



Many companies invest heavily in Plant & Equipment, so it naturally follows that having spent all that money, they will want to maximise the equipment's use as efficiently as possible.

Sometimes though, keeping track of everything can be a bit like herding chickens, especially if you have a large inventory of equipment across multiple projects.

Helpfully, Project can take the pain out of running this process and make life far easier for everyone by using **Resource Pooling**. A resource pool is a special Project file created specifically to contain only a list of common resources that are available for use across multiple Projects.

It uses only the Resource Sheet (which is one of Project's default views), to hold all relevant information on your global set of resources. As with any Project view, it can be customised with additional fields and columns to add additional information to suit your needs and requirements. Other than this, the Programme file is left empty.

So, let's first set it up and then look at how we could use it, not only to track usage but also costs.

First, we need to create a new blank programme, then save it with a name that immediately identifies its purpose, such as 'Resource Pool' or similar.

Resources are the people (labour), plant, materials, and services, which get consumed during the life of the project. For this example, I'm only going to concentrate on **Plant**, so here's a sample list of resources that I have loaded on to the resource sheet as our commonly shared equipment.

5 Tonne Excavator	Depot 1	Work	5	Excavators	100%	\$80.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
13 Tonne Excavator	Depot 1	Work	1	Excavators	100%	\$100.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
13 Tonne Excavator	Depot 2	Work	1	Excavators	100%	\$100.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
20 Tonne Excavator	Depot 1	Work	2	Excavators	100%	\$120.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
20 Tonne Excavator	Depot 1	Work	2	Excavators	100%	\$120.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
20 Tonne Excavator	Depot 2	Work	2	Excavators	100%	\$120.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
Excavator Delivery Cost		Work	E	Excavators	100%	\$0.00/hr	\$0.00/hr	\$400.00	Start	Standard
28 Tonne Dump Truck (17.5m3)	Depot 2	Work	2	Dump Trucks	100%	\$100.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
38 Tonne Dump Truck (23m3)	Depot 2	Work	3	Dump Trucks	100%	\$130.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
Dump Truck Delivery Cost		Work	D	Dump Trucks	100%	\$0.00/hr	\$0.00/hr	\$300.00	Start	Standard





The way to access the **Resource Sheet** is to click on the Gantt chart icon at the top right corner of the Programme and choose from the drop-down list.

Once we have written up our list of resources, we can add additional useful information, such as charge out rate, and delivery transport costs or location if you have more than one depot. You can add additional columns as you see fit, to suit your needs.

In my example l've added a custom column to show ${\sf Location}$ (useful if plant is garaged in multiple Depots). .

_	Resource Nam	e 🔻	Location	▼ Type ▼ N	laterial	 Initials 	 Group
1	5 Tonne Ex	cavator	Depot 1	Work		5	Excavators
2	13 Tonne E	xcavator	Depot 1	Work		1	Excavators
3	13 Tonne E	xcavator	Depot 2	Work		1	Excavators
4	20 Tonne E	xcavator	Depot 1	Work		2	Excavators
5	20 Tonne E	xcavator	Depot 1	Work		2	Excavators
6	20 Tonne E	xcavator	Depot 2	Work		2	Excavators
7	28 Tonne D	ump Truck (17.5m3)	Depot 2	Work		2	Dump Truck
8	38 Tonne D	ump Truck (23m3)	Depot 2	Work		3	Dump Truck
		<u>I</u> itle: Align title: Lef	:		~		
		Align data: Cer	ter				
ESHEEI		Width: 21	Best Fit	Header Text Wrapp	ing		

Project has a large number of customisable fields that you can set up how you want. I won't go into this too deeply here, but the way set one up is to navigate to the Project Tab and click on Custom Fields choose

					_	Res	ource Pool.r	npp - Proj	ject Professional				
	Tasl	k Team Planner To	ols Re	esource	Report	Project	View	Add-Ins	WBS Schedul	le Pro	Developer	Help	Acuite
P Ibprojec Insert	ct E	Get Add-ins My Add-ins ~ Add-ins	Project Informati	Custom on Fields	L nks Bet Projec Proper	ween WB cts ~	S Chang Working) Je Ci Time F	alculate Set Project Baseline Schedule	Move ~ Project	Status Da Upda t	te: 🛄 NA te Project atus	ABC Spellin Proofin
	utu	¥ ♣ ~ -\r १⁄	20 G	، ک	¢	⇒ 🏅	[No Filter]	*	[No Group]	• •	▼ <= =>	+	н A. I
< 🗸													
	U	Resource Name		•	Location	1	 Туре 		erial 🔻 Initial	s ▼ Gr	oup 🔻	Max. 👻	Std. Ra
1		5 Tonne Excava	ator		D	epot 1	Work		5	E	Excavators	100%	Ş
2		13 Tonne Excav	ator		D	epot 1	Work		1	E	Excavators	100%	\$10
3		13 Tonne Excav	ator		D	epot 2	Work		1	E	Excavators	100%	\$10
4		20 Tonne Excav	ator	Custom Fie	elds					\times	cavators	100%	\$12
5		20 Tonne Excav	ator	Eield							cavators	100%	\$12
6		20 Tonne Excav	ator	- O Task	() Re	source	Project	Type	Text	~	cavators	100%	\$12
7		28 Tonne Dump	p Truck (0		0.110,000	ijpe.			mp Trucks	100%	\$10
				Text26 Text27 Text28 Text29 Location	(Text30)								
			_	Rename	e	Delete	Add Field	to Enterpr	ise Import	Field			
			_	@ None			0		R	ename Fie	ad.		×
			_	Winte		оокир		mula					
			_	Calculation	for task a	nd group s	ummary rows		Ne	w name f	or 'Location':		
			_	None	ORolluj	p:		✓ ○ Us	e formula	ocation			
	-		-	Calculation	for assign	nment rows					OK	Car	icel
	-		-	None	O Roll d	own unless	manually en	tered			-		
			-										
				 Data 	Gr	aphical Ind	icators				-		
			_	Help					OK Ca	ncel	-		
	-		_										

the Field Type you want, pick a field you want to use and rename it. In this example I've chosen Text 30.

> Its worth noting at this point that the custom fields available in the Resource Sheet view are different to the custom fields in the Gantt view.

Text 1 in the resource sheet is not the same field as Text 1 in the Gantt view, the available options are specific to the view in use.

Pooled Resources



The next thing I'm going to do is add some charge out rates and Transport costs.

0	Resource Name	Location	• Туре •	Material 👻	Initials 🔻	Group 🔻	Max. 👻	Std. Rate 🔹	Ovt. 👻	Transport 🔹	Accrue 👻	Base	-
	5 Tonne Excavator	Depot 1	Work		5	Excavators	100%	\$80.00/hr	\$0.00/hr	\$0.00	Prorated	Standard	
	13 Tonne Excavator	Depot 1	Work		1	Excavators	100%	\$100.00/hr	\$0.00/hr	\$0.00	Prorated	Standard	
	13 Tonne Excavator	Depot 2	Work		1	Excavators	100%	\$100.00/hr	\$0.00/hr	\$0.00	Prorated	Standard	
	20 Tonne Excavator	Depot 1	Work		2	Excavators	100%	\$120.00/hr	\$0.00/hr	\$0.00	Prorated	Standard	
	20 Tonne Excavator	Depot 1	Work		2	Excavators	100%	\$120.00/hr	\$0.00/hr	\$0.00	Prorated	Standard	
	20 Tonne Excavator	Depot 2	Work		2	Excavators	100%	\$120.00/hr	\$0.00/hr	\$0.00	Prorated	Standard	
	Excavator Delivery Cost		Work		E	Excavators	100%	\$0.00/hr	\$0.00/hr	\$400.00	Start	Standard	
	28 Tonne Dump Truck (17.5m3)	Depot 2	Work		2	Dump Trucks	100%	\$100.00/hr	\$0.00/hr	\$0.00	Prorated	Standard	
	38 Tonne Dump Truck (23m3)	Depot 2	Work		3	Dump Trucks	100%	\$130.00/hr	\$0.00/hr	\$0.00	Prorated	Standard	
)	Dump Truck Delivery Cost		Work		D	Dump Trucks	100%	\$0.00/hr	\$0.00/hr	\$300.00	Start	Standard	

The Transport Cost column is actually a renaming of the default Cost Per Use column. The way to rename the column is through the Field Setting dialogue as follows:

Right click on the column Heading and choose Field Settings from the drop-down list.

	Calibri + 11	* P-01-4
	B I = = = 4	• <u>A</u> •
Ot. Transport 0.00/hr \$0.00/hr \$0.00/hr \$0.00/hr \$0.00/hr \$0.00/hr \$0.00/hr \$0.00/hr	Access Deve Access Cut Baccopy Deste Paste Special Paste Special Wrap Text March Column Wide Column Wide Column Hide Column Hide Column Hide Column Externation Externation Externation Image: Column Fields Cutom Fields Image: Column Fields Data Type	▼ Coo ard ard ard ard ard ard ard ard ard ard

Then in the Field Settings dialogue, type the new column name in the Title box and click Ok

	Kesource Name	Location	 Type 	 Initials 	Group	Ividx. •	otd. Rate 🔹	UVL. +	I ransport *	Accine +	Dase
	5 Tonne Excavator	Depot 1	Work	5	Excavators	100%	\$80.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
	13 Tonne Excavator	Depot 1	Work	1	Excavators	100%	\$100.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
	13 Tonne Excavator	Depot 2	Work	1	Excavators	100%	\$100.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
	20 Tonne Excavator	Depot 1	Work	2	Excavators	100%	\$120.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
	20 Tonne Excavator	Depot 1	Work	2	Excavators	100%	\$120.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
	20 Tonne Excavator	Depot 2	Work	2	Excavators	100%	\$120.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
	Excavator Delivery Cost		Work	E	Excavators	100%	\$0.00/hr	\$0.00/hr	\$400.00	Start	Standard
	28 Tonne Dump Truck (17.5m3)	Depot 2	Work	2	Dump Trucks	100%	\$100.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
	38 Tonne Dump Truck (23m3)	Depot 2	Work	3	Dump Trucks	100%	\$130.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
)	Dump Truck Delivery Cost		Work	D	Dump Trucks	100%	\$0.00/hr	\$0.00/hr	\$300.00	Start	Standard
							Field Settings				×
							Field name:	Cost Per Use			~
								Transport			
							Align title:	Left			~
							Align data:	Right			~
							Width:	16	<u> H</u> ead	er Text Wra	oping
								<u>B</u> est Fit	ОК	Can	el

Costs can be calculated in one of 3 ways - at the start, at the end, or prorated as the work progresses.

In this example the charge rate for each machine is listed as a standard rate with the charge accrued prorated, whereas the delivery cost is made as a cost per use charged at the start.

You could also if you wanted to, add say a disestablishment charge at the end of use, or say fuel costs charged progressively.

The choice is yours.

Before we move on to looking at how we share the resource pool with multiple projects, I just want to make you aware of another way of viewing the resource table, and that's to use the **Grouping Filter**.



Choose the column you want to Group by (in this case the equipment group column), and choose Group on this field from the drop-down list

	5 Tonne Excavator	Depot 1	Work	Sort A to Z	100%	\$80.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
	13 Tonne Excavator	Depot 1	Work	Z. Sort Z to A	100%	\$100.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
	13 Tonne Excavator	Depot 2	Work	Group on this field	100%	\$100.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
	20 Tonne Excavator	Depot 1	Work	Group on this field	100%	\$120.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
	20 Tonne Excavator	Depot 1	Work	No Group	100%	\$120.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
	20 Tonne Excavator	Depot 2	Work	Clear Filter from Group	100%	\$120.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
	Excavator Delivery Cost		Work	Filters >	100%	\$0.00/hr	\$0.00/hr	\$400.00	Start	Standard
	28 Tonne Dump Truck (17.5m3)	Depot 2	Work	(Select All)	100%	\$100.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
	38 Tonne Dump Truck (23m3)	Depot 2	Work	Dump Trucks	100%	\$130.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
)	Dump Truck Delivery Cost		Work	Excavators	100%	\$0.00/hr	\$0.00/hr	\$300.00	Start	Standard
				<u>O</u> K <u>C</u> ancel						

The view then changes to this rather more organised looking view

	4 Group: Dump Trucks				Dump Trucks	300%			\$300.00		
3	28 Tonne Dump Truck (17.5m3)	Depot 2	Work	2	Dump Trucks	100%	\$100.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
9	38 Tonne Dump Truck (23m3)	Depot 2	Work	3	Dump Trucks	100%	\$130.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
0	Dump Truck Delivery Cost		Work	D	Dump Trucks	100%	\$0.00/hr	\$0.00/hr	\$300.00	Start	Standard
	4 Group: Excavators				Excavators	700%			\$400.00		
1	5 Tonne Excavator	Depot 1	Work	5	Excavators	100%	\$80.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
2	13 Tonne Excavator	Depot 1	Work	1	Excavators	100%	\$100.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
3	13 Tonne Excavator	Depot 2	Work	1	Excavators	100%	\$100.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
4	20 Tonne Excavator	Depot 1	Work	2	Excavators	100%	\$120.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
5	20 Tonne Excavator	Depot 1	Work	2	Excavators	100%	\$120.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
6	20 Tonne Excavator	Depot 2	Work	2	Excavators	100%	\$120.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
7	Excavator Delivery Cost		Work	E	Excavators	100%	\$0.00/hr	\$0.00/hr	\$400.00	Start	Standard

Now we have the Pool set up, let's look at how we can make use of it.



Open a project that you want to share the resource pool with. It can be a new or existing project, either with or without resources already allocated, and open the **Resource Sheet** view.

Next navigate to the **Resource Tab** on the menu ribbon and click the **Resource Pool** button

Note that any resources in the existing Project will automatically be shared with the Resource Pool too.

With the Resource Pool programme open, choose it in the drop-down to create the dynamic link. Click Ok and the Resource Pool is now linked to your Project.



Before you link the Programmes consider the following:

The nature of the Resource Pool is that it acts as a server for all of the linked Projects, updating resource changes to all Projects dynamically in real time. However, changes to resource usage are driven by events in the individual projects as work unfolds.

Consequently, the sharing is a two-way street, so that as resource use and availability changes, they ripple through and update all of the other projects in the network. As a result, the Resource Pool will pull the resources from all of the linked projects together and update the Pool to reflect all resources (labour, materials, and plant), across the whole network.

The downside of this is that it could lead to major confusion over what resources are serving what project. Especially where we have separate but matching resources across the group of connected projects.

For example, I have 2 Projects that I want to link to the resource Pool – Project ABC & Project XYZ. They will both utilise shared equipment in the Pool, however they will each also have their own unshared resources. Once they are linked to the Pool, all resources are visible to all Projects, so they need to be easily recognisable.

The easiest way I've found to manage this, and avoid any confusion, is to add a job code in front of the resources to identify the Project they relate to. So, before I link the Projects together, they all get identifier prefix codes.

Pool for the shared Pool items and ABC for the first programme and XYZ for the second (the code can be anything as long as it clearly identifies where each resource belongs).

	Resource Name	Location	🔻 Туре 🔻	Group	Max. 👻	Std. Rate 🛛 🔻	Ovt. 👻	Transport 🔻 Ac	crue 🔻	Base
	4 Group: Dump Trucks			Dump Trucks	400%			\$300.00		
3	Pool - Pool - 28 Tonne Dump Truck (17.5m3)	Depot 2	Work	Dump Trucks	100%	\$100.00/hr	\$0.00/hr	\$0.00 Pro	orated	Standard
9	Pool - 38 Tonne Dump Truck (23m3)	Depot 2	Work	Dump Trucks	100%	\$130.00/hr	\$0.00/hr	\$0.00 Pro	orated	Standard
0	Pool - Dump Truck Delivery Cost		Work	Dump Trucks	100%	\$0.00/hr	\$0.00/hr	\$300.00 Sta	art	Standard
5	Pool - Tipper 6W		Work	Dump Trucks	100%	\$80.00/hr	\$0.00/hr	\$0.00 Pro	orated	Standard
	4 Group: Excavators			Excavators	700%			\$400.00		
1	Pool - 5 Tonne Excavator	Depot 1	Work	Excavators	100%	\$80.00/hr	\$0.00/hr	\$0.00 Pro	orated	Standard
2	Pool - 13 Tonne Excavator 1	Depot 1	Work	Excavators	100%	\$100.00/hr	\$0.00/hr	\$0.00 Pro	orated	Standard
3	Pool - 13 Tonne Excavator 2	Depot 2	Work	Excavators	100%	\$100.00/hr	\$0.00/hr	\$0.00 Pro	orated	Standard
1	Pool - 20 Tonne Excavator	Depot 1	Work	Excavators	100%	\$120.00/hr	\$0.00/hr	\$0.00 Pro	orated	Standard
5	Pool - 20 Tonne Excavator	Depot 1	Work	Excavators	100%	\$120.00/hr	\$0.00/hr	\$0.00 Pro	orated	Standard
5	Pool - 20 Tonne Excavator	Depot 2	Work	Excavators	100%	\$120.00/hr	\$0.00/hr	\$0.00 Pro	orated	Standard
7	Pool - Excavator Delivery Cost		Work	Excavators	100%	\$0.00/hr	\$0.00/hr	\$400.00 Sta	art	Standard

	0	Resource Name	Туре 🔻	Location 🔻	Group	Max. 👻	Std. Rate 🔻	Ovt. 👻	Cost/Use ▼	Accrue 👻	Base 👻
		⁴ Group: Equipment On Hire			Equipment On Hire	100%			\$0.00	Prorated	
14		ABC - Plate Compactor	Work		Equipment On Hire	100%	\$15.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
		4 Group: Labour			Labour	1,800%			\$0.00		
11		ABC - General Labourers	Work		Labour	1,000%	\$35.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
13		ABC - Carpenters	Work		Labour	800%	\$45.00/hr	\$0.00/hr	\$0.00	Prorated	Standard

0	Resource Name	Location 💌	Туре	Group	Max. 👻	Std. Rate 🔻	Ovt. 👻	Cost/Use ▼	Accrue 👻	Base
	Group: Equipment On Hire			Equipment On Hire	1,100%			\$0.00		
16	XYZ - Crane 30T		Work	Equipment On Hire	100%	\$150.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
17	XYZ - Tipper 6W - 1		Work	Equipment On Hire	100%	\$80.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
18	XYZ - Tipper 6W - 2		Work	Equipment On Hire	100%	\$80.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
19	XYZ - Tipper 6W - 3		Work	Equipment On Hire	100%	\$80.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
20	XYZ - Tipper 6W - 4		Work	Equipment On Hire	100%	\$80.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
21	XYZ - Tipper 6W - 5		Work	Equipment On Hire	100%	\$80.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
22	XYZ - Tipper 6W - 6		Work	Equipment On Hire	100%	\$80.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
23	XYZ - Excavator 20T		Work	Equipment On Hire	100%	\$120.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
24	XYZ - Tipper 6W - 7		Work	Equipment On Hire	100%	\$80.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
25	XYZ - Tipper 6W - 8		Work	Equipment On Hire	100%	\$80.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
26	XYZ - Excavator 20T-LR		Work	Equipment On Hire	100%	\$135.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
				Labour	600%			\$0.00		
12	XYZ - General Labourers		Work	Labour	400%	\$35.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
27	XYZ - Steel Erectors (6) 1		Work	Labour	100%	\$0.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
28	XYZ - Civils Team 1		Work	Labour	100%	\$0.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
				Safety	100%			\$0.00	Prorated	
29	XYZ - STMS		Work	Safety	100%	\$0.00/hr	\$0.00/hr	\$0.00	Prorated	Standard



Now, when the programmes are linked, we see the following on the Resource Sheet:

Group: 9 Pool 9 Pool 10 Pool 15 Pool 15 Pool 16 XYZ: 17 XYZ: 19 XYZ: 19 XYZ: 20 XYZ: 21 XYZ: 22 XYZ: 23 XYZ: 24 XYZ: 25 XYZ: 2 Pool 3 Pool 4 Pool 5 Pool 6 Pool 7 Pool	4 Groups Dupon Trucks			Dump Trucks	400%			\$200.00	
0 Pool 10 Pool 115 Pool 15 Pool 16 XYZ 17 XYZ 18 XYZ 18 XYZ 19 XYZ 20 XYZ 21 XYZ 22 XYZ 23 XYZ 24 XYZ 25 XYZ 26 XYZ 27 Pool 28 YZ 29 YZ 20 YZ 21 YYZ 22 YYZ 23 YYZ 24 YYZ 25 YYZ 26 YZ 27 Pool 2 Pool 3 Pool 4 Pool 7 Pool 7 Pool 7 Pool 7 Pool	Pool Dool 28 Toppo Dump Truck (17 5m2)	Depet 2	Work	Dump Trucks	400%	¢100.00/br	\$0.00/br	\$300.00	Standa
J J 0 Pool 15 Pool 15 Pool 16 Arcup: 17 Arcup: 18 Aryz: 19 Aryz: 20 Aryz: 21 Aryz: 22 Aryz: 23 Aryz: 24 Aryz: 25 Aryz: 26 Yz: 27 Pool 2 Pool 2 Pool 3 Pool 4 Pool 5 Pool 6 Pool 7 Po	Pool - 28 Tenne Dump Truck (22m2)	Depot 2	Work	Dump Trucks	100%	\$100.00/hr	\$0.00/hr	\$0.00 Prorated	Standa
Image: Constraint of the	Pool - 38 Tonne Dump Truck (25m3)	Depot 2	Work	Dump Trucks	100%	\$130.00/hr	\$0.00/hr	\$0.00 Prorated	Standa
Image: Construction of the second s	Pool - Dump Huck Derivery Cost		WORK	Dump Trucks	100%	\$0.00/hr	\$0.00/hr	\$300.00 Start	Standa
Group: 4 ABC 16 XYZ 17 XYZ 18 XYZ 20 XYZ 21 XYZ 22 XYZ 23 XYZ 24 XYZ 25 XYZ 26 XYZ 27 YYZ 28 XYZ 29 YYZ 20 YYZ 21 YYZ 22 XYZ 23 CROUP 1 Pool 2 Pool 4 Pool 5 Pool 6 Pool 7 Pool 7 Pool 11 ABC 12 XYZ 13 ABC	Pool - Tipper ow		WORK	Dump Trucks	100%	\$80.00/hr	Ş0.00/nr	\$0.00 Prorated	Standa
ABC 17 ABC 16 XYZ 17 XYZ 18 XYZ 19 XYZ 20 XYZ 21 XYZ 22 XYZ 23 XYZ 24 XYZ 25 XYZ 26 XYZ 27 Group: 1 Pool 3 Pool 5 Pool 6 Pool 7 Pool 11 ABC 12 XYZ 13 ABC	Group: Equipment On Hire		144	Equipment On Hire	1,200%	ALC 00/1	do oo //	\$0.00	0 1 1
XYZ 18 XYZ 19 XYZ 20 XYZ 21 XYZ 22 XYZ 23 XYZ 24 XYZ 25 XYZ 26 XYZ 27 Pool 3 Pool 4 Pool 5 Pool 6 Pool 7 Pool 11 ABC 12 XYZ 13 ABC	ABC - Plate Compactor		work	Equipment On Hire	100%	\$15.00/hr	\$0.00/hr	\$0.00 Prorated	Standa
1 XY2: 19 XY2: 19 XY2: 20 XY2: 21 XY2: 22 XY2: 23 XY2: 24 XY2: 25 XY2: 26 XY2: 27 Pool 2 Pool 3 Pool 4 Pool 5 Pool 6 Pool 7 Pool 7 Pool 11 ABC 12 XY2: 13 ABC	XYZ - Crane 30T		Work	Equipment On Hire	100%	\$150.00/hr	\$0.00/hr	\$0.00 Prorated	Standa
8 XYZ 19 XYZ 19 XYZ 20 XYZ 21 XYZ 22 XYZ 23 XYZ 24 XYZ 25 XYZ 26 XYZ 27 Group: 1 Pool 2 Pool 3 Pool 5 Pool 6 Pool 7 Pool 11 ABCC 12 XYZ 13 ABC	XYZ - Tipper 6W - 1		Work	Equipment On Hire	100%	\$80.00/hr	\$0.00/hr	\$0.00 Prorated	Standa
YY2. 20 YY2. 21 YY2. 22 YY2. 23 YY2. 24 YY2. 25 YY2. 26 YY2. 27 YY2. 28 YY2. 29 Pool 3 Pool 5 Pool 6 Pool 7 Pool 11 ABC 12 YY2. 13 ABC	XYZ - Tipper 6W - 2		Work	Equipment On Hire	100%	\$80.00/hr	\$0.00/hr	\$0.00 Prorated	Standa
20 XYZ: 21 XYZ: 22 XYZ: 23 XYZ: 24 XYZ: 25 XYZ: 26 XYZ: 27 Pool 3 Pool 3 Pool 4 Pool 5 Pool 6 Pool 7 Pool 7 Pool 11 ABC 12 XYZ: 13 ABC	XYZ - Tipper 6W - 3		Work	Equipment On Hire	100%	\$80.00/hr	\$0.00/hr	\$0.00 Prorated	Standa
21 XYZ: 22 XYZ: 23 XYZ: 24 XYZ: 25 XYZ: 26 XYZ: 27 Group: 1 Pool 2 Pool 3 Pool 4 Pool 5 Pool 6 Pool 7 Pool 7 Pool 7 ABC 11 ABC 12 XYZ: 13 ABC	XYZ - Tipper 6W - 4		Work	Equipment On Hire	100%	\$80.00/hr	\$0.00/hr	\$0.00 Prorated	Standa
22 XYZ: 23 XYZ: 24 XYZ: 25 XYZ: 26 XYZ: 27 Group: 1 Pool 2 Pool 3 Pool 5 Pool 6 Pool 7 Pool 11 ABC 12 XYZ: 13 ABC	XYZ - Tipper 6W - 5		Work	Equipment On Hire	100%	\$80.00/hr	\$0.00/hr	\$0.00 Prorated	Standa
23 XYZ: 24 XYZ: 25 XYZ: 26 XYZ: 27 Group: 1 Pool 3 Pool 4 Pool 5 Pool 6 Pool 7 Pool 11 ABC 12 XYZ: 13 ABC	XYZ - Tipper 6W - 6		Work	Equipment On Hire	100%	\$80.00/hr	\$0.00/hr	\$0.00 Prorated	Standa
24 XYZ: 25 XYZ: 26 XYZ: 2 Group: 1 Pool 2 Pool 3 Pool 4 Pool 5 Pool 6 Pool 7 Pool 11 ABC 12 XYZ: 13 ABC	XYZ - Excavator 20T		Work	Equipment On Hire	100%	\$120.00/hr	\$0.00/hr	\$0.00 Prorated	Standa
25 XYZ- 26 XYZ- 1 4 Group: 1 Pool 2 Pool 3 Pool 4 Pool 5 Pool 7 Pool 10 Acoustic 11 Acoustic 12 XYZ- 13 Acoustic	XYZ - Tipper 6W - 7		Work	Equipment On Hire	100%	\$80.00/hr	\$0.00/hr	\$0.00 Prorated	Standa
Composition Composition Image: Composition Image: Composition Image: Composition Image: Composition Image: Composition Image: Composition Image: Composition Image: Composition	XYZ - Tipper 6W - 8		Work	Equipment On Hire	100%	\$80.00/hr	\$0.00/hr	\$0.00 Prorated	Standa
4 Group: 1 Pool 2 Pool 3 Pool 4 Pool 5 Pool 6 Pool 7 Pool 11 ABC 12 XYZ- 13 ABC	XYZ - Excavator 20T-LR		Work	Equipment On Hire	100%	\$135.00/hr	\$0.00/hr	\$0.00 Prorated	Standa
1 Pool 2 Pool 3 Pool 4 Pool 5 Pool 6 Pool 7 Pool 4 Group 10 ABC 11 ABC 13 ABC	Group: Excavators			Excavators	700%			\$400.00	
2 Pool 3 Pool 4 Pool 5 Pool 6 Pool 7 Pool 7 Pool 7 Group: 11 ABC 12 XYZ: 13 ABC	Pool - 5 Tonne Excavator	Depot 1	Work	Excavators	100%	\$80.00/hr	\$0.00/hr	\$0.00 Prorated	Standa
3 Pool 4 Pool 5 Pool 6 Pool 7 Pool 11 ABC 12 XYZ 13 ABC	Pool - 13 Tonne Excavator 1	Depot 1	Work	Excavators	100%	\$100.00/hr	\$0.00/hr	\$0.00 Prorated	Standa
4 Pool 5 Pool 6 Pool 7 Pool 11 ABC 12 XYZ 13 ABC	Pool - 13 Tonne Excavator 2	Depot 2	Work	Excavators	100%	\$100.00/hr	\$0.00/hr	\$0.00 Prorated	Standa
5 Pool 6 Pool 7 Pool 11 ABC 12 XYZ 13 ABC	Pool - 20 Tonne Excavator	Depot 1	Work	Excavators	100%	\$120.00/hr	\$0.00/hr	\$0.00 Prorated	Standa
6 Pool 7 Pool 11 ABC 12 XYZ 13 ABC	Pool - 20 Tonne Excavator	Depot 1	Work	Excavators	100%	\$120.00/hr	\$0.00/hr	\$0.00 Prorated	Standa
7 Pool Group: 11 ABC 12 XYZ 13 ABC	Pool - 20 Tonne Excavator	Depot 2	Work	Excavators	100%	\$120.00/hr	\$0.00/hr	\$0.00 Prorated	Standa
Image: A group: 11 ABC 12 XYZ 13 ABC	Pool - Excavator Delivery Cost		Work	Excavators	100%	\$0.00/hr	\$0.00/hr	\$400.00 Start	Standa
11 ABC 12 XYZ 13 ABC	4 Group: Labour			Labour	2,400%			\$0.00	
12 XYZ 13 ABC	ABC - General Labourers		Work	Labour	1,000%	\$35.00/hr	\$0.00/hr	\$0.00 Prorated	Standa
13 ABC	XYZ - General Labourers		Work	Labour	400%	\$35.00/hr	\$0.00/hr	\$0.00 Prorated	Standa
	ABC - Carpenters		Work	Labour	800%	\$45.00/hr	\$0.00/hr	\$0.00 Prorated	Standa
27 XYZ-	XYZ - Steel Erectors (6) 1		Work	Labour	100%	\$0.00/hr	\$0.00/hr	\$0.00 Prorated	Standa
28 XYZ	XYZ - Civils Team 1		Work	Labour	100%	\$0.00/hr	\$0.00/hr	\$0.00 Prorated	Standa
4 Group:	4 Group: Safety			Safety	100%		,	\$0.00 Prorated	
29 XY7	XYZ - STMS		Work	Safety	100%	\$0.00/br	\$0.00/hr	\$0.00 Prorated	Standa

And when we are working on a Project it's easy to see which resources are in the shared Pool and which are Project specific.

	0	Task Name		-	Duration +	Start 👻	Finish -	Predec +	Succe +	Resource Names	4 5 6 7 8 9 10 1	1 12 13 14 15 16 17 18 19 2
1					19 days?	Tue 8 Feb '22	Fri 4 Mar '22				Excav	ate Well Pit
2		Setup Self Erector Crane			1 day	Tue 8 Feb '22	Tue 8 Feb '22		3	XYZ - Crane 30T	2 XYZ	- Crane 30T
3	-	Excavation of Well Pit 0 - 5m deep			4 days	Wed 9 Feb '22	Mon 14 Feb '22	2	4	XYZ - Tipper 6W - 1,XYZ - Tipper 6W - 2,XYZ - Tipper 6W - 3,XYZ - Tipp	3	XYZ - Tip
- 4		Excavation of Well Pit 5 - 9m deep			3 days	Tue 15 Feb '22	Thu 17 Feb '22	3	5	XYZ - Tipper 6W - 1,XYZ - Tipper 6W - 2,XYZ - Tipper 6W - 3,XYZ - Tipp		4 XY
5		Temp propping to pit walls at mid point	ofdig		2 days	Fri 18 Feb '22	Mon 21 Feb '22	4	6	XYZ - Steel Erectors (6) 1		5
6	-	Excavation of Well Pit 9 -13m deep			6 days	Tue 22 Feb '22	Tue 1 Mar '22	5	7	XYZ - Tipper 6W - 1,XYZ - Tipper 6W - 2,XYZ - Tipper 6W - 3,XYZ - Tipp		
7		Pit Excavation Complete			0 days	Tue 1 Mar '22	Tue 1 Mar '22	6	10,8			Pit Exca
8		Partial Reinstate Sub-base in Sidmouth	Road		1 day?	Wed 2 Mar '22	Wed 2 Mar '22	7	9	XYZ - General Labourers		
9		Reinstate Basecourse and apply Chipse	al pending fir	nal repair	1 day	Thu 3 Mar '22	Thu 3 Mar '22	8	10	XYZ - Civils Team 1, Pool - 5 Tonne Excavator		
10		Amend Traffic management for partial r	eopening of S	idmouth	1 day?	Fri 4 Mar '22	Fri 4 Mar '22	7,9		XYZ - STMS		
		Road to One way Traffic										
										Assign Resources		×
										Task: Excavation of Well Pit 5 - 9m deen		
										Resource list options		
										Eilter by:		
										All Resources	~	More Filters
										Available to work Ob		
4												
										Add Resources 👻		
Nam	ie: E	excavation of Well Pit 5 - 9m deep	on: 3 days	÷ 🗹 🛙	ffort driven	Manually Schee	duled Previou	s N	le⊻t	Resources from XYZ Project.mpp		
Star	ь П	Tue 15 Feb '22 V Finish: 1	Thu 17 Feb	22	→ Task 1	Trixed Wor	k √ % Cor	mplete: 0	%	Resource Name R/D Units Cost	^	Assign
	- L					31-1-				Pool - 13 Tonne Excav 100% \$2,400.00		
) F	Resource Name	Units	Work	Ovt. W	ork Baseline Wor	k Act. Work	Rem. Wor	k ^	✓ XYZ - Tipper 6W - 2 100% \$1,920.00		Remove
	/ X	YZ - Lipper 6W - 1	100%	24h	on	24h	on	24n		VYZ - Excavator 20T-LR 100% \$3,240.00		0
	8 X	Y2 - Tipper 6W - 2	100%	24h	Oh	24h	Oh	24h		✓ XYZ - Tipper 6W - 1 100% \$1,920.00		ке <u>р</u> іасе
	9 X	YZ - Tipper 6W - 3	100%	24h	Oh	24h	Oh	24h		✓ XYZ - Tipper 6W - 3 100% \$1,920.00		Graph
	0 X	YZ - Tipper 6W - 4	100%	24h	Oh	24h	Oh	24h		XYZ - Tipper 6W - 4 100% \$1,920.00		
1 1	1 X	YZ - Tipper 6W - 5	100%	24h	Oh	24h	0h	24h		XYZ - Tipper 6W - 5 100% \$1,920.00		Close
2		YZ - Tipper 6W - 6	100%	24h	Oh	24h	Oh	24h		XYZ - Tipper 6W - 6 100% \$1,920,00		
2	2 X		100%	24h	Oh	24h	0h	24h		XYZ - Tipper 6W - 7 100% \$1 920.00		Help
2	2 X 4 X	YZ - Tipper 6W - 7				1	ion-	246				
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 X 4 X 5 X	YZ - Tipper 6W - 7 YZ - Tipper 6W - 8	100%	24h	Oh	24h	un	240		VV7 - Tipper 6W/ - 8 100% \$1 920.00	*	
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 X 4 X 5 X 6 X	Y2 - Tipper 6W - 7 YZ - Tipper 6W - 8 YZ - Excavator 20T-LR	100% 100%	24h 24h	0h 0h	24h 24h	0h	2411 24h		Hold down Ctrl and click to select multiple resources	•	



Resolving Cross Project Over Allocations

When optimising resources in the Team Planner view, any cross project over allocations are easily spotted as the Gantt bars for external project tasks show in a lighter shade. In the screenshot below, there is an over allocation (indicated by the red brackets) of 13 Tonne Excavator 1. It's allocated to Backfill & Compact works on Project ABC shown by the dark blue bars, and at the same time it's allocated to Excavation of Well Pit on Project XYZ.

				ABC Project	mpp - Pro	ject Professional										
File Task Team Planner Tools	Resource	Report	Projec	t View	Add-Ins	WBS Schedul	le Pro Dev	veloper Help	Acuite	Acrobat	Good + Fast	Team Plann	ner Format	Ωī	ell me what	you want to e
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K 🗸																
						1			20 Eab '22		-					
Resource Name Pool - 5 Tonne Excavator	T Unsche	duled Tasks	22 M	T W	T F	13 Feb '22 S S M	T W	T F S	S M	T W	T F S	5 M 1	r w t	F	6 Mar S S	M T
Resource Name Pool - 5 Tonne Excavator	۳ Unsche	duled Tasks	22 M	T W	T F	13 Feb '22 5 S M	T W	T F S	S M	T W Excavation o	T F S	S M 1	r w T Rei Bas	F S	6 Mar S S	22 M T
Resource Name Pool - 5 Tonne Excavator Pool - 13 Tonne Excavator 1	۳ Unsche	duled Tasks	22 M	T W	T F Back arou	13 Feb '22 S S M fill and compact ind ducts	T W Excavation Well Pit 5 - Backfi	T F S	S M	T W Excavation of Excavation of Backfil and	T F S of Well Pit 9 -13r	m deep	r w T Rei Backfill and	F	6 Mar S S	Backfill and
Resource Name Pool - 5 Tonne Excavator Pool - 13 Tonne Excavator 1 Pool - 13 Tonne Excavator 2	Y Unsche	eduled Tasks	22 M	T W	T F Back arou	fill and compact	T W Excavation Well Pit 5 - Backfi and	T F S	5 M	T W Excavation of Excavation of Backfil and	T F S of Well Pit 9 -13r	m deep	F W T Rei Backfill and	F	6 Mar 5 5	Backfill and
Resource Name Pool - 5 Tonne Excavator Cool - 13 Tonne Excavator 1 Pool - 13 Tonne Excavator 2 Pool - 20 Tonne Excavator 1	Vinsche	eduled Tasks	22 M	T W	T F Back arou	13 Feb 122 S S M fill and compact ind ducts wate for side by Ducts (2) ind	T W Excavation Well Pit 5 - Backfi and	T F S	s M	T W Excavation of Excavation of Backfil and	T F S of Well Pit 9 -13r of Vell Pit 9 -13r Excavate for side Ducts	m deep m deep r side by In: (2) ind Pr	T W T Rei Backfill and st Excavate ec for side	F 5	6 Mar 5 5	Backfill and
Resource Name Pool - 5 Tonne Excavator Council	Y Unsche	eduled Tasks	22 M	T W Excavate for side	T F Back arou Inst Exca Prec side	fill and compact ind ducts wate for side by Ducts (2) incl	T W Excavation Well Pit 5 - Backfi and Inst Prec	of 9m ill Excavate 1 side Duct:	S M	T W Excavation of Excavation of Backfil and Inst Prec	T F S f Well Pit 9 -13r f Vell Pit 9 -13r Excavate fo side Ducts	m deep m deep m deep (2) ind	Backfill and st Excavate for side	F in S Inst Prec	6 Mar S S	Backfill and Inst fro

Since 13 Tonne Excavator 2 is fully available at that time, the Well Pit work can be allocated to that machine instead, either by drag and drop or by right clicking and choosing Reassign from the dialogue.



The end result, the over allocation is resolved:

Pool - 5 Tonne Excavator	M	T W	T F S S M	T W T	F S S M	T W T	F S S M	T W T F	: <u>s</u> s	MT
Pool - 13 Tonne Excavator 1			Backfill and compact	Backfill		Backfill	Well Pit 9 *13ill deep	Bas		Backfill
			around ducts	and		and		and		and
Pool - 13 Tonne Excavator 2				Excavation of Well Pit 5 - 9m		Excavation of \	Well Pit 9 -13m deep			
Pool - 20 Tonne Excavator 1		Excavate for side	Inst Excavate for side by Prec side Ducts (2) incl	Inst Prec	Excavate for side by side Ducts (2) incl	Inst Prec	Excavate for side by side Ducts (2) incl	Inst Excavate In: Prec for side Pr	st ec	Inst fro
Pool - 20 Tonne Excavator 2										



Pooled Resources

Having costs assigned to the resources makes it easy to track where the project is at financially, simply by changing the view. Views are set up as a series of Tables, the default view is for Task Entry, but often we need to know the cost to complete. This is shown by navigating to the View Tab in the menu ribbon, clicking on the Tables icon and choosing Cost from the dialogue.

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			Calendar ~	1	💽 Resou	urce Sheet 🗠	Z↓	- <u>-</u>	ilter: [No Filter]	- Days				Details	lask Form		🗖 🖬
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	2	0%	4 Pre Cast Duct - 11KV to	Step Up Transfo	ormers	Monthly Gar	itt Table	21.67 d	ays Tue	8 Feb '22	Wed 9 Mar '22		Pre Ca	st Duct - 11K	to Step Up T	ransformers		
	3	0%	Excavate for side by	y side Ducts (2)	incl spre	My Multiple	Baseline Table	2 day	s Tue	8 Feb '22	Wed 9 Feb '22		3 📕 \$3,	040.00				
	4	0%	Install Precast Duc	ts (2 x max 6m l	Ducts) 8	Sort by date	lable	1 day	Thu:	10 Feb '22	Thu 10 Feb '22	3	4 📕 S	1,520.00				
	5	0%	Backfill and compa	ct around ducts		Summany Dr	erview rable	2 day	Eri 1	1 Feb '22	Mon 14 Feb '22	4	5	\$4.000	00			
	6	0%	Excavate for side by	y side Ducts (2)	incl spre	Tracking with	a Latest Finish Tz	ble 2 day	Fri 1	1 Feb '22	Mon 14 Feb '22	4	6	\$3,040	.00			
	7	0%	Install Precast Duc	ts (2 x max 6m l	Ducts) 8	Work Remain	ning Table	1 day	Tue	15 Feb '22	Tue 15 Feb '22	6	-	7 515	20.00			
	1					Built-In	-					-						
	8	0%	Backfill and compa	ct around ducts		Cost		2 day	Wed	16 Feb '22	Thu 17 Feb '22	7	-	8	\$3,680.00			
	9	0%	Excavate for side by	y side Docts (2)	mer spri	Entry		2 039		SFED 22	MON 21 PED 22	°		, , , , , , , , , , , , , , , , , , ,	\$5,040	.00		
	10	0%	Variation - Addition	nal excavation	2	<u>H</u> yperlink		0.67 da	ys Tue:	22 Feb '22	Tue 22 Feb '22	9	_		10 \$1,01	3.33		
	Υ.	076	Install Precast Duc	ts (2 x max 6m)	Ducts)a	Schedule		108)	iue.	22 Peb 22	Wed 23 Feb 22	10			11 📕 51,	520.00		
	12	0%	Backfill and compa	ct around ducts		Tracking		2 day	s Wed	23 Feb '22	Fri 25 Feb '22	11	_		12	\$4,000.00		
	13	0%	Excavate for side by	y side Ducts (2)	inci spri	<u>V</u> ariance		2 day	s Fri 2	5 Feb '22	Tue 1 Mar 22	12			13	\$3,0	40.00	
	14	0%	Install Precast Duc	ts (2 x max 6m l	Ducts) 8	Work		1 day	Tue	1 Mar '22	Wed 2 Mar '22	13				14 📕 \$1	,520.00	
	15	0%	Backfill and compa	ict around ducts		S <u>u</u> mmary		2 day	s Wed	2 Mar '22	Fri 4 Mar '22	14	-			15	\$4,000.00	
	16	0%	Excavate for side by	y side Ducts (2)	incl spri	Usage		2 day	Wed	2 Mar '22	Fri 4 Mar '22	14				16 📕	\$3,040.00	
	17	0%	Install Precast Duc	ts (2 x max 6m l	Ducts) 8	Reset to Defa	ult	1 day	Fri 4	4 Mar '22	Mon 7 Mar '22	16				17	\$1,5	20.00
	18	0%	Backfill and compa	ct around ducts		Save Fields a	s a New Table	2 day	Mon	7 Mar '22	Wed 9 Mar '22	17					18	\$3.680.00
	19	0%	Install from Final D	elivery - Missing	gLids	·평 <u>M</u> ore Tables.		1 day	Mon	7 Mar '22	Tue 8 Mar '22	17					19 51	,520.00
	20	0%	Ducts 11KV to Step	Up Transforme	rs Comple	ete (DL 30 June)		0 day	s Wed	9 Mar '22	Wed 9 Mar '22	5,15,18,19	ucts 11KV to	o Step Up Tra	nsformers Co	mplete (DL 3	0 June) 🔶	9/03
													-					
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,	Vame	Variation	- Additional excavation	Duration	n: 0.67	days 📮 🗹 Eff	ort driven	Manually Sched	led Pr	evious	Next							
2	Start:	Tue 22 F	eb '22 🗸	Finish: Tu	ue 22 Feb	0 '22	Task type	Fixed Units	~ .	% Complete:	0%							
ĥ	ID	Resource	Name		Units	Work	Ovt. Work	Baseline Work	Act. Wo	rk Rem.	Work ^							
	4	Pool - 20	Tonne Excavator 1		100%	5.33h	Oh	Oh	Oh	5.33h	h							
	11	ABC - Ger	neral Labourers		200%	10.67h	0h	0h	0h	10.67h								
1		1				1		1										_

	Task Name 👻	Fixed Cost 👻	Cost Accrual 👻	Total Cost 👻	Baseline 👻	Variance 👻	Actual 👻	Remaining 👻	ry March 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 1 2 3 4 5 6 7 8 9 10 11 12 13 1
1	4. Pro Cast Duct - 11KV to Step Up Transformerr	\$0.00	Prorated	\$44 692 22	\$42 690 00	\$1 012 22	\$0.00	\$44 692 22	Pro Cart Duct - 110/ to Stan Up Transformer
3	Excavate for side by side Ducts (2) incl spread 100 Bedding - Section 9	\$0.00	Prorated	\$3,040.00	\$3,040.00	\$0.00	\$0.00	\$3,040.00	3 5 3,040.00
4	Install Precast Ducts (2 x max 6m Ducts) & Seal Joints - Section 9	\$0.00	Prorated	\$1,520.00	\$1,520.00	\$0.00	\$0.00	\$1,520.00	4 📕 \$1,520.00
5	Backfill and compact around ducts	\$0.00	Prorated	\$4,000.00	\$4,000.00	\$0.00	\$0.00	\$4,000.00	5 \$4,000.00
6	 Excavate for side by side Ducts (2) incl spread 100 Bedding Section 10 	\$0.00	Prorated	\$3,040.00	\$3,040.00	\$0.00	\$0.00	\$3,040.00	6 \$3,040.00
7	7 Install Precast Ducts (2 x max 6m Ducts) & Seal Joints - Section 10	\$0.00	Prorated	\$1,520.00	\$1,520.00	\$0.00	\$0.00	\$1,520.00	7 📕 \$1,520.00
8	Backfill and compact around ducts	\$0.00	Prorated	\$3,680.00	\$3,680.00	\$0.00	\$0.00	\$3,680.00	8 53,680.00
9	Excavate for side by side Ducts (2) incl spread 100 Bedding - Section 11	\$0.00	Prorated	\$3,040.00	\$3,040.00	\$0.00	\$0.00	\$3,040.00	9 \$3,040.00
10	0 Variation - Additional excavation	\$0.00	Prorated	\$1,013.33	\$0.00	\$1,013.33	\$0.00	\$1,013.33	10 \$1,013.33
11	1 Install Precast Ducts (2 x max 6m Ducts) & Seal Joints - Section 11	\$0.00	Prorated	\$1,520.00	\$1,520.00	\$0.00	\$0.00	\$1,520.00	11 S1,520.00
12	2 Backfill and compact around ducts	\$0.00	Prorated	\$4,000.00	\$4,000.00	\$0.00	\$0.00	\$4,000.00	12 \$4,000.00
13	3 Excavate for side by side Ducts (2) incl spread 100 Bedding -Section 12	\$0.00	Prorated	\$3,040.00	\$3,040.00	\$0.00	\$0.00	\$3,040.00	13 53,040.00
14	4 Install Precast Ducts (2 x max 6m Ducts) & Seal Joints - Section 12	\$0.00	Prorated	\$1,520.00	\$1,520.00	\$0.00	\$0.00	\$1,520.00	14 \$1,520.00
15	5 Backfill and compact around ducts	\$0.00	Prorated	\$4,000.00	\$4,000.00	\$0.00	\$0.00	\$4,000.00	15 \$4,000.00
16	6 Excavate for side by side Ducts (2) incl spread 100 Bedding -Section 13	\$0.00	Prorated	\$3,040.00	\$3,040.00	\$0.00	\$0.00	\$3,040.00	16 53,040.00
17	7 Install Precast Ducts (2 x max 6m Ducts) & Seal Joints - Section 13	\$0.00	Prorated	\$1,520.00	\$1,520.00	\$0.00	\$0.00	\$1,520.00	17 \$1,520.00
18	8 Backfill and compact around ducts	\$0.00	Prorated	\$3,680.00	\$3,680.00	\$0.00	\$0.00	\$3,680.00	18 \$3,680.0
19	9 Install from Final Delivery - Missing Lids	\$0.00	Prorated	\$1,520.00	\$1,520.00	\$0.00	\$0.00	\$1,520.00	19 \$1,520.00
20 •	U Ducts 11KV to step Up Iransformers Complete (DL 30 June)	50.00	Prorated	\$0.00	50.00	50.00	50.00	\$0.00	Ducts 11KV to step Up Transformer's Complete (DL 30 June)
<u>N</u> ar	me: Variation - Additional excavation Duration: 0.67 d	ays 🗘 🗹 E	ffort driven	Manually:	Scheduled	Previous	Ne <u>x</u> t		
St <u>a</u>	art: Tue 22 Feb '22 V Finish: Tue 22 Feb '	22	→ Tas <u>k</u> t	ype: Fixed	Units v	% Comple	ete: 0%	•	
1	ID Resource Name Units	Cost	Bas	eline Cost	Act. Cost	Ren	n. Cost	^	
	4 Pool - 20 Tonne Excavator 1 100%	S	640.00	\$0.00		\$0.00	\$640.00		
	11 ABC - General Labourers 200%	S	373.33	\$0.00	:	so.oo	\$373.33		