







# **Features and Benefits**

- 1) Bare Minimum to Start a New Job for ASC
- 2) Quick Start
- 3) How to Create Field Names
- 4) How to Start New Jobs
- 5) How to Record a New Boundary
- 6) Headland Manager
- 7) How to Import a Boundary from a Third Party Shape File
- 8) Loading a VRC Map
- 9) Job Reports



CHAPTER 1

# Bare Minimum to Start a New Job for ASC

Some operators do not wish to save any Job Reports, use Headland Manager or Variable Rate Control. In these cases the customer can set up Quick Start so that they only have to press one button or follow the steps on the following pages.





Press Job Menu tab





Press the Create New Job tab





Press the green check and you are ready to go!



Chapter 2

# **Using Quick Start**

The following steps will help you enable and use Quick Start.

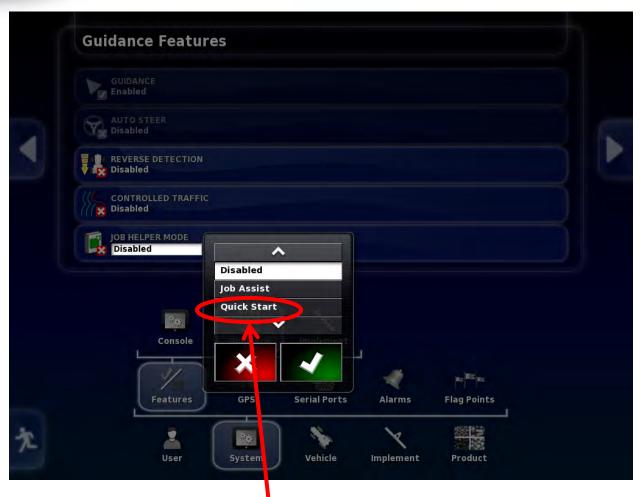
- Quick Start is a program designed to start important functions that are crucial for the proper operation of some options such as auto section control and VRC.
- These important steps will simplify some of the more complex steps that many operators have difficulty remembering.





To enable Quick Start, go to System/Features/Guidance





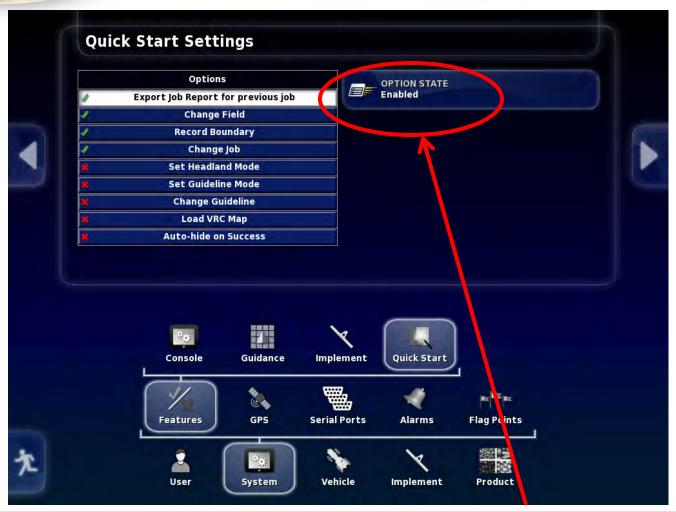
Select Quick Start





Select the new Quick Start Icon to pick the options.





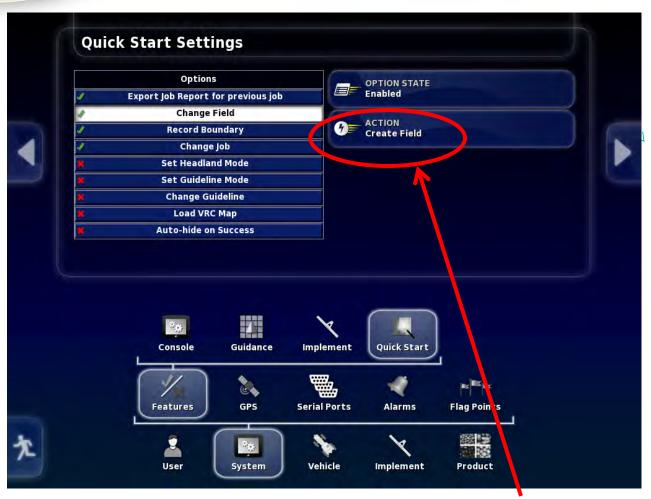
With each Option selected you have the option to disable or enable it.





Export Job Report for previous job will allow a job report to be automatically exported to a USB memory stick when the **Quick Start** button is pressed in the guidance section.





When **Change Field** is selected you may customize the Action





If the **Fields** are loaded with location shape files, you can select **Auto-Locate** Field or Select Field, but if you don't have field locations loaded then select **Create Field**.





Change Job has more options!





**Change Job** will automatically start a new job; in this selection you can customize the **Action** to select a previously named job, or create a new job.





The **Change Job Action** choices are: **Select Job** (allows the selection of pre-named Jobs) or **Create Job** (directs you to create a new job name)





The **Set Job Name** allows you to choose **Default** (auto-generates a name), **Custom** (make a custom job name) or **Prompt** (starts the standard job selection process)





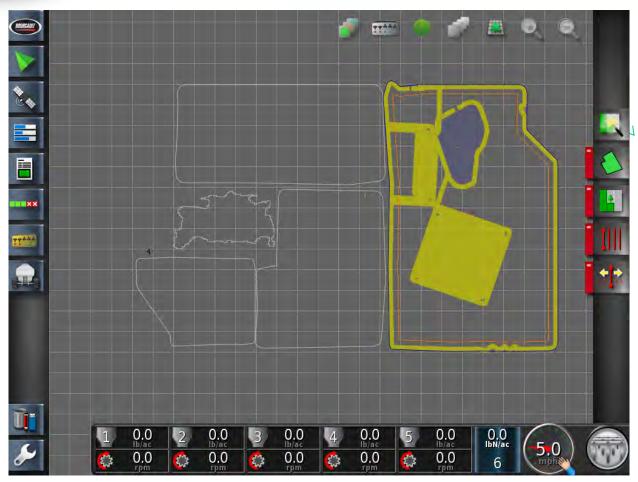
**Set Headland Mode** will automatically set a second boundary in a predetermined number of swaths (Allows you to seed the headlands last).





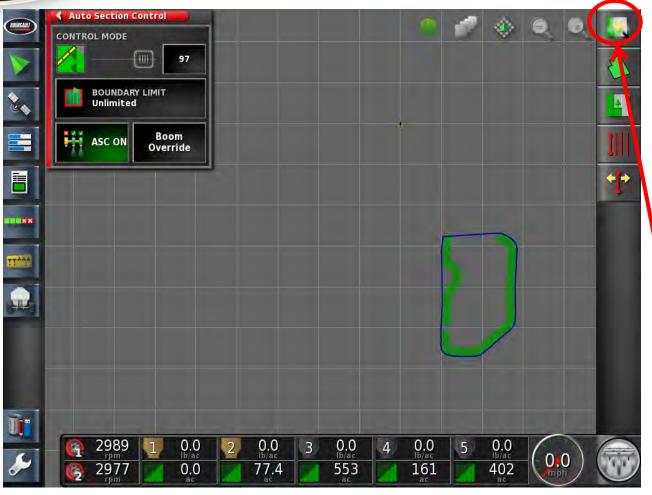
You may select the number of headland swaths here.





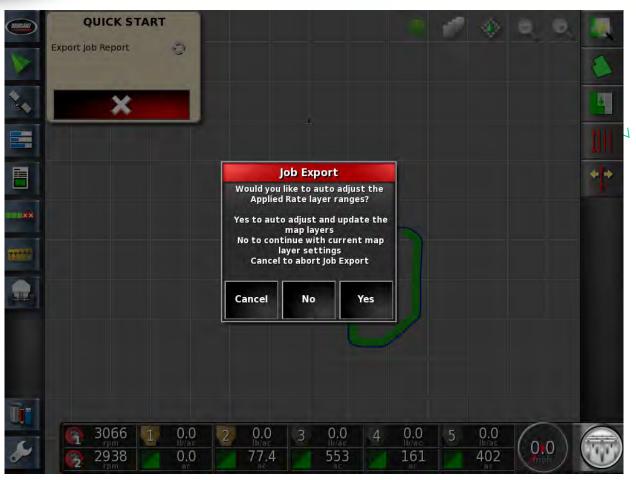
The example above shows the outline of previously recorded boundaries in light grey and the current field in yellow. The next pages are an example of what the process looks like when the **Quick Start** button is pressed with the options previously selected.





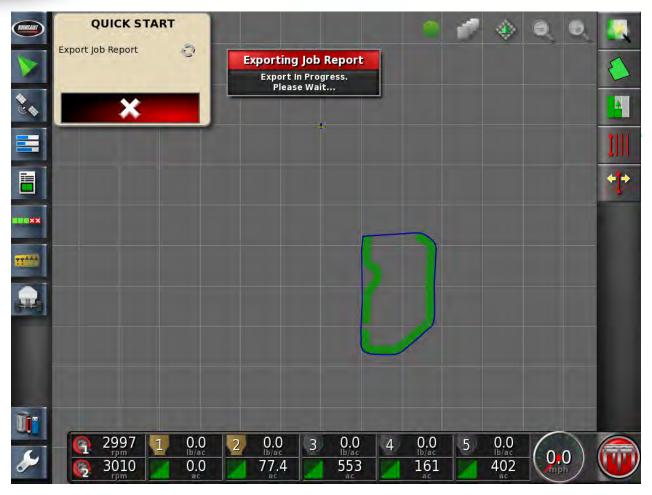
With a USB memory device installed in one of the USB ports, press the **Quick Start** Icon.





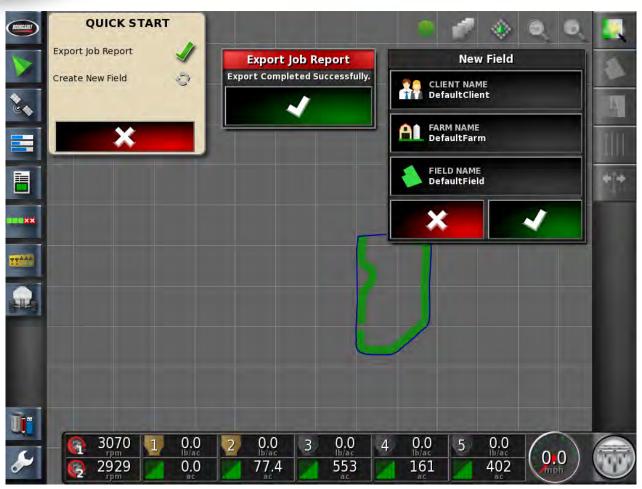
Export **Job Report** to USB memory stick is the first step. At this point, it will ask some details about the map layers for the **Job Report**.





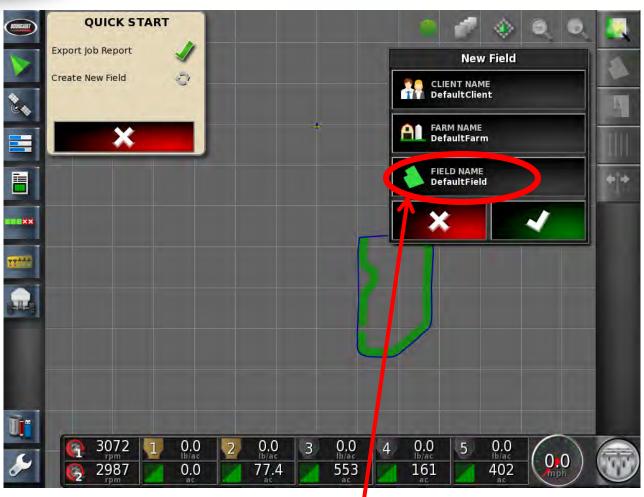
Wait for the **Job Report** to Export





Show that the Job Report Export was successful.





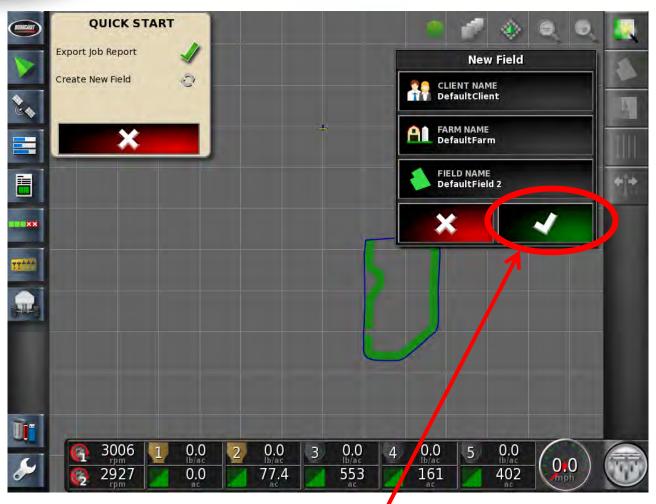
Select the Field





Name your **New Field** 





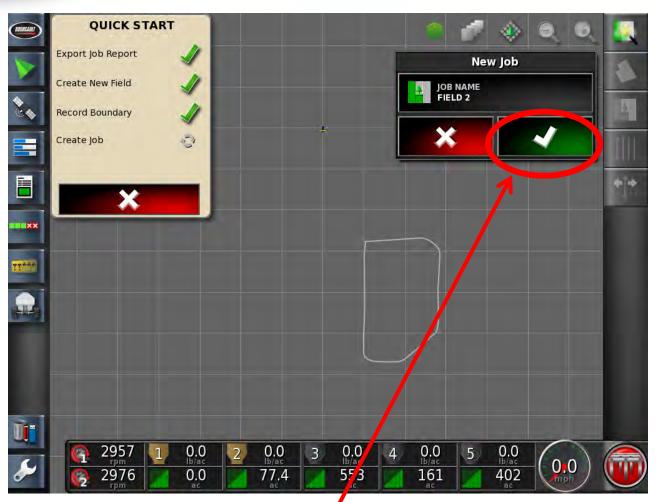
Review and accept your new Field Name





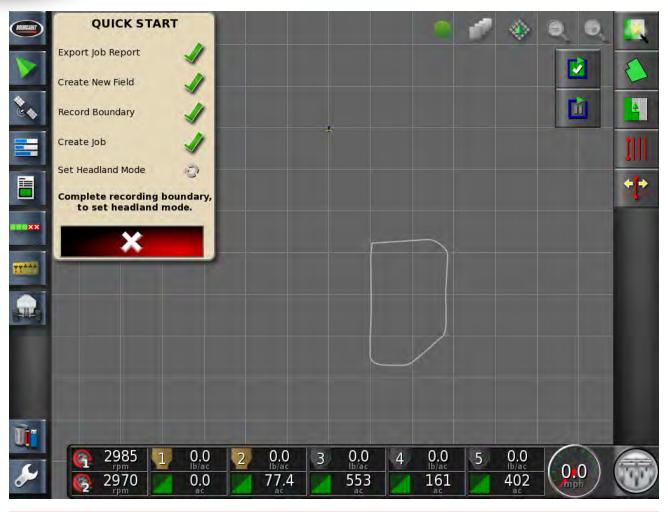
Name your **New Job.** 





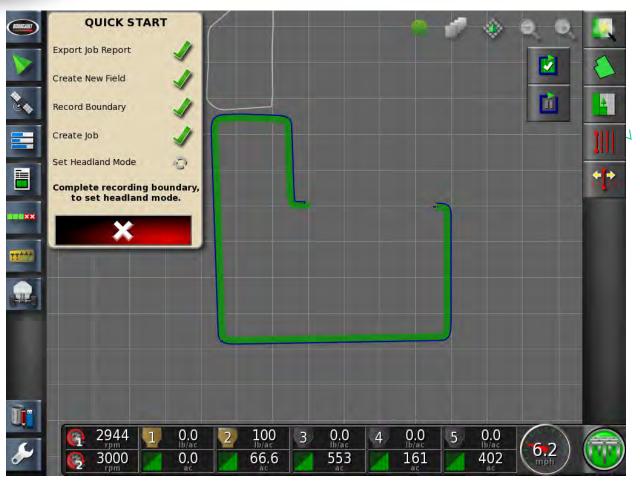
Confirm the Job Name.





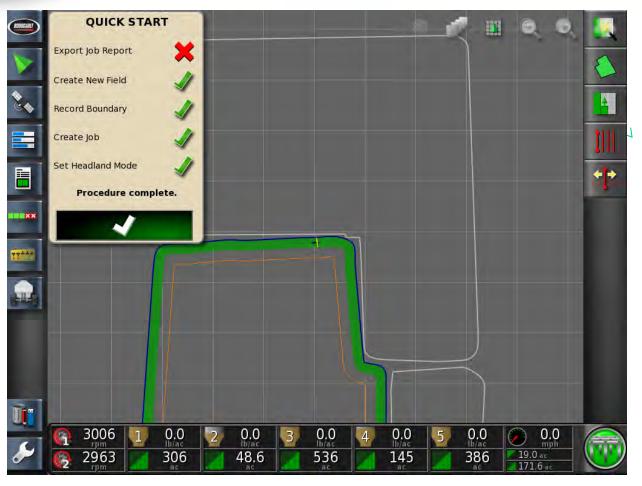
You are now ready to record your **Field Boundary**. See recording boundary power point.





Once your **Boundary** is complete, press the green check, or, if you wish to pause the recording, press the pause button.





Once your Boundary is complete, the secondary Headland will appear as a yellow line within the **Field Boundary**.





Once all of the Quick Start steps are completed, "Procedure complete" appears. Note that there is a **Red X** beside the Export Job Report, this shows that this was skipped by the operator.

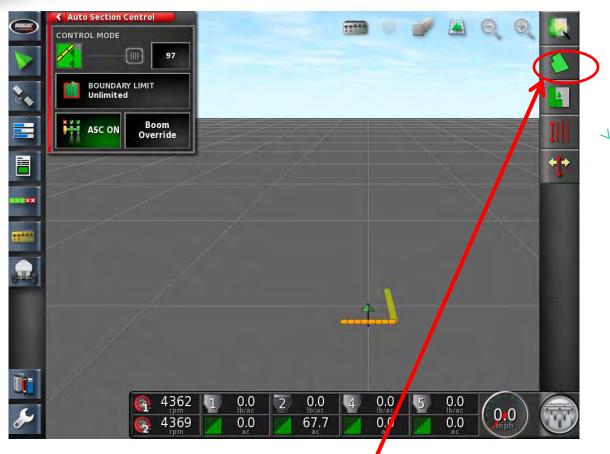


Chapter 3

# **How to Create Field Names**

- Create Field Names in Advance.
- Set Quick Start can be set to prompt for a new Field Name.
- Select Field Names from a USB stick.
- Auto Select Field Names based on a geo location.





To Start a **New Field** or create **Field Names** ahead of time, open the green field tab.





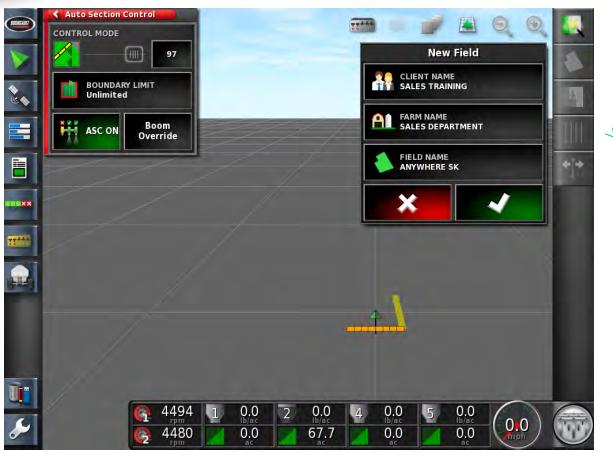
Next to create **Field Names** in advance, open the green **Add Field** tab.





Normally the **Client** and **Farm Names** stay the same when the **Field Names** change.





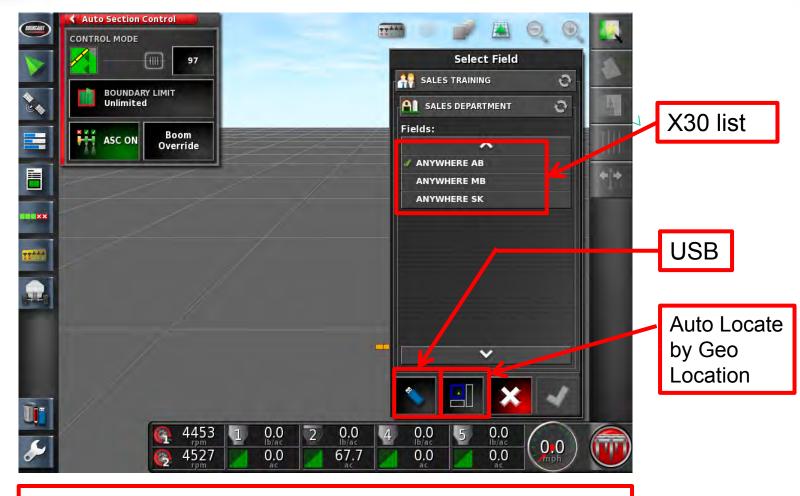
In the example above we have created **SALES TRAINING** as a Client and **SALES DEPARTMENT** as a Farm. Multiple **Field Names** can be created for future work.





To select previously created fields press the blue **Select Field** tab.





**Select Field** from list created with the X30, from the USB stick, or by Geo location.



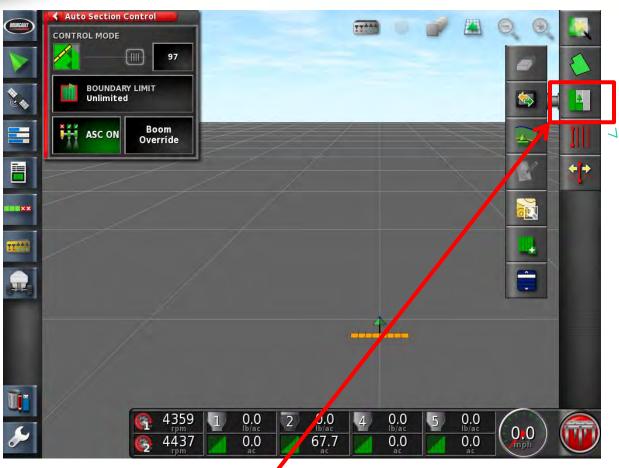
Chapter 4

## How to start new Jobs

All of the higher end functions require the operator to start a new Job, this can be done a number of different ways.

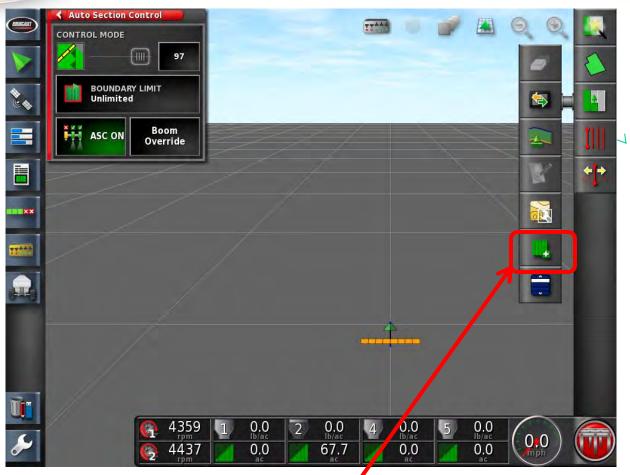
- Use Quick Start to prompt a Job Selection
- Let the X30 auto generate a Job Name
- Select a previously named Job
- Select a Job from a USB stick





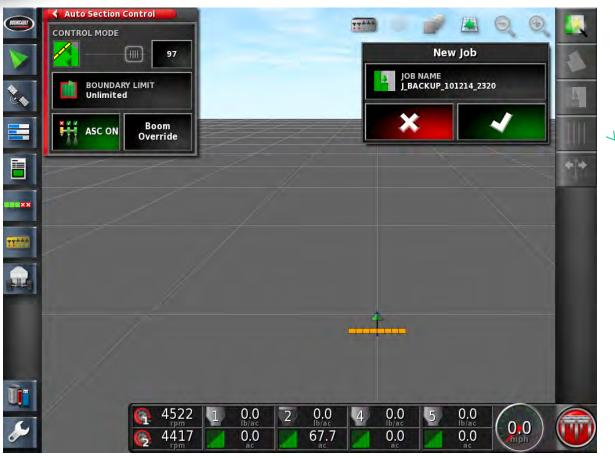
Open the Job Menu tab.





Press the green Create New Job tab.





The X30 will generate a name with the Implement name, date and time or you can create a custom name.





To Select a previously created Field, select the blue **Select Field** tab.





Pick a job from the X30 list or the USB stick.

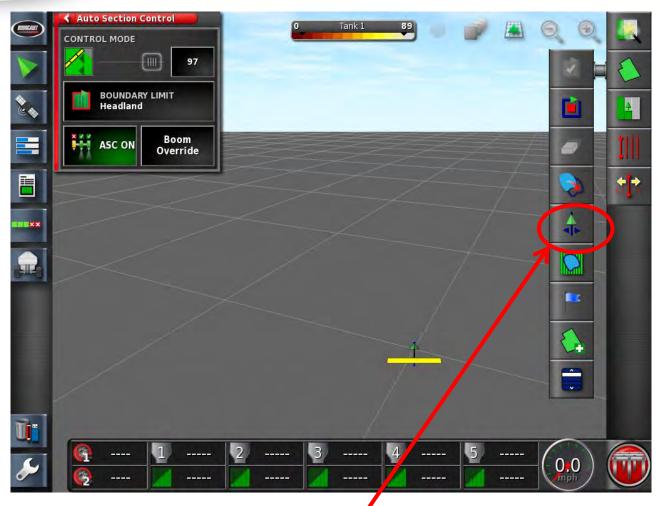


**Chapter 5** 

## Recording a Boundary Map

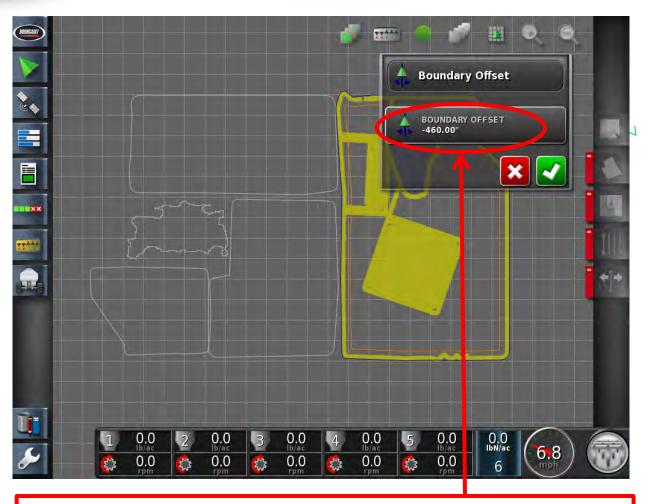
The following steps will help you to **Record a Boundary** which is a critical step for the proper function of the **Bourgault Auto Section Control**.





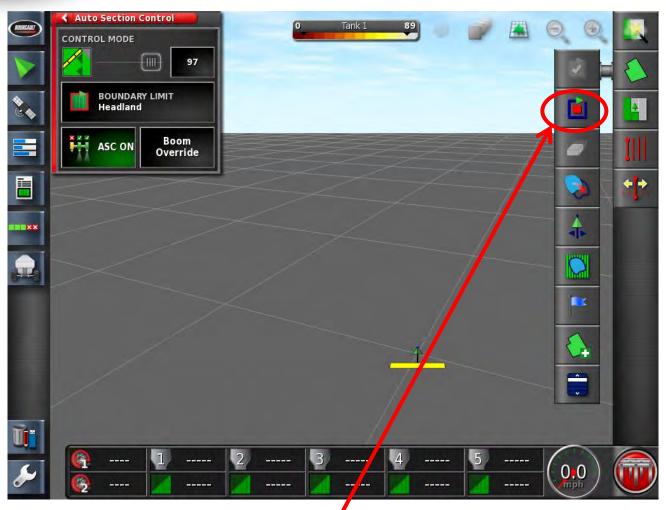
After a New Job is started, select Boundary Offset Tab





Set the offset to ½ the implement width, negative if travelling with boundary to the left.





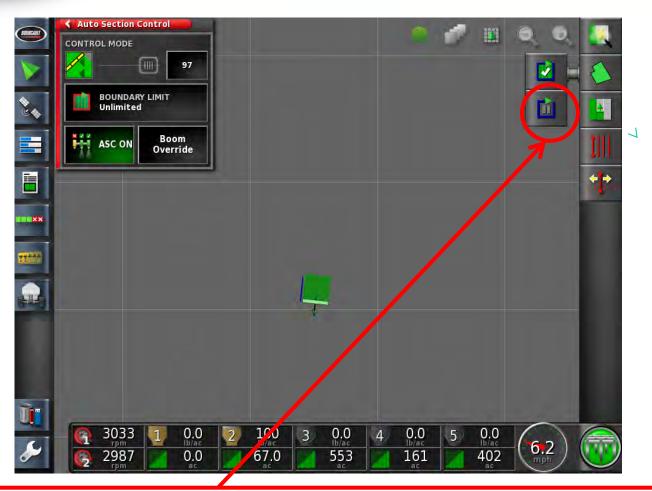
Select the **Record Boundary** tab.





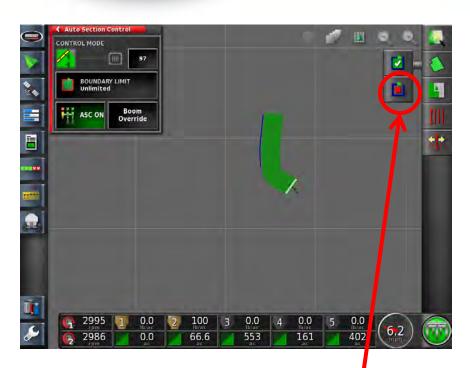
Drive the Boundary of the Field





You can use the **Pause Recording Boundary** to pause while going around objects then resume recording once you are going straight again. The **Master Clutch Off** will also pause the recording of the boundary.



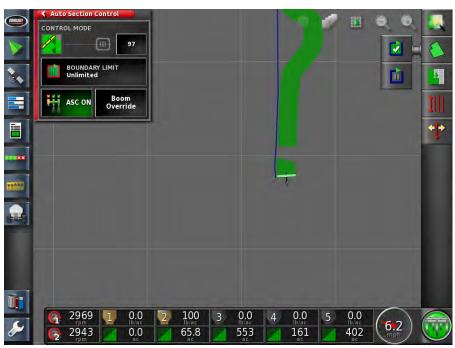




Once you are lined up again, press the red record button to connect the boundary and resume recording.







The new software allows you to pause recording when you turn off the master clutch, then restart when you engage the master again (very useful on turn around).





Once you are lined up with your starting position, press the green box with a check to complete the boundary.



**Chapter 6** 

## Headland Manager

**Headland Manager** is a tool that allows the operator to seed the headlands last with a few easy steps





The drawing above shows the completed boundary in blue. Note that there is a second yellow line which is a headland offset boundary.





After completion of the **Field Boundary** (shown in blue), you can create a second **Headland Offset** enabling the ability to seed the headlands last.



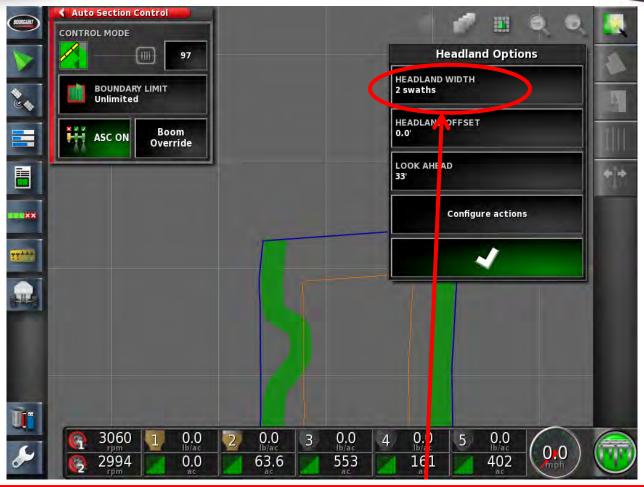


To set up the secondary boundary, select the **Configure Headlands** icon.



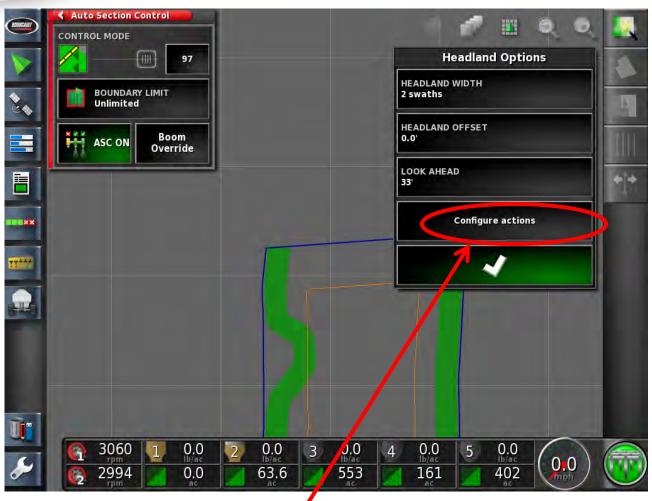
### X30 Apollo System | X30 Brid





Select how many headland swaths to determine the desired number of passes between the **Field Boundary** (blue line) and the **Headland Boundary** (yellow line).





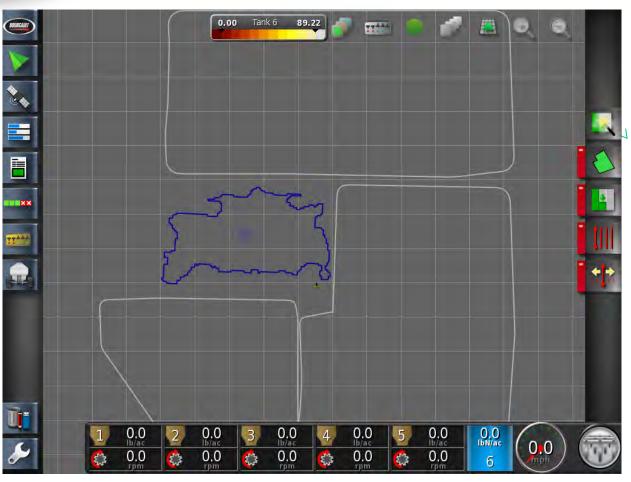
You may also select "Configure actions" to preset a few options.





Actions may be selected as shown above.





Active Boundaries show up as Blue Boundaries and the other previously recorded inactive Boundaries will be Grey Boundaries.



## **Chapter 7**

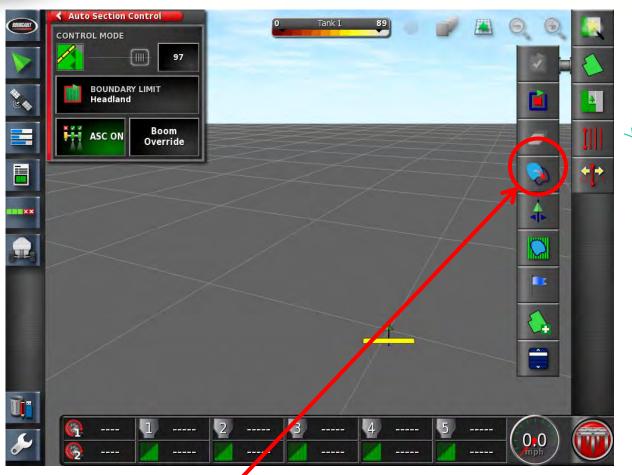
# Loading a Boundary Map From a 3<sup>rd</sup> Party shape File

The following steps will help you create a boundary for your X30 from a shape file that was created by another source.

#### \*\*\*NOTE\*\*\*

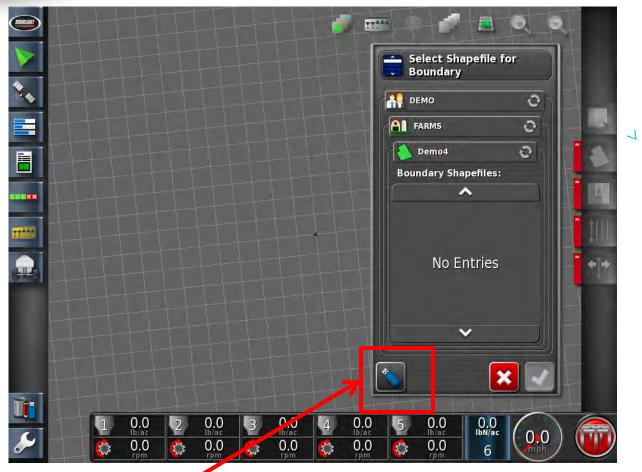
You can only import shape files to use as boundaries if you have a GPS signal going into the X30.





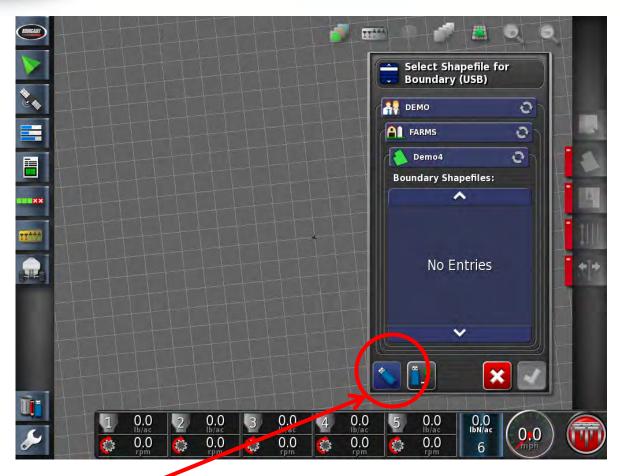
Select this tab to load a Boundary into the X30 after a new Field and Job have been selected.





Select the USB tab to load a shape file from a USB memory device.

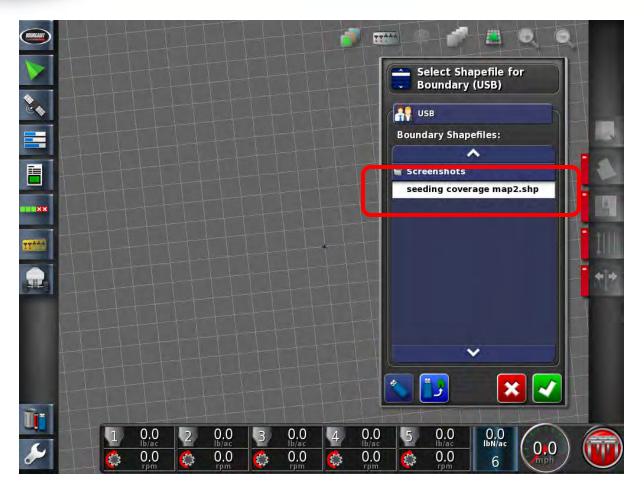




Select this tab to copy the USB shape file to the X30.

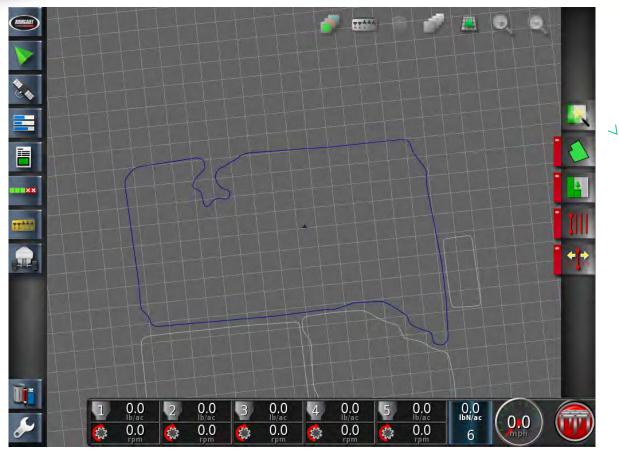
ı.





Select the **Shape File** you wish to load.





If you are located within a few miles of the map the boundary will appear as a blue outline.





\*\*\*NOTE\*\*\*
Boundaries
previously
loaded show
up with a white
outline.

If you are located too far from the boundary you are trying to load you will get this warning, the boundary will be in the X30 but only visible when you are close enough to the Field.



Chapter 8

## Loading a VRC Map

The following steps will help you load a Variable Rate Control map (VRC) that was previously created in the proper file format (see Building maps for X30 power-point in the Service and Parts section of the Bourgault web site in the Monitor Training folder).

 VRC – The three parts of a shape file that are needed for a Variable Rate map to work in an X30 (.dbf, .shp and .shx). These files must be properly on an X30.





Select the VRC tab after selecting a Field and Job





Follow the VRC Configuration steps.





Most VRC files are formatted in a Shape format.





Select the shape file you wish to use.





You will have to assign the product in each tank. The Channel column show the product you selected for each tank from the seeder controller page.





Select a Source for each product, either No VRC or the VRC map.





When VRC has been selected you must touch the Attribute tab and select the product to be used in the selected tank.





Always enter a Default rate for VRC tanks, failure to do so will cause the rate to go to "0" in the event that you lose GPS.





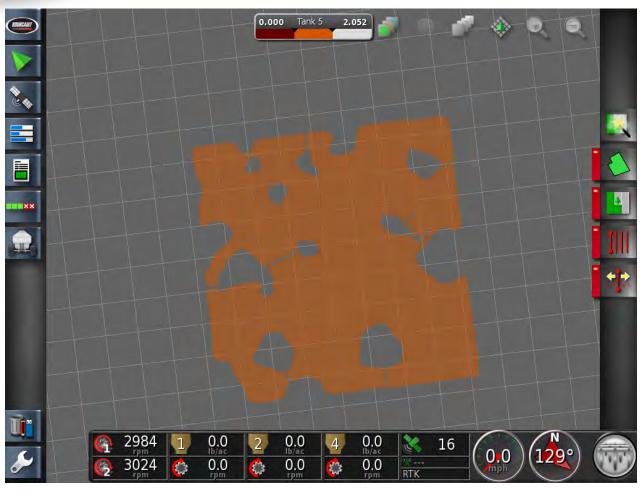
Confirm all of your selections then press the RH Yellow arrow.





The Green check mark completes the VRC map loading process.





The example shown above is a common example of what a VRC Shape looks like. Refer to the **Bourgault Operators** manual for more detailed information.



Chapter 9

## **Job Reports**

Whenever a **Job** has been started the X30 starts logging details that can be exported into three folders as follows:

#### 1. Clients

 Contains Client Name, Farm Name, Field name and Job Name, as well as the Boundary and Coverage Shape Files.

#### 2. Reports

Printable PDF's

#### 3. Taskdata

XML system files





To export a **Job** to a USB memory stick, press the **Job Menu** button,





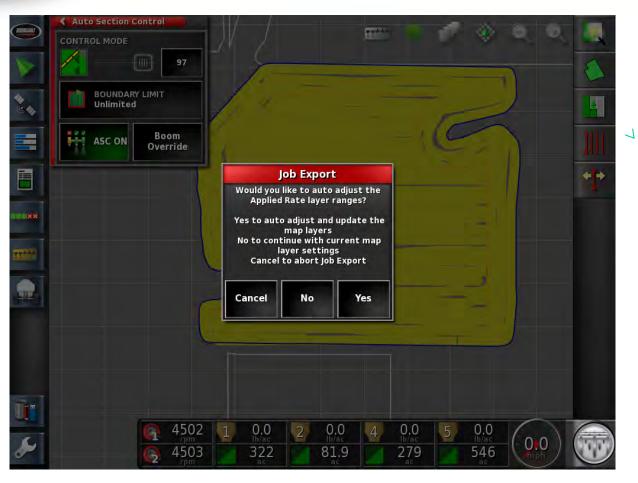
Press the Data Exchange button.





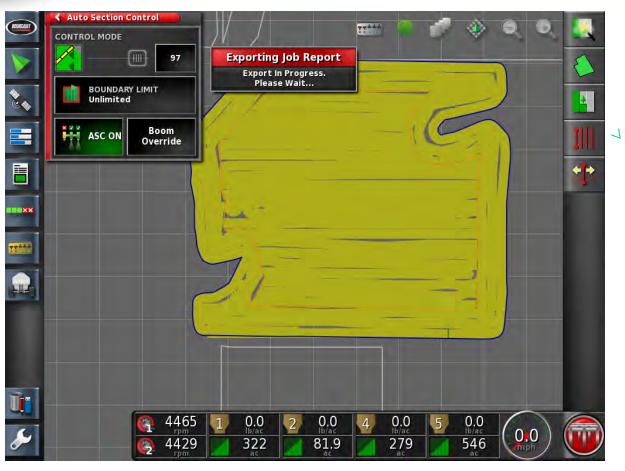
With a USB memory stick installed, press the **Export Job Report** to USB button.





When the **Exporting Job** starts it will ask if you wish to reconfigure the layers.





The **Exporting Job Report** may take several seconds.





#### **Chapter 10**

The following pages are of a sample **Job Report PDF**, this may be printed and kept on file.

- Job Summary
- Applied Maps for each product metered.
- Full Width and Sectional Coverage Maps.
- Area Counter Summary.



#### **Job Summary**



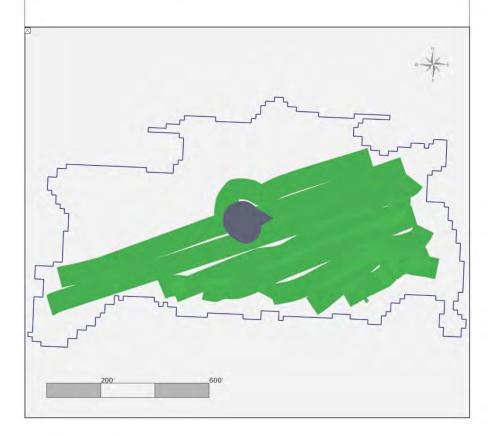
Client	Service School 2014		
Farm	Rick's demo		
Field	Demo 2014		
Job	J_7950 5TANK-MTRG(SCN) NH3(SCN)_3320-76 10SPCG(GRAN SCN) HF_022814_1159		

#### Job Details

Implement	7950 STANK-MTRG(SCN) NH3(SCN)_3320-76 10SPCG(GRAN SCN) HF			
Vehicle	9030 Articulated			
Started On	Feb 28, 2014 11:59 am			
Finished On	Feb 28, 2014 12:43 pm			
Total Hours	44 min			
Productive Hours	26 min			
Distance Travelled	1.5 miles			
Boundary Area	21.53 ac			
Notes	4 1			



Coverage	Map BOURGAUL		
Client	Service School 2014		
Farm	Rick's demo		
Field	Demo 2014		
Job	J_7950 5TANK-MTRG(SCN) NH3(SCN)_3320-76 10SPCG(GRAN S.		
Boom	Full Width		
Area Covered	10.23 ac		
Map Origin	Latitude 51°24'10.08"N Longitude 101°54'44.82"W		





#### BOURGAULT **Coverage Map** Client Service School 2014 Farm Rick's demo Field Demo 2014 Job J\_7950 5TANK-MTRG(SCN) NH3(SCN)\_3320-76 10SPCG(GRAN S... GRAN Boom Area Covered 9.21 ac Map Origin Latitude 51°24'10.08"N Longitude 101°54'44.82"W



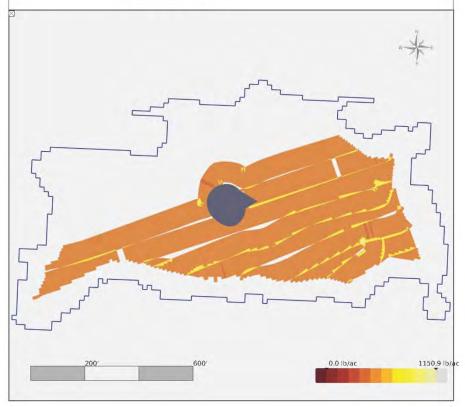


# Coverage Map BOURGAULT Client Service School 2014 Farm Rick's demo Field Demo 2014 Job J\_7950 5TANK-MTRG(SCN) NH3(SCN)\_3320-76 10SPCG(GRAN S... Boom NH3 Area Covered 9.32 ac ☑ Map Origin Latitude 51°24′10.08″N Longitude 101°54′44.82″W



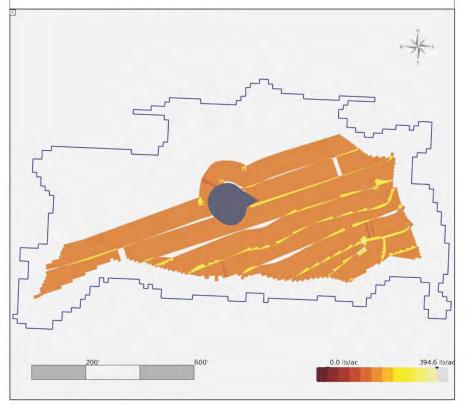


Applied R	BOURGAULT			
Client	Service School 2014			
Farm	Rick's demo			
Field	Demo 2014 J_7950 5TANK-MTRG(SCN) NH3(SCN)_3320-76 10SPCG(GRAN S.			
Job				
Tank	Tank 1			
Product	WHEAT-HR			
Minimum Rate	0.0 lb/ac			
Maximum Rate	1150.9 lb/ac			
Map Origin	Latitude 51°24'10.08"N Longitude 101°54'44.82"W			



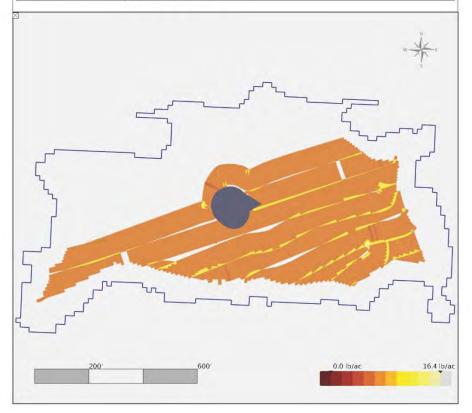


Applied R	BOURGAULT			
Client	Service School 2014			
Farm	Rick's demo  Demo 2014  J_7950 5TANK-MTRG(SCN) NH3(SCN)_3320-76 10SPCG(GRAN S			
Field				
Job				
Tank	Tank 2			
Product	WHEAT-HR			
Minimum Rate	0.0 lb/ac			
Maximum Rate	394.6 lb/ac			
Map Origin	Latitude 51°24'10.08"N Longitude 101°54'44.82"W			



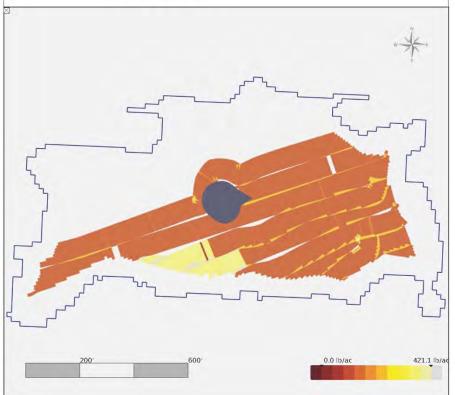


Applied Rate: CANOLA		BOURGAULT		
Client	Service School 2014			
Farm	Rick's demo			
Field Demo 2014				
Job	J_7950 5TANK-MTRG(SCN) NH3(SCN)_3320-76 10SPCG			
Tank	Tank 3			
Product	CANOLA			
Minimum Rate	0.0 lb/ac	10		
Maximum Rate	16.4 lb/ac			
Map Origin	Latitude 51°24'10.08"N Longitude 101°54'44.82"W			



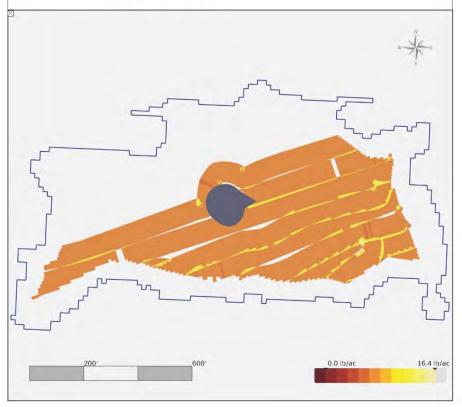


Applied R	BOURGAULT			
Client	Service School 2014			
Farm	Rick's demo			
Field	Demo 2014 J_7950 5TANK-MTRG(SCN) NH3(SCN)_3320-76 10SPCG(GRAN S			
Job				
Tank	Tank 4			
Product	WHEAT-HR			
Minimum Rate	0.0 lb/ac			
Maximum Rate	421.1 lb/ac			
Map Origin	Latitude 51°24'10.08"N Longitude 101°54'44.82"W			



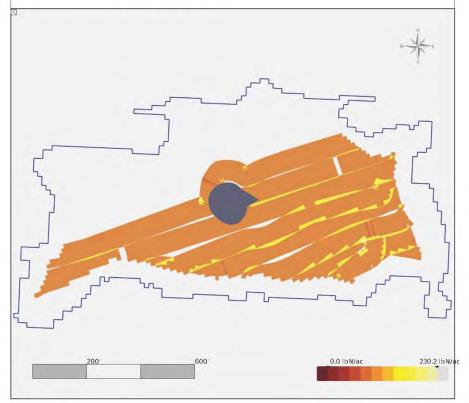


Applied Rate: CANOLA		BOURGAULT		
Client	Service School 2014			
Farm	Rick's demo			
Field	Demo 2014  J_7950 5TANK-MTRG(SCN) NH3(SCN)_3320-76 10SPCG(GRA			
Job				
Tank	Tank 5			
Product	CANOLA			
Minimum Rate	0.0 lb/ac			
Maximum Rate	16.4 lb/ac			
Map Origin	Latitude 51°24'10.08"N Longitude 101°54'44.82"W			





Applied Rate: NH3		BOURGAULT		
Client	Service School 2014			
Farm	Rick's demo			
Field	Demo 2014 J_7950 5TANK-MTRG(SCN) NH3(SCN)_3320-76 10SPCG(GRAN S			
Job				
Tank	Tank 6			
Product	NH3			
Minimum Rate	0.0 lbN/ac			
Maximum Rate	230.2 lbN/ac			
Map Origin	Latitude 51°24'10.08"N Longitude 101°54'44.82"W			





Client	Service School 2014						
Farm	Rick's demo						
Field	Demo 2014						
lob	]_7950 5TANK-MTRG(SCN) NH3(SCN)_3320-76 10SPCG(GRAN SCN) HF_022814_1159						
Tank 1 (WHEAT-HR)							
Area Counter	Treated Area	Full Area	Product Used	Operating Time	Average Rate	Productivity	
1	14.72 ac	14.72 ac	5148.57 lb	00:43:17	349.79 lb/ac	20.40 ac/hr	
Total	14.72 ac	14.72 ac	5148.57 lb	00:43:17	349.79 lb/ac	20.40 ac/hr	
Tank 2 (WHEAT-HR)							
Area Counter	Treated Area	Full Area	Product Used	Operating Time	Average Rate	Productivity	
1	14.72 ac	14.72 ac	1765.67 lb	00:43:17	119.96 lb/ac	20.40 ac/hr	
Total	14.72 ac	14.72 ac	1765.67 lb	00:43:17	119.96 lb/ac	20.40 ac/hr	
Tank 3 (CANOLA)							
Area Counter	Treated Area	Full Area	Product Used	Operating Time	Average Rate	Productivity	
1	14.72 ac	14.72 ac	73.96 Jb	00:43:17	5.02 lb/ac	20.40 ac/hr	
Total	14.72 ac	14.72 ac	73.96 lb	00:43:17	5.02 lb/ac	20.40 ac/hr	
Tank 4 (WHEAT-HR)							
Area Counter	Treated Area	Full Area	Product Used	Operating Time	Average Rate	Productivity	
1	14.71 ac	14.71 ac	2062.08 lb	00:43:15	140.20 lb/ac	20.40 ac/hr	
Total	14.71 ac	14.71 ac	2062.08 lb	00:43:15	140.20 lb/ac	20.40 ac/hr	
Tank 5 (CANOLA)							
Area Counter	Treated Area	Full Area	Product Used	Operating Time	Average Rate	Productivity	
1 -	14.72 ac	14.72 ac	73.96 lb	00:43:17	5.03 lb/ac	20.40 ac/hr	
Total	14.72 ac	14.72 ac	73.96 lb	00:43:17	5.03 lb/ac	20.40 ac/hr	
- 11 6 MM3							
Tank 6 (NH3)  Area Counter	Treated Area	Full Area	Product Used	Operating Time	Average Rate	Productivity	
-1	14.72 ac	14.72 ac	1026.07 IbN	00:43:17	69.7 IbN/ac	20.40 ac/hr	
Total	14.72 ac	14.72 ac	1026.07 lbN	00:43:17	69.7 lbN/ac	20.40 ac/hr	