	Purge Time...	Purge Cycles	Flush Item	Origination	Flush Qty	Flush Unit	Holdback Qty	Holdback Unit
Bay#1 South Side	60	1	WATER	TK H2O	250.00	Pounds	2,000.00	Pounds
Bay#1 North Side	50	1	WATER	TK H2O	250.00	Pounds	2,000.00	Pounds

↑ B ↑ C ↑ D ↑ E ↑ F ↑ G ↑ H ↑ I

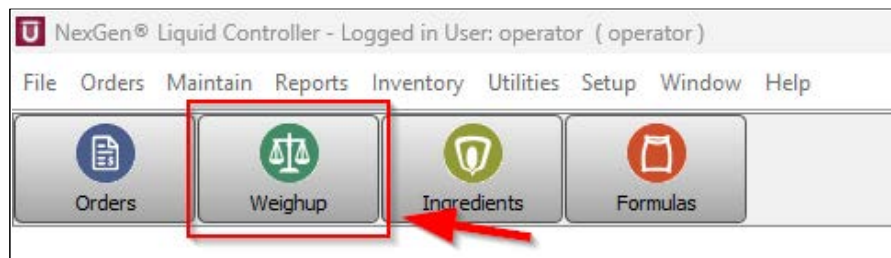
Visualizer Wizard

## ADJUSTING WEIGHUP SETTINGS

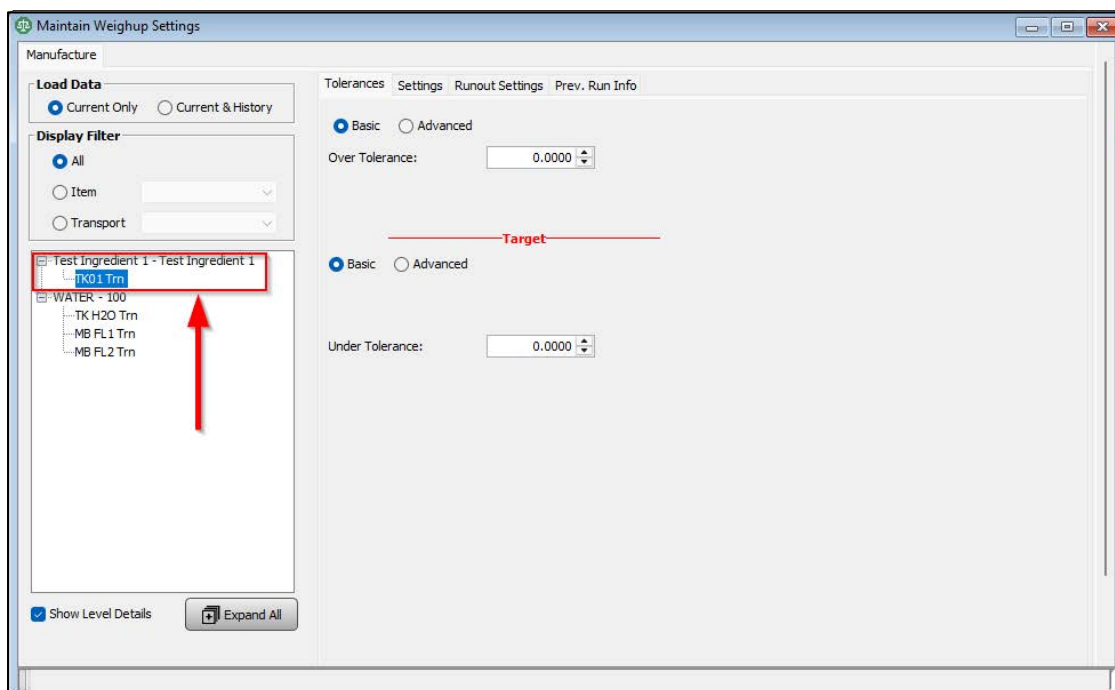
Weighup settings are settings that determine how an ingredient runs from its specific set location. The following list are current weighup settings that are used and configured from NGLC:

A) **Freefall:** This number represents the run amount away from the target quantity that the pump will stop running at. It represents the amount of product, in pounds, that the system expects to flow through its respective flowmeter after the pump stops.

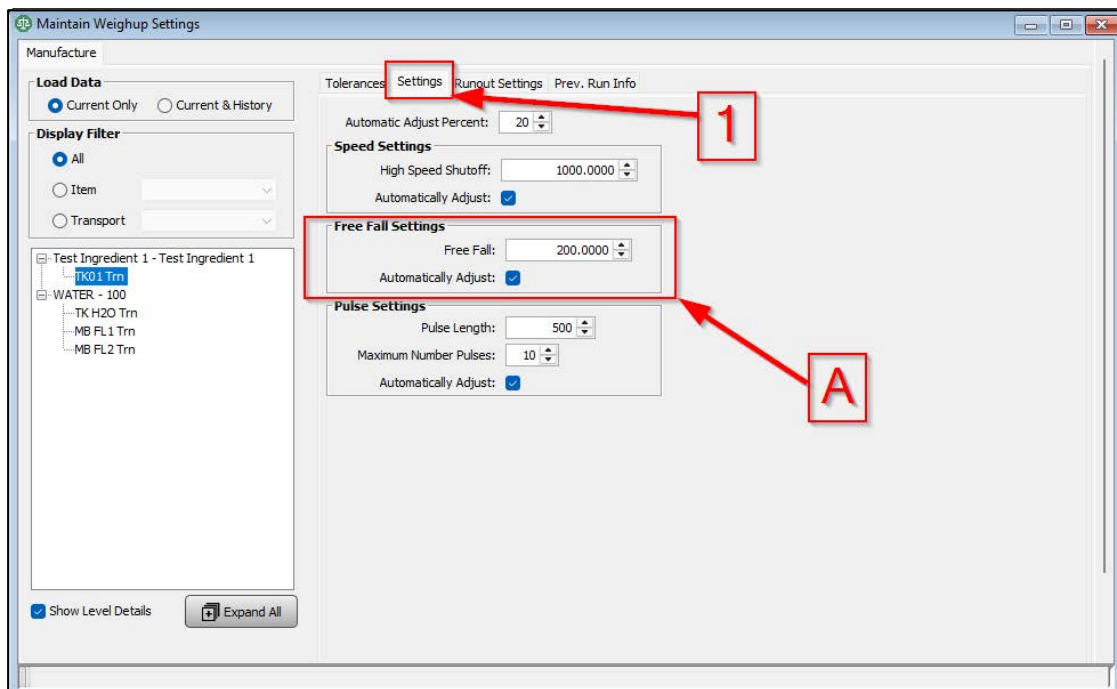
1. To access weighup settings, click on the "Weighup" button in the header.



2. With the "Maintain Weighup Settings" window open, expand the node for the ingredient you're trying to adjust settings for and select the desired ingredient location.



3. To access the freefall setting, perform the following:
  - 1) With the "Maintain Weighup Settings" window open and the desired ingredient location selected, click on the "Settings" tab.
  - 2) Freefall is then adjusted in the location marked by "A" in the screenshot below. Additionally, with the "Automatically Adjust" box checked, the freefall will adjust automatically as orders are ran through the system based off of their final tare weights taken by their respective flow meter.

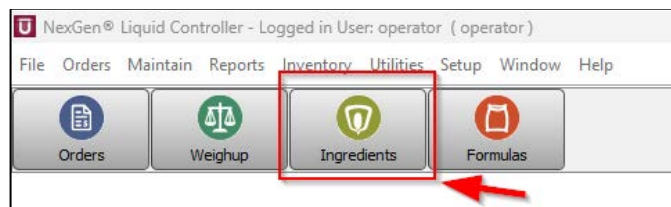


# ITEM INCOMPATIBILITY

Some ingredients may not be compatible with each other and could cause adverse reactions when mixed directly together. To prevent this direct mixing, we can setup item incompatibility settings to flush between running products.

## Setting Up A Flush Ingredient

1. Open the "Ingredients" window.



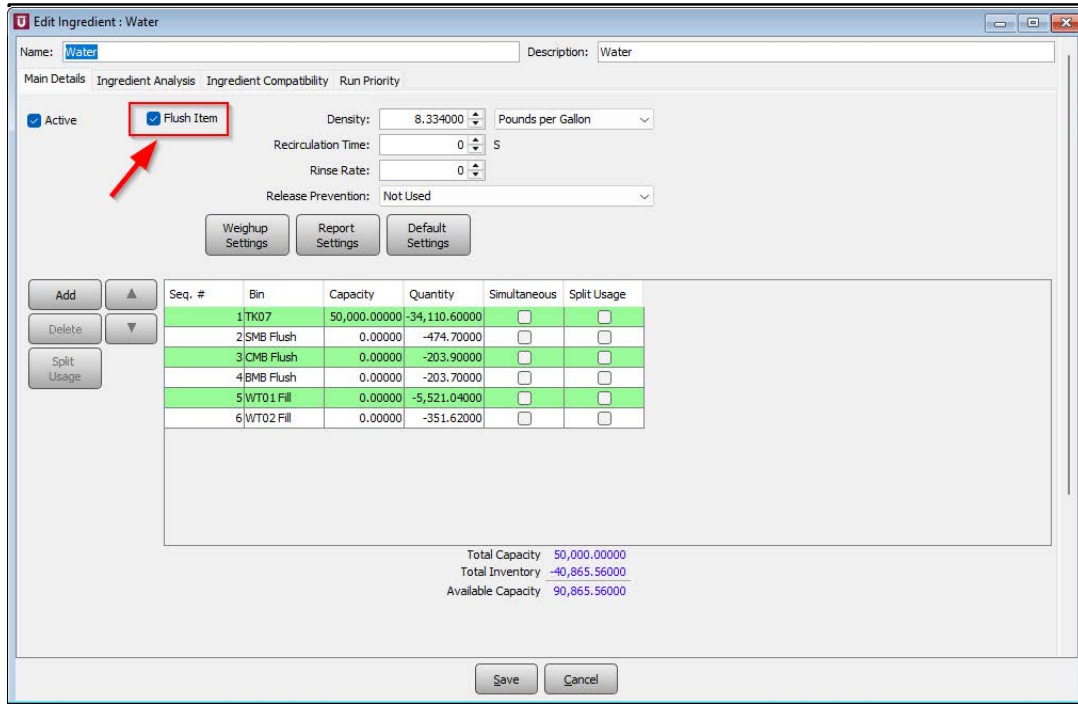
2. Select the ingredient you wish to setup as a flush and either double click it or click the "Edit" button with the ingredient highlighted.

Maintain Ingredients

Count: 36 Clear Filter: Name Contains

	Name ▲	Description	Quantity ▲	Density	Density Unit	Bin Assign... ▲	Recirculation Time	Rinse Rate
Add	Ally	Ally	-269.90	5.84	Pounds/Gallon	LIW1	15	0.00
Edit	Basis	Basis	-41.20	8.02	Pounds/Gallon	BMB2	0	0.00
Delete	Beyond Xtra	Beyond Xtra	-786.07	8.75	Pounds/Gallon	MT05	0	0.00
Set Inactive	Cobra	Cobra	-4,389.36	8.31	Pounds/Gallon	MT07	15	2.00
Adjust Inventory	Cover XL	Cover XL	-41.20	9.01	Pounds/Gallon	BMB3	0	0.00
	dfpotash	0-0-60	0.00	9.36	Pounds/Gallon		0	0.00
	Diablo	Diablo	0.00	9.61	Pounds/Gallon	LIW2	0	0.00
	Dicamba	Dicamba	-128.80	10.43	Pounds/Gallon	SMB2	0	0.00
	Diflexx	Diflexx	-817.94	10.43	Pounds/Gallon	MT04	0	0.00
	Envive	Envive	-645.91	8.02	Pounds/Gallon	MT06	0	0.00
	Everprex	Everprex	-1,396.51	9.14	Pounds/Gallon	MT08	0	0.00
	Finesse	Finesse	-250.00	5.00	Pounds/Gallon	HA01	15	2.00
	FS Dissension	FS Dissension	-41.30	10.67	Pounds/Gallon	BMB4	0	0.00
	FS Talyx	FS Talyx	0.00	8.76	Pounds/Gallon	LIW3	0	0.00
	Halex GT	Halex GT	-41.30	10.17	Pounds/Gallon	CMB3	0	0.00
	Harvest Max	Harvest Max	-1,187.75	10.80	Pounds/Gallon	MT09	0	0.00
	Kilter	Kilter	-128.90	9.18	Pounds/Gallon	SMB3	0	0.00
	Miravis Neo	Miravis Neo	-732.97	8.88	Pounds/Gallon	MT02	0	0.00
	Outlook	Outlook	-41.10	9.43	Pounds/Gallon	CMB4	0	0.00
	Potash	Potash	0.00	0.00			0	0.00
	procotez	Procote Zinc	0.00	13.71	Pounds/Gallon		0	0.00
	Roundup PowerMax 3	Roundup Power...	-1,827.77	11.48	Pounds/Gallon	MT01	0	0.00
	Spartan Charge	Spartan Charge	-41.20	9.99	Pounds/Gallon	CMB2	0	0.00
	Surtain	Surtain	-41.20	9.16	Pounds/Gallon	CMB1	0	0.00
	Water	Water	-40,865.56	8.33	Pounds/Gallon	Multiple Bins ?	0	0.00
	Zidua Pro	Zidua Pro	-129.10	9.93	Pounds/Gallon	SMB4	0	0.00

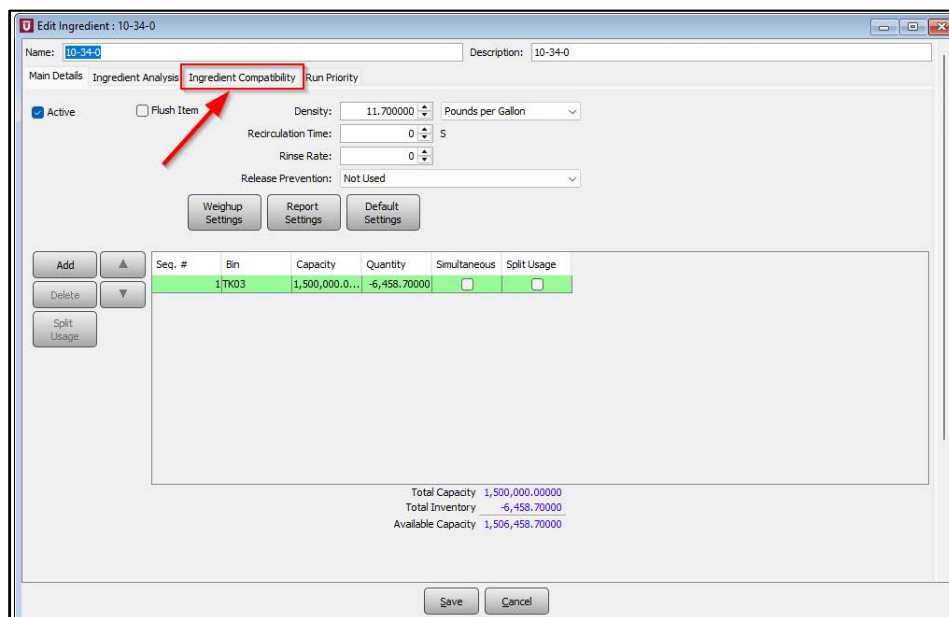
3. Check the "Flush Item" box in the selected ingredients "Edit Ingredient" window.



## Setting Up Incompatible Items

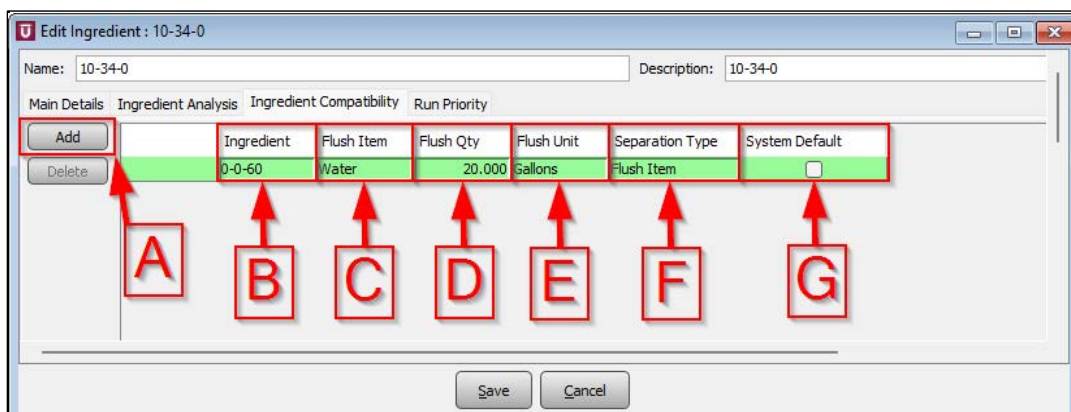
1. Navigate to the ingredient's "Edit Ingredient" window. From there, select the "Ingredient Compatibility" tab.

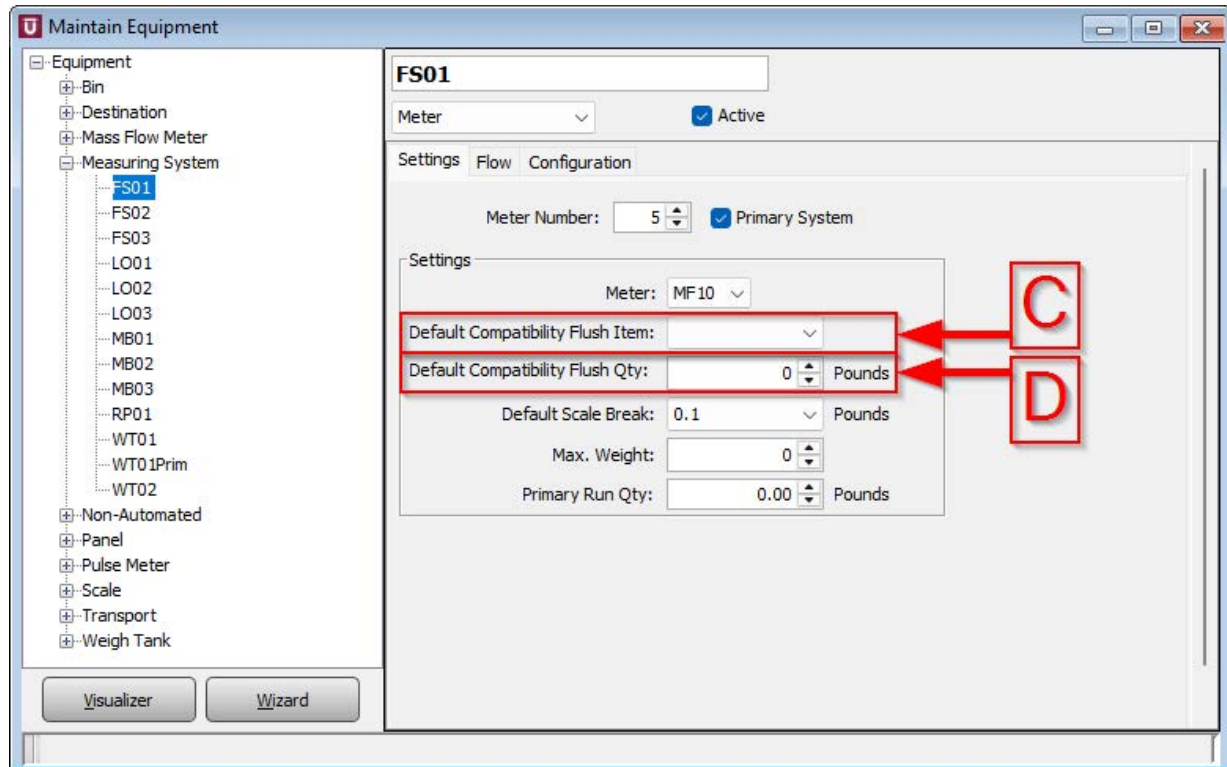
**NOTE: See "Setting Up A Flush Ingredient" as a reference to navigating to this window**



2. In the "Ingredient Compatibility" tab, you can setup incompatibility settings as described below:

- A) **Add:** Press this button to add an additional incompatible ingredient flush for this ingredient.
- B) **Ingredient:** Choose the ingredient that is incompatible with the currently edited ingredient.
- C) **Flush Item:** Choose the ingredient that will be used to flush between incompatible ingredients. Only ingredients marked as "Flush Items" will show up here.
- D) **Flush Quantity:** Choose the amount of flush ingredient to run between incompatible ingredients. The "Default Compatibility Flush Quantity" for the measuring system in the second screenshot is ONLY in the "pounds" unit of measurement.
- E) **Flush Unit:** Choose the unit of measurement of the flush quantity.
- F) **Separation Type:** If set to "Flush Item", it will run the flush item designated in this specific incompatible setting. If set to "Ingredient", it will run one of the other ingredients in the same measuring system as the flush item if there is another ingredient in the same system to run in the same order.
- G) **System Default:** If this is checked, it will use the default incompatibility flush settings that are setup for the measuring system that the edited ingredient is being run from. These settings are located under "Maintain", "Equipment", "Measuring System", and select desired measuring system.





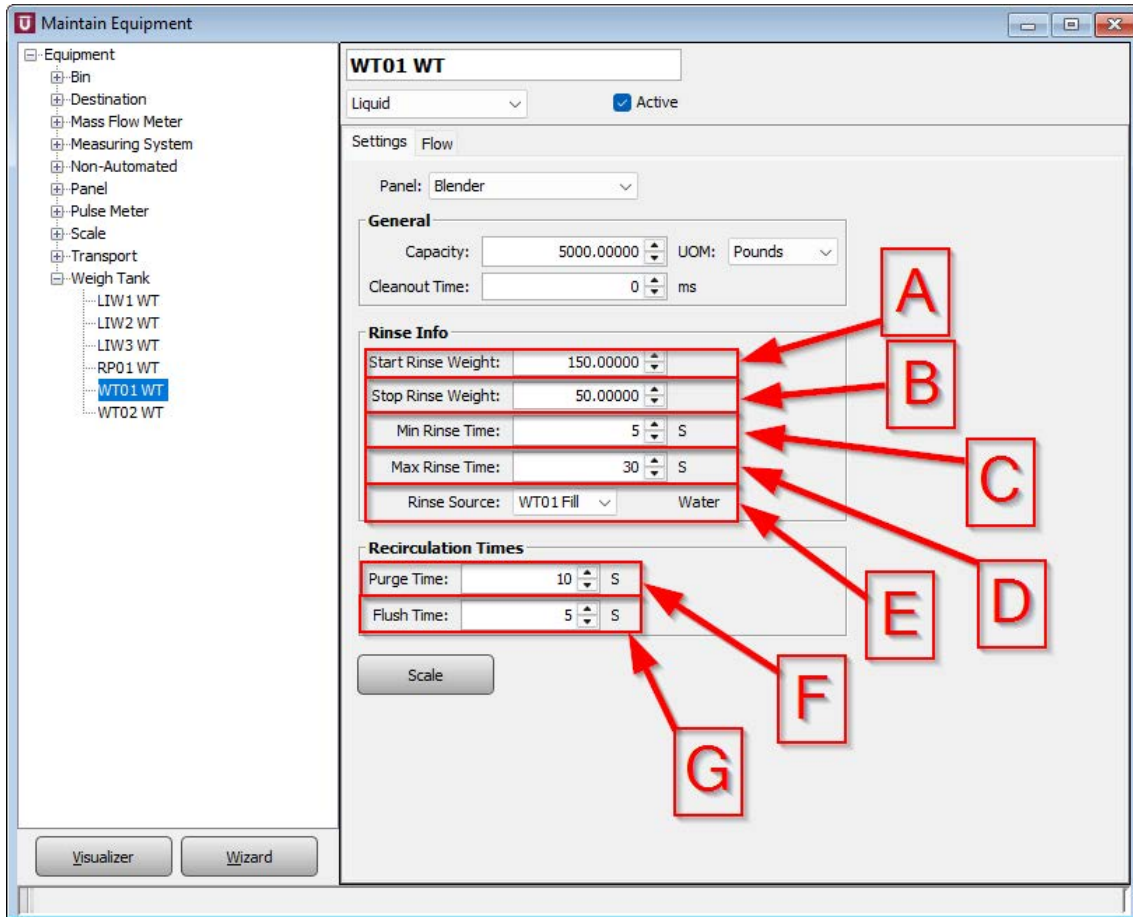
## WEIGH TANK SETTINGS

If your system has a chemical weigh tank included, the following information will list where the configuration settings are located and what they represent.

### Weigh Tank Configuration Settings

1. Navigate to your weigh tank settings by going to "Maintain", then to "Equipment", then expand the "Weigh Tank" node and select the weigh tank you want to adjust settings for. The following is an explanation of those settings:

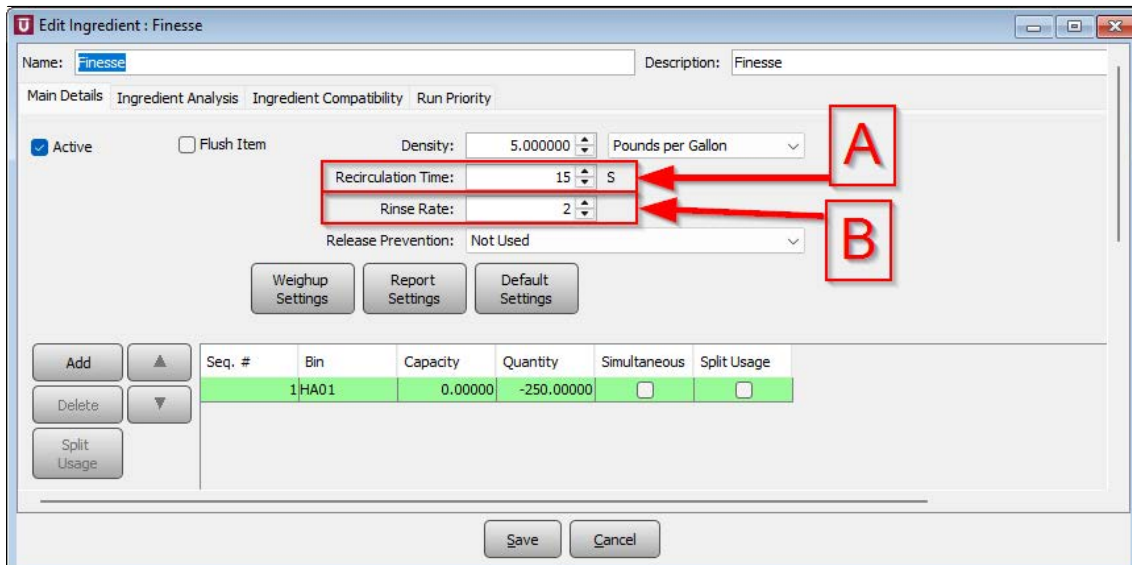
- A) **Start Rinse Weight:** This is the amount of weight left in the weigh tank after the contents have already started injecting that the discharge rinse will start.
- B) **Stop Rinse Weight:** This is the amount of weight left in the weigh tank after the contents have already started injecting that the discharge rinse will stop.
- C) **Min Rinse Time:** This is the minimum amount of time in seconds that the discharge rinse will run for.
- D) **Max Rinse Time:** This is the maximum amount of time in seconds that the discharge rinse will run for.
- E) **Rinse Source:** This is the source of your discharge rinse.
- F) **Purge Time:** This is the amount of time in seconds that your air purge will run in between recirculation cycles.
- G) **Flush Time:** This is the amount of time in seconds that the flush ingredient will run in between recirculation cycles.



# Weigh Tank Ingredient Settings

1. Navigate to the "Edit Ingredient" window for the hand add ingredient you're trying to adjust the settings for by opening the "Ingredients" window, selecting the ingredient, and either double clicking it or hit the "Edit" button on the side of the "Ingredients" window with the ingredient highlighted.

- A) **Recirculation Time:** This is the amount of time in seconds that the selected ingredient will recirculate in the weigh tank after it has been acknowledged as being added.
- B) **Rinse Rate:** This is the ratio of flush ingredient to target quantity of selected ingredient that will run into the weigh tank before it is time to add the selected hand add ingredient. For example, if rinse rate is set to 2 and you are requesting 10 pounds of the selected hand add ingredient, then it will run 20 pounds of water into the weigh tank before it is time to add the hand add ingredient.

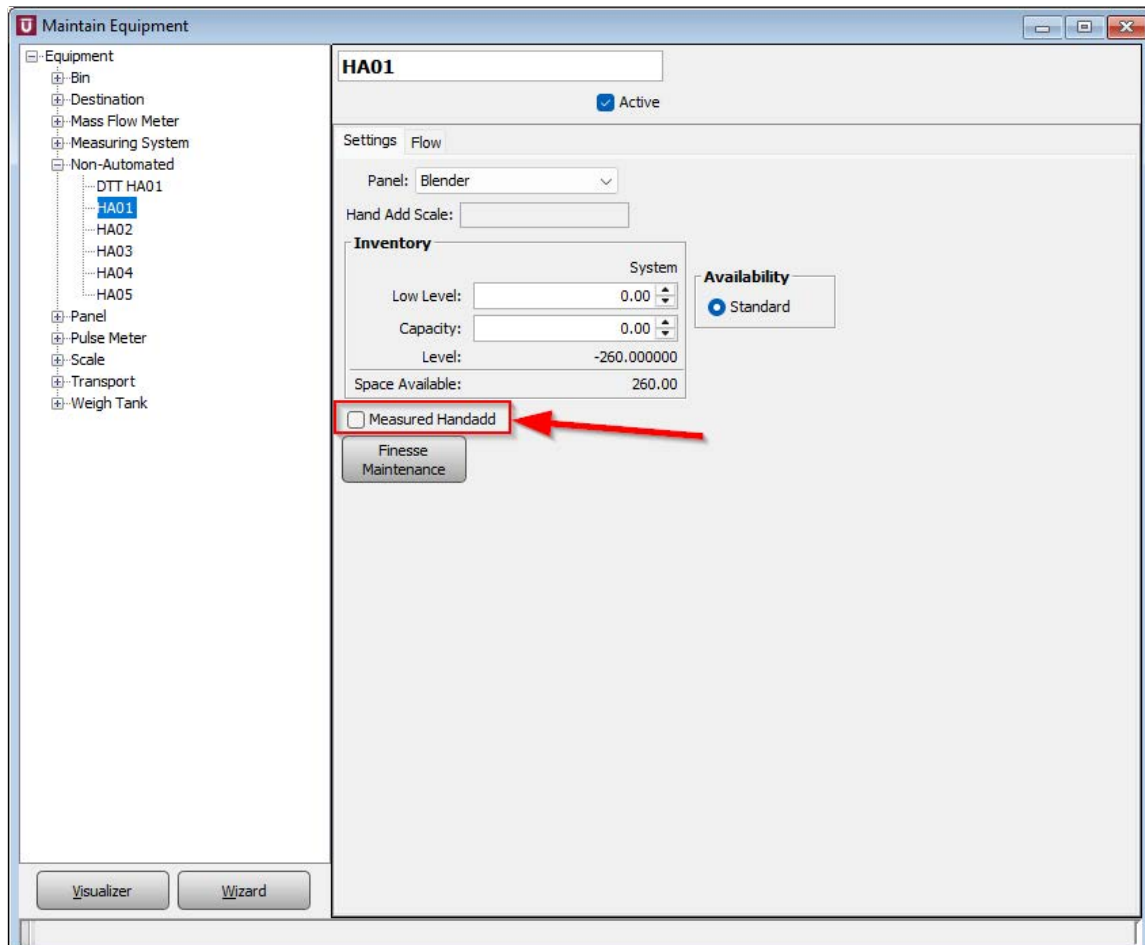


2. You can select whether a hand add ingredient is "measured" or "unmeasured" by navigating to the hand add location that ingredient is set to under "Maintain", "Equipment", expand the "Non-Automated" node, and select the desired hand add location.

If a hand add ingredient is "measured" than an initial tare weight and final tare weight will be taken for the ingredient when it is time to be added to the weigh tank so its actual added amount is recorded in the order information.

**NOTE: Be careful not to lean on or place any weight on the scale when those initial and final tares are taken otherwise that will be reflected in the final order information.**

If a hand add ingredient is "unmeasured" than when the ingredient is requested to be added and then subsequently acknowledged, it will record the requested target amount as the ran amount in the final order information.



## ITEM PRIORITY

Item priority is used to control the order in which all ingredients run in the different measuring systems they're assigned to.

By default, all ingredient priorities are set to "100" which means they will run in sequence of how they are listed in the order. For example, in the order below, we know that the three ingredients pointed out below are ran through the same measuring system. If none of those ingredient's item priority was changed from default, then they will run in the order they're listed in.

The screenshot shows a software window titled "Editing Order Line Item For: Internal | Order Number : 32 / 1". The window contains a "Main Details" section with various input fields for customer, location, area, delivery dates, density, and item information. Below this is a table with the following columns: Sequence, Item, Qty Per ..., Total Qty, Unit, Qty Per T..., and Originati... (truncated). The table lists 8 items. Red arrows point to the "Originati..." column for items 1, 2, and 8.

Sequence	Item	Qty Per ...	Total Qty	Unit	Qty Per T...	Originati...
1	32-0-0 UAN	0.00	1,000.00	Gallons	65.87	TK01
2	12-0-0-26 ATS	0.00	5,550.00	Pounds	365.59	TK04
3	28-0-0 UAN	0.00	500.00	Gallons	32.94	TK02
4	Envive	0.00	802.00	Pounds	52.83	MT06
5	Surtain	0.00	50.00	Gallons	3.29	CMB1
6	Spartan Cha...	0.00	50.00	Gallons	3.29	CMB2
7	Finesse	0.00	25.00	Pounds	1.65	HAD1
8	Water	0.00	800.00	Gallons	52.70	TK07

Totals: 0.00 30,361.70 Pounds 2,000.00

Order Priority: 5

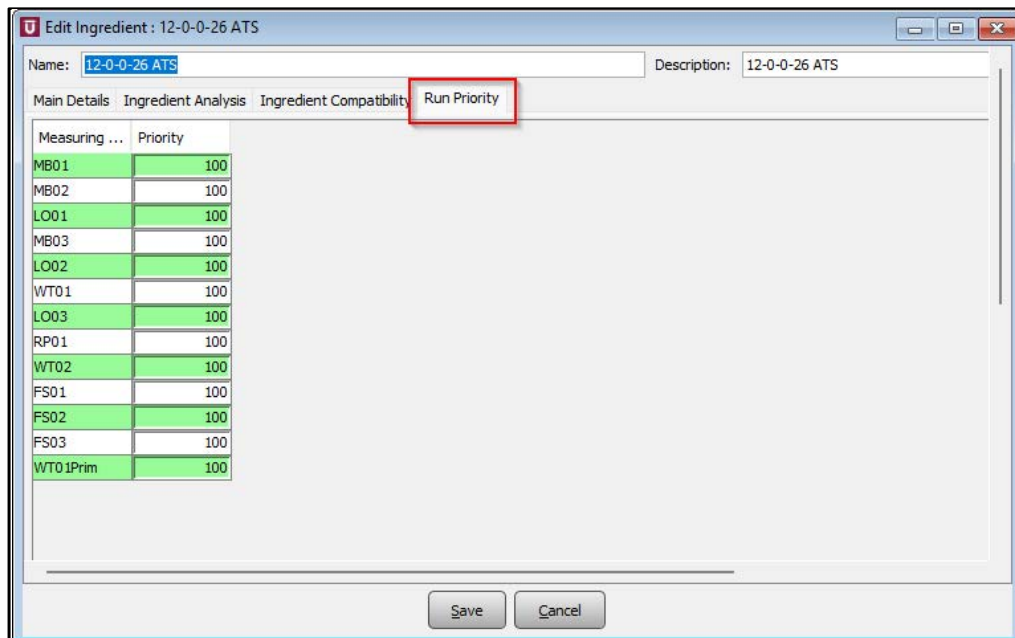
Order Comments: Site Comments:

Buttons: Print Ticket, Save, Clear, Cancel

If you wanted to run the second listed ingredient before the first, then you could select that second ingredient and then click on the "Up Arrow" button on the left side of that "Edit Order Line" window. This will now place that ingredient above the first in sequence and it will run first when that measuring system's ingredients are called to run.

If you wanted to make it so an ingredient in a specific measuring system always runs either before or after a different ingredient in that same system, regardless of the order sequence listed in its "Edit Order Line" window, than you would set that up as follows:

1. Open the "Ingredients" window, select the desired ingredient, either double click it or click the "Edit" button on the left side of the window, and select the "Run Priority" tab right below the ingredient name in the "Edit Ingredient" window.



2. If you want the ingredient to run AFTER the other ingredients in a specific system, you would select the priority number for the given system and then increase that to a number above the other ingredients in the system.

Because all ingredients are set to a priority of "100" by default, increasing the priority number to "101" here would make it so this ingredient will run after all the other ingredients in this specific system when the ingredients of this system are called to run.

If you wanted to make sure an ingredient ran BEFORE other ingredients in a specific system, you would want its priority number to be LOWER than the other ingredients in that measuring system.