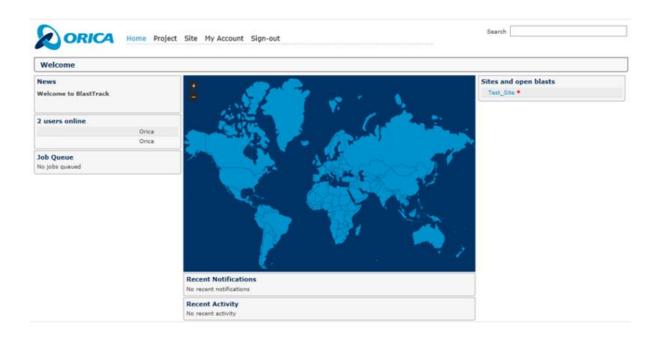


# **BLASTIQ**

# **OPERATING MANUAL**



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# DOCUMENT CONTROL

DOCUMENT NO.: ORICA-EXP-BIQ-001

PREPARED BY: Scott Feeney Technical Officer Projects & Technology

> Rachel Purdie Graduate Engineer Projects & Technology

CHECKED BY: Austin Turner BlastIQ Technical Lead Projects & Technology

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# LIST OF REVISIONS

Revision	Summary of Revision Content	Date	By Whom
0	Original Issue - BlastIQ Build 1.16	08/2015	S Feeney
Α	Second Issue - BlastIQ Build 1.19	12/2015	S Feeney
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Section Revis	sions	Date	Rev
Section 1	General Overview	08/2015	0
Section 2	BlastIQ Software Initialisation	08/2015	0
Section 3	BlastIQ Roles Defined	08/2015	0
Section 4	Using BlastIQ as a Viewer	08/2015	0
Section 5	Using BlastIQ as a Contributor	08/2015	0
Section 6	Using BlastIQ as an Editor	08/2015	0
Section 7	Using BlastIQ as a Site Manager	08/2015	0
Section 8	Installing SHOTPlus 5	08/2015	0
Section 9	Using SHOTPlus 5 with BlastIQ	08/2015	0
Section 10	Blaster's Desktop	08/2015	0

#### The document user is encouraged to improve the accuracy and currency of this document.

If this manual does not accurately reflect the current configuration / practices of this software suite, the document user is to contact the BlastIQ Technical Lead to arrange for the documentation to be updated by the Projects & Technology Technical Officer.

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# MANUAL SYMBOLS

The following symbols may appear in this manual. They are used to alert the reader to potential safety issues or references to external documents.



Reference to an external electronic or hardcopy document.



Reference to qualification / training requirements.



To address practices not related to personal injury.



Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.



Indicates a hazardous situation which, if not avoided, could result in death or serious injury. WARNING signs should not be used for property damage hazards unless personal injury risk appropriate to this level is also involved.



Indicates a hazardous situation which, if not avoided, will result in death or serious injury. DANGER signs should not be used for property damage hazards unless personal injury risk appropriate to these levels is also involved.

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#### 1 **GENERAL OVERVIEW**

Section Revision: 0 **Revision Date:** August 2015

#### 1.1 **OVERVIEW**

Orica's BlastIQ system is a combination of proprietary technologies that connect the Blasting Process from Design through to Reporting with a high degree of consistency, traceability and interoperability.



Figure 1-1: BlastIQ system flowchart



The BlastIQ system was initially developed as BlastTrack. Some parts of the system and some screenshots used in this Operating Manual may display the old naming convention.

### 1.2 THE MINING CYCLE

BlastIQ aligns with many aspects of the mining cycle.

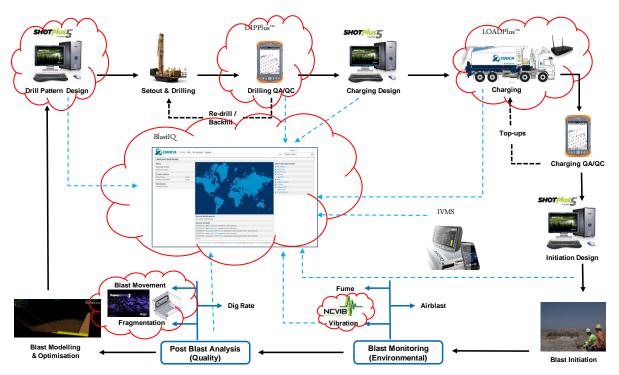


Figure 1-2: Technologies used during the mining cycle

## 2 BLASTIQ SOFTWARE INITIALISATION

Section Revision: 0

Revision Date: August 2015

#### 2.1 OVERVIEW

This process is a one-off process for new users logging into BlastIQ for the first time.

#### 2.2 INITIAL ACCESS OF BLASTIQ FOR CUSTOMERS

The following steps describe how to access BlastIQ for the first time.

You will receive a 'Welcome to BlastIQ' email. This email will contain a webpage link, your system username and an initial password.

1. Click on the website link provided in the email.

Hello Scott,	
Welcome to BlastIQ.	
1. Please visit us at <u>https://blastig.ori</u>	<u>ca.com</u>
2. Log in using	
Your new username:	scott.feeney@ext.orica.com
Your temporary password:	4. K
3. You will need to choose your own p	password.
Please contact me if you would like a	ny assistance or to provide feedback.
Thank you and we hope you enjoy us	ing BlastIQ.
Regards,	
Austin	
BlastIQ Support Team	
Field Information Systems   Orica Pty	Ltd
Kurri Technical Centre, 1151 George	Booth Drive, Kurri Kurri NSW 2327
<mark>≊ shotplus_support@orica.com</mark>	
Orica   <u>www.orica.com</u>	
ORICA	

The website provides access for Orica's customers and Orica's internal staff:

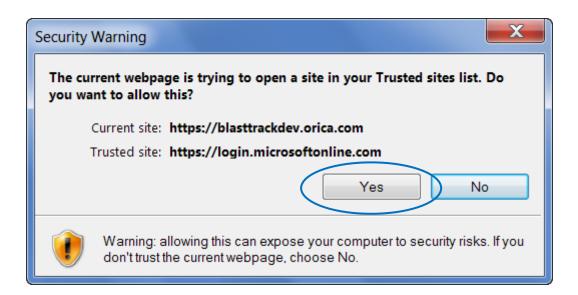
- The upper box provides external (customer) access.
- The lower provides internal (staff) access.

2. Select the **BlastTrack accounts @ext.orica.com** log-in box.



Depending upon your computer's security settings, you may receive a Security Warning.

3. Select **Yes**, if prompted.



Orica uses Microsoft to manage the user authorisation for the BlastIQ system.

You will be redirected to a secure Microsoft webpage.

- 4. Enter the *username* and temporary *password* from the 'Welcome to BlastIQ' email.
- 5. Place a tick in the 'Keep me signed in' box.

#### 6. Select Sign in.

Sign in Sign in with your work or school account
scott.feeney@ext.orica.com
Can't access your account?
Don't have an account assigned by your work or school? Sign in with a Microsoft account
Your work of school account can be used anywhere you see this symbol.

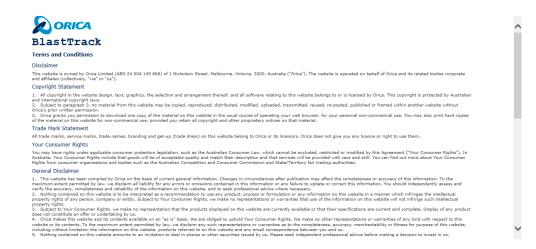
External (customer) users will be prompted to update their passwords.

As stated on the screen, the password *must have at least 8 characters and can't contain your user ID. It must contain at least three of the following: uppercase letters, lowercase letters, numbers, and symbols.* 

- 7. Enter your new, secure password. Remember to save it somewhere safe.
- 8. Select Update password and sign in.



The first time, users of BlastIQ will be presented with the system's *Terms and Conditions*.



- 9. Read the *Terms and Conditions*.
- 10. Scroll down to the bottom of the window using the Scroll Bar.

Two options are presented:

- Agree you agree to use the software in the manner described in the *Terms* and *Conditions*.
- Cancel you do not agree to use the software in the manner described in the Terms and Conditions. Access ceases here.
- 11. Select Agree.

1

Ve on characterise you to (either yourself or through any third party): use any device, software, process or routine to interfere or attempt to interfere with the proper vorking of the website or any ransaction or process being conducted on or through the website itsk any action that imposes an unreasonable or disproportionable yead on the infrastructure of or bandwidth connecting to the management of the state of t	
imitation of Liability	
<ol> <li>The use of the information on this website is at your own risk. Subject to paragraph 3, ve, our directory, employees, shareholders, agents and other representatives will not, under any circumstances, be iable for any injury, loss or damage antising out of or related to the use, or inability to use, the information on this vebsite by any anal.</li> <li>Subject to paragraph 3, this limitation of liability includes, but is not limited to, compensatory, direct, indirect or consequential damages, loss of data, income or profit, loss of or damage to property and hird party claims.</li> <li>Where Your Consumer Rights apply, to the maximum extent permitted by law, our liability will, at our option, be limited to: resupplying goods or services to you or supplying equivalent goods: repairing the goods or paring to have the goods or services to protice strokes to goods end and the partice strokes to profit.</li> </ol>	
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<ol> <li>Orica permits linking to this vehicle, provided that the full himl page is loaded. Any such links must not incorporate our trade marks or service marks, and must not be used to disparage or otherwise derivantally affect our reputation of Orica.</li> <li>Information on this vehicle may include links to the vehicles of others, including, without limitation, Orica share price information supplied by the Australian Stock Exchange. These links are provided for our convenience only. We do not endowing, guarantee or approve the content or accuracy of these vehicles, and the output of Orica.</li> <li>Information on the vehicle links to the vehicles of the provide strain or other vehicles.</li> <li>We do not variant that, linkomation on any thing party vehicles in first from completer viruses or any defects, errors or infingements of intellectual property rights, nor do we authorise any such 4. We didoally indicitly for any loss or damage vahage-versating from your use of links to third party vehicles.</li> <li>We didoally indicitly for any loss or damage vahage-versating from your use of links to third party vehicles.</li> </ol>	
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Jurisdiction	
<ol> <li>The laws of the State of Victoria, Australia, apply to this Disclaimer.</li> <li>If you access this website in a jurisdiction other han Victoria, Australia, you should consider whether your use complies with the laws of that jurisdiction, to the extent that they apply.</li> <li>If the information on this vebsite is translated into or presented in languages other than English, the English version of that information will be authoritative in relation to any disputes regarding its start under the volume 2012.</li> </ol>	
Agree Calcel	
rou can contact system administration or request help via the following email address	•
TServiceDesk@orica.com	

The user is then presented with the BlastIQ home screen.

You may not be presented with any sites at this stage. Site access is requested from your local site administrator.



For help and support, please contact the Orica Global Service Desk:

For External users: email <u>itservicedesk@orica.com</u>

12. Select **My Account** to modify the user preferences.

: scott.feeney@ext.orica.com			Australia
Account	Contact information		
User name sott.feeney@ext.orica.com	Name Scott Feeney		
User groups View confidential	Contact phone		
Expiry date No expiry	Email scott.feeney@erica.com		
Refresh roles		Edt	
Preferences	By project membership and acce	ess notes	
Time zone (UTC+10:00) Canberra, Melbourre, Sydney	Test	Manager	
General units Hetric m/kg/mm/torns	test_anders Test_Site	Manager Manager	
Ground vibration units			

- 13. Add new information:
  - Contact phone number
  - General units
  - Vibration units
- 14. Select the **Time zone**.
- 15. Select required **Notifications**.

16. Select **Update** to save the new settings and information.

dit my account		
	Full name of user Scott Feeney Cestact phone Cestact phone Cestact phone © mumulations © mumulations	
	Vibration unds mm/s O in/s. Time zone (UTC+15:00) Camberra. Sydney	
	Notifications           Isolity voltand document.added           Isolity voltand mocument.added           Isolity voltand mocument.added           Isolity voltand mocument.added           Isolity voltand mocument.added           Isolity voltand mocument reduced           Isolity voltand mocument.added           Isolity voltang mociment removad           Isolity voltang mociment removad	
	toty user priors this accoss     toty user priors that accoss removed     tothy user total coster removed     tothy user total coster rule duringed     tothy user total removes the	

After the user preferences have been saved, please bookmark BlastIQ.

- 17. Select **Home** to return to the BlastIQ home page.
- 18. Select [Ctrl] + [d].
- 19. If prompted with the following message, select Add.

Some browsers will add a bookmark without this message.

Add a Favorite	
	Add a Favorite Add this webpage as a favorite. To access your favorites, visit the Favorites Center.
<u>N</u> ame:	BlastTrack Home page
C <u>r</u> eate in:	
	<u>A</u> dd Cancel

Future access to BlastIQ site can be performed via the bookmark created.

#### 2.3 INITIAL ACCESS OF BLASTIQ FOR ORICA STAFF

The following steps describe how to access BlastIQ for the first time.

You will receive a 'Welcome to BlastIQ' email. This email will contain a webpage link and a brief version of these instructions.

1. Click on the website link (<u>https://blasttrack.orica.com</u>) provided in the email.

Help. He	re to BlantTrack Online - BM Lotus Notes		
Image:			
Added   The set of the		rack Online =	
I have * Whey to We * if there * * * * * * * * * * * * * * * * * *	0 7 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		The base time in
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Witcome to Electricade Dense 1. Sease voir a fits, /Savifiade Area con 2. Seied Orira Accounts (gene con Particular and gene con 2. Log In using your Orica Email Address and your Orica Network Pesseord 3. Log In using your Orica Email Address and your Orica Network Pesseord 3. Log In using your Orica Email Address and your Orica Network Pesseord 5. Spin with your work or isteel assure! Spin with your work or isteel assure! Spin with your work or isteel assure!			20107/20145 86; 11 PM Trans Details
1. Peace view of the first Ack and a constraint of the first Ack and a			
2. Seed Ontra Account (protection)	e to BlastTrack Ontra		
A tog in using your Orica Email Address and your Orica Network Pressend	a visit is at <u>https://desthack.onca.com</u>		
Beakemane  3. Log in using your Orice Email Address and your Orice Network Pessend	Orica Accounts genea com		
Reace Spin or why your work or ustrated assured: Automatic and assured:			
Sign in with your week of schedul account.	using your Orica Email Address and your Orica Network Pass	£3	
authtumPeracen	-	ORICA	
A DEC AND A	Contraction of the second	with your work or scheel account	
		thumer@olita.com	
		ip me signed in	
Certarise para asimet	The second of the	tion par struct	

The website provides access for Orica's customers and Orica's internal staff:

- The upper box provides external (customer) access.
- The lower provides internal (staff) access.
- 2. Select the **Orica Accounts @orica.com** log-in box.



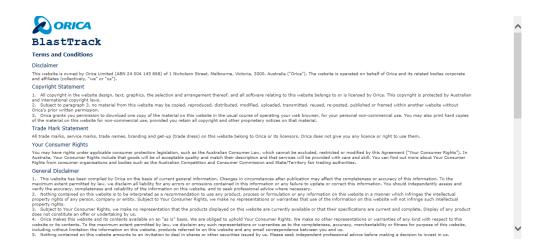
Orica uses Microsoft to manage the user authorisation for the BlastIQ system.

You will be redirected to a secure Microsoft webpage.

- 3. Enter your standard Lotus Notes email address
- 4. In internet explorer on Orica computers, you may be automatically signed in without entering a password
- 5. On other browsers, non-Orica computers and mobile devices, enter your Orica **password**.
- 6. Select **Sign in**.

DRICA	ORICA
A CONTRACT OF A	Sign in with your work or school account
	aomeone@example.com
T.	Password
	Const
RORICA TO A	Can't access your account?
	Don't have an account assigned by your work or school? Sign in with a Microsoft account.
	li -

The first time, users of BlastIQ will be presented with the system's *Terms and Conditions*.



- 7. Read the *Terms and Conditions*.
- 8. Scroll down to the bottom of the window using the Scroll Bar.

Two options are presented:

- Agree you agree to use the software in the manner described in the *Terms* and *Conditions*.
- Cancel you do not agree to use the software in the manner described in the Terms and Conditions. Access ceases here.
- 9. Select Agree.

1

	The bolistics	
	We do not authorise you to (either yourself or through any third party): use any device, software, process or routine to interfere vality and there with the proper vorking of the vebsite or any transaction or process being conductions of or through the vebsite; take any action that impose an unreascable or disproprionately large load on the infrastructure of or band/with connecting to the vebsite; take any action that could damage, disable, overburden, or impair the vebsite or interfere with any other party's use and enjoyment of this vebsite; transmit, distribute, introduce or otherwise make available in any menet through this vebsite any computer virus, keylogeners, spoyvere, vorms, "tright horse, thirdene or other malcious contraining use this vebsite in connection with requesting, harwesting, obtaining or storing any personal information, passwords, account information or other information about other users of this website; or use any data mining, robots, or similar data gathering and structing tools in connection with this vebsite.	'
	Limitation of Liability	
	<ol> <li>The use of the information on this vebsite is at your own risk. Subject to paragraph 3, vec, our directors, employees, shareholders, agents and other regresentatives will not, under any circumstances, be liable for any injury, loss or damage artising out of or related to the use, or inshift to use, the information on this vebsite by envolved through this vebsite by envolved through this vebsite by envolved the use, or institution of liability includes, but is not limited to, compensatory, direct, indirect or consequential damages, loss of data, income or profit, loss of or damage to property and third party claims.</li> <li>Where Your Consumer Rights apply, to the maximum extent permitted by law, our liability will, at our option, be limited to: resupplying goods or services to you or supplying equivalent goods; repairing the goods: or paring the have the goods or services to good or goods repairing the</li> </ol>	
	Links	
	<ol> <li>Orice permits linking to this website, provided that the full html page is loaded. Any such links must not incorporate our trade marks or service marks, and must not be used to disparage or otherwise detiminating infection reputation of orics.</li> <li>Information on this website may include links to the websites of otherw, including, without limitation, Orics ahare price information supplied by the Australian Stock Exchange. These links are provided for your convenience on why. We do not anothers, guarantee or approver the content or accuracy of these websites, and deen to recommend the product, services or information on these websites.</li> <li>We do not warrant that information on any bind party vebsites in fee from computer visces or any defects, arrors or infingements of intellectual property rights, nor do we authorise any such         <ul> <li>We doel multility for any loss or damage whatsoever arising from your use of links to this departy vebsites.</li> </ul> </li> </ol>	
	Unsolicited ideas	
	It is our policy not to accept information from third parties which is confidential or proprietary. If you wish to retain the confidentiality of your material, do not submit it to us via email or otherwise without first obtaining our agreement.	
	Jurisdiction	
	<ol> <li>The laws of the State of Victoria, Australia, apply to this Disclamer.</li> <li>If you access this vestils in a jurisdiction other than Victoria. Australia, you should consider whether your use complies with the laws of that jurisdiction, to the extent that they apply.</li> <li>If the information on this vestils is a jurisdiction other than Victoria. Australia, you should consider whether your use complies with the laws of that jurisdiction, to the extent that they apply.</li> <li>If the information on this vestils is translated into or presented in languages other than English, the English version of that information will be authoritative in relation to any disputes regarding its (103 uodel) of version (volume).</li> </ol>	
$\left( \right)$	Agree Grad	
	You can contact system administration or request help via the following email address	•
	ITServiceDesk@orica.com	

The user is then presented with the BlastIQ home screen.

You may not be presented with any sites at this stage. Site access is requested from your local site administrator.



For help and support, please contact the Orica Global Service Desk:

For Orica users on the Orica network: https://orica.service-now.com/ess/ For all users: email itservicedesk@orica.com

10. Select My Account to modify the user preferences.

e: scott.feeney@ext.orica.com			Aestralia 🗸
Account	Contact information		
User name scott.Reeney@ext.orica.com	Name Scott Feerey		
User groups View confidential	Contact phone		
Expiry date No expiry	Email scott./seney@orica.com		
Refrecti roles		Edt	
Preferences	Hy project membership and acc	aux rales	
Time zone (UTC+10:00) Canberra, Melbourne, Sydney	Test	Manager	
General units Netric m/kg/mm/tonne	test_anders Test_Site	Manager Manager	
Ground vibration units			
Notifications			

11. Add new information:

- Contact phone number •
- **General units**
- Vibration units
- Select the Time zone, if required. 12.
- 13. Select required Notifications.

14. Select **Update** to save the new settings and information.

dit my account		
	Full name of seer Scott Freney	
	Contact phone	
	General units @ m,mm,kg, tonne ① ft;in,lb,ten	
	Vibration unita mm/s O in/s	
	Time zone (UTC+18:00) Centera. Melbourne. Sydney V	
	Notifications	
	Notify when document added     Notify when new measurement added     Notify when new blact created	
	teelity often abcorder updated     teelity often activity of teelity of	
	16080 y project member removed     10090 y project member relation that project	
	Molefy user given able access     Multily user pile access removed	
	Notify user the access role changed     Notify user consider new site	
	Uipdeten anceil	
	Terms & Conditions   @ Copyright 2015 Orica Limited, All rights reserved,   Build 1.13	

After the user preferences have been saved, bookmark BlastIQ.

- 15. Select **Home** to return to the BlastIQ home page.
- 16. Select [Ctrl] + [d].
- 17. If prompted with the following message, select Add.

Some browsers will add a bookmark without this message.

Add a Favorite	
*	Add a Favorite Add this webpage as a favorite. To access your favorites, visit the Favorites Center.
<u>N</u> ame:	BlastTrack Home page
C <u>r</u> eate in:	
	<u>A</u> dd Cancel

Future access to BlastIQ site can be performed via the bookmark created.

### **3 BLASTIQ ROLES DEFINED**

Section Revision: 0

Revision Date: August 2015

#### 3.1 OVERVIEW

**Site Managers** may view and edit the project definition and view and edit information in all project sites subject to the confidentially provisions.

Editors may view and edit all blasting information at a site subject to the confidentiality provisions.

**Contributors** may view all blasting information restricted by the confidentiality provisions and add new documents to a site.

**Viewers** may view all blasting information restricted by the confidentiality provisions at a site.

#### 3.2 BLASTIQ USER ROLE PERMISSIONS

The user roles as defined in the BlastIQ system provide different levels of permission to perform system tasks. *Table 3 1: BlastIQ User Role Permissions* details which level of user can perform each task.

Task	Viewer	Contributor	Editor	Site Manager
Viewer task	4	1	√	4
Contributor task		✓	✓	✓
Edit site information			✓	4
Create and edit points of interest - upload points of interest from a SHOTPlus 5 file - create points of interest in BlastIQ - configure environmental monitors			4	*
Create new blasts			✓	4
Edit the blast details - details - name - notes			✓	*
Upload SHOTPlus 5 file			✓	✓
Edit blast properties			✓	✓
Record blast measures - blast measures - environmental measures			√	4
Complete the job pack - mark items as complete - add comments to job pack fields - job pack file uploads			4	

#### Table 3-1: BlastIQ User Role Permissions

#### BLASTIQ OPERATING MANUAL

Task	Viewer	Contributor	Editor	Site Manager
Use the Documents Manager				
- new folder creation				
- folder relocation				
- rename folder				
- folder deletion			1	1
<ul> <li>upload a file using Documents Manager</li> </ul>			•	
<ul> <li>download a file using Documents Manager</li> </ul>				
<ul> <li>move a file using Documents Manager</li> </ul>				
<ul> <li>delete a file using Documents Manager</li> </ul>				
- make a file confidential using Documents Manager				
Use the Images library			√	1
Use the Videos library			✓	✓
General site configuration				
- add site members				
- optional features				
- Confidential blast information				•
- blast type descriptors				
- blast measures				
Create a job pack definition				
<ul> <li>configuring to upload a job pack item from file</li> </ul>				
<ul> <li>configuring to upload a job pack item from SHOTPlus5</li> </ul>				<b>√</b>
- configuring to manually enter a job pack item				
Configure site map				
<ul> <li>define site map coordinate system</li> </ul>				1
- upload a map overlay				•
- select a default site map view				
Add news articles to site page				1

## 4 USING BLASTIQ AS A VIEWER

Section Revision: 0

Revision Date: November 2015

#### 4.1 OVERVIEW

Viewers may view all blasting information restricted by the confidentiality provisions at a site.

#### 4.2 VIEWING SITE INFORMATION

Access to sites on BlastIQ is available in three ways:

- Selecting the **site** hyperlink listed under *Sites and open blasts*
- Selecting the appropriate **red dot** (site location) on the map
- Selecting Site / site name

<b>ORICA</b>	Home Site	My Account Sign-out	Search
Welcome Scott Feeney	y		
News Welcome to BlastTrack Test	t		Sites and open blasts Demonstration Mine 1
3 users online			
Austin Turner	Orica		
Richard E Leghissa	Orica		
Scott Feeney	Orica		
Job Queue No jobs queued			
		Recent Notifications No recent notifications	
		Recent Activity	
		12/11/2015 - Document OV23S43_BL3 Production 14.12.14 saved end of day 29.12.spf uploaded to	
		site Demonstration Mine 1 by Austin Turner	
		12/11/2015 - Blast Demonstration_Coal_Blast created by Austin Turner 12/11/2015 - Blast BEN TEST 02 created by Loadplus	
		12/11/2015 - blast ben rest oz created by Loadplus 12/11/2015 - Blast ALISONIO TSB created by Loadplus	
		12/11/2015 - blast ALISONTO TSB created by Loaoplus 12/11/2015 - Blast BEN01 created by Loadplus	
		and any end of the control of conditions	

The site homepage is displayed.



To navigate to the view below, the 'Overview' tab may need to be selected. Each tab represents a different website area.

Overview Site Map	Home Site My			Videos				Search	
Site user access		Blasting	Timeline					Monitoring points (POI)	Table.
Alain Silic	Orica	biasting						Environmental 01	Tooren
Ben Wynn	Orica							City of the city o	
Geoff Stevenson	Orica							Open Blasts	
hung.chau@orica.com	Orica	4.15	August 15	Contractors 10	October 15	Neuropher 1F	Describe	ALISON 6 •	
Konrad Schmidt	Orica	ily 15	August 15	September 15	October 15	November 15	Decembe	ALISON 8 •	
mark.irving@adapa.com.a	u Adapa	<					>	ALISON 9 PS •	
Rachel Purdie	Orica	Blasting	descriptors imp	lemented				ALISON10 TSB •	
Rohan Stevens	Orica	Blast Type		The type of blast ca	tegorized as per sit	e procedure.		B2021	
Scott Feeney	Orica	Discting	measures imple	mantad				BEN TEST 02 •	
				emented				BEN01 •	
LoadPlus		Excavator ( (tne/hr)	E05 Dig Rate	Dig rate for Hitachi	3500 number EX05	i.		H2130	
LoadPlus site name							_	UAT_Test01	
LoadPlus updates	Active	Recent A							
Last update	13/11/2015 11:22 AM			tTrack Technical Field	Guide.docx uploade	ed to site Demonstra	ation Mine		
Next update	13/11/2015 11:37 AM	1 by Austin							
Last product update	13/11/2015 11:00 AM	12/11/201	5 - Document OV2	3S43_BL3 Production	14.12.14 saved end	d of day 29.12.spf u	ploaded to		
System status	System Ok		stration Mine 1 by						
File transfer folder	Full details			ration_Coal_Blast crea 02 created by Loadp		3f			
BlastTrack Technical Field Guide.docx	13/11/2015	14/11/201	- max out that	or created by Looop	140				

### 4.3 THE SITE OVERVIEW

The Site Overview view provides the user with information regarding:

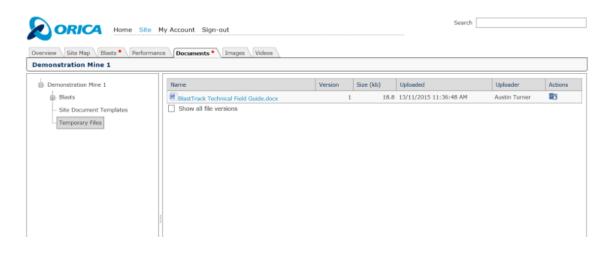
- Who has Site user access
- LOADPlus information, if the site is LOADPlus enabled
- File transfer folder
- Blasting Timeline for site blasts
- Blasting descriptors implemented
- Blasting measures implemented
- Recent Activity
- Monitoring points (POI)
- Open Blasts

#### 1. Select the **Overview** tab.

	Blasts • Performan	Account Sign-out	205		Search
Demonstration Min	e 1	Blasting Timeline			Monitoring points (POI) Tab
Alain Silic	Orica				Environmental 01
Ben Wynn	Orica				
Geoff Stevenson	Orica				Open Blasts
hung.chau@orica.com	Orica	ily 15 August 15 S	eptember 15 October 15	November 15 Decemb	ALISON 6 •
Konrad Schmidt	Orica	Kuguse 13 - 3	eptember 15 October 15		ALISON 8 •
mark.irving@adapa.com.a	u Adapa			>	ALISON 9 PS •
Rachel Purdie	Orica	Blasting descriptors impleme	nted		ALISON10 TSB •
Rohan Stevens	Orica	Blast Type The	type of blast categorized as per sit	e procedure.	B2021
Scott Feeney	Orica	Blasting measures implement	ted		BEN TEST 02
LoadPlus		Evenueter EOE Die Bate	rate for Hitachi 3500 number EX05		BEN01     BEN01     UAT_Test01
LoadPlus updates	Active	Recent Activity			
Last update	13/11/2015 11:22 AM	13/11/2015 - Document BlastTrack	Technical Field Guide.docx uploade	d to site Demonstration Mine	
Next update	13/11/2015 11:37 AM	1 by Austin Turner			
Last product update	13/11/2015 11:00 AM	12/11/2015 - Document OV23543,	BL3 Production 14.12.14 saved end	of day 29.12.spf uploaded to	
System status	System Ok	site Demonstration Mine 1 by Austi	n Turner		
File transfer folder	Full details	12/11/2015 - Blast Demonstration, 12/11/2015 - Blast BEN TEST 02 ct		r	
BlastTrack Technical Field Guide.docx	13/11/2015	TREATED - MOST DEN TEST OF C	carea of enanging		J

#### 4.3.1 Viewing Details of Transferred Files

- 1. Select Full details... (in the File transfer folder area).
- 2. The system goes to the **Documents** area for the site.





Selecting any item in light blue font takes the user to the relevant area of the website, i.e. selecting a document moves to Documents, selecting a blast moves to Blast.

#### 4.4 VIEWING THE SITE MAP

The maps used in BlastIQ are sourced from Google Maps.

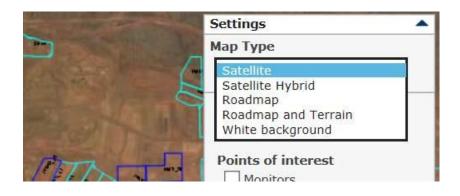
1. Select the **Site Map** tab.



- 2. Move your location on the map by left-clicking and holding on the mouse and moving away to the new area.
- 3. Zoom in or out by using the mouse scroll wheel or + / buttons.



- 4. The type of map displayed can be changed using the drop-down. Choices available are:
  - Satellite
  - Satellite Hybrid
  - Roadmap
  - Roadmap and Terrain
  - White background



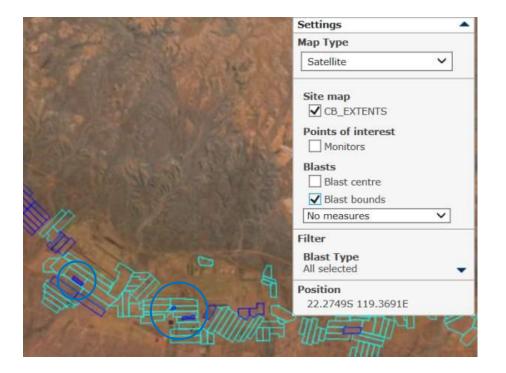
5. The location of monitors can be show by selecting **Monitors** (under **Points of Interest**).

and the second second	Settings
CONTRACTOR OF THE	Мар Туре
and the second	Satellite 🗸
and the second second	Site map Site map
	Points of interest
Stall Stall	Blasts Blast centre Blast bounds
R AND REAL PORT	Filter
	Blast Type All selected
	Position 22.2907S 119.4311E
	A THE

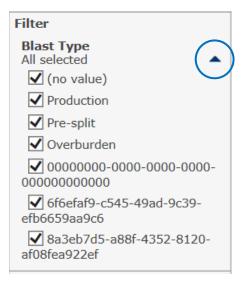
6. The locations of previously fired blasts can be show by selecting **Blast centre** (under **Blasts**).



7. The locations of blast bounds can be show by selecting **Blast bounds** (under **Blasts**).



8. The type of blast being viewed can be modified using the dropdown menu arrow.



### 4.5 VIEWING THE SITE BLASTS

Site Blasts can be viewed in a number of ways. To do this:

1. Select the **Blasts** tab.

	A	Home Site	My Account Sign	-out		Search	
Overview Site Ma	В	lasts • )erforma	ance Documents •	Images Videos			
Blast list Reset filters							
Display mode Display descriptors		Blast (All c		Blast Type (All values)		•	
From date (inclusive)		To da	ite (inclusive)	×			
Name 🛆		State	Fired On	Blast Type	Details		
ALISON 6*	•	Released for loading	9	6f6efaf9-c545-49ad-9c39- efb6659aa9c6			
ALISON 8*	•	Released for loading	9	0000000-0000-0000-			
ALISON 9 PS	•	Released for loadin	9	0000000-0000-0000-	12 H		
ALISON10 TSB	•	Released for loading	9	0000000-0000-0000-0000-0000-00000000000			
B2021	•	Designed		Production	🛛 🖻 🗐 🖆 🗒		
BEN TEST 02*	•	Created		8a3eb7d5-a88f-4352-8120- af08fea922ef	2 A		
BEN01	•	Released for loading	0	6f6efaf9-c545-49ad-9c39- efb6659aa9c6			
H2130	٠	Designed		Overburden	🕅 🖻 📰 🖆 🗒		
UAT_Test01		Designed			🔤 📼 📰 🔡		
<							>

The display mode can be changed by:

2. Selecting the 'drop-down' arrow in the **Display mode** field.

	Ά	Home	Site	Му Асса
Overview Site Map	Bla	sts • 🗍	Performa	ance D
Blast list Reset filters				
Display mode			Blast	state
Display descriptors			(All o	open)
Display blast dates Display blast parame Display measures Display environment			To da	te (inclus
Name 🛛 🛆		State	e	Fi

Modes available are:

- Display descriptors Name, State, Fired On, Blast Type, Details
- **Display blast dates** Name, State, Created by, Surveyed, Designed Started loading, Proposed firing, Fired On
- **Display blast parameters** Name, Elevation, Design volume, Actual volume, Design Powder Factor (PF), Actual PF
- **Displays measures** Name, predefined Measures (eg. Dig Rates)
- **Display environmental** Name, Maximum Instantaneous Charge (MIC), Max. PPV, Recorded at POI, Max. over pressure, Recorded at POI

The state of the blast may be selected by:

3. Selecting the 'drop-down' arrow in the **Blast state** field.

<b>N</b> or	<b>RIC</b> A	Home S	Site My Account	Sign-out
Overview Si	te Map	Blasts • Pe	rformance Docur	nents • Images Videos
Blast list				
Reset filters				
Display mode			Blast state	Blast T
Display descri	ptors	✓	(All open)	(All va
From date (inc	lusive)	~	(All blasts) Cancelled Closed Fired	
Name	Δ	State	Finished loading Started loading	
AAFIRST		Released for	Designed Surveyed	000-00 000000
AASECOND	•	Released for	Created oading	efb6659aa9c6
				6f6efaf9-c545-49ac

States available are:

- All open
- All blasts
- Cancelled
- Closed
- Fired
- Finished loading
- Started loading
- Designed
- Surveyed
- Created

The type of blast being displayed can be changed by:

4. Selecting the 'drop-down' arrow in the **Blast Type** field.

	RIC4	Home Site		gn-out
Blast list Reset filters				
Display mode		Blast s	tate	Blast Type
Display descriptors From date (inclusive)		V (All o	pen)	<ul> <li>(All values) all (none) •</li> </ul>
		To dat	e (inclusive)	Production     Pre-split     Overburden
Name	Δ	State	Fired On	Blast Type 🗹 0000000-0000-0000-0000-
MFIRST	•	Released for loading		00000000-0 0000-00000 666efa9-c545-49ad-9c39-
AASECOND	•	Released for loading		6/6efaf9-c54 efb6659aa9c6 a3abt7d5-a88f-4352-8120- af08fea922ef
ATHIRD	•	Released for loading		6f6efaf9-c54 efb6659aa9
				0000000-0000

Types available are:

- Production
- Pre-split
- Overburden
- Any other types set up in the *Descriptors* field under *Site Admin*

A date range for blasts can also be chosen. This is done by:

5. Selecting the 'drop-down' arrow in the **From date** field. and / or

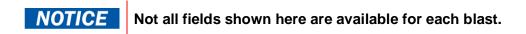
Selecting the 'drop-down' arrow in the **To date** field.

6. Selecting the date required in the calendar view.

	~	0	R		4	Hor	ne	Site	Μ	ly Account Sign	-out
C	)verv	iew	Site	Мар	Blas	sts •	P	erfor	man	ce Documents	Images Vi
E	Blas	t list									
F	leset	filters									
	Displa	ay mod	e		ate	E					
		ay des	· ·		en)	~					
	rom	date (i	nclus	ive)				То	date	(inclusive)	
L											
٢	~	<	D	ecemt	per, 2	015		>	≫	Fired On	Blast Type
А		Mon	Tue	Wed	Thu	Fri	Sat	Sun			00000000-00
~	49	30	1	2	3	4	5	6			6f6efaf9-c54
	50	7	8	9	10	11	12	13			efb6659aa9c
А	51	14	15	16	17	18	19	20			6f6efaf9-c54 efb6659aa9c
А	52	21	22	23	24	25	26	27			0000000-00
A	53	28	29	30	31	1	2	3			0000000-00
	01	4	5	6	7	8	9	10			0000-000000 6f6efaf9-c54
A		_									efb6659aa9c
А			Тос	lay	(	Clear	•				
AI	ISO	N 6			Re	eleas	ed for	load	ina		6f6efaf9-c54

#### 4.5.1 Individual Blast Information

Each blast can be individually investigated.



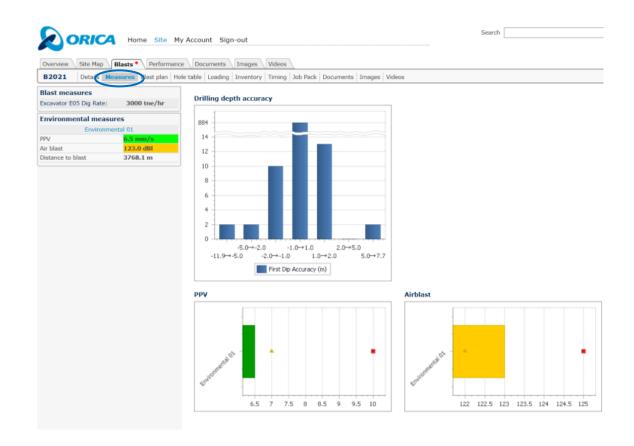
1. Select the blast.

ORI	CA	Home Site My	Account Sig	n-out		Search
Overview Site N	1ap \	Blasts • Performance	Documents	Images Videos		
Blast list Reset filters						
Display mode Display descriptor		Blast stat (All open	)	Blast Type (All selected)		•
From date (inclusi	ve)	To date (i	nclusive)	~		
Name	Δ	State	Fired On	Blast Type	Details	
AAFIRST	•	Released for loading		0000000-0000-0000-0000-0000-0000-000000	2 II	
AASECOND	•	Released for loading		6f6efaf9-c545-49ad-9c39- efb6659aa9c6		
AATHIRD	•	Released for loading		6f6efaf9-c545-49ad-9c39- efb6659aa9c6	目前	
ALISON 11	•	Created		0000000-0000-0000-		
ALISON 12	•	Released for loading		0000000-0000-0000-		
ALISON 13	•	Created		6f6efaf9-c545-49ad-9c39- efb6659aa9c6		
ALISON 13	•	Released for loading			10 A	
ALISON 6	•	Released for loading		6f6efaf9-c545-49ad-9c39- efb6659aa9c6		
ALISON 8	•	Released for loading		0000000-0000-0000- 0000-000000000000		
ALISON 9 PS	•	Released for loading		0000000-0000-0000-0000-0000-00000000000		
ALISON STRATA	•	Loading			12 III	
ALISON TSB2	•	Created			<b>2</b>	
ALISON10 TSB	•	Released for loading		0000000-0000-0000- 0000-000000000000		
ALISON14	•	Released for loading			言語	
82021		Designed		Production		
BAYSSP01	•	Released for loading		0000000-0000-0000-0000-0000-0000-000000	22 A	
BEN 4 DECK	•	Released for loading		00000000-0000-0000- 0000-000000000000		
BEN NLOCK	•	Released for loading		8a3eb7d5-a88f-4352-8120- af08fea922ef		
and that as		A		8a3eb7d5-a88f-4352-8120-	Mar SHO	

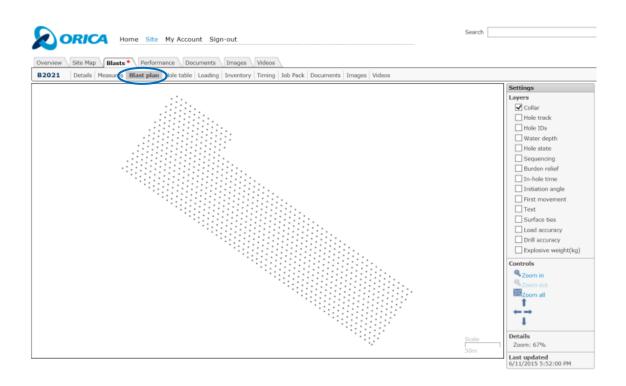
2. The blast **Details** are displayed as default.

	Home Site	My Account Sign-out			Search	
Overview Site Map	Blasts • Performa	nce Documents Images Videos				
B2021 Details		fole table   Loading   Inventory   Timing	Job Pack   Document	s   Images   Videos		
Actions menu Download SHOTPlus™5 File			s™5 filename: E	2021 RAMPTON_2021.spf		
Details		Descript     Location		lining block 715 2.32995 119.3536E RI	402.3 m	
Blast Type: Production Job pack 154% com	plete					
Timeline	Designed	1	4			
Created:	14/07/2015					
Survey completed:						
Design completed:						
Proposed firing date:						
Environmental comp	liance					
PPV below thresholds Air blast 123.0 dBl above	alast three hold				*	
Environmental 01			Design	Dipped L	oading Completed	
LoadPlus		Notes				
No association with a load	dplus blast	Access from northern haul road, risk	assess traffic.			
		Blast properties				
		Number of holes:	915			
		Total design explosive weight:	352,48	2 km Total los	aded explosive weight:	352,482 kg
		and an age to prove the gelt.	552,40	Variance		0 kg
		Volume Method (designed):	Manual			3 kg
		Powder Factor (designed):	0.54 kj		Factor (actual):	0.50 kg/m <sup>3</sup>
		Energy Factor (designed):	1.17 M		Factor (actual):	5125 Ng/ 11-
		Elevation:	402.3			
		Number of redrills:	12	Re-drill	Length:	12.1 m
		Number of backfills:	1	Backfill		1.2 m
		Number of backfills:	1	Backfill	Length:	

3. Select **Measures** to display all pre-defined blast and environmental measures.



4. Select **Blast plan** to display a graphical representation of the blast plan imported from SHOTPlus 5.



5. Select **Hole table** to display a tabulated version of all data relating to each hole, eg. design and actual depth and angle, temperature, product weight and powder factor.

	ORIO	A	Home Sit	te My A	ccount Sig	n-out					Search		
		_											
)verv	riew 🔪 Site Ma	p 👌 Blas	ts • Perfe	rmance	Documents	Images Vi	ideos						
B20	21 Details	Measure	es Blast pla	Hole t	able Doading	Inventory Ti	ming Job Pack Do	uments Images Vi	deos				
Down	load csv All	rows R	Row A Rov	V B RO	NC Row D	Row E Ro	w F Row G Row	H Row I Row	J Row K	Row L Row M	Row N	Row O Row	P Row
0	Row R Row	S Row	т										
· ·							1						
d	Length (m)		Angle (°)		Bearing (°)	Sub-drill (m)	Bench Height (m)	Temperature (°C)	Water (m)	Designed (kg)	Loaded (kg)	Delay Time	Powder F (kg/m
a	Designed	Actual	Designed	Actual	bearing (*)	Sub-drill (m)	bench rieight (m)	remperature (*C)	water (m)	Designed (kg)	Loaded (kg)	Delay Time	Powder F (kg/m
01	15.7	13.6	-	0.0	0.0	1.0	14.7		Dry	368.1	368.1	3093.4	
02	16.5	16.0			0.0				Dry	447.3	447.3	3163.0	
03	16.9	16.5			0.0				Dry	467.1	467.1	3231.8	
04	16.9	16.7	0.0	0.0	0.0	1.0	15.9		Dry	475.0	475.0	3300.5	
05	17.0	16.9	0.0	0.0	0.0	1.0	16.0		Dry	482.9	482.9	3369.2	
06	17.1	16.9	0.0	0.0	0.0	1.0	16.1		Dry	482.9	482.9	3437.8	
07	17.2	17.6	0.0	0.0	0.0	1.0	16.2		Dry	510.6	510.6	3506.7	
08	17.3	17.7	0.0	0.0	0.0	1.0	16.3		Dry	514.6	514.6	3575.3	
09	17.3	17.7	0.0	0.0	0.0	1.0	16.3		Dry	514.6	514.6	3643.9	
10	17.1	17.1	0.0	0.0	0.0	1.0	16.1		Dry	490.9	490.9	3712.2	
11	16.9	16.7	0.0	0.0	0.0	1.0	15.9		Dry	475.0	475.0	3780.6	
12	17.0	17.4	0.0	0.0	0.0	1.0	16.0		Dry	502.7	502.7	3849.5	
13	17.0	17.5	0.0	0.0	0.0	1.0	16.0		Dry	506.7	506.7	3918.2	
01	15.1	15.1	0.0	0.0	0.0	1.0	14.1		Dry	411.7	411.7	2919.8	
02	16.0	15.7	0.0	0.0	0.0	1.0	15.0		Dry	435.4	435.4	2988.6	
03	16.9	16.4	0.0	0.0	0.0	1.0	15.9		Dry	463.1	463.1	3057.5	
04	16.9	16.6	0.0	0.0	0.0	1.0	15.9		Dry	471.1	471.1	3126.2	
05	17.0	16.8	0.0	0.0	0.0	1.0	16.0		Dry	479.0	479.0	3194.9	
06	17.1	16.9	0.0	0.0	0.0	1.0	16.1		Dry	482.9	482.9	3263.5	
07	17.2	17.3	0.0	0.0	0.0	1.0	16.2		Dry	498.8	498.8	3332.2	
80	17.4	17.8	0.0	0.0	0.0	1.0	16.4		Dry	518.6	518.6	3401.1	
09	17.3	17.4	0.0	0.0	0.0	1.0	16.3		Dry	502.7	502.7	3469.5	
10	17.2	17.2	0.0	0.0	0.0	1.0	16.2		Dry	494.8	494.8	3537.9	
11	16.8	16.8	0.0	0.0	0.0	1.0	15.8		Dry	479.0	479.0	3606.3	
12	16.9	17.0	0.0	0.0	0.0	1.0	15.9		Dry	486.9	486.9	3675.0	
13	17.0	17.0	0.0	0.0	0.0	1.0	16.0		Dry	486.9	486.9	3743.6	
14	17.0	17.0	0.0	0.0	0.0	1.0	16.0		Dry	486.9	486.9	3812.2	
01	15.5	15.5	0.0	0.0	0.0	1.0	14.5		Dry	427.5	427.5	2814.2	
02	16.4	15.6	0.0	0.0	0.0	1.0	15.4		Dry	431.5	431.5	2882.8	
03	16.9	16.4	0.0	0.0	0.0	1.0	15.9		Dry	463.1	463.1	2951.8	(
:04	17.0	17.0	0.0	0.0	0.0	1.0	16.0		Dry	486.9	486,9	3020.6	

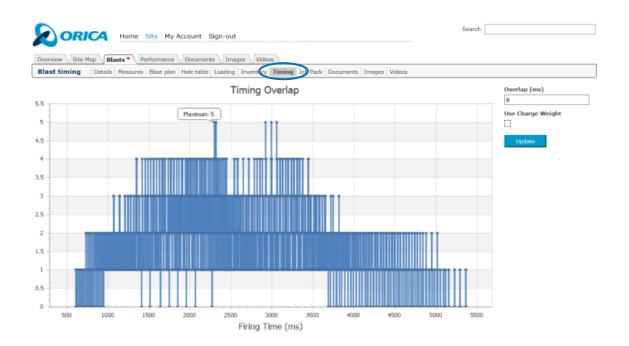
6. Select **Loading** to display both a graphical and tabulated version of the as loaded data.

	ORIC	A Home	e Site M	ly Account	t Sign-out									Search [				
-	Site Map				ments Image	s Videos												
B2021	Details N	Measures   Bla	st plan Ho	le tal e Lo	ading Invent	ory Timing	Job Pack	Docum	ents   Ima	ges Vide	05							
Download Q Row	csv All rov R Row S	ws Row A Row T	Row B	Row C	ROW D ROW I	Row F	Row G	Row H	Row I	Row J	Row K	Row L	Row M	Row N	Row (	O Row	P Row	
A01	A02 A0	13 A04	A05	A06	A07 A08	A09	A10	A11	A12	A13	B01	B02	B03	B04	B05	B06	B07	B08 ,
									ľ	ľ	ľ.	ľ.			ľ		I	
<														-				>
Show p	product name	5					_											
			D	eck 1														
iole Id∆		Horizon (m)			Weight (kg)													
A01	Designed 4.3	Dipped	Variance	Designe 368.		Variance												
A02	4.3			447.		0.0												
A03	4.7			447.		0.0												
A04	4.7			407.		0.0												
A05	4.7			482.		0.0												
A06	4.7			482.		0.0												
A07	4.7			510.		0.0												
A08	4.7			514.		0.0												
A09 A10	4.7			514.		0.0												
A10	4.7			490.		0.0												
A12	4.7			475.		0.0												
	4.7			502.		0.0	1											
A13																		
A13 B01	4.7			506.	7 506.7	0.0												

7. Select **Inventory** to display the product list used in the design for that blast.

ORICA Home Site My Account Sign-out	Search							
Overview Site Map Blasts Performance Documents Images Videos								
B2021         Details         Measures         Blast plan         Hole table         Loading         Inventory         Iming         Job Pack         Documents         Images         Videos           Site Demonstration Mine 1         1<								
Inventory	Design Total	Actual Total						
Initiators (items)								
Exel Enduradet 18m, #15 600ms	115.0							
Exel Enduradet 24m, #15 600ms	237.0							
Exel Enduradet 12m, #15.5 650ms	159.0							
Exel Connectadet 12m, #100 100ms	780.0							
Exel Connectadet 12m, #065 65ms	42.0							
Exel Connectadet 12m, #017 17ms	23.0							
Exel Enduradet 12m, #15 600ms	125.0							
Exel Enduradet 15m, #15 600ms	495.0							
Exel Connectadet 9m, #025 25ms	13.0							
Exel Connectadet 12m, #175 175ms	56.0							
Exel Enduradet 9m, #15 600ms	15.0							
Primers (items)								
Pentex Booster, Pentex PP P	1146.0							
Explosives (kg)								
ANFO, 0.80	237,358							
Flexigel Advantage 100, 1.00	115,124							
ANFO 0.8		237,358						
Flexigel Advantage 100		115,124						
Explosives - Total (kg)	352,482	352,482						
Stemming (m <sup>2</sup> )								
Stemming, 2.50	192							
Stemming		193						
Drills (m)								
User defined, 251.0	12080.2							

## 8. Select **Timing** to display the firing times (in milliseconds) for the blast.



- 9. Select **Job Pack** to display the job pack details related to that blast:
  - Approvals
  - Designs and Calculations
  - Survey Data
  - SHOTPlus Data

	RI	Home Site My Account Sign-out	Search				
Overview	Site M	ap Blasts • Performance Documents Images Videos					
B2021	Detail	Measures Blast plan Hole table Loading Inventory Timin Job Pack Documents Ima	iges Videos				
	Appr	ovals					
	$\mathbf{\Sigma}$	Approved for Drilling	Updated 16/07/2015 11:49 AM by Scott Feeney	٠			
		Drilling Risk Assessment has been completed - JSERA 2735	Comment by Scott Feeney				
		Approved for Loading	۲				
		Approved for Firing		۲			
	Desi	and Calculations					
		Pattern Design Calculation Sheet		٠			
	Surv	ey Data					
	$\mathbf{V}$	Bench Surface Survey	Updated 16/07/2015 12:15 PM by Scott Feeney				
	SHO	Plus Data					
		Blast Survey Plan					
	$\mathbf{\Sigma}$	Blast Plan View					
	$\mathbf{\Sigma}$	Loading Data Sheet					
	$\mathbf{\mathbf{V}}$	Dipping Data Sheet					
		Design Evaluation					
		Design					
	$\mathbf{V}$	Load Quantities					
	$\mathbf{\nabla}$	Timing Design					
			Job pack template last updated 10/07/2015 10:02 AM by Austin	Turner			

10. Select **Documents** to display the documents related to that blast.

21 Details Measures Blast	plan   Hole table   Loading   Inventory   Timing   Job Pac   De	ocuments mages	Videos			
B2021	Name	Version	Size (kb)	Uploaded	Uploader	Action
- Survey Files	B2021.spf		1 576.9	14/07/2015 3:02:16 PM	Scott Feeney	10
	CommsPlus Gunnedah Nov 2012 011.JPG		1 3743.5	17/07/2015 11:30:50 AM	Scott Feeney	10
	CommsPlus Gunnedah Nov 2012 015.JPG		1 3842.9	17/07/2015 11:30:50 AM	Scott Feeney	10
	CommsPlus Gunnedah Nov 2012 017.JPG		1 3352.7	17/07/2015 11:30:51 AM	Scott Feeney	10
	P8050128.AVI		43677.6	17/07/2015 11:48:30 AM	Scott Feeney	
	5					

11. Select **Images** to display the images related to that blast.

ORICA Home Site My Account Sign-out	Search	
Overview Site Map Blasts Performance Documents Images Videos		
B2021       Details       Messures       Blast plan       Hole table       Loading       Inventory       Timing       Job Pack       Docume(s       Images       Upos		
Items 1 to 3 of 3 Filter		
From To		

12. Select **Videos** to display the videos related to that blast.

Reference Home Site My Account Sign-out	Search
Overview         Site Map         Blasts         Performance         Documents         Images         Videos           B2021         Details         Measures         Blast plan         Hole table         Loading         Inventory         Timing         Job Pack         Documents         Videos	
Items 1 to 1 of 1 Note that recently uploaded videos must first be processed before they appear in the results. This can take a few minutes.	
Filter	
From To	

## 4.6 VIEWING THE SITE PERFORMANCE

**Site Performance** allows you to view site Key Performance Indicators (KPIs) and Environmental performance.

1. Select the **Performance** tab.

20		ome Site My Acc	ount Sign-out	Search
Overview	Site Map Blasts	Performance	Documents • Images	Videos
Demonst Download R	tration Mine 1 MIs	KPIs Environmenta	ls	
Name	Fired On	State	Excavator E05 Dig Rate (tne/hr)	
H2130		Designed		
82021		Designed	3000	
UAT_Test01		Designed		
ALISON 9 PS	5	Released for load	ing	
ALISON 8		Released for load	ing	
ALISON 6		Released for load	ling	

KPIs are displayed as the default.

To download the KPIs:

2. Select **Download KPIs**.

<b>N</b> O	RICA Hor	ne <mark>Site</mark> My Acc	ount Sign-out
Overview Si Demonstration Download KPIs		Performance KPIs Environmenta	Documents Images
Name	Fired On	State	Excavator E05 Dig Rate (tne/hr)
1104.00		Deelen ad	

3. Select Save.

Do you want to open or save Performance.csv from blasttracktest.orica.com?	Open 🄇	Save	)	Cancel	×
					1



The above screenshot is from Internet Explorer 10. File opening and saving may differ for other browsers.

The file can be opened now, or the dialog box can be closed:

4. Select X.

The Performance.csv download has completed.	Open	-	Open folder	View downloads	×

The KPI data can be filtered for a selected date window.

5. Scroll down to the bottom of the **KPIs** page by holding the scroll bar or selecting the arrow.

Overview Site Demonstrati	e Map Blasts *	Performance Doo	uments [Images]
Name	Fired On	State	Excavator E05 Dig Rate (trie/fir)
H2130		Designed	
82021		Designed	3000
UAT_Test01		Designed	
ALISON 9 PS		Released for loading	
ALISON 8		Released for loading	
ALISON 6		Released for loading	
BEN01		Released for loading	
ALISON10 TSB		Released for loading	
BEN TEST 02		Created	
Demonstration_C	04	Closed	
DENNOHOLES		Released for loading	
DENNEW		Released for loading	
AAFIRST		Released for loading	
CAN2745 TSB		Released for loading	
ALISON 12		Released for loading	
ALISON 11		Created	
AASECOND		Released for loading	
AATHERD		Released for loading	
BEN NLOCK		Released for loading	
BEN 4 DECK		Released for loading	
BENCFEX		Released for loading	
WMS 2528 R1		Released for loading	
HUS 1841 R4	30/10/2015	Closed	
MC 24 EG EAST	1/11/2015	Closed	
HUN2335T		Loading	

- 6. Select the **Fired After** date, **Fired Before** date and **Blast Type** using the drop down arrows.
- 7. Select **Filter**.

Filter		
Fired After	Blast Type	
Fired Before		Ū
Filter		

The data for the selected window (only) will be displayed. 8.

		e Map 🛛 Blasts •	Performance	Documents Images	Videos
	Demonstrati	on Mine 1	<b>KPIs</b> Environmen	Itals	
	Name	Fired On	State	Excavator E05 Dig Rate (tne/hr)	
	MC 24 EG EAST	1/11/2015	Closed		
	RXS 22 R56	1/11/2015	Closed		
	HUN 21 ET	1/11/2015	Closed		
	<				
	Filter				
	Fired After	B	Blast Type		
	1/11/2015	$\sim$	All		~
	Fired Before				
	30/11/2015	$\checkmark$			
	Filter				
ndivi	idual blasts can b	e viewed.			

	Overview       Site Map       Blasts       Performance       Documents       Images       Videos         Demonstration Mine 1       KPIs       Environmentals         Download KPIs       Environmentals       Environmentals								
	Name	Fired On	State	Excavator E05 Dig Rate (tne/hr)					
$\triangleleft$	MC 24 EG EAST	1/11/2015	Closed						
	RXS 22 R56	1/11/2015	Closed						
	HUN 21 ET	1/11/2015	Closed						
	<								

10. Details relating to the blast are displayed.

	A Here Cite M	y Account Sign-out	Search	
	Home Site M	y Account Sign-out		
Overview Site Map	Blasts • Performant	e Documents Images Videos		
MC 24 EG EAST Site Demonstration Min		e table   Inventory   Job Pack   Documents   Images   Vide	105	
Details		Name:	MC 24 EG EAST	
Blast 00000000-00 Type: 0000000000	000-0000-0000-	Customer reference: Description:	MC 24 EG EAST	
Job pack 0% comple				
Timeline		Notes		
$\rightarrow$ $\rightarrow$ $\rightarrow$ $\rightarrow$	Closed	(none)		
Created:	1/12/2015	Blast properties		
Survey completed:		Number of holes:		
Design completed:		Number of holes:		
Released for loading:				
Loading commenced:	14/10/2015			
Loading completed:				
Firing time:	1/11/2015			
Environmental comp	pliance			
No recorded PPV values No recorded air blast val	ues			
LoadPlus				
LoadPlus Id	MC 24 EG EAST			
Created by	LoadPlus			
Design values	LoadPlus			
Loading data	LoadPlus			
Last update	1/12/2015 3:15 PM			

11. Each field can be viewed as described in Section 4.5.1 Individual Blast Information.

The Environmental performance of the site can be viewed.

1. Select Environmentals.

Home Site My Account Sign-out						
Overview Site Map Blasts • Performance Documents Images						
Demonstration Mine 1         KPI         Environmentals           Download Airblast         Download Vibration						
Vibration Maximum View as chart V Show All V						
6.85						

Under the **Vibration** heading, the Viewer can select between:

2. The **Maximum** vibration recorded or a particular monitoring point.

Vibration	Maximum	View as chart 🗸	Show All	1
	Environmental 01			_

3. The display type, **chart** or **table**.

Vibration	Maximum	~	View as chart	Show All	$\checkmark$
			View as table		

4. The timeframe to be displayed: **Show All**, **Last 90 days** or **Last 30 days**.

Vibration	Maximum	Vie Vie	ew as chart 🕚	
			1	Last 90 days
6.85				Last 30 days

Under the **Airblast** heading, the Viewer can select between:

5. The **Maximum** airblast recorded or a particular monitoring point.



6. The display type, **chart** or **table**.

Airblast Maximum		Show All	~
	 View as table		

7. The timeframe to be displayed: Show All, Last 90 days or Last 30 days.

Airblast Maximum	✓ View as chart ✓	Show All
		Last 90 days
-		Last 30 days

#### To download the **Airblast** data:

8. Select **Download Airblast**.

ORICA	Home	Site	My Accoun	t Si
Overview Site Map Blas	sts • P	erforn	nance Doct	uments
Demonstration Mine 1	. KPIs	Envi	ronmentals	
Download Airblast Downloa	ad Vibratio	n		

9. Select Save.

Do you want to open or save <b>airblast.csv</b> from <b>blasttracktest.orica.com</b> ?	Open Save Cancel X
the dialog box: Select <b>X</b> .	
The airblast.csv download has completed.	Open 🔻 Open folder View downloads 🗙

To download the **Vibration** data:

11. Select Download Vibration.



#### 12. Select Save.

Do you want to open or save <b>vibration.csv</b> from <b>blasttracktest.orica.com</b> ?	Open Save Cancel X
e the dialog box:	
Select X.	
The vibration.csv download has completed.	Open 🔻 Open folder View downloads 🗙
	e the dialog box: Select <b>X</b> .

# 4.7 VIEWING THE SITE DOCUMENTS

All **Documents** associated with the site, including previous versions of files, can be viewed and/or downloaded from here.

1. Select the **Documents** tab.

ORICA Home Site	My Account Sign-out			Search		
erview Site Map Blasts • Perform emonstration Mine 1	ance Documents Images Video	s				
Demonstration Mine 1	Name	Version	Size (kb)	Uploaded	Uploader	Actions
⊕ Blasts	B2021 Bench Survey.dxf	1	0.0	28/07/2015 11:48:15 AM	Scott Feeney	<b>R</b> 3
- Site Document Templates	Show all file versions					

2. Select the **Download** icon next to the required file.

	ite My Account Sign-out		Se	arch
verview Site Map Blasts • Perf	ormance Documents Images Vide	os		
Demonstration Mine 1	Name	Version Size (Id	) Uploaded	Uploader Motions
Blasts	B2021 Bench Survey.dxf	1	0.0 28/07/2015 11:48:15 AM	Scott Feeney
<ul> <li>Site Document Templates</li> </ul>	Show all file versions			$\cup$
Temporary Files				

#### 3. Select Save.

4.

Do you want to open or save <b>B2021 Bench Survey.dxf</b> from <b>blasttracktest.orica.com</b> ?	Open Save Cancel X
Close the dialog box.	
The B2021 Bench Survey.dxf download has completed.	Open   Open folder View downloads   X

Previous versions of the document/s can be viewed also.

5. Place a tick in the **Show all file versions** box.

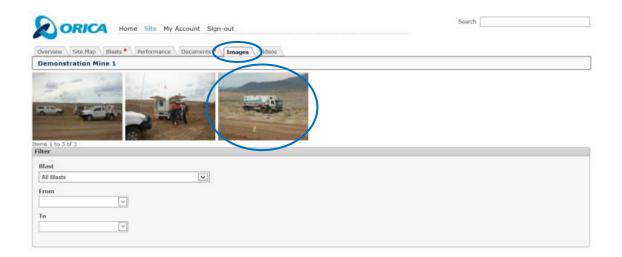
In the screenshot example there are no previous versions, so only the current version is being displayed.

Rome Site My Account Sign-out			Search		
Overview \Site Map Blasts Performance Documents Images Videos Demonstration Mine 1					
Demonstration Mine 1	Version	Size (kb)	Uploaded	Uploader	Actions
Blasts     Site Document Templates     Temporary Files	1	0.0	28/07/2015 11:48:15 AM	Scott Feeney	

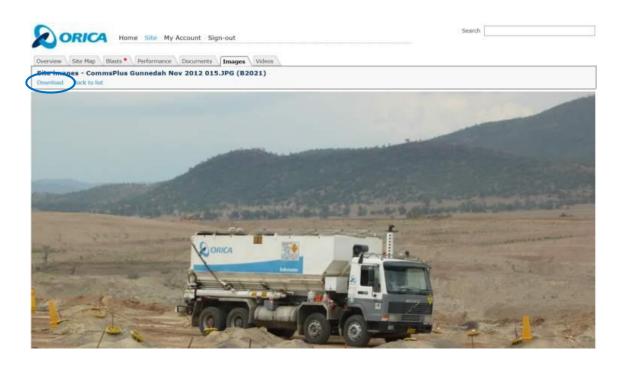
## 4.8 VIEWING THE SITE IMAGES

All Images associated with the site can be viewed and/or downloaded from here.

- 1. Select the **Images** tab.
- 2. Select the image to view by 'clicking' it.



3. To download the image, select **Download**.



4. Select Save.

Do you want to open or save CommsPlus Gunnedah Nov 2012 015.JPG (3.75 MB) from blasttracktest.orica.com?

Open Save Cancel X

5. Close the dialog box.

The CommsPlus Gunnedah Nov 2012 015 JPG download has completed.	Open 🔻 Open folder View downloads	×
1		

6. To return to the **Images** starting page, select **Back to list**.

RICA Home Site My Account Sign-out	Search
Overview Sitte Map Blasts Performance Documents Images Videos	
Site images CommusPlus Gunnedah Nov 2012 015.JPG (B2021) Downland Back to list	
and the second	

7. A Filter is available for the *Viewer* to select the **Blast**, date **From** and date **To** fields.

Filter			
Blast All Blasts			
	~		
From V			
To			

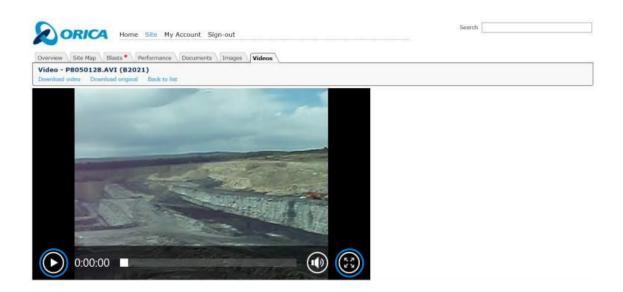
## 4.9 VIEWING THE SITE VIDEOS

All Videos associated with the site can be viewed and/or downloaded from here.

- 1. Select the **Videos** tab.
- 2. Select the video to view by 'clicking' it.

ORICA Home Site My Account Sign-out	Search
Overview Site Map Blasts Performance Documents Vinnage Videos	
Demonstration Mine 1	
Items 1 to 1 of 1 Not that recently uples to videos must first be processed before they appear in the results. This can take a few minutes.	
Filter	
Filter Blast All Blasts	
Blast	

- 3. To view the video, select the  $\blacktriangleright$  (play) icon.
- 4. To make the video full screen, select the maximise icon.

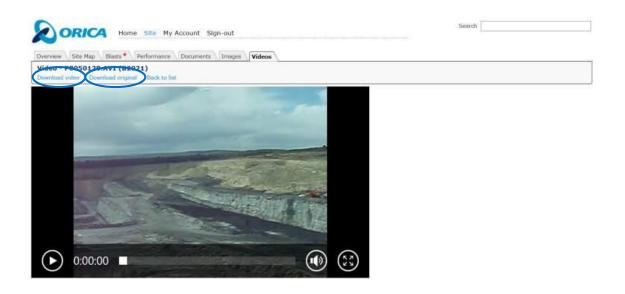


To view the video online (outside the BlastIQ system):

5. Select **Download video**.

To download the video,

6. Select **Download original**.



7. Select Save.



8. Close the dialog box.

The P8050128.AVI download has completed.	Open	•	Open folder	View downloads	×

9. To return to the **Videos** starting page, select **Back to list**.

ORICA Home Site My Account Sign-out	Search
Overview Site Map Blasts Performance Documents Images Videos Video - P8050128.AVI (B2021) Download video Download original Back to list	
and the second se	

10. A Filter is available for the *Viewer* to select the **Blast**, date **From** and date **To** fields.

ter	
last VI Blasts	
rom V	
o 	

# 5 USING BLASTIQ AS A CONTRIBUTOR

Section Revision: 0

Revision Date: November 2015

### 5.1 OVERVIEW

**Contributors** may view all blasting information restricted by the confidentiality provisions and add new documents to a site.

**Contributors** are able to perform all tasks from:

• Section 4 USING BLASTIQ AS A VIEWER

## 5.2 UPLOADING DOCUMENTS AND FILES

The Contributor is able to upload documents and files.

#### 5.2.1 Uploading a Document from the Overview Tab

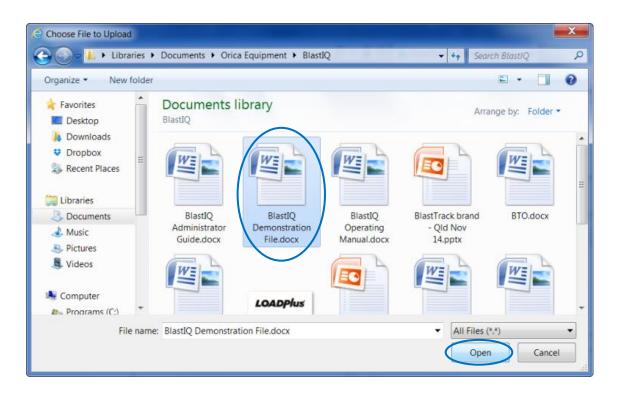
- 1. Select the **Overview** tab.
- 2. Select **Upload Document**.

Overview Site Map		e Docun	nents Images	Videos						
Demonstration Mine	e 1									
Actions menu		Blasting	Timeline					Monitoring poin	nts (POI)	Table
Upload Document								Environmental 01		
Site user access					Ŧ			Open Blasts		
Alain Silic	Orica	Ref La Provincia de la Provinc	September 15	October 15		December 15		0	AAFIRST	
Ben Wynn	Orica	ist 15	September 15	October 15	November 15	December 15	January	0	AASECOND	
Geoff Stevenson	Orica	<					>	0.000	AATHIRD	
hung.chau@orica.com	Orica	Blasting	descriptors imp	lemented					ALISON 11	
Konrad Schmidt	Orica	Blast Typ			categorized as per s	ite nrocedure		0	ALISON 12	
mark.irving@adapa.com.au					caregorized as per s	nee processings			ALISON 13	
Rachel Purdie	Orica	Blasting	measures imple	mented				0	ALISON 13	
Rohan Stevens	Orica	Excavator	E05 Dig Rate	Dig rate for Hitag	hi 3500 number EX0	5.			ALISON 6	
Scott Feeney	Orica	(tne/hr)						0	ALISON 8	
and reacted		Recent	Activity					0	ALISON 9 PS	
oadPlus		15/12/20	15 - Blast TS8 creat	ed by Loadplus				0	ALISON STRATA	
oadPlus site name		10/12/20	15 - Blast REF2 crea	ted by Loadplus				0	ALISON TSB2 .	
LoadPlus updates	Active	10/12/20	15 - Blast REFR1 cre	ated by Loadplus				0	ALISON10 TSB	
last update	15/12/2015 2:38 PM	9/12/201	5 - Blast ALISON TS	B2 created by Load	plus			0	ALISON14	
Next update	15/12/2015 2:53 PM	9/12/201	5 - Blast ALISON ST	RATA created by Lo	adplus			0	82021	
Last product update	15/12/2015 9:01 AM	more.,						0	BAYSSP01	
	The blast association is							0	BEN 4 DECK	
System status	invalid 15/12/2015							0	BEN NLOCK	
	2:37 PM							0	BEN TEST 02	
								0	BEN01	
File transfer folder	Full details							0	BENCETX	
BlastTrack Technical Field Guide.docx	13/11/2015 🔀							0	BENNEW	
ourse, ours								0	BENNOHOLES	
Jpload File								0	CAC2649BR	
		e						0	CAN2745 TS8	
									H2130	
								0	HUN2335T	
								0	HUN2738RL70	
								0	MCW 2508 BA	
								0	REF2	
								0	REFRI	
								0	TEST01	
								0	TS8 •	
								A PARTY OF	UAT_Test01	

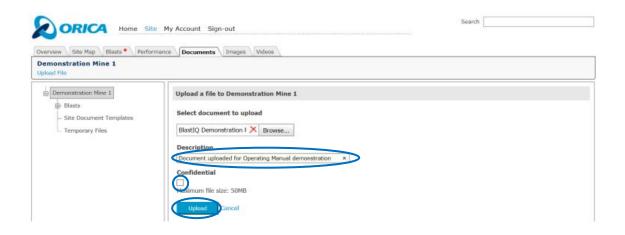
- 3. The system goes to the **Documents** area for the site.
- 4. Select Browse...

ORICA         Home         Site           Overview         Site Map         Blasts         Performan           Demonstration Mine 1         Upload File         Upload File		Search
Demonstration Mine 1 Blasts - Site Document Templates - Temporary Files	Upload a file to Demonstration Mine 1 Select document to upload Browse Description Confidential Maximum file size: 50MB Upload Cancel	

- 5. Locate the document to upload.
- 6. Select the file (it will become highlighted).
- 7. Select **Open**.



- 8. If required, enter a document description (optional).
- 9. If required, make the document **Confidential** by selecting the box (optional).
- 10. Select **Upload**.



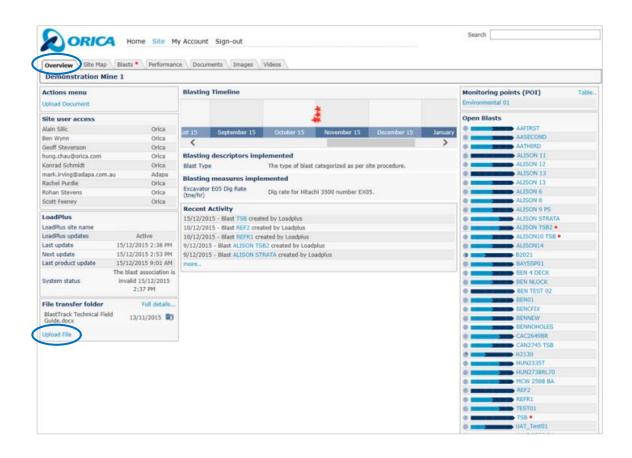
11. Successfully Uploaded message is displayed.

ORICA Home Site My Account Sign-out	Search
Overview         Site Map         Blasts *         Performance         Documents         Images         Videos           Demonstration         Mine 1         Upload File         Upload File <t< th=""><th></th></t<>	
BlastIQ Demonstration File.docx was successfully uploaded.	

### 5.2.2 Uploading a File from the Overview Tab

**Upload File** is used for larger files. They are only temporarily stored. This allows users to transfer large files between themselves, to save outside the system.

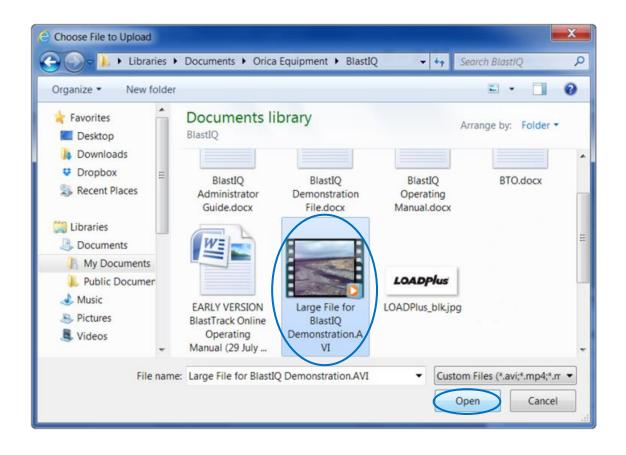
- 1. Select the **Overview** tab.
- 2. Select **Upload File**.



#### 3. Select Browse...

Demonstration Mine 1 temporary files	×
Select document to upload	
Browse	)
Description	
Confidential	
Maximum file size: 50MB	
Upload Cancel	

- 4. Locate the document to upload.
- 5. Select the file (it will become highlighted).
- 6. Select **Open**.



- 7. If required, enter a document description (optional).
- 8. If required, make the document **Confidential** by selecting the box (optional).
- 9. Select Upload.

C	Demonstration Mine 1 temporary files	X
	Select document to upload	
	Large File for BlastIQ De Korse	
<	Description Large AVI file upload for guide demonstration ×	
	Confidential	
	Maximum file size: 50MB	
	Upload Cancel	

10. Successfully Uploaded message is displayed.

Home Site My Account Sign-out	Search	
Overview         Site Map         Blasts *         Performance         Documents *         Images         Videos           Demonstration Mine 1         1		
Actions menu Upload Document Upload Document Upload Document	Monitoring points (POI) Environmental 01	Table

# 5.3 UPLOADING A FILE IN DOCUMENTS

Contributors can **Upload Files** from the **Documents** tab.

1. Select the **Documents** tab.

Overview     Site Map     Blasts • Performance     Documents • Images     Videos •							
Demonstration Mine 1 Upload File							
Demonstration Mine 1	Name	Version	Size (kb)	Uploaded	Uploader	Actions	
Blasts	B2021 Bench Survey.dxf	1	0.0	28/07/2015 11:48:15 AM	Scott Feeney	1	
- Site Document Templates	BlastIQ Demonstration File.docx	1	55.7	15/12/2015 3:21:10 PM	Scott Feeney	<b>1</b> 0	
- Temporary Files	Show all file versions						

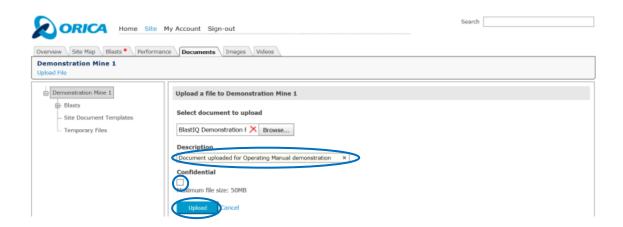
2. Select Browse...

Overview Site Map Blasts Performan	
Demonstration Mine 1 Upload File	
Demonstration Mine 1 Blasts Site Document Templates Temporary Files	Upload a file to Demonstration Mine 1 Select document to upload Browse Description Confidential Maximum file size: 50MB Upload Cancel

- 3. Locate the document to upload.
- 4. Select the file (it will become highlighted).
- 5. Select **Open**.



- 6. If required, enter a document description (optional).
- 7. If required, make the document **Confidential** by selecting the box (optional).
- 8. Select Upload.



9. Successfully Uploaded message is displayed.

Home Site My Account Sign-out	Search					
Overview Site Map Blasts Performance Documents Images Videos Demonstration Mine 1 Upload File						
BlastIQ Demonstration File.docx was successfully uploaded.						

# **6** USING BLASTIQ AS AN EDITOR

Section Revision: 0

Revision Date: August 2015

#### 6.1 OVERVIEW

Editors may view and edit all blasting information at a site subject to the confidentiality provisions.

Editors are able to perform all tasks from:

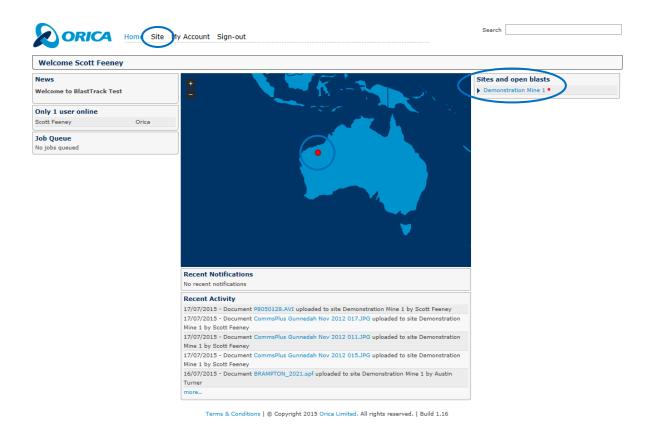
- Section 4 USING BLASTIQ AS A VIEWER
- Section 5 USING BLASTIQ AS A CONTRIBUTOR

**Editor** access is recommended for most users at a site that are involved in the blasting process, such as Engineers, Supervisors, Shotfirers and Surveyors.

#### 6.2 EDITING SITE INFORMATION

Access to sites on BlastIQ is available in three ways:

- Selecting the site hyperlink listed under Sites and open blasts
- Selecting the appropriate **red dot** (site location) on the map
- Selecting Site / site name



Printed copy may not be the latest revision

## The site homepage is displayed.

	Home Site M			/ideos \				Search	
Actions menu		Blasting	Timeline					Monitoring points (POI)	Table
Create blast								Environmental 01	
View points of interest								Open Blasts	
Upload Document								No open blasts	
Perform vibration modeling		rch 15	April 15	May 15	June 15	July 15	August	No open biasa	
Site user access		<					>		
Rachel Purdie	Orica	Blasting	descriptors imp	lemented					
Scott Feeney	Orica	Blast Type		The type of blast	categorized as per si	te procedure.			
File transfer folder	Full details	Blasting	measures impl	emented					
No recent uploads		Excavator (tne/hr)	E05 Dig Rate	Dig rate for Hitac	hi 3500 number EX0	5.			
Upload File		Recent A	ctivity						
		13/07/201	5 - New POI Enviro	onmental 01 added t	o site Demonstration	Mine 1 by Rachel	Purdie		
		10/07/201	5 - Map layer CB_I	EXTENTS updated D	emonstration Mine 1	by Rachel Purdie			

# 6.3 CREATING AND EDITING POINTS OF INTEREST

Points of interest describe any point or feature that needs to be noted on the site map. These can be:

- Facilities (offices, processing plant, sensitive structures)
- Survey stations
- Environmental monitors

If the site manager has enabled "Environmental monitoring" in **Optional Features** (see Section 7.2.2), environmental monitors must be defined as points of interest to display data.

# 6.3.1 Uploading Points of Interest from a SHOTPlus5<sup>™</sup> File

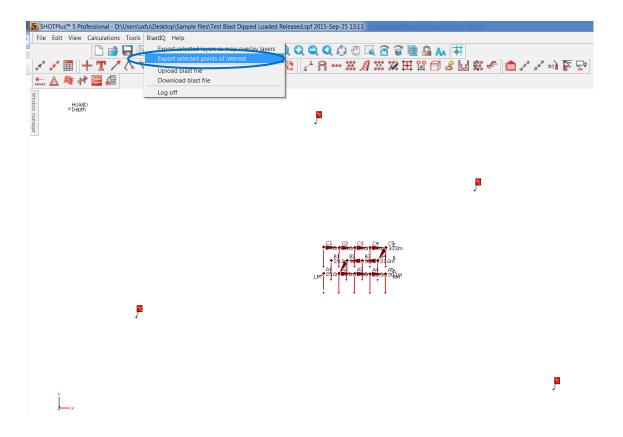
Points can be added to a SHOTPlus5<sup>™</sup> file and then exported into BlastIQ as a .poi file.

- 1. Open a SHOTPlus file in the location of the site.
- 2. Add points of interest using  $\square$ . Label points using  $\square$ .

For environmental monitors use 🔀 .

Image: Wideling of the edit window to add a vibration monitoring point         Click on the edit window to add a vibration monitoring point	<b>8</b>
	2
ja J	
Y	particular de la constante de

3. Select all points and click **BlastIQ / Export selected points of interest**.



4. Save the .poi file in the appropriate folder.

Export POI list	private + tec_team + TEC_AMS + Blasting	Applications > Demonstra	tion Mine		✓ 4 Search D	amonstration Hine	
		g_Applications    Demonstra	stion Mine		• ••• Search Di		100
Organize 🔻 Ne	w folder					8≡ ▼	0
🚖 Favorites	Name	Date modified	Туре	Size			
🧮 Desktop	Demonstration Mine POI.poi	20/07/2015 10:00	POI File	1 KB			
🔰 Downloads							
Recent Places							
🕌 Google Drive							
🔰 Libraries							
Documents							
J Music							
Pictures							
Videos							
Computer							
🏭 Programs (C:)							
👝 Data (D:)							
📥 ADATA UFD (B							
🚽 shared (\\auyr							
🖵 rpurdie\$ (\\au							
🖵 temp (\\auyrv	a02) (1						
陣 Network							
File name:	Demonstration Mine POLpoi						
Save as type:	BLIS data POI (*.poi)						
Hide Folders					Save	Cance	el 👘

5. From the site overview page, select **View points of interest.** 

	Search						
Overview Site Map Blasts Performance Demonstration Mine 1 Manage user access Configuration View aud	)	ts \ Images \ Vi	deos \Site admin				
Actions menu Create block View points of interest Voload Document	Blasting	Timeline					Open Blasts No open blasts
Perform vibration modeling News	arch 15	April 15	May 15	June 15	July 15	August	
There is no news to display           Site user access           Rachel Purdie         Orica	Blasting Blast Type	descriptors imp measures imple	The type of blast ca	ategorized as per sit	te procedure.		
File transfer folder         Full details           No recent uploads         Full details	(tne/hr)		Dig rate for Hitachi				
Upload File	10/07/201	5 - Map layer CB_E	XTENTS updated Den	nonstration Mine 1 b	oy Rachel Purdie		

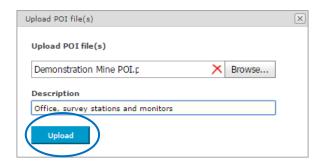
6. If points of interest have been defined in a SHOTPlus5<sup>™</sup> file, select **Upload Points of Interest.** 

	Home Site M	ly Account Sign-out				Search	
Overview Sit							
Points of Interes	t						
Name	Description	Location	Elevation	Туре	Date created	Created by	Actions
			No data	a to display			

## 7. Browse for the saved .poi file.

Upload POI file(s)	×
Upload POI file(s)	$\frown$
Bro	owse
Description	
Upload	

#### 8. Add a description if required and click **Upload.**



The points will now be displayed in list form.

9. Change the **Type** of point by clicking on the **Name**.

	A Home Site M	y Account Sign-out			Search Site	Demonstration Mine 1	
Overview Site Map	N N N	ce Oocuments • Images	• Videos • S	Site admin			
Demonstration Mi Create point of interest		f Interest Return to site ove	erview				
Successful u	ipload completed						
oints of Interest				_			
ame	Description	Location	Elevation	Type	Date created	Created by	Actions
	Description	22.3256°S 119.3897°E	0.0 m	Type Environmental monitor	Date created 13/07/2015 2:50:47 PM	Created by Rachel Purdie	Actions
vironmental 01	Description						1
vironmental 01 vironmental Monitor	Description	22.3256°S 119.3897°E	0.0 m	Environmental monitor	13/07/2015 2:50:47 PM	Rachel Purdie	6
vironmental 01 vironmental Monitor	Description	22.3256°S 119.3897°E 22.3055°S 119.4139°E	0.0 m 500.0 m	Environmental monitor Facilities	13/07/2015 2:50:47 PM 20/07/2015 10:37:55 AM	Rachel Purdie Rachel Purdie	
wironmental 01 wironmental Monitor wironmental Monitor wironmental Monitor	Description	22.3256°S 119.3897°E 22.3055°S 119.4139°E 22.3808°S 119.4098°E	0.0 m 500.0 m 0.0 m	Environmental monitor Facilities Facilities	13/07/2015 2:50:47 PM 20/07/2015 10:37:55 AM 20/07/2015 10:37:55 AM	Rachel Purdie Rachel Purdie Rachel Purdie	1
wironmental 01 wironmental Monitor wironmental Monitor wironmental Monitor	Description	22.3256°S 119.3897°E 22.3055°S 119.4139°E 22.3808°S 119.4098°E 22.3594°S 119.3392°E	0.0 m 500.0 m 0.0 m 500.0 m	Environmental monitor Facilities Facilities Facilities	13/07/2015 2:50:47 PM 20/07/2015 10:37:55 AM 20/07/2015 10:37:55 AM 20/07/2015 10:37:55 AM	Rachel Purdie Rachel Purdie Rachel Purdie Rachel Purdie	
lame nvironmental 01 nvironmental Monitor nvironmental Monitor urvey Station liffice urvey Station	Description	22.3256°S 119.3897°E 22.3055°S 119.4139°E 22.3808°S 119.4038°E 22.3594°S 119.3392°E 22.3224°S 119.4334°E	0.0 m 500.0 m 0.0 m 500.0 m 0.0 m	Environmental monitor Facilities Facilities Facilities Facilities	13/07/2015 2:50:47 PM 20/07/2015 10:37:55 AM 20/07/2015 10:37:55 AM 20/07/2015 10:37:55 AM 20/07/2015 10:37:55 AM	Rachel Purdie Rachel Purdie Rachel Purdie Rachel Purdie Rachel Purdie	

10. Click on the **Edit** icon next to **Details.** 

		y Account Sign-out		Search	
		y Account Sign-out		Site	Demonstration Mine 1
Overview	Site Map Blasts • Performant	ce \ Documents • \ Images • \ Vi	ideos • Site admin		
View point	of interest details - Survey	/ Station			
-	-	erview Apply current limits to histor	rical data		
Details		lotes		Ø	
Name:	Survey Station				
Туре	Facilities				
Location:	22.3531°S 119.3824°E				
Elevation:	0.0 m				
Easting:	745352.9 m				
Northing:	7526149.4 m				
Created by:	Rachel Purdie				
Date created:	20/07/2015				
AVM configur	ration 🥒				
Not available					
NCVIB	Ø				
Not available					

11. Change the **Type** of point from the drop down list.

Edit	×
Name	
Survey Station Description	
Specified by survey coordinates	
Latitude	
22.35309S	
Longitude	
119.38242E	
Elevation (m)	
0.0	
Туре	
Facilities 🔹	)
Environmental monitor	
Survey Station Facilities	

The points will now be visible on the site map. They may be hidden or shown using the tick boxes.



## 6.3.2 Creating Points of Interest in BlastIQ

1. From the site overview page, select View points of interest.

	ite M	y Account	Sign-out					Search
Overview Site Map Blasts Perfe	rmance	Document	ts Images Vi	deos Site admin				
Demonstration Mine 1 Manage user access Configuration V	ew audi	t log						
Actions menu		Blasting 1	Timeline					Open Blasts
Create blact View points of interest								No open blasts
Upload Document Perform vibration modeling		arch 15	April 15	May 15	June 15	July 15	August	
News	Ø	4					÷.	
There is no news to display		-	descriptors imp					
Site user access		Blast Type		The type of blast c	ategorized as per si	te procedure.		
Rachel Purdie Orica		-	measures imple	mented				
File transfer folder Full d	etails	Excavator E (tne/hr)	E05 Dig Rate	Dig rate for Hitachi	3500 number EX05	i.		
No recent uploads		Recent A	ctivity					
Upload File		10/07/2015	6 - Map layer CB_E	KTENTS updated Den	nonstration Mine 1	oy Rachel Purdie		

2. To create a point of interest, select Create point of interest (POI).

20		My Account Sign-out				Search	
		ce Documents Imag					
Name	Description	Location	Elevation	Туре	Date created	Created by	Actions
			No dat	a to display			

3. Enter in the point **Name** and **Description**. By default it will prompt for coordinates in Latitude/Longitude, however this can be changed to easting/northing by selecting the tick box **Specified by survey coordinates**.

Select the **Type** of point from the drop down box as either **Environmental monitor**, **Survey station**, or **Facilities**.

- **Environmental monitor** will prompt for additional information when editing (see Section 6.3.3).
- Survey station are for display only on the map
- **Facilities** is used for sensitive structures, and every blast that is created will calculate its distance to each facility.

N -	ame
	111E
De	escription
L	
	Specified by survey coordinates
La	atitude
Lo	ongitude
L	
E	evation (m)
	ype
-   E	Environmental monitor

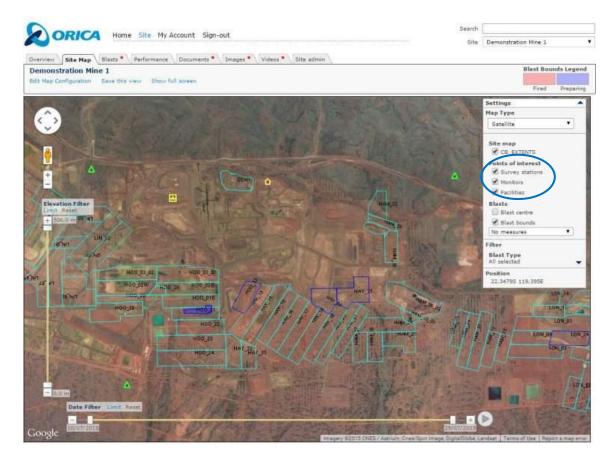
4. Once information has been entered, select **Update**.

Edit	×
Name Environmental 01	
Description	
Specified by survey coordinates	
Latitude	
22.325585	
Longitude	
119.38968E	
Elevation (m)	
0.0	
Туре	
Environmental monitor	
Update Cancel	
	Name Environmental 01 Description Specified by survey coordinates Latitude 22.325585 Longitude 119.38968E Elevation (m) 0.0 Type Environmental monitor

5. Points of interested are then added in list form.

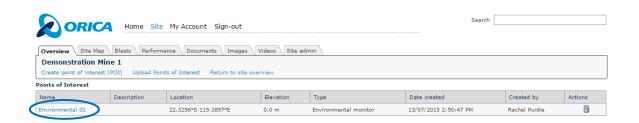
	Search						
Overview Site Map	Blasts Performa	nce Documents Images V	/ideos Site adn	nin			
Demonstration Min	e 1						
Create point of interest (	POI) Upload Point	s of Interest Return to site over	view				
Points of Interest							
Name	Description	Location	Elevation	Туре	Date created	Created by	Actions
Environmental 01		22.3256°S 119.3897°E	0.0 m	Environmental monitor	13/07/2015 2:50:47 PM	Rachel Purdie	iii

The points will now be visible on the site map. They may be hidden or shown using the tick boxes.



### 6.3.3 Configuring Environmental Monitors

1. View details and edit a point of interest by clicking on the **Name**.



2. Select the edit icon next to **Environmental monitoring**.

<b>NOR</b>	RICA Home Site I	Search							
Overview	ite Map Blasts Performan	e Documents Images	Videos Site admin						
	View point of interest details - Environmental 01								
-			nits to historical data Download Airblast Download Vibrati	on					
Details		Notes		Ø					
Name:	Environmental 01								
Туре	Environmental monitor	Vibration							
Location:	22.3256°S 119.3897°E	No data							
Elevation:	0.0 m								
Easting:	746149.0 m	Airblast							
Northing:	7529184.0 m	No data							
Created by:	Rachel Purdie								
Date created:	13/07/2015								
Enviromental	monitoring								
Records peak pa	rticle velocity								
Compliance limit	ti ?								
Records air blast	t over pressure								
Compliance limit	ti ?								
AVM configur	ation d	9							
Not available		J							
NCVIB	Ø	8							
Not available									

- 3. Select to monitor vibration, air blast or both at this point and set up compliance and alert limits.
  - Blast results over the **Compliance limit** will appear red on the site map.
  - Blast results over the **Alert threshold** will appear yellow on the site map.
  - Blast results under both the **Compliance limit** and **Alert threshold** will appear green on the site map

Edit point of interest enviromental settings	x
Monitoring point measures PPV	
Site PPV compliance limit (mm/s)	
Site PPV alert threshold (optional) (mm/s)	
fonitoring point measures air blast over pressure	
Site air blast over pressure compliance limit (dBl)	
Site air blast alert threshold (optional) (dBl)	
Map display palette	
Blue gradient 🔻	
Update Cancel	

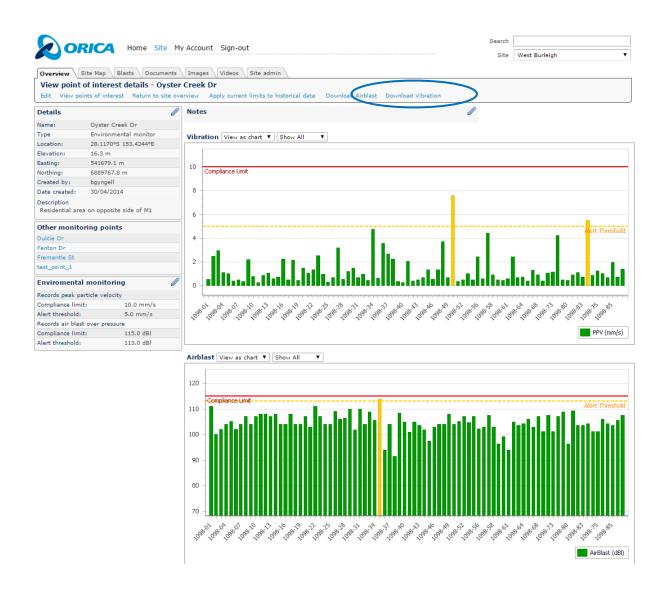
4. Select **Update** once the information has been entered.

Edit point of interest environmental settings	×
<ul> <li>Monitoring point measures PPV</li> </ul>	
Site PPV compliance limit (mm/5)	
10	
Site PPV alert threshold (optional) (mm/s)	
7	
Monitoring point measures air blast over pressure	
Site air blast over pressure compliance limit (dBl)	
125	
Site air blast alert threshold (optional) (dBl)	
122	
Map display palette	
Blue gradient	
Update Cancel	

The information will then be added to the **View points of interest details** page. If compliance and alert limits are adjusted, only blasts uploaded after that point will be affected. If the new limits are to be applied to all historical data, select **Apply current limits to historical data**.

	RICA Home Sit	My Account Sign-out	Search
Overview	Site Map Blasts Perfor	nance Documents Images Videos Site admin	
-	of interest details - El ints of interest Return to s	vironmental 01 te overview Apply current limits to historical data Download Airblast Download Vibration	
Details		/	
Name:	Environmental 01	Point of interest "Environmental 01"updated	
Туре	Environmental monitor		
Location:	22.3256°S 119.3897°E		0
Elevation:	0.0 m	Notes	
Easting:	746149.0 m		
Northing:	7529184.0 m	Vibration	
Created by:	Rachel Purdie	No data	
Date created:	13/07/2015		
Environnenta	-	Airblast No data	
Records peak pa			
Compliance limi			
Alert threshold:	7.0 mm/s		
Records air blas			
Compliance limi			
Aler: threshold:	122.0 dB		
AVM configu	ation		
Not available			
NCVIB			
Not available			

After data is entered, more information will appear on the page including graphs and tables. Select **Download Airblast** and **Download Vibration** to extract all data from the point of interest as a .csv file.



# NOTICE

The AVM and NCVIB configuration is currently not available.

# 6.4 CREATING NEW BLASTS

1. Select the **Blasts** tab.



2. Select Create Blast.

	Home S	ite My Acc	unt Sign-out	
Overview Site Map	Blasts Perfor	rmance Do	uments \ Images \ Videos \	
Create Blast Create Blast Display corde Display descriptors From date (inclusive)		Blast state (All open) To date (inclus	Blast Type (All values)  ve)	
Name $\Delta$	State	Fired On	Blast Type	Details
			No data to display	

The Create new blast box opens.

Home Site My Account Sign-out	Search
Overview \Site Map Blasts \Performance \Documents \Images \Videos \	
Create new blast	
Blast name  Drica reference (optional)  Customer reference (optional)  Description (optional)  Blast Type  (none)  Create Blast Cancel	Blast descriptors details Blast Type The type of blast categorized as per site procedure.

3. Enter information in the relevant areas.

**Blast name** is how your blast will be identified across the BlastIQ system. It may be the same as other sites. You cannot have two open blasts with the same name.

**Orica reference (optional)** can be used for alternative names, if required. This may be used at some sites if a different name is used by the site and Orica.

**Customer reference (optional)** can be used for alternative names, if required. This may be used at some sites if a different name is used by the site and Orica.

Description (optional) is a free field to write any further description information.

Below *Description* will be listed any descriptors that were defined by the site manager. In this example, **Blast Type** has been defined.

4. Select **Create Blast**.

Orica reference (optional)	
Customer reference (optional)	
Description (optional)	
Mining block 715	/
Blast Type	

- 5. The blast (B2021) is added to the Blast list and a "Blast created" message is received.
- 6. Select a blast by clicking on the blast name.

	Home Site My Acco			Search	
Overview Site Map	Blasts Performance Doc	uments Images Videos			
Blast list Create Blast Reset filte	rs				
Display mode	Blast state	Blast Type			
Display descriptors	<ul> <li>(All open)</li> </ul>	<ul> <li>(All values)</li> </ul>	-		
From date (inclusive)	To date (inclusi	ve)			
Blast created					
Marries 🛆	State Fired On	Blast Type		D	etails
B2021•	Created	Production			
H2130•	Created	Overburden		2	

7. The selected blast opens and the current information is displayed.

	ome Site M	y Account Sign-out			Search
Overview Site Map Blasts	Performance		Videos		
Actions menu Upload SHOTPlus <sup>m5</sup> file Rename blast Close Blast Delete Blast Upload Document		Notes	Name: Description: Location:	B2021 Mining block 715 ? RL ? m	
Details Blast Type: Production Job pack 0% complete	Ø	(none)			
Timeline	/reated 14/07/2015				
Environmental compliance No recorded PPV values No recorded air blast values	14/0//2015				

# 6.5 EDITING THE BLAST DETAILS

# 6.5.1 Details

This feature allows you to edit the site descriptors.

1. Select the **edit** (pencil) icon in the *Details* box.

	ome <mark>Site</mark> My	Account Sign-out			Search	
Overview Site Map Blasts		Documents Images	Videos			
Actions menu Upload SHOTPlus <sup>™5</sup> file Rename blast Close Blast Delete Blast Upload Document		Notes	Name: Description: Location:	82021 Mining block 715 7 RL 7 m		
Details Blast Type: Production Job pack @0% complete		none)				Ø
Timeline	eated					
Created:	14/07/2015					
Environmental compliance No recorded PPV values No recorded air blast values						

- 2. Make the changes.
- 3. Select Update.



### 6.5.2 Name

This feature allows you to edit the name information for the blast.

1. Select the **edit** (pencil) icon in the *Name* box.

	1y Account Sign-out		Search
Overview Site Map Blasts Performan B2021 Details Measures Job Pack D Site Demonstration Mine 1		200	
Actions menu Upload SHOTPlus <sup>115</sup> file Rename blast Close Blast Delete Blast	Locat	ription: Mining block 715	
Upload Document Details	(none)		Ĩ
Blast Type: Production Job pack 0% complete			
Timeline d			
Created: 14/07/2015 Environmental compliance			
No recorded PPV values No recorded air blast values	J		

- 4. Make the changes.
- 5. Select Update.

Update Value	×
Name	
B2021	]
Orica reference	_
Customer Reference	_
Description	_
Mining block 715	
· · · · · · · · · · · · · · · · · · ·	
Update Cancel	

### 6.5.3 Notes

This feature allows you to add additional notes.

1. Select the **edit** (pencil) icon in the *Name* box.

	lome Site M	ly Account Sign-out			Search	
Overview Site Map Blasts B2021 Details Measure: Site Demonstration Mine 1		Documents Images cuments Images Videos	Videos			
Actions menu Upload SHOTPlus <sup>***</sup> 5 file Rename blast Close Blast Delete Blast			Name: Description: Location:	B2021 Mining block 715 7 RL ? m		
Upload Document		Notes (none)				Ø
Blast Type: Production Job pack 00% complete	ø					
Timeline	Created					
Created:	14/07/2015					
Environmental compliance No recorded PPV values No recorded air blast values						

- 2. Add the additional notes.
- 3. Select Update.

Update Value	X
Notes	
Access from northern haul road, risk assess traffic.	~
	~
Update Cancel	

New and/or updated information is displayed and the **Blast updated** message is received.

	Search				
Overview Site Map Blasts Performanc	Documents Images	Videos			
B2021 Details Measures Job Pack Do Site Demonstration Mine 1	cuments Images Videos				
Actions menu Upload SHOTPlus <sup>™5</sup> file Rename blast	Blast updated	>			
Close Blast					
Delete Blast		Name:	B2021	Ø	
Upload Document		Description: Location:	Mining block 715 ? RL ? m		
Details		Location:	r NL r m		
Blast Type: Production Job pack 0% complete	Notes				
	Access from northern haul	road, risk assess traffic.			Ø
Timeline Created					
Created: 14/07/2015					
Environmental compliance No recorded PPV values No recorded air blast values					

### 6.6 UPLOAD SHOTPLUS 5 FILE

The SHOTPlus 5 file can uploaded using the **Upload SHOTPlus 5 file** hyperlink, or by using the process described in Section 9.3.



SHOTPlus 5 files cannot be uploaded to a blast that has been created by the LOADPlus system.

1. Select Upload SHOTPlus 5 file.

	ome <mark>Site</mark> M	Search				
Overview Site Map Blasts B2021 Details Measures Site Demonstration Mine 1	· · · · · · · · · · · · · · · · · · ·	Documents Images Videos	s			
Actions menu Upload SHOTPlus <sup>™5</sup> file		Blast updated				
Close Blast Delete Blast Upload Document		Name Descr Locati	ription:	B2021 Mining block 715 2 RL 2 m		
Details Blast Type: Production	Ø	Notes	1011:	? KL ? M		
Job pack 0% complete		Access from northern haul road, r	risk assess traffic.			
Timeline	Preated					
Created:	14/07/2015					
Environmental compliance No recorded PPV values						

- 2. **Browse** for the file to be uploaded
- 3. Select **Upload**.

Upload SHOTPlus™5 file	X
Select document to upload	$\frown$
B2021.spf	Browse
Upload	

While the system is processing, the edit options are locked (shown below by the absence of the edit pencils).

This processing may take several minutes depending upon the size of the file.

	ome Site M	y Account Sign-out		5	Search	
Overview Site Map Blasts B2021 Details Measures Site Demonstration Mine 1	<u></u>	Documents Images	Videos Videos			
Actions menu Download SHOTPlus <sup>***</sup> 5 File Rename blast Close Blast		<b>B2021.spf wa</b>	s successfully uploaded.	This blast is currently being updated and may co	ontain non-current d	lata
Delete Blast Upload Document			Name: Shotplus™5 filename: Description:	B2021 B2021.spf Mining block 715		
Details			Location:	? RL ? m		
Blast Type: Production Job pack 0% complete						
Timeline	reated					
Created:	14/07/2015					
Environmental compliance No recorded PPV values No recorded air blast values						

Periodically refresh the webpage until the blast is updated with the new information.

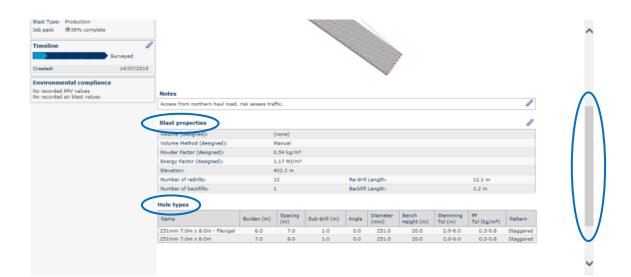
Additional tabs will appear. Depending on the site settings, they may include:

- Blast plan
- Hole table
- Inventory
- Timing

Overview Site Map Blasts Performan	My Account Sign-out	
Actions menu Uplaad SHOTPlus"'5 file Download SHOTPlus"'5 file Rename blast Close Blast Uplad Document Details Blast Type: Production Job pack @38% complete Timeline Created: 14/07/2015	Name: B2021 Shotplus"5 filename: BRAMPTON_2021.spf Description: Mining block 715 Location: 22.32995 119.3336E RL 402.3 m	
Environmental compliance No recorded PPV values No recorded air blast values	Notes	
	Access from northern haul road, risk assess traffic.	Ø
	Blast properties	0

Two additional tables have appeared (accessed by scrolling down):

- Blast properties
- Hole types



# 6.7 EDIT BLAST PROPERTIES

Blast properties are extracted from the SHOTPlus file, however in certain circumstances, the user may wish to calculate the values separately and manually update them.

1. Select the **Blast properties edit** (pencil) icon.

ccess from northern haul road, risk assess traffic.							
Blast properties			(				
Volume (designed):	(none)						
Volume Method (designed):	Manual						
Powder Factor (designed):	0.54 kg/m³						
Energy Factor (designed):	1.17 MJ/m <sup>3</sup>						
Elevation:	402.3 m						
Number of redrills:	12	Re-drill Length:	12.1 m				
Number of backfills:	1	Backfill Length:	1.2 m				

Name	Burden (m)	Spacing (m)	Sub-drill (m)	Angle	Diameter (mm)	Bench Height (m)	Stemming Tol (m)	PF Tol (kg/m³)	Pattern
251mm 7.0m x 8.0m - Flexigel	6.0	7.0	1.0	0.0	251.0	20.0	2.0-6.0	0.3-0.8	Staggered
251mm 7.0m x 8.0m	7.0	8.0	1.0	0.0	251.0	20.0	2.0-6.0	0.3-0.8	Staggered

- 2. Enter any new values.
- 3. Select **Update**.

_		
	Update Value	×
	Elevation	
	400	
	Blast actual volume (m³)	
	300000	
	Actual powder factor (kg/m³)	
	0.5	
	Actual energy factor (MJ/m³)	
	Number holes redrilled 12 Total redrill (m)	
	12.1	
	Number back filled holes 2	
	Total backfill (m)	
	20 ×	
	Update Cancel	

4. Blast updated message is received.

📀 Blast updated	

5. The updated values are displayed under **Blast properties**.

Blast properties			Ø
Volume (designed):	(none)	Volume (actual):	300000.0 m <sup>3</sup>
Volume Method (designed):	Manual		
Powder Factor (designed):	0.54 kg/m³	Powder Factor (actual):	0.50 kg/m³
Energy Factor (designed):	1.17 MJ/m <sup>3</sup>		
Elevation:	400.0 m		
Number of redrills:	12	Re-drill Length:	12.1 m
Number of backfills:	2	Backfill Length:	20.0 m

# 6.8 RECORDING BLAST MEASURES

1. Select the **Measures** field.

Overview Site Map Blasts	Performanc	y Account Sign-out • \ Documents • \ Images \ Videos \ tole table • Inventory •   Timing •   Loading   Job P	ack • Documents Images Videos	Search	
Site Demonstration Mine 1 Actions menu Upload SHOTPlus <sup>III</sup> 5 file Download SHOTPlus <sup>III</sup> 5 File		🧭 Blast updated			
Rename blast Close Blast Delete Blast Upload Document		Name: Shotplus <sup>we</sup> 5 filename: Description:	B2021 BRAMPTON_2021.spf Mining block 715	-	
Details Blast Type: Production Job pack @38% complete	Ø	Location:	22.32995 119.3536E RL 400.0 m	]	
Timeline Su Created:	// rveyed 14/07/2015				
Environmental compliance No recorded PPV values No recorded air blast values					

- 2. Measures has two fields available for editing:
  - Blast measures
  - Environmental measures
- 3. Select **Blast measures** or **Environmental measures**.

Search       Nome       Site       My Account       Sign-out         Overview       Nome       Site       My Account       Images       Videos         B2021       Details       Measures       Blast plan       Hole table       Inventory       Timing       Loading       Job Pack       Documents       Images       Videos         Blast measures       Images       Videos       Documents       Images       Videos         Environmental measures       000       000       000       000       000       000         100       000       000       000       000       000       000       000			
Overview       Site Map       Blast.       Performance       Documents       Images       Videos         B2021       Details       Measures       Blast of the lable       Inventory       Timing       Loading       Job Pack       Documents       Images       Videos         Blast measures       Images       Images       Loading       Job Pack       Documents       Images       Videos         Environmental measures       Images       Images       Images       Images       Images       Images       Images       Images       Images       Videos		Account Cign out	Search
Bast measures       Bast plan • Hole table • Inventory • Timing • Loading Job Pack • Documents Images Videos         Blast measures       Image: Videos         Excavator EUS Dig Rate:       Image: Videos         Environmental measures       Image: Videos		Account Sign-out	
Bast measures       Blast plan • Hole table • Inventory • Timing • Loading Job Pack • Documents Images Videos         Blast measures       Image: Videos         Excavator EOS Dig Rate:       Image: Videos         Environmental measures       Image: Videos			
Blast measures			
Excavator E03 Dig Rate:	B2021 Details Measures Blast plan • Hol	e table • Inventory • Timing • Loading Job Pack • Documents Images Vid	eos
Environmental measures 000		Drilling depth accuracy	
	Environmental measures	800	
400		600	
		400	
		400	
200		200	
$\begin{array}{c} 7.0 \rightarrow 9.0\\ 5.0 \rightarrow 7.0\\ -9.0 \rightarrow 7.0$ -9.0 \rightarrow 7.0 -9.0 -			
+ $+$ $+$ $ 5.0+$ $+$ $+$ $ 5.0+$ $+$ $         -$			
First Dip Accuracy (m)		First Dip Accuracy (m)	
PPV Airblast		PPV Airbl	ast

### 6.8.1 Blast measures

- 1. Enter values for any measures that have been set up for your site.
- 2. Select **Update**.



### 3. Blast updated message is received.



### 6.8.2 Environmental measures

- 1. Enter values for environmental measurement.
- 2. Select **Update**.

Update Value			×
	Ground	vibration	Airblast
	PPV (mm/s)	Dominant freq. (Hz)	Overpressure (dBl)
Environmental 01	6.5		123 ×
Update Cancel			

3. The environmental data values are uploaded to the site.

Blast measures	Ø
Excavator E05 Dig Rate:	3000 tne/hr
Environmental meas	ures 🖉
Environm	
PPV	6.5 mm/s
Air blast	123.0 dBl
Distance to blast	3767.8 m

- 4. Scroll down to view the **Environmental measures** in graphical form.
- 5. You will notice with **Environmental measures**, the colouring matches the site Point Of Interest (POI) alert and compliance thresholds, which are set by the Site Manager.

# 6.9 COMPLETING THE JOB PACK

The Job Pack consists of tasks, approvals and documents that are recorded during the blasting process.

1. Select the **Job Pack** field.

ORICA Home Site My Account Sign-out	Search
erview Site Map Blasts • Performance Documents • Images Videos	
2021 Details Measures Blast plan • Hole table • Inventory • Timing • Loading Job Pack • Dotuments Images 1	Videos
Approvals	
Approved for Drilling	<b>?</b> 🗩
Approved for Loading	• 🖓 🗢
Approved for Firing Upload	(2)
Designs and Calculations	
Pattern Design Calculation Sheet Upload	(?)
Survey Data	
Bench Surface Survey Upload	Ģ
SHOTPlus Data	
Blast Survey Plan - SHOTPlus™5 field Blast Survey Plan	₽
Blast Plan View - SHOTPlus™5 field Plan View of Blast	Ģ
	₽
☐ Dipping Data Sheet - SHOTPlus™5 field Dip Sheet	$\bigtriangledown$
Design Evaluation - SHOTPlus™5 field Blast Design Evaluation	$\bigtriangledown$
Desian - SHOTPlus <sup>105</sup> field Blast Desian	9

Any Job Pack fields that are linked to SHOTPlus data will automatically have a tick placed in the Process Completed box when a SHOTPlus file that contains that information is uploaded to the blast.

In this example, the following processes have been completed:

- Blast Plan View SHOTPlus 5 field Plan View of Blast
- ☑ Loading Data Sheet SHOTPlus 5 field Load Sheet
- Dipping Data Sheet SHOTPlus 5 field Dip Sheet
- ☑ Load Quantities SHOTPlus 5 field Actual Load Quantities
- ☑ Timing Design SHOTPlus 5 field Blast Timing Design

Designs and Calculations	
Pattern Design Calculation Sheet Upload	ې چ
Survey Data	
Bench Surface Survey Upload	ς
SHOTPlus Data	
Blast Survey Plan - SHOTPlus™5 field Blast Survey Plan	Ç
Blast Plan View - SHOTPlus™5 field Plan View of Blast	Ģ
└ Loading Data Sheet - SHOTPlus™5 field Load Sheet	Ģ
☑ Dipping Data Sheet - SHOTPlus™5 field Dip Sheet	Ģ
Design Evaluation - SHOTPlus™5 field Blast Design Evaluation	Ģ
Design - SHOTPlus™5 field Blast Design	Ģ
└ Load Quantities - SHOTPlus™5 field Actual Load Quantities	Ģ
Timing Design - SHOTPlus™5 field Blast Timing Design	ς

### 6.9.1 Marking Items as Complete

To mark an item as complete:

1. Select the appropriate empty box (for example: **Approved for Drilling**).

Korica Home Site My Account Sign-out	Search
Overview Site Map Blasts • Performance Documents • Images Videos	
B2021 Details Measures Blast plan Hole table Inventory Timing Coordinate Documents Images Videos	
Approvals	
Approved for Drilling	Ý 🖓
Approved for Loading	(1)
Approved for Firing Upload	(2)
Designs and Calculations	
Pattern Design Calculation Sheet Upload	(2)
Survey Data	
Bench Surface Survey Upload	Ģ

2. A tick is placed in the box and an 'Item has been satisfied' message is received.

CORICA Home Site My Account Sign-out	Search	
Overview         Site Map         Blasts         Performance         Documents         Images         Videos           B2021         Details         Measures         Blast plan         Hole table         Inventory         Timing         Loading         Job Pack         Documents         Images         Videos		
Item has been satisfied.		
Approvals		
Approved for Drilling	ې چ	
Approved for Loading	🥐 🛡	
Approved for Firing Upload	ې چ	
Designs and Calculations		
Pattern Design Calculation Sheet Upload	ې چ	
Survey Data		
Bench Surface Survey Upload	Ģ	

On the right hand side of the page, any items that have descriptions available will display a question mark bubble.

3. Hover the mouse cursor over the question mark bubble.

The description of the field will appear.

CORICA Home Site My Account Sign-out	Search	^
Overview         Site Map         Blasts •         Performance         Documents •         Images         Videos           B2021         Details         Measures         Blast plan •         Hole table •         Inventory •         Timing •         Loading         Job Pack •         Documents         Inventory •         Timing •         Loading         Job Pack •         Documents         Inventory •         Timing •         Loading         Job Pack •         Documents         Images         Videot	s	]
Item has been satisfied.		
Approvals		
Approved for Drilling Approved for Loading	Customer drill and blast supervisor must tick this b	efore sending file
Approved for Firing Upload Designs and Calculations	to drill.	
Pattern Design Calculation Sheet Upload	Q 🗟	

### 6.9.2 Adding Comments to Job Pack Fields

To add a comment to a Job Pack field:

- 1. Select the blue add comment button on the right of screen.
- 2. Enter comment.
- 3. Select Save.

# **NOTICE** Only one comment can be saved per field.

CORICA Home Site My Account Sign-out	Search
Overview         Site Map         Blasts •         Performance         Documents •         Trages         Videos           B2021         Details         Measures         Blast plan •         Hole table •         Inventory •         Timing •         Loading         Job Pack •         Documents         Videos	
Ozora         Decails         measures         biasc plan         noire cable         inventory         mining         codumy         poor rack         bocuments         images         viceos           Item has been satisfied.         Item has been sa	
Approvals           Image: Control of Cont	300

4. Comment appears under the field.

Ro	RICA Home Site My Account Sign-out		
Overview	Site Map Blasts • Performance Documents • Images Videos		
B2021	Details Measures Blast plan Hole table Inventory Loading Loading Documents Images Videos		
	Approvals		
	Approved for Drilling Updated 16/07/2015 11:49 AM by Scott Feeney	?	9
	Drilling Risk Assessment has been completed - JSERA 2735 Comment by Scott Feeney		
	Approved for Loading	?	$\bigtriangledown$
	Approved for Firing Upload	?	$\bigtriangledown$

### 6.9.3 Job Pack File Uploads

Some items are configured to allow file uploads. A blue **Upload** link appears next to these items.

1. Select **Upload**.

view	Site Map Slasts • Performance Documents • Images Videos		
2021	Details Measures Blast plan Hole table Inventory Timing Job Pack Documents	Images Videos	
	Approvals		
	Approved for Drilling	Updated 16/07/2015 11:49 AM by Scott Feeney 🤇	) ҫ
	Drilling Risk Assessment has been completed - JSERA 2735	Comment by Scott Feeney	
	Approved for Loading	۲.	) ҫ
	Approved for Firing Upload	۲.	) 🤤
	Designs and Calculations		
	Pattern Design Calculation Sheet Upload	۲	) 🤤
	Survey Data		
	Bench Surface Survey Upload		Ş
	SHOTPlus Data		
	Blast Survey Plan - SHOTPlus™5 field Blast Survey Plan		ç
	Blast Plan View - SHOTPlus™5 field Plan View of Blast		Ş
	└── └── Loading Data Sheet - SHOTPlus™5 field Load Sheet		ç
	☐ Dipping Data Sheet - SHOTPlus™5 field Dip Sheet		ç
	Design Evaluation - SHOTPlus™5 field Blast Design Evaluation		ç

You will be prompted to upload the file.

- 2. Browse to the file's location.
- 3. Select Upload Document.

Select document to upload	
(Allowed file types: .dxf)	
B2021 Bench Survey.dxf	X Browse
Upload Document	

The file uploads and appears in the relevant area.

Survey Data		
Bench Surface Survey Upload	Q	
Download B2021 Bench Survey.dxf	Delete	

NOTICE

There is no tick in the box.

Uploading a file doesn't automatically update the item as complete. This allows you to manage draft versions.

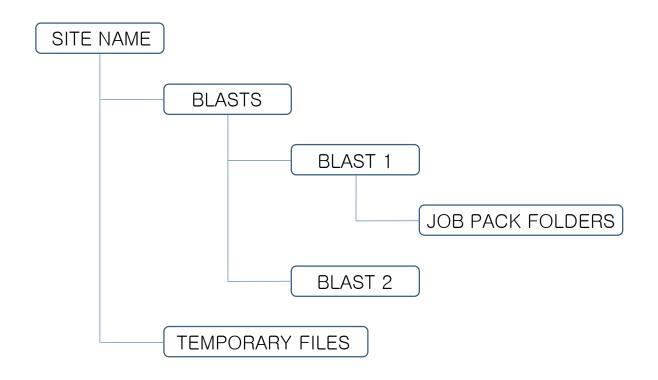
- 4. Select the empty box (Bench Surface Survey in this example).
- 5. A tick is placed in the box and an 'Item has been satisfied' message is received.

ORICA Home Site My Account Sign-out	Search	
erview Site Map Blasts • Performance Documents • Images Videos		
2021 Details Measures Blast plan • Hole table • Inventory • Timing • Loading • Job Pack •	Documents   Images   Videos	
V Item has been satisfied.		
Approvals		
Approved for Drilling	Updated 16/07/2015 11:49 AM by Scott Feeney	<b>?</b> 🗢
Drilling Risk Assessment has been completed - JSERA 2735	Comment by Scott Feeney	
Approved for Loading	Ç	<b>?</b> 🗩
Approved for Firing Upload		<b>?</b> 🗢
Designs and Calculations		
Pattern Design Calculation Sheet Upload		<b>?</b> 🔍
Survey Data		
Bench Surface Survey Upload		$\bigtriangledown$
Download B2021 Bench Survey.dxf Delete		
SHOTPlus Data		
Blast Survey Plan - SHOTPlus™5 field Blast Survey Plan		$\bigtriangledown$
Plact Blas View - CHOTBlue MS field Blas View of Blact		

# 6.10 USING THE DOCUMENTS MANAGER

The Documents Manager works much like a file system: it has folders and files within those folders.

The top folder is always the Site Name. Under the Site Name there is always a folder for Blasts. The Blasts folder contains a separate folder for each blast.



To access the Documents Manager:

1. Select the **Documents** tab.

erview Site Map Blasts • Perform	$\frown$				Search	
emonstration Mine 1	Documents	Timbges (Hoces				
eate Folder Upload File						
Demonstration Mine 1	Name	Version	Size (kb)	Uploaded	Uploader	Actions
m- Blasts	B2021.spf	:	576.9	14/07/2015 3:02:16 PM	Scott Feeney	<b>E</b> T ER 🖥 🙆
B2021 Survey Files H2130	Show all file	versions				
Temporary Files						

### 6.10.1 New Folder Creation

At the site level you can create folders to store files relating to blasting on site, such as templates, risk assessments, information, etc.

- 1. Ensure **Site Name** level is selected.
- 2. Select Create Folder (from under Site Name).

	My Account Sign-out	
Overview Site Map Blasts Performan Demonstration Mine 1 Create Folder Upload File	e Documents * \ Images \ Videos	
Demonstration Mine 1      Blast     B2021     LSurvey Files     H2130     Temporary Files	Create a folder in Demonstration Mine 1 Enter folder name Confidential Confidential Create Folder Cancel	

- 3. Enter the new folder name.
- 4. Select **Create Folder**.

	Create a folder in Demonstration Mine 1
	Enter folder name
	Site Document Templates ×
	Confidential
<	Create Folder Carcel

The new folder appears under the Site Name.

	Search								
Overview Site Map Blasts • Perform	ance Documents	• Images Videos							
Demonstration Mine 1 Create Folder Upload File Move Folder	Demonstration Mine 1 Create Folder Upload File Move Folder Rename Folder Delete Folder								
Folder created.									
Demonstration Mine 1	Name	Version	Size (kb)	Uploaded	Uploader	Actions			
Blasts     Site Document Templates     Temporary Files	Show all fil	le versions		No data to display					

### 6.10.2 Folder Relocation

You have the option to move the folder to a different location within the file tree.

To move a folder:

1. Select Move Folder.

	My Account Sign-o	out			Search				
Overview         Site Map         Blasts *         Performance         Documents *         Images         Videos           Demonstration Mine 1         Create Folder         Upload File         Move Folder         Delete Folder									
Folder created.									
Demonstration Mine 1	Name	Version	Size (kb)	Uploaded	Uploader	Actions			
Blasts     Site Document Templates     Temporary Files	Show all file ve	rsions	No di	ata to display					

- 2. Select the new location folder.
- 3. Select Move.

Select a destination for Site Document Templates	x
Demonstration Mine 1	
- Site Document Templates Temporary Files	
Move Cincel	

### 6.10.3 Rename Folder

The Documents Manager gives the ability to rename folders. To rename a folder:

- 1. Select the folder.
- 2. Select **Rename Folder**.



- 3. Enter the new folder name.
- 4. Select **Rename**.



The folder has now been renamed (**Site Documents**) and the '**Item renamed**' message has been received.

			Search						
	Overview Site Map Blasts Performant Demonstration Mine 1 Create Folder Upload File		Images Videos						
<	V Item renamed.								
	Demonstration Mine 1	Name	Version	Size (kb)	Uploaded ata to display	Uploader	Actions		

### 6.10.4 Folder Deletion

The Documents Manager gives the ability to delete folders. To delete a folder:

- 1. Select the folder.
- 2. Select **Delete Folder**.



A warning message is received.

3. Select OK.

Message f	rom webpage
?	Are you sure you wish to delete this folder? All contents of this folder will also be deleted.
	OK Cancel

The folder has been removed (**Site Documents**) and the '**Item deleted**' message has been received.

		Search						
Overview       Site Map       Blasts •       Performance       Documents •       Images       Videos         Demonstration Mine 1       Create Folder       Upload File       Videos       Videos								
Item deleted.								
Demonstration Mine 1     Blasts     Temporary Files	Name	Version	Size (kb) No di	Uploaded ata to display	Uploader	Actions		
	Show all file ver	sions						

### 6.10.5 Uploading a File using Documents Manager

To upload a file using the Documents Manager:

1. Select **Upload File**.

Search Search Search									
Overview Site Map Blasts • Performance Documents • Images Videos									
Demonstration Hine 1									
Create Folder Upload File Move Folder	Rename Folder Delete Folder								
Demonstration Mine 1	Name	Version	Size (kb)	Uploaded	Uploader	Actions			
- Blasts	B2021 Bench Survey.dxf	1	0.0	16/07/2015 11:59:27 AM	Scott Feeney				
B2021	Show all file versions								
Survey Files									
H2130									
Temporary Files									

- 2. Select **Browse** and locate the file to upload.
- 3. Add file description (optional).
- 4. Select **Upload**.

Upload a fil	e to Survey Files
Select docu	ment to upload
B2021 Benc	h Survey.dxt X Browse
Description	
Confidentia	l
□ Maximum file	e size: 50MB
Upload	ancel

The file (**B2021 Bench Survey.dxf**) has been uploaded and the '...was successfully uploaded.' message has been received.

	Sea	rch								
Overview Site Map Blasts • Performance	ce Documents • Images Videos									
Demonstration Mine 1 Create Folder Upload File Move Folder F										
B2021 Bench Survey.dxf was succ										
Demonstration Mine 1     Hasts	Name	Version 2	Size (kb)	Uploaded 16/07/2015 3:54:16 PM	Uploader Scott Feeney	Actions				
E Bursts E B2021 Survey Files H2130 Temporary Files	B2021 Bench Survey.dsf	2	0.0	10/07/2013 313413 PM	Scott Peeney					

When a file is uploaded with the same name as a file already present in the folder, the system will recognise this and save the new file with an automatically incremented version number. All versions of the file are retained by the system.

Name	Version		Size (kb)	Uploaded	Uploader	Actions
B2021 Bench Survey.dxf	(	2	0.0	16/07/2015 3:54:16 PM	Scott Feeney	🔄 🖻 🗑 🎰
Show all file versions						

To view all versions of the file/s:

1. Select **Show all file versions** (by placing a tick in the box).

Name	Version	Size (kb)	Uploaded	Uploader	Actions
B2021 Bench Survey.dxf	2	0.0	16/07/2015 3:54:16 PM	Scott Feeney	it di 🖬 🛅 🖆
B2021 Bench Survey.dxf	1	0.0	16/07/2015 11:59:27 AM	Scott Feeney	<b>D</b>
Show all file versions					

When viewing 'all versions', you can use the circle arrow to revert back to that version of the file.

Name	Version	Size (kb)	Uploaded	Uploader	Actions
B2021 Bench Survey.dxf	2	0.0	16/07/2015 3:54:16 PM	Scott Feeney	
B2021 Bench Survey.dxf	1	0.0	16/07/2015 11:59:27 AM	Scott Feeney	(C 🗊
Show all file versions					$\mathbf{\circ}$

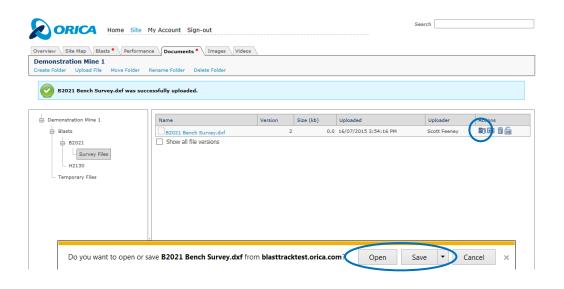
Each document has a number of actions that can performed using the Documents Manager:

- Download a File
- Move a File
- Delete a File
- Make a File Confidential

### 6.10.6 Download a File using Documents Manager

To download a file using Documents Manager:

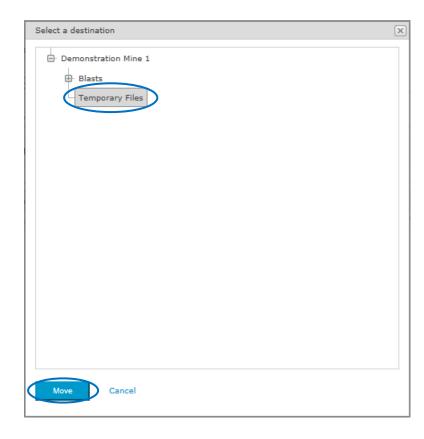
- 1. Select the **Download** icon (
- 2. Select **Open** or **Save**.



### 6.10.7 Move a File using Documents Manager

To move a file using Documents Manager:

- 1. Select the **Move** icon (
- 2. Select the new location folder.
- 3. Select Move.



All versions of the file are moved.

	y Account Sign-out					rch	
Overview Site Map Blasts  Performance Demonstration Mine 1 Create Folder Upload File	Documents • Images Videos						
2 item(s) moved.							
Demonstration Mine 1	Name	Version	Size (kb)	Uploade	ed	Uploader	Actions
+- Blasts	B2021 Bench Survey.dxf	2		.0 16/07/2	015 3:54:16 PM	Scott Feeney	
Temporary Files	Show all file versions						

# 6.10.8 Delete a File using Documents Manager

To delete a file using Documents Manager:

Select the Delete icon (

Search ORICA Home Site My Account Sign-out Overview Site Map Blasts • Performance Documents • Images Videos Demonstration Mine 1 Create Folder Upload File Move Folder Rename Folder Delete Folde 2 item(s) moved. Demonstration Mine 1 Name Version Size (kb) Uploaded Uploader Blasts B2021 Bench Survey.dxf
Show all file versions 0.0 16/07/2015 3:54:16 PM Scott Feeney 2 B2021 Survey Files H2130 Temporary Files

).

A warning message is shown.

2. Select **OK**.

1.

Message fr	om webpage	
?	Are you sure you wish to delete this item?	
	OK Cancel	

The file has been deleted (**B2021 Bench Survey.dxf**) and the '**Item deleted**' message has been received.

		Search				
verview Site Map Blasts • Pe	erformance Documents	Images Videos				
emonstration Mine 1 reate Folder Upload File						
Item deleted.						
Demonstration Mine 1	Name	Version	Size (kb)	Uploaded	Uploader	Actions
+ Blasts				No data to display		
<ul> <li>Blasts</li> <li>Temporary Files</li> </ul>	Show all file	versions		No data to display		

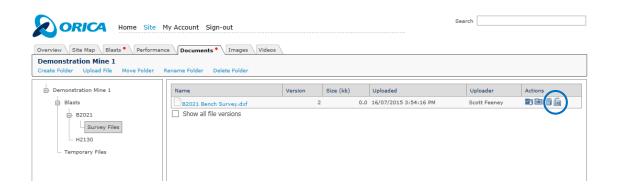


If a file has been deleted by mistake, or you believe a file has been deleted in error by other parties, you can contact BlastIQ Support and request the file be undeleted.

### 6.10.9 Make a File Confidential using Documents Manager

To make a file confidential a file using Documents Manager:

1. Select the Make confidential icon ( image).



'The document's confidentiality was updated.' message is received.

Search Search									
Overview     Site Map     Blasts • Performance     Documents • Videos       Demonstration Mine 1     Create Folder     Upload File									
The document's confidentiality wa	s updated.								
Demonstration Mine 1	Name	Version	Size (kb)	Uploaded	Uploader	Actions			
Blasts Temporary Files	Show all file ver	rsions	No di	ata to display	·				

## 6.11 USING THE IMAGES LIBRARY

Any image file that is uploaded to the **Job Pack** or to the **Documents Manager** will automatically be detected and a thumbnail will appear in the **Images Library**. In addition, the **Images** page has the option to upload an image file.

- 1. Select the **Images** tab.
- 2. Select **Upload File**.

Overview Site Map Blasts Performance Documents Videos	Search	
No items Filter		
Blast All Blasts From V		

- 3. Browse for the image file/s. Multiple images may be selected and uploaded together.
- 4. Select the destination folder.
- 5. Select **Upload.**

Upload file	×
Select document to upload	
3 files are selected for u	K Browse
Select a destination	
□ Demonstration Mine 1	
- Blasts	
H2130 B2021 Temporary Files	
Confidential	
Upload Cancel	

6. The image files appear and the '...files were successfully uploaded.' message is received.

ORICA Home Site My Account Sign-out	Search
Overview Site Map Blasts Performance Documents Videos	
Demonstration Mine 1 Uplead Mine	
3 files were successfully uploaded.	
No terry	
Filter	
Blast	
All Blasts	
From	
Te	

# 6.12 USING THE VIDEOS LIBRARY

Any compatible video file that is uploaded to the **Job Pack** or to the **Documents Manager** will automatically be detected and a thumbnail will appear in the **Videos** library.

Compatible video file types are:

.avi .mp4 .mpeg .mpg .wmv

Be aware that some of the above file types may not be compatible, depending upon the codec used. If this happens, the video will still upload and can be downloaded from the system, but will not be able to be played online. This is designated by an exclamation icon appearing instead of a thumbnail representing the file.



In addition, the Videos page has the option to upload a video file.

- 1. Select the **Videos** tab.
- 2. Select upload file.

CORICA Home Site My Account Sign-out	Search
Overview Site Map Blasts Performance Documents Videos	
No items Note that recently uploaded videos must first be processed before they appear in the results. This can take a few minutes. Filter	
Blast All Blasts	
From	
To	

3. Browse for the video file/s. Multiple videos may be selected and uploaded together.

If a video is of a non-compatible format or it exceeds the file size limit for the system, the following error message will be displayed:

Select OK to continue.

Message fr	rom webpage
	Attention! The following 1 files are invalid because they exceed the allowed file size (104857600) or their extensions are not allowed. These files have been removed from selection, so they will not be uploaded. P8050066.mpg
	ОК

- 4. Select the destination folder.
- 5. Select **Upload**.

Upload file		(
Select document to upload 2 files are selected for u	×	Browse
		brombenn
Select a destination		
Demonstration Mine 1		
⊟- Blasts		
- H2130		
⊕ B2021		
- Temporary Files		
Confidential		
Upload Cancel		

The video files appear as thumbnails; however processing the videos takes a number of minutes, during this time the processing icon/s will appear. At this time, videos are available for download, but are unable to be played online.

A Home Site My Account Sign-out	Search
Overview \Site Map Blasts Performance Documents Videos Demonstration Mine 1 Upload File	
2 files were successfully uploaded.	
No items Note that recently uploaded videos must first be processed before they appear in the results. This can take a few minutes.	
Filter	
Blast All Blasts	
From	
To	

6. After several minutes, **refresh** the webpage and the thumbnail/s will appear.

Norica Home Site My Account Sign-out	Search
Overview Site Map Blasts Performance Documents Timages Videos Decoments Uplead File	
WATCH THE FOX:	
Items 1 to 2 of 2 Note that recently uploaded videos must first be processed before they appear in the results. This can take a few minutes.	
Filter	
Blast	
All Blasts	
From	
Το [	

# 6.13 MARKING BLASTS AS CLOSED

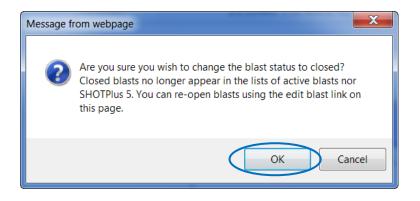
By default the blasts list in BlastIQ and SHOTPlus 5 displays all open blasts. To reduce clutter, it is advised to mark a blast as closed after all documentation is completed.

From the blast Details page:

1. Select **Close Blast** in the actions menu.

	My Account Admin Sign-out		Search		
			Site	Demonstration Mine 1	Y
Overview Site Map Blasts Performa	ice \ Documents • \ Images \ Videos \ Site admir	n			
Demonstration_Coal_Blast Details Site Demonstration Mine 1	Measures   Blast plan • Hole table • Loading • In	wentory * Job Pad	k* Documents Images Videos		
Actions menu Upload SHOTPlus <sup>1+</sup> 5 file Download SHOTPlus <sup>1+</sup> 5 file	Name: Shotplus <sup>m</sup> 5 filename: Description:		_Production_14.12.14_saved_end_of_day	/_29.12.spf	
Bename htst Close Blast Direct Bast	Location:	23.51485 118	.4645E RL: 128.8 m		
Upload Document					
Update blast plan Details	2				
Blast Type:			2000		
Job pack 00% complete			and wanted		
Timeline Designed	2				
Created: 12/11/2015					
Survey completed:		Design 📃 Dippe	d 🛄 Loading 📕 Completed		
Design completed:					
Proposed firing date:	Notes				
Environmental compliance	(none)				1
No recorded PPV values No recorded air blast values	Blast properties				0
LoadPlus		288			-
No association with a loadplus blast		200 743,551 kg	Total loaded explosive weight:	730,302 kg	
			Variance:	-13,249 kg	

## 2. Select **OK**.



# 6.13.1 To Reopen a Blast once it has been Closed

#### 1. Select Reopen blast.

ORICA Home Site M	y Account Admin Sign-out		Search		portes
			Site	Demonstration Mine 1	×
Overview Site Map Blasts • Performant	e Documents • Images Videos	Site admin			
Demonstration_Coal_Blast Details Site Demonstration Mine 1	Measures   Blast plan • Hole table • Lo	ading • Inventory • Job Pack • Document	s   Images   Videos		
Actions menu Upload SHOTPlus <sup>145</sup> file Download SHOTPlus <sup>145</sup> File	Blast closed				
Rename bleet Renpen blast Deeue blast	Name: Shotplus™5	Demonstration_Coal_Blast ilename: OV23543_BL3_Production_1	4.12.14_saved_end_of_day	_29.12.spf	
Upload Document Update blast plan	Description: Location:	23.51485 118.4645E RL 128	.8 m		
Details 🥒					
Blast Type: Job pack 00% complete					
Timeline			3		
Created: 12/11/2015					
Survey completed:					
Design completed:		1			
teleased for loading:					
.oading commenced:					
Loading completed: Firing time:		🥅 Design 📃 Dipped 🔜 Loadir	g Completed		
invironmental compliance	Notes				
No recorded PPV values No recorded air blast values	(none)				0
LoadPlus	Blast properties				1

# 7 USING BLASTIQ AS A SITE MANAGER

Section Revision: 0

Revision Date: August 2015

## 7.1 OVERVIEW

**Site Managers** may view and edit the project definition and view and edit information in all project sites subject to the confidentially provisions.

Site Managers are able to perform all tasks from:

- Section 4 USING BLASTIQ AS A VIEWER
- Section 5 USING BLASTIQ AS A CONTRIBUTOR
- Section 6 USING BLASTIQ AS AN EDITOR

Site Managers can set up and configure their site on BlastIQ with capabilities including:

- Adding site members
- Selecting the features available
- Creation of blast descriptors and blast measures
- Setting up a Job Pack template
- Configuring the site map

To begin setting up the site page, select the relevant site from the Sites and open blasts list.



# 7.2 GENERAL SITE CONFIGURATION

The following describes how to add site members and setup optional features, access settings, blast descriptors and blast measures.

1. From the site overview page, click on the **Site Admin** tab.

	1y Account	ign-out					Search
Overview Blast Site admin Demonstration Mine 1 Manage user access Configuration View auc	lit log						
Actions menu	Blasting Ti	meline					Open Blasts
Create blast View points of interest							No open blasts
News	2						
There is no news to display	March 15	April 15	May 15	June 15	July 15	Augu	
There is no news to display	•						
Site user access	Recent Act	ivity					
Rachel Purdie Orica	No recent act						

All site configuration is performed on the **Site Admin** page.

ORICA Home Site My Ac	count Sign-out	Search
ew Blasts Site admin		
onstration Mine 1 General Site mer	nbers	
emonstration Mine 1 View audit log		
Configuration and sett	ings	Optional features
Optional features	Edit	The features made available at this is configurable.
0 (1) (1)		Confidentiality
Open access (blast da Blast type descriptors	ta visible all team members) Edit	Blasting parameters and description details for blasts at this site are by default confidential, and only visible to members of the <b>View</b> <b>confidential</b> user group. A site may be configured to make selected blasting
Blast type descriptors	Edit	information publicly available to all viewers with access to the site.
Blast measures	t outcomes recording function to access	Specific information such as documents and videos may also be marked confidential within the site and never made accessible to users outside the Administrators and View confidential user groups.
Enable the blas	to outcomes recording function to access	Site access roles
		Site managers may view and edit the project definition and view and edit information restricted by the confidentially provisions. Site editors may view and edit all blasting information restricted by the confidentially provisions. Site contributors may view all blasting information restricted by the confidentially provisions and add new documents. Site viewers may view all blasting
		information restricted by the confidentially provisions at the site.
		All deleted sites may be restored using System administrator rights.
		Blast descriptors and measures
		All blasts at this site will have a number of customised text descriptors and measures. Descriptors are named labels which may take a arhitrary text value or be restricted to a fixed list of possible values. For example a descriptor may be setup with the name "Geology" which takes the values "Sandstore". "Weathered zone" or one named "IDS system" with possible values "Signal tube" or "EBS" Blast measures are numerical values which describe either blastin inputs or outcomes. For example a blast input may be "Loading time in minutes" with value "2050" while an output might be "PBO Fragmentation" with value "1.45"

Information relating to site configuration is given in the blue box and summarised below:

## Confidentiality -

- Confidential items are only visible to members of the View confidential user group.
- Specific information may be configured to be publicly available to all site users.
- Specific information may be marked confidential within the site to restrict access to users outside the **Administrators** and **View confidential** user groups.

#### Site access roles –

- Site **managers**: view and edit project definition, and information restricted by the confidentially provisions.
- Site **editors**: view and edit all blasting information restricted by the confidentially provisions.
- Site **contributors**: view and edit all blasting information restricted by the confidentially provisions and add new documents
- Site **viewers**: view all blasting information restricted by the confidentially provisions at the site.

#### Deleted sites -

• All deleted sites may be restored using **System** administrator rights.

#### Blast Descriptors –

- Descriptors are named labels containing a text value
- For example a descriptor may be named "Geology" which takes the values "Sandstone", "Weathered zone"

#### Blast Measures –

- Measures are numerical values which describe blasting inputs or outcomes
- For example a blast input may be "Loading time in minutes" with value "205.0", or an output of "P80 Fragmentation" with a value of "1.45"

#### 7.2.1 Adding Site Members

Configure the users that have access to the site and their level of access.

1. Click on **Site members** from the site overview page.

	Home Site My Account Sign-out	Search	
Overview Blasts Site a			
Demonstration Mine 1 Site Demonstration Mine 1	General Site members		
Site Demonstration Mine 1	view audit log		
	Configuration and settings	Optional features	
	Optional features Edit	The features made available at this is configurable. Confidentiality	
	Open access (blast data visible all team members) Edit	Blasting parameters and description details for blasts at this site are by default confidential, and only visible to members of the View confidential user group. A site may be	
	Blast type descriptors Edit	configured to make selected blasting information publicly available to all viewers with access to the site. Specific information such as documents and	
	Blast measures Enable the blast outcomes recording function to access	videos may also be marked confidential within the site and never made accessible to users outside the Administrators and View confidential user groups.	
		Site access roles	
		Site managers may view and edit the project	

- 2. Select a user and user type from the drop down boxes.
- 3. Select Add user to site.

Overview         Blasts         Site admin           Demonstration Mine 1         General         Site member           Return to site overview         Site overview         Site overview				Search
Name Rachel Purdie	Organisation Orica	Access role Manager	Action	Site teams The group of users that can access a site is called the site team.
Austin Turner (Orica)	Editor     Add user to site			Each person is given a role within the team which is specific to the site. A person may be a member of more than one site team and have different roles in each team.
				It is also possible to grant access by adding a user to the project team. Project team membership grants access to all sites in the project. The project role may differ from any site roles assigned to that user. The higher access role assigned at a site or project is used when the roles differ.
				For example a user may be granted viewer access to a project and then editor access to a site which allows the user to view all sites but only edit the information at a specific site.

4. Edit a user's access level by clicking on the edit icon next to their name.

Overview         Blasts         Site admin           Demonstration Mine 1         General         Site member           Return to site overview         General         Site member				Search
Name	Organisation	Access role	Action	③ Site teams
Austin Turner	Orica	Editor	/	The group of users that can access a site is
mark.irving@adapa.com.au	Adapa	Contributor	/	called the site team. Each person is given a role within the team
Rachel Purdie	Orica	Manager	1	which is specific to the site. A person may be a member of more than one site team and
aal0 (Orica)	▼ Viewer ▼ Add user to site		$\mathbf{\vee}$	have different roles in each team. It is also possible to grant access by adding a
				user to the project team. Project team in membership grants access to all sites in the project. The project role may differ from any site roles assigned to that user. The higher access role assigned at a site or project is used when the role differ. For example a user may be granted viewer access to a project and then editor access to a site which allows the user to view all sites but only edit the information at a specific site.

5. Reassign a user's access by selecting a role from the drop down menu and then selecting **Update**.

Edit member site access role	(
	? Team access roles
Site access role	Managers may view and edit the site configuration, site user access and blasting information subject to the confidentiality provisions.
Editor Kanager Editor Viewer	Editors may view and edit all blasting information at a site subject to the confidentiality provisions.
Contributor Update Cancel	<b>Contributors</b> may view all blasting information restricted by the confidentiality provisions and add new documents to a site.
	Viewers may view all blasting information restricted by the confidentiality provisions at a site.
	restricted by the confidentiality provisions at a

6. You may remove a user from a site using the remove icon next to their name. Note that the user is able to be added back in after this is performed and it does not remove their BlastIQ login.

Overview Blasts Site admin	My Account Sign-out			Search
Name	Organisation	Access role	Action	③ Site teams
Austin Turner	Orica	Editor	1	The group of users that can access a site is
mark.irving@adapa.com.au	Adapa	Contributor	1 8	called the site team. Each person is given a role within the team
Rachel Purdie	Orica	Manager		which is specific to the site. A person may be a member of more than one site team and
aal0 (Orica)	▼ Viewer ▼ Add user to site			have different roles in each team. It is also possible to grant access by adding a user to the project team. Project team membership grants access to all sites in the project. The project role may differ from any site roles assigned to that user. The higher access role assigned at a site or project is used when the roles differ. For example a user may be granted viewer access to a project and then editor access to a site which allows the user to view all sites but only edit the information at a specific site.

## 7.2.2 Optional Features

Under the **General** tab on the site admin page, features such as blast plans and site maps can be selected to appear on the site page.

1. Click **Edit** under the **Optional features** heading.

CORICA Home Site My Account Sign-out	Search
Overview Blasts Site admin Demonstration Mine 1 General S e members Site Demonstration Mine 1 View with 1 g	
Configuration and settings Optional features Edit Open access (blast data visible all team members) Edit Blast type descriptors Edit Blast measures Enable the blast outcomes recording function to access	Optional features           The features made available at this is configurable.           Confidentiality           Blasting parameters and description details for blasts at this site are by default confidential, and only visible to members of the View confidential user group. A site may be configured to make selected blasting information publicly available to all viewers with access to the site.           Specific information such as documents and videos may also be marked confidential within the site and never made accessible to users outside the Administrators and View confidential user groups.           Site access roles
	Site managers may view and edit the project definition and view and edit information restricted by the confidentially provisions. Site editors may view and edit all blasting information restricted by the confidentially provisions. Site contributors may view all blasting information restricted by the confidentially provisions and add new documents. Site viewers may view all blasting information restricted by the confidentially provisions at the site.

2. Select the relevant features for your site by checking the tick boxes and click **Update**.



3. The selected features will be displayed under **Optional features** and additional tabs will be automatically added to the site (depending on the features selected).

ORICA	Home Site My Account Sign-out		Search	
	Home Site My Account Sign-out		Site	Demonstration Mine 1
	asts Performance Documents Images	Videos Site admin		
Demonstration Mine		tion   Map configuration   LoadPlus		
Site Demonstration Mine 1	View audit log			
	Configuration and settings			
	Optional features	Edit	<b>Optional features</b>	
	Access to LOADPLUS data	Eur	The features made available at this configurable.	is
			Confidentiality	
	Blast plans			
	<ul> <li>Document manager for sites</li> </ul>		Blasting parameters and description blasts at this site are by default con	
	<ul> <li>Drilling depth control graph</li> </ul>		and only visible to members of the	View
	<ul> <li>Drilling deviation graph</li> </ul>		confidential user group. A site ma configured to make selected blastin	
	<ul> <li>Enable measures for blasting</li> </ul>		information publicly available to all	
	<ul> <li>Enable performance and KPI reporting</li> </ul>		with access to the site.	
	Hole temperature		Specific information such as docume videos may also be marked confide	
	<ul> <li>Image gallery for sites</li> </ul>		the site and never made accessible	to users
	<ul> <li>Job pack definition for blasts</li> </ul>		outside the Administrators and Vi confidential user groups.	ew
	Loading data for blasts			
	Manage environmental monitoring of bla	action	Site access roles	
		isting	Site managers may view and edit	
	Provide site folder for temporary files		definition and view and edit informa restricted by the confidentially prov	
	<ul> <li>Site overview mapping</li> </ul>		Site editors may view and edit all b	plasting
	<ul> <li>Through seam blasting details</li> </ul>		information restricted by the confide provisions,	antially
	<ul> <li>Video gallery for sites</li> </ul>		Site contributors may view all blas	ting
			information restricted by the confide	entially
	Confidential blast information	Edit	provisions and add new documents.	
			Site viewers may view all blasting restricted by the confidentially prov	
	Blast type descriptors	Edit	the site.	
	a Black Trees		Deleted sites	
	<ul> <li>Blast Type</li> </ul>		All deleted sites may be restored us	ine
	Blast measures	Edit	System administrator rights.	ing
	blast measures	Eur	Blast descriptors and measures	
	<ul> <li>Excavator E05 Dig Rate</li> </ul>			1 6
			All blasts at this site will have a num customised text descriptors and m	
	Settings	Edit	Descriptors are named labels which	may take a
	Drilling depth tolerance	1.0 m	arbitrary text value or be restricted list of possible values.	to a fixed
	Deck weight loading tolerance	10.0 kg	For example a descriptor may be se	tup with
	Blast plan detail scaling factor (%)	100.0 %	the name "Geology" which takes the	e values
	Hole temperature warm threshold	45.0 °C	"Sandstone", "Weathered zone" or o "IS system" with possible values "S	
	Hole temperture hot threshold	55.0 °C	or "EBS"	gildi cobe
	Hole temperature extreme threshold	100.0 °C	Blast measures are numerical value	
			describe either blasting inputs or ou For example a blast input may be "I	
			time in minutes" with value "205.0"	while an
			output might be "P80 Fragmentation	n" with
			value "1.45"	

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The following features are not currently functional:

- 3D face surface
- Access to automatic fragmentation measurement
- Access to EPaper blast related documentation
- Access to online vibration modelling
- Link to NCVIB online vibration monitoring software

## 7.2.3 Confidential blast information

There are certain items which by default are visible only to Orica users. These items can be made visible to all site users through **Confidential blast information**.

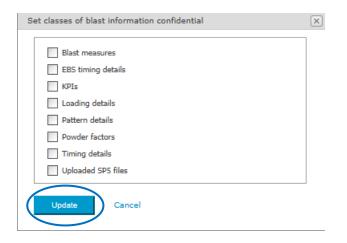
13. Click Edit under the Confidential blast information heading.

ORICA Home Site	My Account Sign-out		Search		
			Site	Demonstration Mine 1	
w Site Map Blasts Performan	ce Documents Images	Videos Site admin			
nstration Mine 1 General	Site members Job pack definition	on Map configuration LoadPlus			
monstration Mine 1 View audit log	·····				
Configuration	-		Optional features		
Optional featu	res	Edit	The features made available at this configurable.	is	
			Confidentiality		
Blast pla				datatle fee	
	t manager for sites		Blasting parameters and description blasts at this site are by default con		
-	epth control graph		and only visible to members of the	View	
<ul> <li>Drilling d</li> </ul>	eviation graph		confidential user group. A site may configured to make selected blasting		
Enable m	easures for blasting		information publicly available to all		
Enable p	erformance and KPI reporting		with access to the site.		
Hole tem	perature		Specific information such as docume videos may also be marked confider		
• Image ga	llery for sites		the site and never made accessible	to users	
	definition for blasts		outside the Administrators and Vi confidential user groups.	ew	
	lata for blasts				
-	nvironmental monitoring of blas	tion	Site access roles		
-		ang	Site managers may view and edit t		
	ite folder for temporary files		definition and view and edit informa restricted by the confidentially provi		
	view mapping		Site editors may view and edit all b	lasting	
	seam blasting details		information restricted by the confide provisions.	entially	
<ul> <li>Video gal</li> </ul>	lery for sites		Site contributors may view all blas	ting	
Confidential bl	ast information	Edit	information restricted by the confide provisions and add new documents.	entially	
			Site viewers may view all blasting		
Blast type des	riptors	Edit	restricted by the confidentially provi the site.	sions at	
Blast Typ			Deleted sites		
			All deleted sites may be restored us	ing	
Blast measure	5	Edit	System administrator rights.		
Excavato	r E05 Dig Rate		All blasts at this site will have a num	aber of	
Settings		Edit	customised text descriptors and m	easures.	
Drilling depth to	erance	1.0 m	Descriptors are named labels which arbitrary text value or be restricted		
Deck weight loa		10.0 kg	list of possible values.		
	scaling factor (%)	100.0 %	For example a descriptor may be se the name "Geology" which takes the		
	e warm threshold	45.0 °C	"Sandstone","Weathered zone" or o	ne named	
Hole temperature		55.0 °C	"IS system" with possible values "Si or "EBS"	gnal tube"	
	e extreme threshold	100.0 °C	or "EBS" Blast measures are numerical value	s which	
			describe either blasting inputs or ou		
			For example a blast input may be "l	oading	
			time in minutes" with value "205.0" output might be "P80 Fragmentation		
			value "1.45"		

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# NOTICE

14. Select items to make confidential by checking the tick boxes and then selecting **Update**.



Selected items will be shown under the **Confidential blast information** heading and only be visible to the View Confidential User group.

CA Home Site My Account Sign-ou	t			
		Site	Demonstration Mine 1	
Map Blasts Performance Documents Image	s Videos Site admin			
on Mine 1 General Site members Job pack de	finition Map configuration LoadPlus			
n Mine 1 View audit log				
Configuration and settings		Optional features		
Optional features	Edit	The features made available at this i	s	
<ul> <li>Access to LOADPLUS data</li> </ul>		configurable.		
<ul> <li>Blast plans</li> </ul>		Confidentiality		
<ul> <li>Document manager for sites</li> </ul>		Blasting parameters and description		
<ul> <li>Drilling depth control graph</li> </ul>		blasts at this site are by default cont and only visible to members of the <b>V</b>		
<ul> <li>Drilling deviation graph</li> </ul>		confidential user group. A site may		
<ul> <li>Enable measures for blasting</li> </ul>		configured to make selected blasting information publicly available to all y		
<ul> <li>Enable performance and KPI reportir</li> </ul>	ng l	with access to the site.		
Hole temperature		Specific information such as docume videos may also be marked confiden		
<ul> <li>Image gallery for sites</li> </ul>		the site and never made accessible t	to users	
<ul> <li>Job pack definition for blasts</li> </ul>		outside the Administrators and Vie confidential user groups.	2W	
<ul> <li>Loading data for blasts</li> </ul>		Site access roles		
<ul> <li>Manage environmental monitoring of</li> </ul>	blasting			
<ul> <li>Provide site folder for temporary file</li> </ul>	5	Site managers may view and edit t definition and view and edit information		
<ul> <li>Site overview mapping</li> </ul>		restricted by the confidentially provi		
<ul> <li>Through seam blasting details</li> </ul>		Site editors may view and edit all b information restricted by the confide		
<ul> <li>Video gallery for sites</li> </ul>		provisions.		
		Site contributors may view all blas information restricted by the confide		
Confidential blast information	Edit	provisions and add new documents.	riciary	
		Site viewers may view all blasting i		
Blast type descriptors	Edit	restricted by the confidentially provi the site.	sions at	
		Deleted sites		
<ul> <li>Blast Type</li> </ul>				
Blast measures	Edit	All deleted sites may be restored usi System administrator rights.	ng	
Excavator E05 Dig Rate		Blast descriptors and measures		
		All blasts at this site will have a num customised text <b>descriptors</b> and <b>m</b>		
Settings	Edit	Descriptors are named labels which		
Drilling depth tolerance	1.0 m	arbitrary text value or be restricted list of possible values,	to a fixed	
Deck weight loading tolerance	10.0 kg	For example a descriptor may be set	tup with	
Blast plan detail scaling factor (%)	100.0 %	the name "Geology" which takes the	values	
Hole temperature warm threshold	45.0 °C	"Sandstone", "Weathered zone" or or "IS system" with possible values "Si		
Hole temperture hot threshold	55.0 °C	or "EBS"		
Hole temperature extreme threshold	100.0 °C	Blast measures are numerical values describe either blasting inputs or out		
		For example a blast input may be "L	oading	
		time in minutes" with value "205.0" output might be "P80 Fragmentation		
		value "1.45"		

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# 7.2.4 Blast Type Descriptors

Blast type descriptors are items used to identify certain characteristics of the blasts. These are customised text descriptors to filter and sort blasts into categories (for example blast type/pre-split) as per site procedure.

1. Click Edit under the Blast type descriptors heading.

Home Site My Account Sign-out		Search		
		Site	Demonstration Mine 1	
Blasts Performance Documents Images Videos	Site admin			
e 1 General Site members Job pack definition Map of View audit log	configuration   LoadPlus			
. View addit log				
Configuration and settings		Optional features		
Optional features	Edit	The features made available at this		
Access to LOADPLUS data		configurable.	IS	
ALCESS to LOADFLOS data     Blast plans		Confidentiality		
		Blasting parameters and description	dataile fee	
Document manager for sites		blasts at this site are by default con	fidential,	
Drilling depth control graph		and only visible to members of the confidential user group. A site may		
<ul> <li>Drilling deviation graph</li> </ul>		configured to make selected blasting		
<ul> <li>Enable measures for blasting</li> </ul>		information publicly available to all	viewers	
<ul> <li>Enable performance and KPI reporting</li> </ul>		with access to the site. Specific information such as docume	onts and	
<ul> <li>Hole temperature</li> </ul>		videos may also be marked confider	itial within	
<ul> <li>Image gallery for sites</li> </ul>		the site and never made accessible outside the Administrators and Vic		
<ul> <li>Job pack definition for blasts</li> </ul>		confidential user groups.		
<ul> <li>Loading data for blasts</li> </ul>		Site access roles		
<ul> <li>Manage environmental monitoring of blasting</li> </ul>		Site managers may view and edit t	ha anniach	
<ul> <li>Provide site folder for temporary files</li> </ul>		definition and view and edit informa	tion	
<ul> <li>Site overview mapping</li> </ul>		restricted by the confidentially provi		
<ul> <li>Through seam blasting details</li> </ul>		Site editors may view and edit all b information restricted by the confide	entially	
<ul> <li>Video gallery for sites</li> </ul>		provisions.		
		Site contributors may view all blas information restricted by the confide		
Confidential blast information	Edit	provisions and add new documents.		
	-	Site viewers may view all blasting i restricted by the confidentially provi		
Blast type descriptors	Edit	the site.	sions at	
		Deleted sites		
Blast Type				
Blast measures	Edit	All deleted sites may be restored us System administrator rights.	ing	
Blast measures	Eait	Blast descriptors and measures		
<ul> <li>Excavator E05 Dig Rate</li> </ul>		All blasts at this site will have a num	ber of	
Settings	Edit	customised text descriptors and m	easures.	
Drilling depth tolerance 1.0		Descriptors are named labels which arbitrary text value or be restricted		
	m D kg	list of possible values.		
	.0 %	For example a descriptor may be se the name "Geology" which takes the		
	0 °C	"Sandstone", "Weathered zone" or or	ne named	
	0 °C	"IS system" with possible values "Si or "EBS"	gnal tube"	
	.0 °C	Blast measures are numerical value	s which	
		describe either blasting inputs or ou	tcomes.	
		For example a blast input may be "L time in minutes" with value "205.0"		
		output might be "P80 Fragmentation		

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## 2. Activate a descriptor by selecting **Activate**.

ORICA Home Site My Account Sign-out	Search
Overview \Site Map \Blasts \Performance \Documents \Images \Videos \Site admin	
Edit blast descriptors for project: Demonstration Mine 1	
Return to site admin	
Descriptor 1 (not in use)	Blast descriptors
Activate	All blasts at this site will have a number of customised text <b>descriptors</b> .
Descriptor 2 (not in use)	Descriptors are blast labels which may take an arbitrary text value or be restricted to a list of possible values.
Activate	For example a descriptor may be setup with the name "Geology" which takes the values "Sandstone", "Weathered zone" or one named "IS system" with possible values "Signal tube" or "EBS"
Descriptor 3 (not in use) Activate	Use blast measures to record text values or attributes associated with each blast. Dont record numerical values in descriptors but rather use blast measures instead.
	Confidentiality
Descriptor 4 (not in use) Activate	Blasting descriptors may contain confidential information and isoluid not not be viewed by external users. A descriptor can be marked confidential to make its values only accessible by users in Administrator and the Orica employee user groups.
Descriptor 5 (not in use) Activate	All external users are by default created in the Valued client group and information marked confidential would not be visible.
	Fixed list values
Descriptor 6 (not in use) Activate	A blast descriptor may be set up to allow free text input or only accept values from a predefined list.
	Filtering blast data
	Blasting descriptors which may be used to filter which blasts are shown on the site map and within the blast are selected in the performance module.
	Sometimes it may be appropriate to choose not to allow a descriptor to be used for filtering in order to simplify the filtering interface

Information relating to blast descriptors is given in the blue box and summarised below:

## Confidentiality -

• Descriptors can be marked confidential to make its values only visible to Orica users.

## Fixed list values –

• Descriptors may be set up to allow free text input or only accept values from a predefined list.

## Filtering blast data –

- Descriptors can be filtered to show only certain types of blasts on the site map
- Sometimes it may be appropriate to choose not to allow a descriptor to be used for filtering in order to simplify the filtering interface.

By default, all blast descriptors are turned off and must be activated and configured before use.

3. Configure the blast descriptor by filling in the information in the **Edit blast descriptor** box.

	1 1 1 1 1 1 1 1 1 1 1 1 1
Edit blast descriptor	X
Descriptor 2	
Display name	
Description	
	$\sim$
	$\sim$
Confidential (only visible to authorized users)	
✓ Use a fixed list of values	
Update Disable descriptor Cancel	

## Display name –

• Name that will be displayed to identify the type of blast descriptor.

## Confidential descriptor –

• The blast descriptor will be only visible to Orica users if confidential descriptor is selected.

## Use a fixed list of values –

• It is recommended to keep this box ticked. This will make it easier to filter on a site map, and to sort and filter on the blast list (see Section 4.4 Viewing the Site Map).

4. Once the descriptor information has been entered click **Update.** 

Edit blast descriptor	5	ĸ
Descriptor 1		
Display name		
Blast Type		
Description		
The type of blast categorized as per site procedure.		
	$\sim$	
Confidential (only visible to authorized users)		
Use a fixed list of values		
Update Disable descriptor Cancel		

5. If the **"Use a fixed list of values"** was selected, an option to edit the **Value list** will appear. Click **Edit List** to edit the valve list.

ORICA	Home Site My Account Sign-out	Search	
verview Site Map Bla	asts Performance Documents Images Videos Site admin		
dit blast descriptors eturn to site admin	for project: Demonstration Mine 1		
	Descriptor 1 - Blast Type		
		3 Blast descriptors	-
	The type of blast categorized as per site procedure.	All blasts at this site will have a number of customised text <b>descriptors</b> .	
	× Confidential	Descriptors are blast labels which may take a	
	✓Use fixed list of possible values	arbitrary text value or be restricted to a list o possible values.	
	Filter using option check boxes Edit Value list	For example a descriptor may be setup with the name "Geology" which takes the values "Sandstone", "Weathered zone" or one named "IS system" with possible values "Signal tube or "EBS"	
	Edit-List	Use blast measures to record text values or attributes associated with each blast. Dont record numerical values in descriptors but rather use blast measures instead.	
	Descriptor 2 (not in use)	Confidentiality	
	Activate	Blasting descriptors may contain confidential information and should not not be viewed by external users. A descriptor can be marked confidential to make its values only accessible by users in Administrator and the Orica employee user groups.	
	Descriptor 3 (not in use)	All external users are by default created in the Valued client group and information marked	
	Activate	confidential would not be visible.	
		Fixed list values	
	Descriptor 4 (not in use) Activate	A blast descriptor may be set up to allow free text input or only accept values from a predefined list.	
		Filtering blast data	
	Descriptor 5 (not in use)	Blasting descriptors which may be used to filter which blasts are shown on the site map and within the blast are selected in the performance module.	
	Descriptor 6 (not in use)	Sometimes it may be appropriate to choose not to allow a descriptor to be used for filtering in order to simplify the filtering interface	
	Activate		
	Activate		

6. Enter in the values associated with the descriptor, and for each value click **Add new.** Click **Update** once all values are entered.

ookup values	
roduction	Edit Delete
re-split	Edit Delete
verburden	Edit Delete

7. The list of values will now appear in the descriptor. Click Return to site admin.

ORICA Home Site My Account Sign-out	Search
view \ Site Map \ Blasts \ Performance \ Documents \ Images \ Videos \ Site admin \	
blast descriptors for project: Demonstration Mine 1 m to site admin	
Descriptor 1 - Blast Type	③ Blast descriptors
The type of blast categorized as per site procedure.	All blasts at this site will have a number of customised text <b>descriptors</b> .
X Confidential ✓ Use fixed list of possible values	Descriptors are blast labels which may take an arbitrary text value or be restricted to a list of possible values.
Filter using option check boxes Edit	For example a descriptor may be setup with the name "Geology" which takes the values "Sandstoe", "Weatherd come" or one named "IS system" with possible values "Signal tube" or "EBS"
Production     Pre-split     Overburden	Use blast measures to record text values or attributes associated with each blast. Dont record numerical values in descriptors but rather use blast measures instead.
Edit-List	Confidentiality
Descriptor 2 (not in use) Activate	Blasting descriptors may contain confidential information and should not not be viewed by external users. A descriptor can be marked confidential to make its values only accessible by users in Administrator and the Orica employee user groups. All external users are by default created in the
	Valued client group and information marked confidential would not be visible.
Descriptor 3 (not in use)	Fixed list values
Activate	A blast descriptor may be set up to allow free text input or only accept values from a predefined list.
Descriptor 4 (not in use)	Filtering blast data
Activate	Blasting descriptors which may be used to filter which blasts are shown on the site map and within the blast are selected in the performance module.
Descriptor 5 (not in use) Activate	Sometimes it may be appropriate to choose not to allow a descriptor to be used for filtering in order to simplify the filtering interface
Descriptor 6 (not in use)	
Activate	

## 7.2.5 Blast Measures

The following describes how to create blast measures for the site. Blast measures are numerical values which describe the blast (for example "Loading time in minutes" with a value of 205.5).

1. Click **Edit** under the **Blast measures** heading.

			Search		
	Home Site My Account Sign-out		Site	Demonstration Mine 1	~
Overview Site Map Bl	lasts Performance Documents Images Vie	deos Site admin			
Demonstration Mine					
Site Demonstration Mine 1	View audit log	hap configuration couchas			
	Configuration and settings		Optional features		
	Optional features	Edit	The features made available at this	is	
	<ul> <li>Access to LOADPLUS data</li> </ul>		configurable.		
	Blast plans		Confidentiality		
	<ul> <li>Document manager for sites</li> </ul>		Blasting parameters and descriptio	n details for	
	Drilling depth control graph		blasts at this site are by default co		
	Drilling deviation graph		and only visible to members of the confidential user group. A site ma		
	Enable measures for blasting		configured to make selected blastir		
	Enable performance and KPI reporting		information publicly available to all with access to the site.	viewers	
			Specific information such as docum		
	Hole temperature		videos may also be marked confide the site and never made accessible		
	Image gallery for sites		outside the Administrators and V		
	<ul> <li>Job pack definition for blasts</li> </ul>		confidential user groups.		
	<ul> <li>Loading data for blasts</li> </ul>		Site access roles		
	<ul> <li>Manage environmental monitoring of blastin</li> </ul>	9	Site managers may view and edit	the project	
	<ul> <li>Provide site folder for temporary files</li> </ul>		definition and view and edit inform restricted by the confidentially prov		
	<ul> <li>Site overview mapping</li> </ul>		Site editors may view and edit all		
	<ul> <li>Through seam blasting details</li> </ul>		information restricted by the confid		
	<ul> <li>Video gallery for sites</li> </ul>		provisions. Site contributors may view all bla		
			information restricted by the confid		
	Confidential blast information	Edit	provisions and add new documents		
			Site viewers may view all blasting restricted by the confidentially prov		
	Blast type descriptors	Edit	the site.		
	Blast Type		Deleted sites		
		$\frown$	All deleted sites may be restored u	sing	
	Blast measures	Edit	System administrator rights.		
	Excavator E05 Dig Rate		Blast descriptors and measures		
	0-W	Edit	All blasts at this site will have a nu customised text <b>descriptors</b> and <b>r</b>		
	Settings		Descriptors are named labels which arbitrary text value or be restricted		
	Drilling depth tolerance	1.0 m	list of possible values.	to a lived	
	Deck weight loading tolerance	10.0 kg 100.0 %	For example a descriptor may be s		
	Blast plan detail scaling factor (%) Hole temperature warm threshold	100.0 % 45.0 °C	the name "Geology" which takes th "Sandstone", "Weathered zone" or o		
	Hole temperature warm threshold Hole temperture hot threshold	45.0 °C	"IS system" with possible values "S		
	Hole temperature extreme threshold	100.0 °C	or "EBS"	a a dhiada	
	note compensate extreme threshold	10010 0	Blast measures are numerical value describe either blasting inputs or o		
			For example a blast input may be		
			time in minutes" with value "205.0 output might be "P80 Fragmentatic value "1.45"		

Value "1.45" Terms & Conditions | © Copyright 2015 Orica Limited. All rights reserved. | Build 1.19

2. Select Create a new measure.

			s	earch	
Overview Site Map Blasts Performance Documents Images	Videos Site admin				
Edit blast measures for project: Demonstration Mine 1 Create a new measure Return to site admin					
In use Display name	Description	Confidential	KPI	Map data	Action
No data to display					

3. Configure the blast measure by filling in the information in the **Create blast measure** box.

<b>~</b>			<b>C (</b> 1)		
ORICA Home Site My Account Sign	-out		Search	Demonstration Mine 1	~
			5108	Demonacración Prine 1	<u> </u>
Overview Site Map Blasts Performance Documents Ir	nages Videos Site admin				
Create blast measure					
ĺ					
	Display name	_			
		_			
	Description				
		^			
		~			
	Connection with uploaded data				
	Do not use SHOTPlus5 uploaded data for this measure	<b>~</b> ]			
	Units				
		_			
	Num of decimal places				
		_			
	Maximum valid value	_			
	Minimum valid value	_			
	No. Diselas D.L.W.				
	Map Display Palette Do not display on map	-			
	of het display on map				
	Percentage value				
	Is confidential				
	Use as key performance indicator (KPI)				
	Add Cancel				
l					

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## Display name –

• Name that will be displayed to identify the type of blast measure.

#### Connection with uploaded data –

- Data can be extracted from SHOTPlus5<sup>™</sup> or from environmental values recorded against points of interest.
- Data can also be entered manually by selecting "Don't use uploaded data for this measure".

D	ont use uploaded data for this measure
D	ont use uploaded data for this measure
D	igability performance 0-100% from SP5
D	ust generation performance 0-100% from SP5
Fl	loor control performance 0-100% from SP5
Fr	ragmentation performance 0-100% from SP5
La	argest peak recorded airblast value from any POI
La	argest recorded peak particle measurement from any POI
М	lesh size passing 20% of material from assessment systems
М	lesh size passing 80% of material from assessment systems
0	verbreak performance 0-100% from SP5
s	P5 calculated powder factor
тł	hrow performance 0-100% from SP5
w	all control performance 0-100% from SP5

## Units –

• Type the unit's abbreviation for the measure (eg. bcm/hr). Note: These units will not be affected by the user's unit settings.

## Num of decimal places -

• Restrict the number of decimal places a user can enter for the measure

## Maximum and Minimum valid value -

• Maximum and minimum values can be defined for the measure to reduce errors.

## Map Display Palette –

• Select the colour scheme used for displaying this measure on the site map.

## Percentage value -

• The measure can be displayed as a percentage

# Is confidential -

• The measure can be confidential (will only be visible to Orica users)

## Use as key performance indicator (KPI) –

• The measure can be put as a key performance indicator and will appear in the performance tab.

4. Enter relevant values for the measure and click **Add**.

Excavator E05 Dig Rate	
Description	
Dig rate for Hitachi 3500 number EX05	/
Connection with uploaded data	
Do not use SHOTPlus5 uploaded data for this measure	~
Units	
tne/hr	
Num of decimal places	
0	
Maximum valid value	
10000	
Minimum valid value	
0	
Map Display Palette	
Do not display on map	~
Percentage value	
Is confidential	
Use as key performance indicator (KPI)	

Blast measures will then appear in list form on the page. Use the edit icon to make changes to the blast measure and the up and down arrows to change the order that the measures will be displayed in lists.

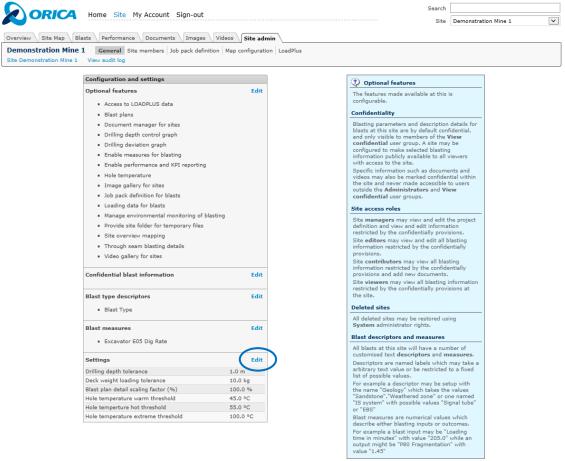
2	Home Site My Account	t Sign-out	:	Search			
Overview	Site Map Blasts Performance Docume						
	Edit blast measures for project: Demonstration Mine 1         Create a new measure       Return to site admin						
In use	Display name	Description	Confidential	KPI	Map data	Action	
×	Excavator E05 Dig Rate	Dig rate for Hitachi 3500 number EX05.	×	<ul> <li>Image: A second s</li></ul>	<ul> <li>Image: A second s</li></ul>		

A blast measure can also be made inactive, meaning that new blasts from that point onwards will not prompt for the measure to be entered. Historical data for that measure will remain stored.

# 7.2.6 Settings

The following describes how to modify the settings for the site.

1. Click **Edit** under the **Settings** heading.



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2. Enter any new values in the appropriate field.

Settings	Blasting p
-	×
Drilling depth tolerance (m)	
1.0	
Deck weight loading tolerance (kg)	
10.0	
Blast plan details scaling factor (%) (%)	
100.0	
Hole temperature warm threshold (°C)	
45.0	
Hole temperature hot threshold (°C)	
55.0	
Hole temperature extreme threshold (°C)	
100.0	
Blast plan details scaling factor (%)	
100.0	
Update Cancel	

Drilling deck tolerance and deck weight loading tolerance are used to highlight out of tolerance values on maps and plans.

# NOTICE

Blast plan details scaling factor is used to change the size of text and icons on the blast plan/s.

Temperature thresholds should be set according to the site's hot ground management plan.

3. Select **Update**.

# 7.3 CREATING A JOB PACK DEFINITION

To manage job packs through BlastIQ, a job pack definition must be created. The job pack definition will outline the items that need to be completed in the job pack.

1. Under Job pack definition select Add New Job Pack Item.



2. Enter the details of the job pack item.

Update	(
Description	
Source of data for this item	
File	•
Job pack item is optional	
Confidential	
Allowed file extensions (e.g. ".docx .doc .rtf")	
Section to place this job pack under	
	~
Notes	
Document Folder	//
Update Cancel	

## Description –

• Name of the job pack item.

#### Source of data for this item –

• The source of data for the item can be selected as **File** or **Manual** from the drop down list (Sections 7.3.1 and 7.3.2 give additional information for configuring the item for each source).

#### Job pack item is optional –

 If the job pack item is optional, it does not have to be complete for the job pack to be audited as "complete".

## Confidential –

• Selecting **Confidential** will make the item only visible to Orica users.

## Allowed file extensions –

 Entering the allowed file extensions provides a filter to restrict the file types that users can load against the item. For example a survey file that must be uploaded in the correct format for users to view the file on their computers. This will only appear if **File** is selected for the source of data. Multiple file extensions should be separated by **spaces**.

#### Section to place this job pack under -

- This will create a high level section heading that the job pack item will be placed under.
- A new heading can be created, or an existing one selected from the drop down list.

#### Notes –

• Notes can be added to describe the item.

## Document Folder –

- Entering a document folder will create a folder in the documents tab under the blast (document management is explained in Section 6.10).
- The file from the job pack item will be stored in this folder after it is uploaded.
- 3. After information is added, click **Update**.

Update	x
Description	
Pattern Design Calculation Sheet	
Source of data for this item	1
File T	
Job pack item is optional	I
Confidential	
Allowed file extensions (e.g. ".docx .doc .rtf")	
,xls ,xlsx	
Section to place this job pack under	
Designs and Calculations	
Notes	
Use the design calculation template found in the site templates folder	
Document Folder	
Pre-Blast Documents	
Update Cancel	

4. The job pack item will then be displayed in list form. Items can be edited, removed, reordered with up/down arrows and indented using the toggle keys next to the item.

Rome Site My Account Sign-out	Search
Overview Site Map Blasts Performance Documents Images Videos Site admin	
Job Pack General Site members Job pack definition Map configuration LoadPlus RockFrag EPaper	
Site Demonstration Mine 1 Add New Job Pack Item Edit Job Pack Title	
🐼 Item updated	
Designs and Calculations $\mathscr{I}$ $\uparrow$ $\downarrow$	
Pattern Design Calculation Sheet	≠ t t t t t t t t t t t t t t t t t t t
	Job pack template last updated 10/07/2015 9:47 AM by Rachel Purdie

5. All job pack items will appear on the page after they are entered, and section headings can be edited and re-ordered with up/down arrows.

Home Site My Account Sign-out	Search Site	Demonstration Mine 1	V
Overview Site Map Blasts Performance Documents Images Videos Site admin			
Job Pack         General         Site members         Job pack definition         Map configuration         LoadPlus           Site Demonstration Mina 1         Add New Job Pack Itam         Edit Job Pack Title         Configuration         Configuration			
Approvals / t			
Approved for Drilling		/ 01199	
Approved for Loading		/ 8 t i e e	
Approved for Firing		N 🛛 🕇 🖡 🗐 🗐	
Designs and Calculations 🖉 🕇 🗍			
Pattern Design Calculation Sheet		/01199	
Survey Data 🖉 🕇 🖡			
Bench Surface Survey		/81499	
	Job pack template last updated 12/11/2015	2:16 PM by Scott Feeney	

# 7.3.1 Configuring to Upload a Job Pack Item from File

Selecting **File** as the source of data for the item will give an upload button next to the job pack item. It will also give the option to specify **Allowed file extensions**.

	Update 🔀
	Description
	Source of data for this item
	File 🔻
	Job pack item is optional
	Confidential
4	Allowed file extensions (e.g. ".docx .doc .rtf")
	Section to place this job pack under
	$\overline{}$
	Notes
	Document Folder
	Update Cancel

#### Allowed file extensions -

• Entering the allowed file extensions provides a filter to restrict the file types that users can load against the item. For example a survey file that must be uploaded in the correct format for users to view the file on their computers.

## 7.3.2 Configuring to Manually Enter a Job Pack Item

Selecting **Manual** as the source of data makes the item a tick box which can be checked when appropriate (for example "Approved for Drilling"). When the box is ticked, it applies a time stamp and records the user who ticked the box. A user can also make a comment associated with the item.

Update	×
Description	-
Approved for Drilling	
Source of data for this item	_
Manual 🔻	
Job pack item is optional	
Confidential	
Section to place this job pack under	
Approvals 💙	
Notes	
Customer drill and blast supervisor must tick this before sending file to drill.	
Document Folder	
	1
	_
Update Cancel	

# 7.4 CONFIGURING SITE MAP

The site map is an optional feature that can be turned on through the Features selection.

## 7.4.1 Define Site Map Coordinate System

The following describes how to select the correct coordinate system for the site location.

1. Under Map configuration select Edit.

🕐 OR	Home Site My A	ccount Sign-out	Search
verview Site	Map Blasts Performance	Documents Images Videos Site admin	
Demonstrati	on Mine 1 General Site me	mbers Job pack definition Map configuration DeadPlus RockFrag EPaper	
	ion Mine 1 View site map	Hers so pack definition hap configuration chains hocking croper	
ite mapping			
NCVIB Project	Id		
Coordinate sy	stem		
	o mapping is possible until defined		
Altitude at zero	elevation ?		
Map centred a	t (latitude,longitude)		
Not defined			
Use white backs	jround		
		$\frown$	
		Edit	
Upload DXF, co	ordinated JPEG image or SP5 overla	y (.xol)	
Execute a re-ma	apping job		
Edit site overlay			
Go to site map			
do to site map			
Map layers			
Group	Layer	Source of data	1
Blasts			-
	Blast centre	Shows a marker corresponding to the centre of each blast	
	Blast bounds	Shows a polygon marking the boundary of each blast	
	Excavator E05 Dig Rate	Visualises the values of the 'Excavator E05 Dig Rate' measure as a marker for each blast	
	PPV Exceedance	blast Visualises the values of the 'Max PPV' measure as a marker for each blast	
		blast	

2. Choose a coordinate system.

If information on your site coordinate system has been communicated to the system administrator, they can tell you which coordinate system to select, or they can select it for you.

RICA Home Site My Account Sign-out	Search
Overview Site Map Blasts Performance Documents Images Videos Site admin	
Edit site map configuration	

	er project ID	
Coordinate sys	tem	
No coordinate sy	stem defined	( 🖸 )
GPS altitude of	zero site elevation (m)	$\sim$
Use black m	ap background	

### Local coordinates defined using 3 control points -

• If a site is using a custom coordinate system, the coordinates can be transformed by using 3 known points on the site by entering their latitude and longitude and their easting and northing. Uncheck the 'Use coordinates in metres' box if the easting and northing values are entered in feet.

NCVib map server projec	t ID		
Coordinate system			
Local coordinates defined u	sing 3 control points	~	
GPS altitude of zero site	elevation (m)		
0.0			
Local control points			
Point Latitude (°N)	Longitude (°E)	Easting (m)	Northing (m)
Α			
в			
с			
<ul> <li>Use coordinates in metric</li> </ul>	res (otherwise use feet)		
Use black map backgro	und		
Update Cancel			

### Local coordinates defined using custom transform parameters -

• The site surveyor may be able to provide custom transformation parameters.

NCVib map server project	ID		
Coordinate system			
Local coordinates defined us	sing 3 control points	~	
GPS altitude of zero site e	levation (m)		
0.0			
Local control points			
Point Latitude (°N)	Longitude (°E)	Easting (m)	Northing (m)
A			
в			
с	]		
✓ Use coordinates in metr	es (otherwise use feet)	)	
Use black map backgrou	nd		
Update Cancel			

3. Enter the correction number in **GPS altitude of zero elevation** if the site uses an elevation that is different to GPS elevation.

ORICA Home Site My Account Sign-out	Search
Overview Site Map Blasts Performance Documents Images Videos Site admin Edit site map configuration	
NCVib map server project ID	
Coordinate system Australia MGA Zone 50/GDA94 Suitable for 114°E to 120°E 🗸	
GPS altitude of zero site elevation (m) 0 Use black map background	

## 4. Select **Update.**

Rome Site My Account Sign-out	Search
Overview Site Map Blasts Performance Documents Trages Videos Site admin	
Edit site map configuration	

Coordin	ate system			
Australi	MGA Zone 50/GD/	94 Suitable fo	or 114°E to 120°	E
o o	ude of zero site e	evation (m)		

#### 5. Select OK.



6. If the coordinate system is changed after data is entered, select **Execute a re-mapping job** in **Map configuration**. This will transform all current site data to the new coordinate system.

	Home Site My Ac	count Sign-out	Search
Overview Site I	Map Blasts Performance D	ocuments Images Videos Site admin	
Demonstratio	n Mine 1 General Site men	nbers Job pack definition Map configuration LoadPlus RockFrag EPaper	
Site Demonstratio			
		ed to use "MGA Zone 50/GDA94 Suitable for 114°E to 120°E.". If this site conta tem by executing a re-mapping job.	ins existing coordinates these may need to be
ite mapping			
NCVIB Project I	d		
Coordinate syst	em		
	A94 Suitable for 114°E to 120°E.		
Map centred at	(latitude,longitude)		
Not defined			
Use white backgr	ound		
		Edit	
Upload DXF, coor	dinated JNEG image or SP5 overlay	(.xol)	
Extension	ping Job		
Edit site overlay	ayers		
Go to site map			
Map layers			
Group	Layer	Source of data	
Blasts			
	Blast centre	Shows a marker corresponding to the centre of each blast	
	Blast bounds	Shows a polygon marking the boundary of each blast	
	Excavator E05 Dig Rate	Visualises the values of the 'Excavator E05 Dig Rate' measure as a marker for eac blast	ch
	PPV Exceedance	Visualises the values of the 'Max PPV' measure as a marker for each blast	
	Airblast Exceedance	Visualises the values of the 'Max Airblast' measure as a marker for each blast	
	Filter by Blast Type	Filters the display of blast markers which match values of the 'Blast Type' descriptor	

# 7.4.2 Uploading a Map Overlay

The site map may contain a number of overlay layers containing lines, polygons, circles and text, or a georeferenced jpeg image. An imported layer either replaces the contents of existing layers with the same names or creates additional layers with the imported layer names.

1. Select Upload DXF, coordinated JPEG image or SP5 overlay (.xol).

	Home Site My Acco	ount Sign-out	Search	
verview Site	Map Blasts Performance Doc	uments Images Videos Site admin		
)emonstratio	on Mine 1 General Site membe	ers Job pack definition Map configuration LoadPlus RockFrag EPaper		
ite Demonstratio	on Mine 1 View site map			
	ordinate system has been updated d to the new site coordinate syste	l to use "MGA Zone 50/GDA94 Suitable for 114°E to 120°E.". If this site co m by executing a re-mapping job.	tains existing coordinates these may need	to be
ite mapping				
NCVIB Project	Id			
Coordinate sys	tem			
MGA Zone 50/GI Altitude at zero	DA94 Suitable for 114°E to 120°E. elevation 0.0 m			
Map centred at	(latitude,longitude)			
Not defined				
Use white backgr	round			
		Edit		
Upload DXF, coo	rdinated JPEG image or SP5 overlay (	llox.		
Execute a re-ma	pping job			
Edit site overlay	layers			
Go to site map				
Map layers		Source of data		
Group	Layer			
	,			
Group	Blast centre	Shows a marker corresponding to the centre of each blast		
Group	,		each	
Group	Blast centre Blast bounds	Shows a marker corresponding to the centre of each blast Shows a polygon marking the boundary of each blast Visualises the values of the "Excavator EOS Dig Rate" measure as a marker for	tach	
Group	Blast centre Blast bounds Excavator E05 Dig Rate	Shows a marker corresponding to the centre of each blast Shows a polygon marking the boundary of each blast Visualises the values of the 'Excavator E05 Dig Rate' measure as a marker for blast	each	

2. Browse for the relevant file and click **Upload**.

Upload (	nap data overlay file from SHOTPlus™5			X
Select	document to upload			
CB_E	KTENTS.xol	×	Browse	
U	Cancel			

3. If uploading a DXF or XOL file, individual layers can be selected for upload. Each layer will be selectable on the site map individually. This screen also displays how many items are on each respective layer.

VIEV Site Map Blasts / Performance / Documents / Images / Videos / Site admin			Search
nding overlay layer import request for site [Demonstration Mine 1]			
lease select layers from file "CB_EXTENTS.xol" to be added to the site map or their contents	updated.		Processing overlays
Process Action Layer name	Items	Confidential	This form setups up the background job to import graphical data onto the site map. T
New CB_EXTENTS	630		site map may contain a number of overlay layers up to the maximum configured limit
There are currently 0 layers defined as map overlays and at most only 8 overlays can be used Process Abort			comprising lines, polygons, circles and tex a geo-referenced jpeg image. Importing a .dxf or SHOTPlus 5 .xol file al multiple layers to be defined at once while image files define a single layer. Imported layers either replace the content existing layers with the same names or no additional layers with the imported layer names. The layer names can be subseque edited using the "fait site overlay layers" on indexts and will not be visible to non- uers.
			DXF and XOL vector graphics DXF and XOL files defined a number of lay containing lines, polygons, circles, and tex These coordinates should be defined in me
			XOL files allow polygons to be filled and w allow the use of layer names containing symbols normally prohibited within DXF la names such as "<>+=-/\".
			Georeferenced JPEG images
			Image files are imported according to the standard geo-referencing information commonly found in the .guy file. For exam 2 9 9 -2 326350.454001604 6000799.4053348311 The first and fourth lines provide the x pix size, and y pixel size while the last two lin give the easting and northing of the top le

Information relating to overlay imports are given in the blue box and summarised below:

## DXF and XOL-

- DXF and XOL files define a number of layers containing lines, polygons, circles and text.
- XOL files allow polygons to be filled and will allow the use of layer names containing symbols.

## Georeferenced JPEG images -

• Image files are imported according to the georeference information found in a matched .jgw file.

4. Tick the layers that will be shown on the site map and select **Process**.

Verview Site Map Blasts Performance Documents Images Videos Site admin			Search
Pending overlay layer import request for site [Demonstration Mine 1]			
Please select layers from file "CB_EXTENTS.xol" to be added to the site map or their contents	ıpdated.		Processing overlays
Process Action Layer name	Items	Confidential	This form setups up the background job to import graphical data onto the site map. T
New CB_EXTENTS	630		site map may contain a number of overlay layers up to the maximum configured limit
Abort			a geo-referenced jpeg image. Importing a .dxf or SNOTDlus 5xol file a multiple layers to be defined at once whil image files define a single layer. Imported layers either replace the conten- existing layers with the imported layer- names. The layer names can be subseque edited using the "edit site overlay layers" on the next page. Layers may be marked confidential and will not be visible to non- users. <b>DXF and XOL vector graphics</b> DXF and XOL vector graphics These coordinates should be defined in m XOL files allow polycops, to filed and- allow the use of layer names containing symbols normally prohibited within DXF II. names such as "<>+=-/\".
			Georeferenced JPEG images
			Image files are imported according to the standard geo-referencing information commonly found in the .gw file. For exa a typical gw would contain 2 9 9 -2 326350.45408101654 6090799.4053348311 The first and fourth lines provide the x pi size, and y pixel size while the last two li give the easting and northing of the top J corner of the image. Currently only metri values for the coordinates can be used an images must be algoed to the easting an northing directions. (ie the second and th lines must be zero)

The information will then be displayed under **Map layers**. To edit site overlays select **Edit site overlay layers**.

		Account Sign-out	Search	
<b>O</b> RIO	Home Site My	Account Sign-out		
verview \ Site Ma		Documents   Images   Videos   Site admin		
emonstration		embers Job pack definition Map configuration LoadPlus RockFrag EPaper		
te Demonstration	Mine 1 View site map			
te mapping				
ICVIB Project Id	l i i i i i i i i i i i i i i i i i i i			
coordinate syste				
-	 A94 Suitable for 114°E to 120°E.			
Altitude at zero ele				
lap centred at (	latitude,longitude)			
Not defined				
lse white backgrou	und			
		Edit		
xecute a re-mapp	ping job			
ixecute a re-mapp idit site overlay la do to site map <b>1ap layers</b>				
dit site overlay la to to site map		Source of data		
idit site overlay la so to site map <b>1ap layers</b>	iyers	Source of data		
dit site overlay la so to site map <b>1ap layers</b> Group Site map	Layer			
idit site overlay la so to site map fap layers Group	iyers	Source of data An overlay layer produced in SP5 or from a DXF and uploaded to BLIS		
dit site overlay la so to site map <b>1ap layers</b> Group Site map	Layer			
dit site overlay la so to site map Aap layers Group Site map	Layer			
dit site overlay la so to site map Aap layers Group Site map	CB_EXTENTS	An overlay layer produced in SP5 or from a DXF and uploaded to BLIS Shows a marker corresponding to the centre of each blast Shows a polygon marking the boundary of each blast		
dit site overlay la so to site map Aap layers Group Site map	CB_EXTENTS Blast centre	An overlay layer produced in SP5 or from a DXF and uploaded to BLIS Shows a marker corresponding to the centre of each blast		
dit site overlay la so to site map Aap layers Group Site map	CB_EXTENTS Blast centre Blast bounds	An overlay layer produced in SP5 or from a DXF and uploaded to BLIS Shows a marker corresponding to the centre of each blast Shows a polygon marking the boundary of each blast Visualises the values of the 'Excavator E05 Dig Rate' measure as a marker for each blast Visualises the values of the 'Max PPV' measure as a marker for each blast		
dit site overlay la so to site map Aap layers Group Site map	CB_EXTENTS Blast centre Blast bounds Excavator E05 Dig Rate	An overlay layer produced in SP5 or from a DXF and uploaded to BLIS Shows a marker corresponding to the centre of each blast Shows a polygon marking the boundary of each blast Visualizes the values of the 'Excavator EO5 Dig Rate' measure as a marker for each blast		

From the edit screen, delete or download a copy of the layer, or make the layer confidential. Select **Update** to save changes.

	CA Home Site My Account Sign-out			Search
Overview Site 1	Map \Blasts \Performance \Documents \Images \Videos \Site admin	n		
[Demonstratio	on Mine 1] currently has the following overlay layers defined			2 Edit site map overlays
Delete	Layer name	Confidential	Download	The list of site map overlay layers is shown. To
	CB_EXTENTS		Download	delete a layer tick the delete checkbox and press the update button. The overlay layer name may
Update	Cancel			be changed but no layer may have a blank name and no two overlays can have the same name.

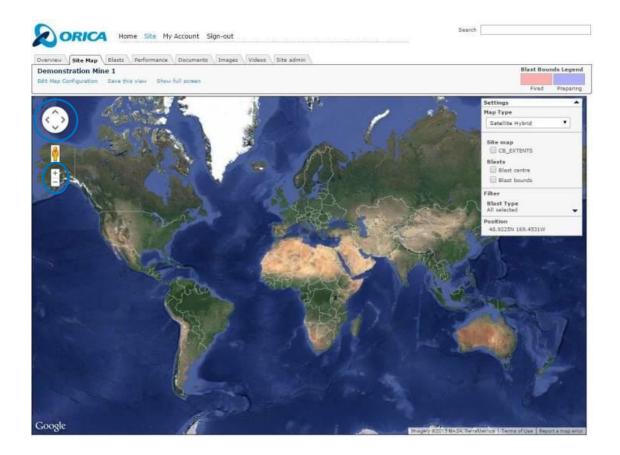
### 7.4.3 Select a Default Site Map View

The following describes how to setup a default map view that will be shown whenever any user views the **Site map**.

1. Under Map configuration select Go to site map.

	Home Site My Accou	ant Gan out	Search				
<b>ORI</b>	Home Site My Accou	int Sign-out					
Overview Site Map Blasts Performance Documents Images Videos Site admin							
Demonstration		s Job pack definition Map configuration LoadPlus RockFrag EPaper					
	Demonstration Mine 1   General Site members Job pack definition map configuration Loadvius RockFrag Evaper						
Site mapping							
NCVIB Project Id							
Coordinate syste	m						
MGA Zone 50/GDA Altitude at zero ele	194 Suitable for 114°E to 120°E. evation 0.0 m						
Map centred at (	latitude,longitude)						
Not defined							
Use white backgrou	und						
		Edit					
		Lor					
	inated JPEG image or SP5 overlay (.x	ol)					
Execute a re-mapp							
Edit site overlay la	yers						
Go to site map							
Map layers							
Group	Layer	Source of data					
Site map							
a martine	CB EXTENTS	An overlay layer produced in SP5 or from a DXF and uploaded to BLIS					
Subject of the	CD_EXTENTS	An overlay layer produced in 5F5 of norma DXF and oproaded to bits					
Blasts	Blast centre	Shows a marker corresponding to the centre of each blast					
	Blast bounds	Shows a polygon marking the boundary of each blast					
	Excavator E05 Dig Rate	Visualises the values of the 'Excavator E05 Dig Rate' measure as a marker for each blast					
	PPV Exceedance	Visualises the values of the 'Max PPV' measure as a marker for each blast					
	Airblast Exceedance	Visualises the values of the 'Max Airblast' measure as a marker for each blast					
	Filter by Blast Type	Filters the display of blast markers which match values of the 'Blast Type' descriptor					

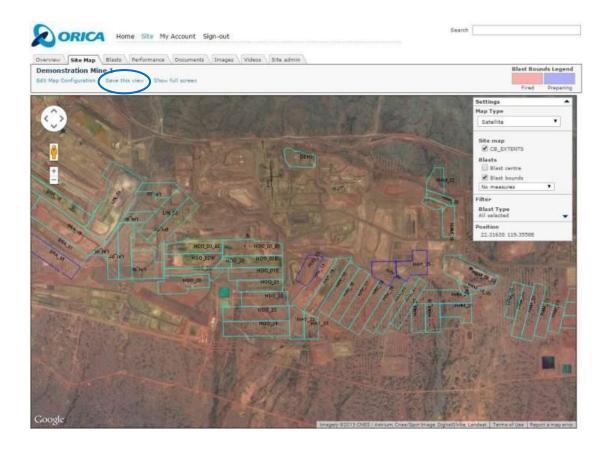
## 2. Use the map's zoom and pan functions to find the site.



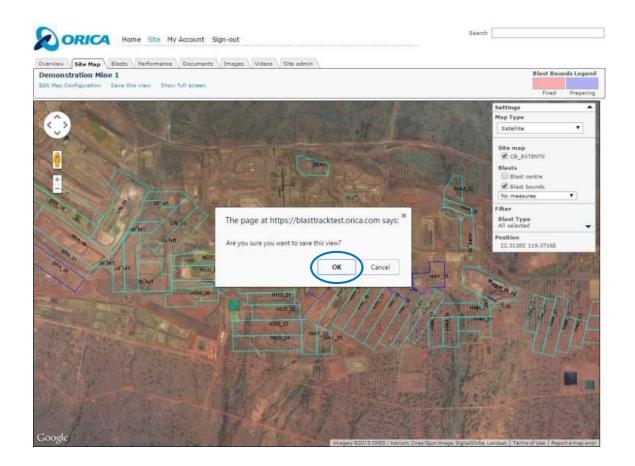
3. Turning on the DXF layers may assist in finding the location of the site.



4. Once the map is at an appropriate zoom and area of the map, select **Save this view**.



5. Select OK.



The current view and layers visible on the screen will be the default site map view for any users that visits the site on BlastIQ. This can be changed at any time to adjust the area or layers visible.

## 7.5 SETTING UP LOADPLUS CONNECTION

1. Contact a BlastIQ administrator to configure connection to the LOADPlus system.

Once configured, LOADPLus Connection provides the following information:

ORICA	Home Site My Account A	Admin Sign-out						
						Site I	Demonstration Mine 1	[
verview Site Map Bla	asts Performance Documents	Images Videos Site admin	n					
emonstration Mine	1 General Site members Job	pack definition Map configuration	LoadPlus					
pdate products Submit a	add new blasts job Submit status	update job						
adPlus configuration								
adPlus site name	MT ARTHUR COAL	Loadplus product	t list updated :	succesfully				
ta refresh time (mins)	15							
adPlus updates	Active							
st update	Never	Product definitions						
st product update	12/11/2015 2:43 PM	Name			Density (g/cc)	Type	Code	
stem status	System Ok	ANFO CUSTOMER SPECIAL 0	.800		0.800	E)	BANFC	
		AQUACHARGE CLEAR CUSTO	MER SPECIAL 1	.200	1.200	E)	BAQCLRC	
		AQUACHARGE CLEAR CUSTO	MER SPECIAL 1	.250	1.250	E)	BAQCLRC	
		FORTAN COAL 10 CUSTOMER	R SPECIAL 1.000	)	1.000	E)	BFNCL10C	
		FORTAN COAL 11 CUSTOMER	R SPECIAL 1.100	)	1.100	E)	BFNCL11C	
		FORTAN COAL 12 CUSTOMER	R SPECIAL 1.200	)	1.200	E)	BFNCL12C	
		FORTAN COAL 13 CUSTOMER	R SPECIAL 1.27	)	1.270	E)	BFNCL13C	
		FORTAN COAL F 10 CUSTOM	ER SPECIAL 1.0	00	1.000	E)	BFNCLF10C	
		FORTAN COAL F 11 CUSTOM	ER SPECIAL 1.1	00	1.100	E)	BFNCLF11C	
		FORTAN COAL F 12 CUSTOM	ER SPECIAL 1.2	00	1.200	E	BFNCLF12C	
		FORTAN COAL F 13 CUSTOM	ER SPECIAL 1.2	70	1.270	E)	BFNCLF13C	
		FORTIS COAL CUSTOMER SP	ECIAL 1.000		1.000	E)	BFSCLC	
		FORTIS COAL CUSTOMER SP	ECIAL 1.150		1.150	E)	BFSCLC	
		FORTIS COAL CUSTOMER SP	ECIAL 1.200		1.200	E)	BFSCLC	
		FORTIS COAL CUSTOMER SP	ECIAL 1.250		1.250	E)	BFSCLC	
		FORTIS CLEAR CUSTOMER S	PECIAL 1.150		1.150	E)	BFSCLRC	
		FORTIS CLEAR CUSTOMER S	PECIAL 1.200		1.200	E)	BFSCLRC	
		FORTIS CLEAR CUSTOMER S	PECIAL 1.250		1.250	E)	BFSCLRC	
		FORTIS CLEAR S 1.150			1.150	E	BFSCLRS	
		FORTIS CLEAR S 1.200			1.200	E)	BFSCLRS	
		FORTIS CLEAR S 1.250			1.250	E	BFSCLRS	
		AIR				ST	r qair	
		WATER				ST		
		COAL				ST	r QCOAL	
		STEMMING				ST	r QSTEM	
		FORTIS COAL CUSTOMER SP	ECIAL 1.300		1.300	E	BFSCLC	
		Audit log						
		Time stamp	User	Event type	Description			
		12/11/2015 2:43:14 PM	LoadPlus system	Job		stration M	line 1' updated by LoadPlus	system
		12/11/2015 2:43:12 PM	Scott Feeney	Notification	LoadPlus site configuration		or site 'Demonstration Mine AL, and cache time 15 by Sc	

It will display:

- The LOADPlus site name
- The **Data refresh time** in minutes
   Note: all LOADPLus sites are currently updated every 15 minutes
- LOADPlus updates (Active / Inactive)
- Last update: date and timestamp of last LOADPLus data update for this site
- Last product update: date and timestamp of last products list update for this site
- System status

LoadPlus configuration		Ø
LoadPlus site name		
Data refresh time (mins)	15	
LoadPlus updates	Active	
Last update	Never	
Last product update	12/11/2015 2:43 PM	
System status	System Ok	

The **Products definitions** area of the webpage shows a list of the products for use on that site. The fields listed are:

- Name
- Density
- Type
- SAP Code

Product definitions						
Name	Density (g/cc)	Туре	Code			
ANFO CUSTOMER SPECIAL 0.800	0.800	EX	BANFC			
AQUACHARGE CLEAR CUSTOMER SPECIAL 1.200	1.200	EX	BAQCLRC			
AQUACHARGE CLEAR CUSTOMER SPECIAL 1.250	1.250	EX	BAQCLRC			
FORTAN COAL 10 CUSTOMER SPECIAL 1.000	1.000	EX	BFNCL10C			
FORTAN COAL 11 CUSTOMER SPECIAL 1.100	1.100	EX	BFNCL11C			
FORTAN COAL 12 CUSTOMER SPECIAL 1.200	1.200	EX	BFNCL12C			
FORTAN COAL 13 CUSTOMER SPECIAL 1.270	1.270	EX	BFNCL13C			
FORTAN COAL F 10 CUSTOMER SPECIAL 1.000	1.000	EX	BFNCLF10C			
EODTAN COAL E 11 CUCTOMED CRECTAL 1 100	1 100	EV	DENCI ETTO			

## 7.6 ADDING NEWS ARTICLES TO SITE PAGE

The following describes how to add news articles to the site overview page.

1. Select the edit icon under the **News** heading on the site overview page.

Overview         Site         My Account         Sign-out           Overview         Site         Map         Blasts         Performance         Documents         Images         Videos         Site admin           Demonstration         Mine         1         Images         Videos         Site admin									Demonstration Mine 1	<b></b>
Manage user access Configura										
Actions menu Create blast		Blasting	Timeline					Monitori Environme	ng points (POI)	Table
View points of interest Upload Document Perform vibration modeling		arch 15	April 15	May 15	June 15	July 15	August	Open Bla No open b		]
News There is no news to display	C	7	descriptors im			July 15	)			
Site user access		Blast Type		The type of blast o	ategorized as per sit	e procedure.				
Rachel Purdie	Orica	-	measures impl 205 Dig Rate							
File transfer folder	Full details	(tne/hr)	too big nate	Dig rate for Hitach	i 3500 number EX05.					
No recent uploads Upload File			5 - New POI Enviro	onmental 01 added to EXTENTS updated Der			Purdie			

2. Select **Create new item** to post a news article on the site overview page.

	RICA Home Site My Account Sign-out								
News Editor for Demonstration Mine 1 site Home page Return to site Create new item									
Headline	Show on or after	Expires after	Status	Page type	Actions				
No data to display									

3. The news article can be configured to appear after a certain date and expire after a certain date. It may also be set as a draft, meaning it will not be displayed to users until the **Draft** box is unticked. Select **Update** after details are entered.

lit news item	
Headline	
BATBear Visits Site	
Text	
BATBear will be visiting the site on 28/09/2017. We must prepare for the bear.	
	//
Show on or after	
Monday, 13 November 2017 🔽	
Expires after	
Wednesday, 29 November 21	
Draft	
Update Cancel	

4. News articles can be removed or edited at any time.

	My Account Sign-out			Search				
News Editor for Demonstration Mine 1 site Home page Return to site Create new item								
Headline	Show on or after	Expires after	Status	Page type	Actions			
BATBear Visits Site	13/11/2017	29/11/2017	Waiting	This site only	/ 6			

#### 8 **INSTALLING SHOTPLUS 5**

Section Revision: 0 **Revision Date:** 

August 2015

#### 8.1 **OVERVIEW**

This section covers the installation process for SHOTPlus 5.

#### 8.2 **SHOTPLUS 5 LICENCE KEY**

Prior to installation, external users are sent an email containing a link to download SHOTPlus 5, and their personal licence key.

Copy the personal licence key to the clipboard. 1.

SHOTPlus Installation - IBM Lotus Notes File Edit View Create Actions Tools Window H	ein	and the second second		
Open 🛃 🔯 🔗 Home 🌸 🐚 Scott Feeney - Mai	-	📩 SHOTPlus Installation 🜸		
2-307298433+-*	•	A 🖓 🗃 🚯 🌰 🖾		N 🛃 • Search Al Mai
Address		Document Properties	1	
1 New • 🚚 Reply • Reply to All • 🗟 Forward		Сору	Ctrl+C	
SHOTPlus Installation Austin Turner to scott feeney		Copy as Document Link Open Edit Eorward	Ctrl+E	08/05/2015 02 26 PM Show Details
Austin Turner SHOTPlus Installation	1	Print	Ctrl+P	08/05/2015 02:26 Pl 2K
	~	Dejete Open in New <u>Window</u> Create <u>Bookmark</u> Encoding Recognize Live Text in this Document	Del	
SPIPROE 2		Search Connections	;	
http://www.adapa.com.au/oricahidden/shotplus5be	ta-S	2.53-setup exe		
1 document selected				<ul> <li>Office - Server Onsite -</li> </ul>

2. Click on the link to begin downloading SHOTPlus 5.

SHOTPlus Installation Austin Turner to: scott.feeney	08/05	2015 02:26 Show Det
Austin Turner SHOTPlus Installation	08/05/2015 02:26 PN	2K
PROB-00XV-2000-J9K0-0GJF-A984-JL2K		
://www.adapa.com.au/oricahidden/shotplus5beta-5.2.53-setup.exe		

#### 3. Select **Save**.

46% of shotplus5beta-5.2.53-setup.exe downloaded							
View and track your downloads		Search dou	wnloads	٩			
Name	Location		Actions				
shotplus5betaexe 89.3 MB adapa.com.au	Do you want to run this program?	or save	Run	Save			
🕞 SmartScreen Filter is turned off.			Turn on				
Options			Clear list	Close			

The SHOTPlus 5 software will be downloaded to the computer.

2 downloads in progress					X
View and track your downloads		Search dou	wnloads		م
Name	Location		Actions		
shotplus5betaexe 89.3 MB	Downloads		Davias	Canad	×
adapa.com.au	63% at 858 KB/sec 39 sec remaining		Pause	Cancel	
General Screen Filter is turned off.			Turn on		
Options			Clear I	ist Clos	se

#### 4. Select **Run**.

🔮 99% of shotplus5beta-5.2.53-setup.exe downloaded							
View and track your downloads		Search downloads	٩				
Name	Location	Actions					
Shotplus5betaexe 89.3 MB adapa.com.au	The publisher of th program couldn't b verified. Learn more		Run				
Generation Filter is turned off.		Turn on					
Options		Clear list	Close				

At this stage, you may be prompted with a "User Account Control" message. Select **Yes**. InstallShield Wizard starts the installation process.

5. Select Next.



6. Select Install.

ShotPlus 5 Beta - InstallShield Wizard				
Ready to Install the Program         The wizard is ready to begin installation.				
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard. Current Settings:				
Setup Type: Typical				
Destination Folder: C:\Program Files\Orica Software\Shotplus5Beta\				
User Information: Name: Windows User Company:				
InstallShield < Back Cancel				

InstallShield Wizard continues the installation process.

1 ShotPlus	5 Beta - InstallShield Wizard
	ShotPlus 5 Beta ram features you selected are being installed.
B	Please wait while the InstallShield Wizard installs ShotPlus 5 Beta. This may take several minutes.
	Status:
	Copying new files
InstallShield –	
	< Back Next > Cancel

### 7. Select Finish.



## 8.3 FIRST TIME USING SHOTPLUS 5

The first time after opening SHOTPlus 5, the user will be prompted with a language selection choice, application registration and activation entries, as well as any possible modifications required to be made to the network settings to allow successful communication and use.

SHOTPlus 5 can be opened using the Start Menu.

1. Select **Start / SHOTPlus 5**.



Alternatively, it may be opened using the menu tree.

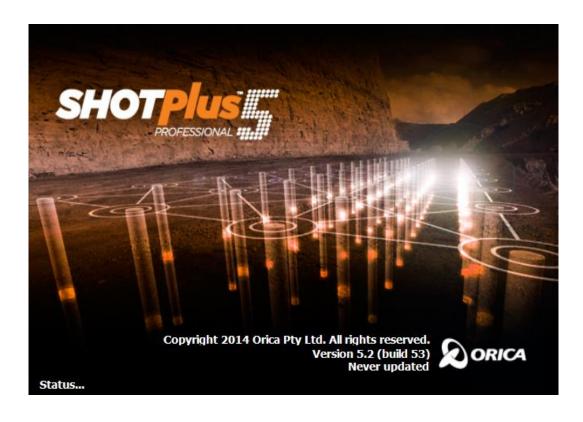
1. Select Start / All Programs / Orica Software / SHOTPlus 5.



- 2. Select required language using the drop down selector.
- 3. Select **OK**.

SHOTPlus5	
English	

SHOTPlus 5 displays its Startup screen.



The Application registration and activation window is displayed.

- 8. Enter the personal licence key (previously copied to the clipboard) in the **Product key** field.
- 9. Select **Register online**.



Many companies use proxy servers, you may need to modify internet settings to be able to access and use SHOTPlus 5.

## 4. Select Connection setup.

ion of your	applicatio	n	
-			
IPRO	area da ana		
ott	Last name	Feeney *	
ott.feeney@orica.cor	n		
ica		*	
ISTRALIA	•	•	
Activate	Cancel		
value	$\langle$	Connection setup	
	ISTRALIA	ott.feeney@orica.com ica ISTRALIA • Activate Cancel	ott.feeney@orica.com * ica * USTRALIA   Activate Cancel

5. Select **Test connection**.

Application registration and activation	X
Activation server settings	
Server address	
www.adapa.com.au	Test connection
Use internet for renewal	
Proxy settings	The proxy server settings may be
Auto detect proxy	required in circumstances where your firewall requires manual authentication.
	Save settings
Change	Return to activation

An Information window containing the test result will be displayed.

If Successful test connection established is shown:

- 6. Select OK.
- 7. Go to <u>Step 12</u>.

Application registra	ation and activation	X
Activation s	server settings	
www.adapa.c	om.au	Test connection
♥ Use intern Proxy settir Auto detect	et for renewal Information Successful test conr OK Change	uthentication.

If the connection test failed:

8. Select Change.

Ар	Application registration and activation				
	Activation server settings				
	Server address				
	www.adapa.com.au	Test connection			
	Use internet for renewal				
	Proxy settings	The proxy server settings may be			
	Auto detect proxy	required in circumstances where your firewall requires manual authentication.			
		Save settings			
	Change	Return to activation			

On some systems, proxy settings may require setting or modifying. Contact your company's IT Administrator for help setting these. Once these changes have been made:

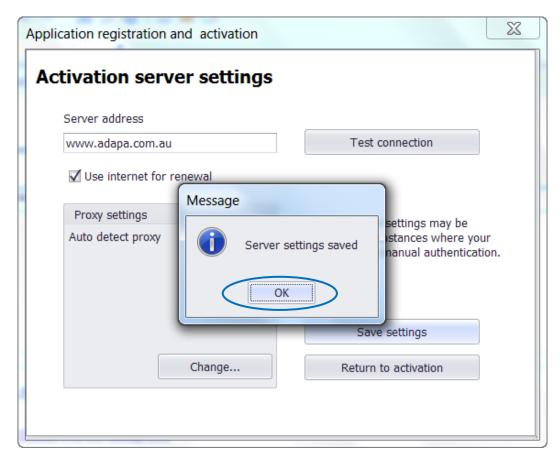
9. Select **OK**.

Proxy credentials	X	
<ul> <li>Auto detect proxy</li> </ul>		
O No proxy		
O Use specified proxy		
Proxy server:		
Port: 80		
Copy from browser		
<ul> <li>Network credentials</li> </ul>		
No credentials		
Specify user and password		
User name:		
Password:		
OK Cancel		
		1

### 8. Select Save settings.

Application registration and activation	×			
Activation server settings				
Server address				
www.adapa.com.au	Test connection			
Use internet for renewal				
Proxy settings Auto detect proxy	The proxy server settings may be required in circumstances where your			
	firewall requires manual authentication.			
	Save settings			
Change	Return to activation			

9. Select OK.



#### 10. Select Return to activation.

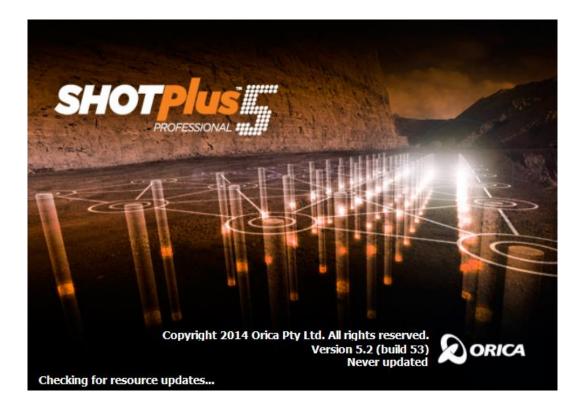
Application registration and activation	X
Activation server settings	
www.adapa.com.au	Test connection
Use internet for renewal	
Proxy settings Auto detect proxy	The proxy server settings may be required in circumstances where your firewall requires manual authentication.
Change	Save settings Return to activation

### 11. Select Register online.

App	Application registration and activation					
R	Register and activate your application					
	This application requires registration and activation.					
	Please enter your product key below and either register online or manually by phone/email.					
	The product key is up to 37 characters with a product code followed by 6 groups of 4 letters and numbers such as MYAPP-006G-Q2QA-1440-E1G5-0G1G-4080					
	Product key SPIPRC					
	Register online					
	Register by phone/email					
SI	PIPROB					

12. Select **Activate** (when prompted).

The SHOTPlus 5 Start up screen displays.



As this is the first time using the SHOTPlus software, the Orica SHOTPlus Software Terms of Use must be accepted.

13. Scroll to the bottom of the agreement using the scroll bar.

End user licence a	igreement (EULA)	
	Orica SHOTPlus Software Terms of Use	Î
PLEASE REA	D THE FOLLOWING TERMS AND CONDITIONS OF USE CAREFULLY.	Ξ
By download	ling and using the SHOTPlus Software, You agree to be bound by this agreement.	-
Orica Internati	is Software and associated information has been developed by or on behalf of and is licensed to You by ional Pte Ltd (Registration Number 200802587K) having its registered office at 78 Shenton Way #06- ver 2, Singapore 079120 (" <b>Orica</b> ").	
In this agreem	ent:	
(a) (b)	"Orica Group" means Orica and each of its Related Companies from time to time. "Related Company" means a related body corporate as that expression is defined in the Corporations Act 2001 (Cth).	
(c)	"SHOTPlus Software" means the software application, and the data, information, graphics and all other material used with the software application, which is made available for download by Orica (or a member of the Orica Group) from time to time from the Blasters Desktop application, and includes any upgrades or updates to the software or data, and any associated or related documentation or printed materials. The SHOTPlus Software will be provided in object code format only.	
(d)	"You" or "Your" means the entity or individual downloading the SHOTPlus Software, and in whose name the SHOTPlus Software has been registered.	
1 LICENCE		
(a)	In consideration of payment by You of the fees and charges payable prior to the download and installation of the SHOTPlus Software, as determined by Orica from time to time (the "Licence Fee"), and completion of the registration and activation process as part of the Blasters Desktop activation process, Orica grants You a non-exclusive. non-transferable. non-sublicensable. personal licence ("Licence") to use the	~

- 14. Place a tick in the **Agree** field.
- 15. Select Continue.

	<ul> <li>the SHOTPlus Software;</li> <li>information relating to the financial position of the Orica Group, including information relating to the</li> </ul>
	assets or liabilities of Orica and any other matter that does or may affect the financial position or reputation of Orica, and includes the Licence Fees; and
	<ul> <li>(iv) information relating to the internal management and structure, policies and strategies of the Orica Group.</li> </ul>
(b)	You may not disclose any Confidential Information to a third party without the prior written consent of Orica.
(c)	<ul> <li>Despite clause 7(b), either party may:</li> <li>(i) disclose Confidential Information which it is legally required to disclose; and</li> <li>(ii) disclose the terms of this agreement to its Related Entities, solicitors, auditors, insurers or accountants, however the discloser must ensure that every person to whom disclosure is made under this clause uses the information disclosed solely for the purposes of advising or reporting to the disclosing party.</li> </ul>
(d)	You must take all reasonable steps to ensure that any person who has access to any Confidential Information does not disclose the Confidential Information other than in accordance with this agreement.
(e)	You must, on request by Orica, return to Orica or destroy any Confidential Information supplied by Orica to You.
8 GENER	AL
✓ Agree	

▲ | ⊕ •

The SHOTPlus 5 home screen, including the Start-up Assistant, is displayed.

If an existing file is required:

16. Select the file by clicking it once.

(0, 0, 0) 0% Update found, downloading files...

17. Select OK.

If a new file is being created:

18. Select Cancel.

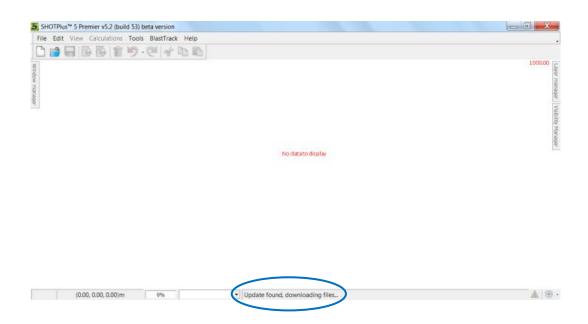
File Edit View Calculations Tools BlastTrack Help		
3 日日日日 日日		
		1000.00
	SHOTPlus <sup>14</sup> 5 Premier Beta	
	Welcome to SHOTPlus™ 5 Premier Beta	
	Open existing file	
	Ch. Davers barfur (Davershoods El Singuelle 1930) and f Dr. Lawers barfur Documents (Bleet Track Balet Files (Svample _TSB. opf	
	Browne New blast BlastTrack	
	V Show this at startup OK Cancel	

## 8.4 INSTALLING SHOTPLUS 5 UPDATES

To keep performing at its optimum and to incorporate new features, software is periodically updated.

Occasionally, when opening SHOTPlus 5, you will observe the following message:

Update found, downloading files...



After the update files are downloaded, the user is provided the following choice:

Update immediately	Close and restart SHOTPlus 5
Update later	Continue working, new version will be installed when you close and re-open SHOTPlus 5
No update	Not recommended. This selection prevents the new version from being installed

Update	available
	A new update is available with the following description:
-	Shotplus 5.2 Beta build 53 patch 383
	Please see revision notes for details of update.
	Do you want to accept the update and restart the application now?
	Update immediately Update later NO UPDATE

When the user account control pop up appears for *updateandrestart.exe*, select **Yes**. SHOTPlus 5 will then close and reopen. If you receive errors at this time, you may not have sufficient administrator access. Please contact your IT department.

▲ | ⊕ •

The SHOTPlus 5 home screen, including the Start-up Assistant, is displayed.

(0, 0, 0) 0% Update found, downloading files...

Edit Verv Catolation Tools BusTrack Hep SHOTPlus <sup>th</sup> 5 Premier Betz Welcome to SHOTPlus <sup>th</sup> 5 Premier Betz Open existing file D-Liser Spirit/Documents BlastTrack Beat Filer Scample, 198.50 <sup>4</sup>	
SHOTPlus" 5 Premier Beta Welcome to SHOTPlus" 5 Premier Beta Cpsm existing file Cpsm exis	
Welcome: to SHOTPlus <sup>m</sup> 5 Premier Beta Cpen exiting Sie To Loss york Download Exiting Size Do Later Juri University BlastTrack Blast Plan Sciences, 158. spf	
Welcome: to SHOTPlus <sup>m</sup> 5 Premier Beta Cpen exiting Sie To Loss york Download Exiting Size Do Later Juri University BlastTrack Blast Plan Sciences, 158. spf	1000.0
Welcome: to SHOTPlus <sup>m</sup> 5 Premier Beta Cpen exiting Sie To Loss york Download Exiting Size Do Later Juri University BlastTrack Blast Plan Sciences, 158. spf	
Welcome: to SHOTPlus <sup>m</sup> 5 Premier Beta Cpen exiting Sie To Loss york Download Exiting Size Do Later Juri University BlastTrack Blast Plan Sciences, 158. spf	
Open existing Sie Ch Deer Synth Downklodi (Stanuele, 150 April D- Uten Synth D- Uten Synth	
Edit Jober Synch, Effort Rodell, E Sancelle, (1993) (and D.: User Nyurfu, Documents (Heart Flass) Flass (Flass (Flass (Flass))), 1988, spf	
D: Laer i josfu Documenta Slastfrack Blest Flers Example, 1585. og f	
Received Backbart Hartbark	
Process New New New Track	
Transmission of the Martinet	
Process New Hart Hartford	
1997 (1998) (1997) (1997) (1997) (1997) (1997)	
W Show this at startup OK Cancel	

# 9 USING SHOTPLUS 5 WITH BLASTIQ

Section Revision: 0

Revision Date: August 2015

#### 9.1 OVERVIEW

There are currently two methods available for connecting to the BlastIQ system when using SHOTPlus 5, upon *Startup* and *In-use*.

### 9.2 CONNECTING TO BLASTIQ USING SHOTPLUS 5

To connect to BlastIQ from within SHOTPlus 5, you must have already set up your BlastIQ account. Please see <u>4.3 INSTALLING BLASTIQ</u> for further information.

The BlastIQ menu available on the SHOTPlus 5 toolbar will allow you to perform all the SHOTPlus 5 actions associated with BlastIQ.

#### 9.2.1 Connecting to BlastIQ at SHOTPlus 5 Startup

1. Open SHOTPlus 5.

The Startup Assistant will appear.

Blasting files already loaded on the BlastIQ system may be selected from BlastIQ.

2. Select **BlastTrack...** 

SHOTPlus™ 5 Premier Beta	<b>—</b> ×
Welcome to SHOTPlus™ 5 Premier Beta	
Open existing file	
D: \Users \sxfu \Downloads \Example_TSB.spf D: \Users \sxfu \Documents \BlastTrack Blast Files \Example_TSB.spf	
Browse New blast BlastTrack	
Show this at startup OK Cance	<b>ا</b>

The Select login provider window will appear.

3. Select BlastTrack accounts @ext.orica.com if you're an Orica customer

or

Select Orica Account if you're an Orica employee



Continue from Connecting to BlastIQ When SHOTPlus 5 is In-use Step 4.

▲ ⊕ -

## 9.2.2 Connecting to BlastIQ When SHOTPlus 5 is In-use

If SHOTPlus 5 is already in-use and the user wants to work on a file from BlastIQ, it can be downloaded in the following manner.

- 1. Go to the SHOTPlus 5 main screen.
- 2. Select BlastTrack / Download blast file.

(0.00, 0.00, 0.00)m 0% • Select tool

Edit View Calculations Topis BlastTrack Help	
Export elected layers as map overlay layers     Export elected points of interest	1000/0
Download blast file	1000.00
No datato display	

Printed copy may not be the latest revision

The Select login provider window will appear.

3. Select BlastTrack accounts @ext.orica.com if you're an Orica customer

or

Select Orica Account if you're an Orica employee



The *Select login provider* window will be displayed when accessing BlastIQ from <u>all</u> other BlastIQ compatible systems.

- 4. Enter your *username* and *password*.
- 5. Select Sign in.

Login	X
Sign in	
Sign in with your work or school account	
Password	
□ Keep me signed in Sign in	
Can't access your account?	
Don't have an account assigned by your work o school? Sign in with a Microsoft account	or

You'll be presented with a download screen

6. From the drop down menu, select the site.

After selecting the site, the available blast files are listed under *Blast*.

- 7. Preview each blast file by clicking on it once.
- 8. Information about the blast file will be shown in the box to the right.

When the blast being displayed is the required file:

9. Select **OK**.

Identify blast on the BlastTrack Server for download	
Selected site       [Test_Site       Blast       example_TSB       example_TSB_2	Access: Download/upload and create new blasts Blast: example_TSB Status: Loading Version: 3 Uploaded by: Austin Turner Uploaded: 11/05/2015 4:19:57 AM
	Refresh OK Cancel

After selecting OK, a 'save' window will appear.

This part of the process is creating a local copy of the blast file to work on. To ensure that the BlastIQ file versioning works correctly, you should not change the name of the file.

Each time a blast file is uploaded to BlastIQ, the previous version of the file is archived and replaced by the version being uploaded. This allows all users access to the latest file. All archived versions are available for download. This process will be explained further on.

The user is prompted with where to save the file on the computer's local drive.

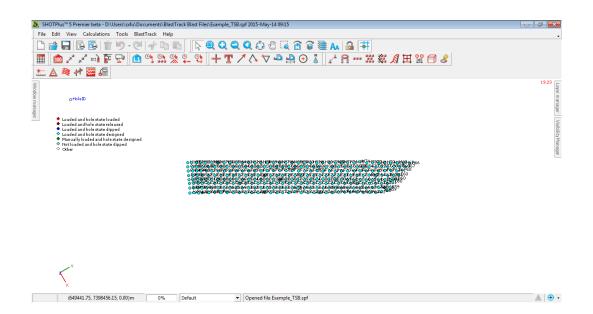
10. Select an appropriate location to save the blast file.

Remember to let the BlastIQ system manage the file versioning; always save the file using the same file name. When prompted to 'Replace existing file', select OK.

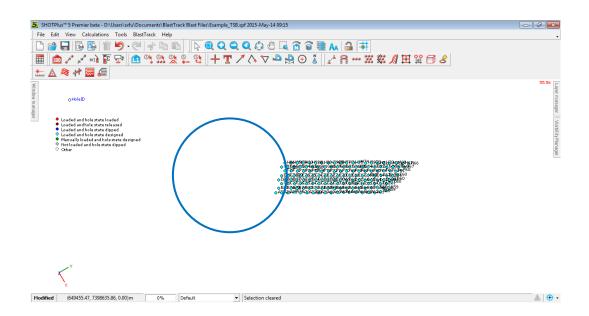
11. Select Save.

🌆 Save downloaded b	last as	
🔾 🗢 🖉 🖉 Oc	cuments BlastTrack Blast Files - 47 Search BlastTrack Blast Files	٥
Organize 🔻 Ne	w folder 🗈 🔻 🔞	)
🔶 Favorites	Documents library     BlastTrack Blast Files     Arrange by: Folder ▼	
ik Downloads 🖳 🖳 kecent Places	E No items match your search.	
Libraries		
J Music		
📄 Pictures 📑 Videos		
🖳 Computer	-	
File name:	Example_TSB.spf	•
Save as type:	SHOTPlus 5 format (*.spf)	•
) Hide Folders	Save Cancel	H

The SHOTPlus 5 blast file is now available for viewing or modification.

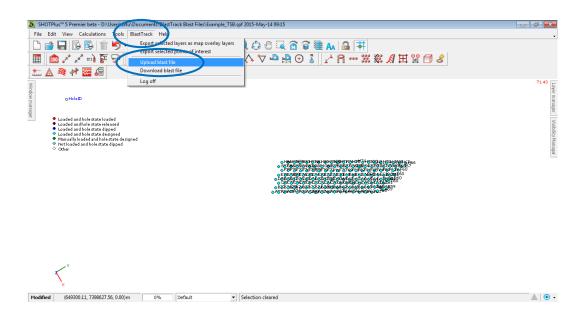


For the purpose of this guide, the quantity of holes has been reduced to demonstrate a change being made.



After completing any changes you should upload the blast file to BlastIQ for these changes to become available to other users.

12. Select BlastTrack / Upload blast file.

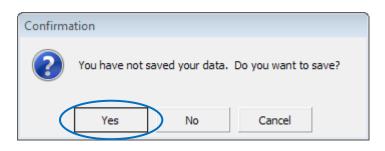


At this time, the user is provided with a *Confirmation* window.

Selecting Yes saves your changes to your local copy before uploading.

Selecting No will allow you to upload without saving the changes locally.

13. Select Yes / No.



If the blast file has been saved in BlastIQ previously, the system will prompt the user to select the blast to upload the file to.

If the blast file is being saved for the first time, a different process will occur. See 9.3 Creating a New BlastIQ Blast File Using SHOTPlus 5.

The Upload window is displayed.

The BlastIQ system will auto-populate the Selected site and Blast fields.

- 14. Confirm the Selected site and Blast fields are correct
- 15. Select **OK**.

Selected site	
Test_Site	Access: Download/upload and create new blasts
Blast	
example_TSB example_TSB_2	Blast: example_TSB Status: Loading Version: 3 Uploaded by: Austin Turner Uploaded: 11/05/2015 4:19:57 AM
Create new BlastTrack blast	
	Refresh OK Cancel

Successful upload is shown by:

Upload succeeded
ОК

#### 16. Select OK.

When uploading a blast file, BlastIQ detects if the file is from a different BlastIQ blast and will prompt the user to confirm that this file should be loaded in this location.

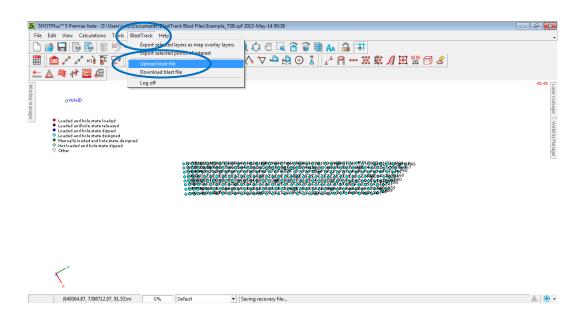
17. If this is your intention, select **OK**.

Confirm blast identifier changed		
You have selected a different BlastTrack blast from which this file was orginally assigned. Do you want to continue and change the assignment?		
	OK Cancel	

## 9.3 CREATING A NEW BLASTIQ BLAST FILE USING SHOTPLUS 5

When a new blast is designed in SHOTPlus 5, a new blast file must be created in BlastIQ.

- 1. Create the new file using SHOTPlus 5.
- 2. Select BlastTrack / Upload blast file.



The Upload window is displayed.

- 3. Select the site using the *Selected site* drop-down list.
- 4. Place a 'tick' in the *Create new BlastTrack blast* box.

Identify blast on the BlastTrack Server for upload	
Selected site Test_Site Blast	Access: Download/upload and create new blasts
example_TSB example_TSB_2	Blast: example_TSB Status: Loading Version: 5 Uploaded by: Scott Feeney Uploaded: 13/05/2015 11:39:04 PM
Blast name	Description (optional)
Orica reference (optional) Customer reference (optional)	
	Create new blast
	Refresh OK Cancel

- 5. Enter the **Blast name**.
- 6. Enter the **Orica reference (optional)**.
- 7. Enter the **Customer reference (optional)**.
- 8. Enter the **Description (optional)**.

The blast name must be unique for open blasts on the site. The same name may appear across multiple sites.

The Orica reference, Customer reference and Description will show up for all users downloading the blast in the future and on all other BlastIQ systems.

Identify blast on the BlastTrack Server for upload	
Selected site	
Test_Site	<ul> <li>Access: Download/upload and create new blasts</li> </ul>
Blast	
example_TSB example_TSB_2	Blast: example_TSB Status: Loading Version: 5 Uploaded by: Scott Feeney Uploaded: 13/05/2015 11:39:04 PM
Create new BlastTrack blast Blast name	Description (optional)
example_createblast Orica reference (optional) Example Orica reference	Example Description
Customer reference (optional) Example Customer reference	Create new blast
	Refresh OK Cancel

#### 9. Select **Create new blast**.

Successful new blast creation is shown with the following window.

<b>E</b>
New blast created
OK

10. Select OK .

The new blast now appears in the blast list. The details entered appear in the box to the right. At this stage, it should be noted, there is *No uploaded SHOTPlus file available*.

11. Select **OK** to upload the current SHOTPlus 5 file to the new blast.

Identify blast on the BlastTrack Server for upload	
Identify blast on the Blast Irack Server for upload Selected site Test_Site Blast Example_createblast example_TSB example_TSB_2	Access: Download/upload and create new blasts Blast: example_createblast Status: Created Orica reference: Example Orica reference Customer reference: Example Customer reference Example Description No uploaded SHOTPlus file available
Create new BlastTrack blast	Refresh OK Cancel

The SHOTPlus 5 file will upload.

Uploading		
	25%	

After the file has uploaded, Upload succeeded will display.

12. Select **OK**.



The new blast and the blast file are now available for use by other users.

# 9.4 MANAGING DESIGN VERSIONS USING BLASTIQ

Throughout the blast process there can be many design changes. Some of these changes are updates to the design due to real life data provided by the parts of the BlastIQ system, other updates are refinements to the design: trying different things to achieve a better outcome from the blast design. In order to ensure that the latest blast design file is being worked on, it should be downloaded from BlastIQ each time, and uploaded after it has been worked on, to ensure that any changes are available for the next user. It will automatically include any changes made by any part of the BlastIQ system; if a hole has been dipped etc, that new information will be incorporated into the latest design file.

The version number will be incremented each time the file is uploaded to BlastIQ. It will also record who uploaded it and when. Each of the previous files are also available for downloading, if required, from BlastIQ.

Listed below are the current stages that the blast design goes through during its life cycle.

### 9.4.1 Hole States

1.	DESIGN	hole position and length has been designed
2.	DIPPED	hole drilled and measured
3.	RELEASED	redrilling or backfilling has been completed and the hole is available for loading
4.	LOADED	hole has been loaded and the loading information has been recorded

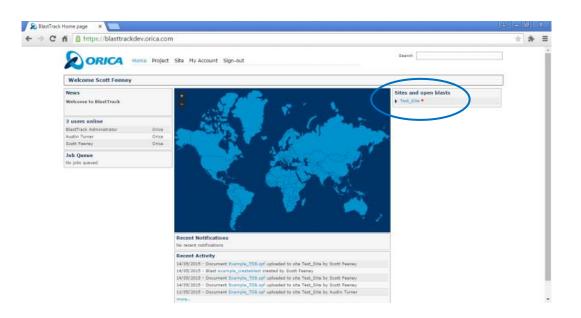
## 9.4.2 Blast States

- 1. CREATED blast has an ID and name created in BlastIQ
- 2. SURVEYED survey information has been imported
- 3. DESIGNED blast hole positions are designed, loading is designed
- 4. RELEASED the blast has been approved and is available for loading
- 5. LOADING product loading is in progress
- 6. FIRED blast has been fired and post blast measurements are being recorded
- 7. CLOSED the blast life cycle is complete. The blast will no longer appear in other BlastIQ connected systems; only BlastIQ. The blast name can be reused.

# 9.5 ACCESSING PREVIOUS VERSIONS FROM BLASTIQ

BlastIQ retains all previous versions of the blast file, but prompts the user to select the latest version to work with. If an earlier version is required for viewing, or if the decision has been made to revert back to an earlier version, BlastIQ provides that capability.

- 1. Go to the *BlastIQ Home page*.
- 2. Select the **Site** from the Sites and open blasts list.



3. Select the **Blasts** tab.

	Site My	Account Sign-ou	it			Search		
Overview Site for Blasts • Performing Test_Site Minage user access. View suffiling. Configure		nents • / Images /	Videos Site ad	min				
Actions menu Create Mart	Blasting	Timeline				Open Bla	its -	
Import blast matter						() and ()	example_TSB ·	
View points of interest. Upload Document	ary 15	February 15	March 15	April 15	Nex 15	June 1	example_TSB_2 •	
Upload blast data Perform vibration modeling	4	Petruary 10	Plantin Lip	April 13	Pile 15			
Review menu	Recent							
Complete measures and KPIs for blasts Close and archive old blasts		15 - Document Exem 15 - Blast example_o			by Scott Feeney			
Assign Orice Mast identifiers Perform blast audit	14/05/20	15 - Document Exam	rie_TSB.spf uplead	ed to site Test_Site				
Perven new blast data		15 - Document Exam						
News 🥒	retions				11			
Welcome to BlastTrack								
Site user access								
Scott Feeney Orica								
File transfer folder Full details No recert oploads								

4. Select the **Blast** from the *Blast list*.

Overview Site Map Blasts * P					
Blast list	erformance Documents • Dnay	pes Videos Site admin			
Create Blast Reset filters					
Display mode	Blast state				
Display descriptors   From data (inclusiva)	(All open) To dete (industrie)	•			
w		w.			
1	۵	State	Fired On	Dataila	
example_sreateblact*	0	Created		2 U	
esample_TID*	0	Released for loading		(2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	
example_TSS_2*	0	Created			

5. Select **Documents** from inside the *Blasts* tab. Do not select the *Documents* tab at the top.

				Search		1
ORICA Home Project	Site My Account Sign-out					
Approximation ( approximation ( )	THE REPORT OF THE PARTY AND TH					
Overview Site Map Blasts Performan example TSB Details Meanures Size	t plan * Hola table * Inventory * Tim		Pack   Documents * Imiges   V			1
Site Test_Site Project: Test	t plan " ) hole base "   shrentory "   Tan	ing T   Lowding T   20	Nece   Documents - Tundes   A	ORCE		
Actions menu Upload SH0700us <sup>-15</sup> file Import new Blast boundary Download SH07THam <sup>-15</sup> File	Name: Shotples <sup>te</sup> Description	5 filename: Ex	empla_358 ampla_358.spf	4		53
Remarke black Close Black Delete Black						
Upload Document		INTERNO.		Same Sea		
Details		10000000		5		
Job pack			**********************	110 /		
Timeline Released for						
loading						
Created: 8/05/2015 Survey completed:						
Survey (completed)	Notes					
Design completed:					1	
Dezign completed: Released for loading:	( Inner)					
	(none)					
Released for leading:	Blast properties				1	
Released for loading: Proposed firing date:		(none)	Volume (actual)		(nors)	

By default, only the latest file version will be shown.

	ne Project Site My Account Si				Search		
the second se	Performance Documents Dina asures Blast plan Hole table Inve			Documents Drapes Videos	Ą.		
example_758	Name	Veniers	Size (kb)	Uploaded	Uploader	Actions	
	Diample_158.apt		5 2052.	2 14/05/2015 9:29:04 AM	Scott Feeney	10 CH 6 CA	
	8						

6. To display all versions, place a 'tick' in the *Show all file versions* box.

All versions of the file are now displayed.

ORICA H	me Project Site My Account Sign	1-out			Search	
	Performance Documents     Image     Insection     Insection			ck Documents* Images Video	c.	
Create Folder Upload File	1					
example_TSB	hame	Version	Size (kb)	Uploaded	Uploader	Actions
	Comple_TEB.apf		5 20	52.2 14/05/2015 9129104 AM	Scott Feeney	10日日日
	Science, 158.spf		4	EL 4 14/05/2015 0-31 0J AM	Scott Firemey	RIQ.
	Scientife, 758 set		3 205	12.2 11/05/2015 2.19.57 /9	Auddin Tiamer	R)Q
	Chample_758.spf		2. 30	72.0 13/05/2019 2.16 22.09	Authr Turner	<b>R</b> 0 <i>Q</i>
	Show all file versions		1 20	to a 101/2015 2 36 29 MM	Authr Turner	R1Q

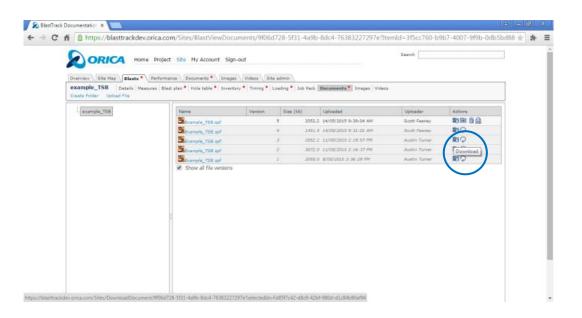
The file list displays the current and all previous versions. Each version includes information relating to file size, the date and time when it was uploaded and by whom. The user then has the two options:

- A. Download Downloads and creates a local copy of that version
- B. Revert It makes the archived file version selected into a new, latest version, e.g. selecting Version 3 and selecting *Revert*, will make a copy of Version 3 and name it Version 6 (and by default, the current version). THIS SHOULD ONLY BE PERFORMED AFTER CAREFUL CONSIDERATION.

#### 9.5.1 Downloading a Previous SHOTPlus 5 File

To download a previous version:

1. Select the **Download** icon related to the file.

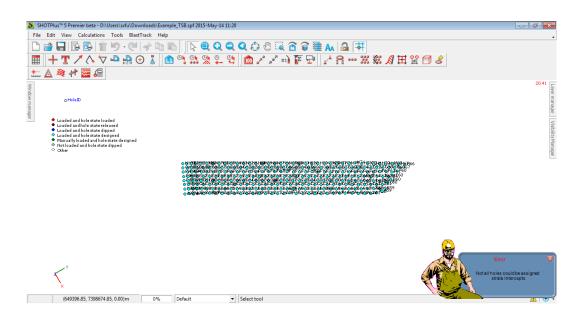


The selected blast file downloads and appears down the bottom left corner of the window.

20	RICA Home Project	Site My Account Sign-	out				Search		
Constanting of	Sits Map Blasts * Performan	-	NUCLINA AND						
example_	TSB Details Measures Blast				Noch	Documents * Images   Video	é.		T
	Upload File		1	1.5	_		1000	100	1
4 nampi	e_135	hame .	Version	Sas (kb)		Uploaded 14/05/2015 9:39:04 AM	Uploader Scott Fearrey	Actions	
		Science_758.spf				14/05/2015 9-21-01 AM	Scott Permity	100 C 100	
		Scrample_TSB apt				11/05/2015 2:19:57 /4	Auddin Tiamer	80	
		Scientile_758.apt				11/05/2016 2:16:22 /84	Austin Turner	800	
		Scomple_758 af		1 2	1050 a	8/05/2015 2 36 29 M	Authr Turner	800	
		Show all file versions							

2. Open the file by 'left clicking' it.

The previous file now opens in SHOTPlus 5.



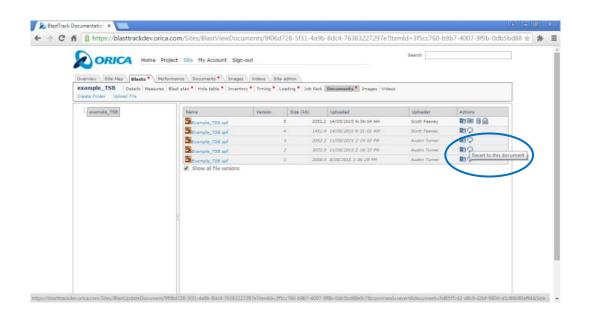
## 9.5.2 Reverting to a Previous SHOTPlus 5 File



Careful consideration must be made prior to reverting to a previous version of a blast file.

To revert to a previous version:

1. Select the **Revert** icon related to the file.



# **10** BLASTER'S DESKTOP

Section Revision: 0

Revision Date: August 2015

#### 10.1 OVERVIEW

Blaster's Desktop is a desktop application that consolidates Orica's blasting related software to allow each to be selected for download. Blaster's Desktop also manages the licensing process.

#### 10.2 INSTALLING BLASTER'S DESKTOP FOR ORICA USERS

Ensure the following steps are performed when connected to the Orica network.

- 1. Open your internet browser (Internet Explorer is the current Orica system default).
- 2. Go to

http://www.oricaminingservices.com/au/en/page/products\_and\_services/blast\_design\_s\_oftware/blasters\_desktop/blasters\_desktop

The Blaster's Desktop webpage is displayed.

3. Select click here.



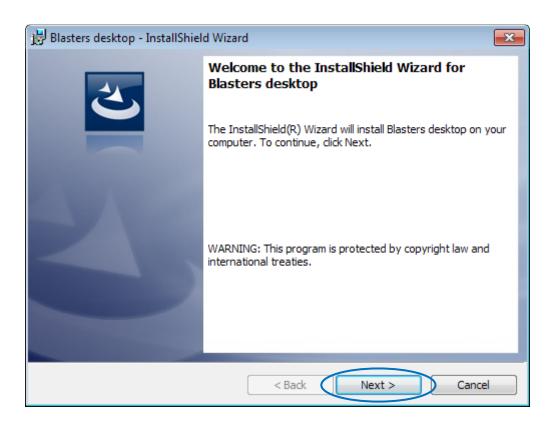
The loading utility set-up.exe will download.

- 4. Select set-up.exe to run it.
- 5. If presented with a user account control message, select **Yes**.

The InstallShield Wizard will begin the installation.

Blasters desktop - InstallShield Wizard	
2	Preparing to Install
	Blasters desktop Setup is preparing the InstallShield Wizard, which will guide you through the program setup process. Please wait.
	Extracting: BlastersDesktop-1.0.47-setup.msi
	Cancel

# 6. Select Next.



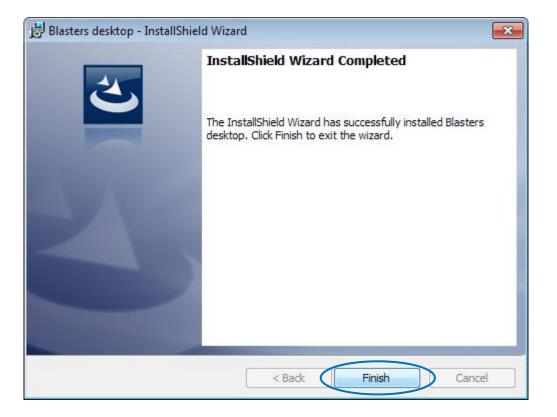
### Select Install.

😸 Blasters desktop - InstallShield Wizard
Ready to Install the Program
The wizard is ready to begin installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
Current Settings:
Setup Type:
Typical
Destination Folder:
C:\Program Files\Orica Software\BlastersDesktop\
User Information:
Name: Windows User
Company:
InstallShield < Back Install Cancel

InstallShield Wizard will continue the installation.

😸 Blasters o	lesktop - InstallShield Wizard
	Blasters desktop ram features you selected are being installed.
1 <del>2</del>	Please wait while the InstallShield Wizard installs Blasters desktop. This may take several minutes.
	Status:
	Copying new files
InstallShield -	
	< Back Next > Cancel

# Select Finish.



Once Blaster's Desktop has been installed, it is accessed using the desktop shortcut shown below. Simply 'double click' on the icon to access the program.



### 10.3 INSTALLING SHOTPLUS 5 USING BLASTER'S DESKTOP FOR ORICA USERS

Ensure the following steps are performed when connected to the Orica network.

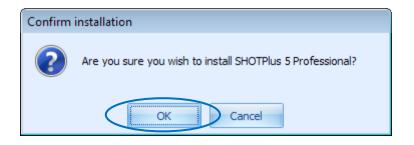
1. Open *Blaster's Desktop*.

Tasks Edit Help					
			<u>nantec dele</u>	ting Blasting Software and invalidating lice	
		pplications			
etected installed softw	are				
Software	Version		Latest available	Description	
/odca	1.0.11.0			VOD calculator	
vailable software					
	Version		Description		1
Software	Version	Link		s .NET 4.0 framework install	
Software NET 4.0 framework install	Version 1.6.0	Link	Link to Microsoft's	's .NET 4.0 framework install istant tool for modelling heave, fragmentation and damage based on blast doma	in parameters
Software NET 4.0 framework install last Design Assistant Lycad			Link to Microsoft's Blast Design Assis Cycad software p	istant tool for modelling heave, fragmentation and damage based on blast domai page	in parameters
Software NET 4.0 framework install last Design Assistant Lycad		Install	Link to Microsoft's Blast Design Assis Cycad software p Cycle time video	istant tool for modelling heave, fragmentation and damage based on blast doma page analysis software. Time in motion study. Shovel dig rate analysis etc	in parameters
Software NET 4.0 framework install Ilast Design Assistant Cycad CyclePro 3 Vensity	1.6.0	Install Link	Link to Microsoft's Blast Design Assis Cycad software p Cycle time video Calculate inhole d	istant tool for modelling heave, fragmentation and damage based on blast doma page analysis software. Time in motion study. Shovel dig rate analysis etc densities for gassed emulsions	in parameters
Software NET 4.0 framework install last Design Assistant CyclePro 3 Density ligital Bench	1.6.0	Install Link Install Install Link	Link to Microsoft's Blast Design Assis Cycad software p Cycle time video Calculate inhole o Digital Bench auto	istant tool for modelling heave, fragmentation and damage based on blast doma page analysis software. Time in motion study. Shovel dig rate analysis etc densities for gassed emulsions comating on bench activities	in parameters
ioftware NET 4.0 framework install last Design Assistant yycad yydePro 3 kensity ligital Bench yrica downloads	1.6.0 3.0.3.0 2.0.9	Install Link Install Install Link Link	Link to Microsoft's Blast Design Assis Cycad software p Cycle time video Calculate inhole d Digital Bench auto Orica public softw	istant tool for modelling heave, fragmentation and damage based on blast doma page analysis software. Time in motion study. Shovel dig rate analysis etc densities for gassed emulsions comating on bench activities ware listing	in parameters
Software NET 4.0 framework install last Design Assistant yydePro 3 Pensity Nigital Bench Drica downloads fowerSieve™ 2	1.6.0 3.0.3.0 2.0.9 2.13	Install Link Install Install Link Link Install	Link to Microsoft's Blast Design Assis Cycad software p Cycle time video Calculate inhole d Digital Bench aut Orica public softw Fragmentation ar	istant tool for modelling heave, fragmentation and damage based on blast domai page analysis software. Time in motion study. Shovel dig rate analysis etc densities for gassed emulsions iomating on bench activities ware listing nalysis via image processing	in parameters
ioftware NET 4.0 framework install last Design Assistant yycad yydePro 3 kensity ligital Bench yrica downloads	1.6.0 3.0.3.0 2.0.9	Install Link Install Install Link Link	Link to Microsoft's Blast Design Assi Cycad software p Cycle time video o Calculate inhole o Digital Bench aut Orica public softw Fragmentation ar Fragmentation ar	istant tool for modelling heave, fragmentation and damage based on blast doma page analysis software. Time in motion study. Shovel dig rate analysis etc densities for gassed emulsions comating on bench activities ware listing	in parameters

- 2. Scroll down using the scroll bar until SHOTPlus 5 Professional is visible.
- 3. Select Install (beside SHOTPlus 5 Professional).

🗶 Orica Blaster's Desktop 🗄 Tasks Edit Help	for registered u	sers			
New			<u>antec dele</u>	ting Blasting Software and invalidating lice	ORICA
Install software Activation		pplications			
r					
Software	Version		Latest available	Description	
Vodca	1.0.11.0			VOD calculator	
Available software	1	1	1		
Software	Version		Description		^
PowerWave <sup>3</sup>		Link		oftware for PowerWave radar	
SHOTPlus	4.88	Install	-	design software for pyrotechnic applications	
SHOTPlus 5 Premier	5.2.29	Install		ier blast design application	
SHOTPlus 5 Professional	5.2.29	Install		essional blast design application	
SHOTPlus 5 Standard	5.2.30	Install		design application	
SHOTPlus Tunnels SHOTPlus Underground	1.21	Install		g software for tunnelling applications g software for underground applications	
SHOTPlus Underground	4.86	Install		g software for underground applications HOTPlus versions (.SP2) files	
SHOTPlus viewer	4.88	Install		design software for i-kon and pyrotechnic applications	
SHOTPlus-i Pro	4.88	Install	-	esign software for Orica internal use only	
Short last tro		THOUM	comprete bidst u	eagn or or an one internal de only	
<b>©</b>					

4. Select OK.



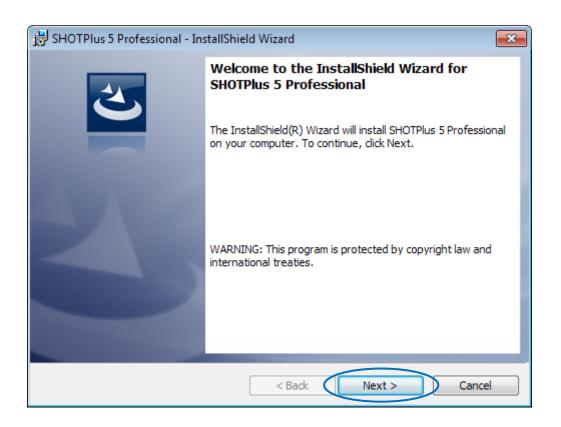
SHOTPlus 5 installation files will download.

Installing SHOTPlus 5 Professional	- • •
Step 1 of 4 - Downloading install file.	
Download	
Cancel	

If presented with a user account control message, select Yes.
 The InstallShield Wizard will begin the installation.

SHOTPlus 5 Professional - InstallSh	ield Wizard
2	Preparing to Install
	SHOTPlus 5 Professional Setup is preparing the InstallShield Wizard, which will guide you through the program setup process. Please wait.
SA	Extracting: Shotplus5-Pro-5.2.29-setup.msi
	Cancel

6. Select **Next**.



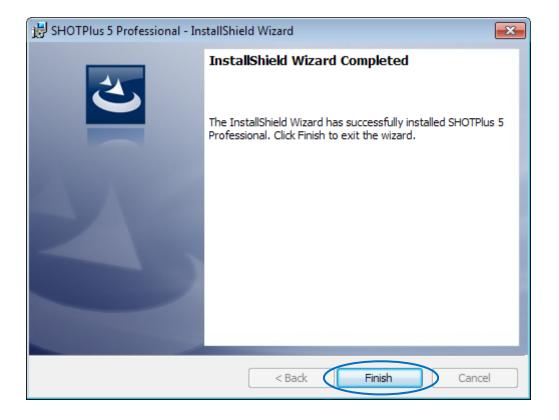
# 7. Select Install.

😸 SHOTPlus 5 Professional - InstallShield Wizard
Ready to Install the Program       The wizard is ready to begin installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard. Current Settings:
Setup Type: Typical
Destination Folder: C:\Program Files\Orica Software\Shotplus5 Pro\
User Information: Name: Windows User Company:
InstallShield < Back Install Cancel

The InstallShield Wizard will continue the software installation.

🛃 SHOTPlu	s 5 Professional - InstallShield Wizard
	SHOTPlus 5 Professional ram features you selected are being installed.
i S	Please wait while the InstallShield Wizard installs SHOTPlus 5 Professional. This may take several minutes. Status:
InstallShield –	< Back Next > Cancel

### 8. Select Finish.



Return to *Blaster's Desktop*.

9. Select **Close**.

Installing SHOTPlus 5 Professional	- • •
Step 4 of 4 - Press close to finish	
Close	

SHOTPlus 5 Professional will now appear in the Detected Installed software list.

SHOTPlus 5 Professional         5.2'9.0         5.2.29         SHOTPlus 5 Professional blast design application           Vodca         1.0.11.0         VOD calculator	Software	Version	Latest available	Description
Vodca 1.0.11.0 VOD calculator	SHOTPlus 5 Professional	5.2.29.0	5.2.29	SHOTPlus 5 Professional blast design application
	Vodca	1.0.11.0		VOD calculator

10. Select the Activation and keys tab.

Tasks Edit Help	for registered u		_		
		e for "Syn	<u>nantec dele</u>	eting Blasting Software and invalidating lice	
etected installed softw		pplications			
Software	Version		Latest available	Description	
HOTPlus 5 Professional	5.2.29.0		5.2.29	SHOTPlus 5 Professional blast design application	
Vodca	1.0.11.0			VOD calculator	
vailable software					
Software	Version		Description		
Software	Version	Link	Link to Microsoft	's .NET 4.0 framework install	
Software .NET 4.0 framework install Blast Design Assistant	Version 1.6.0	Link	Link to Microsoft Blast Design Assi	istant tool for modelling heave, fragmentation and damage based on blast doma	in parameters
Software .NET 4.0 framework install Blast Design Assistant			Link to Microsoft	istant tool for modelling heave, fragmentation and damage based on blast doma	
Software .NET 4.0 framework install Blast Design Assistant Cycad		Install	Link to Microsoft Blast Design Assi Cycad software	istant tool for modelling heave, fragmentation and damage based on blast doma	in parameters
Vailable software Software NET 4.0 framework install Blast Design Assistant Cyclad CyclePro 3 Density	1.6.0	Install Link	Link to Microsoft Blast Design Assi Cycad software Cycle time video	istant tool for modelling heave, fragmentation and damage based on blast doma page	in parameters
Software .NET 4.0 framework install Blast Design Assistant Cycad CyclePro 3 Density	1.6.0	Install Link Install	Link to Microsoft Blast Design Assi Cycad software Cycle time video Calculate inhole	istant tool for modelling heave, fragmentation and damage based on blast doma page analysis software. Time in motion study. Shovel dig rate analysis etc	
Software NET 4.0 framework install 3last Design Assistant Cycad CycdePro 3 Density Digital Bench Drica downloads	1.6.0	Install Link Install Install	Link to Microsoft Blast Design Assi Cycad software Cycle time video Calculate inhole Digital Bench aut Orica public softw	istant tool for modelling heave, fragmentation and damage based on blast doma page analysis software. Time in motion study. Shovel dig rate analysis etc densities for gassed emulsions tomating on bench activities ware listing	in parameters
Software .NET 4.0 framework install Blast Design Assistant Cycad CyclePro 3	1.6.0	Install Link Install Install Link	Link to Microsoft Blast Design Assi Cycad software Cycle time video Calculate inhole Digital Bench aut Orica public softw	istant tool for modelling heave, fragmentation and damage based on blast doma page analysis software. Time in motion study. Shovel dig rate analysis etc densities for gassed emulsions tomating on bench activities	
Software NET 4.0 framework install 3last Design Assistant Cycad CycdePro 3 Density Digital Bench Drica downloads	1.6.0 3.0.3.0 2.0.9	Install Link Install Install Link Link	Link to Microsoft Blast Design Assi Cycad software Cycle time video Calculate inhole Digital Bench aut Orica public soft Fragmentation a	istant tool for modelling heave, fragmentation and damage based on blast doma page analysis software. Time in motion study. Shovel dig rate analysis etc densities for gassed emulsions tomating on bench activities ware listing	

If SHOTPlus 5 Professional edition appears in the Your product keys section, installation is complete and SHOTPlus 5 is ready to use.

If SHOTPlus 5 Professional edition does not appear, continue from Step 11.

New! <u>Cl</u>	ick here	for "Symantec deleting Blastin	g Software ar	d invalidating lic	
Install software Activation an	d keys 🗛	plications			
our product keys					
Software	ID	Key	Status		
Blaster's deuktop	BLTDSK	BLTDS	"Activated"	Release	
SHOTPlus 5 Professional edition	SP SPRO	SP SPR	"Activated"	Release	
Voota	VODCA	VODC	"Activated"	Release	
Activate all Release a rel	N				
dditional product keys avai	N	Description			,
dditional product keys avail Software	able	Description Add on feature to allow the use of 12 intercepts to Premier	be used in SP5	Activate	
dditional product keys avail Software 12 Intercept extension for SP5 Slast Design Assistant	able ID SPSEXI12 BLDEASP	Add on feature to allow the use of 12 intercepts to Premier Blast Design Assistant	be used in SP5	Activate Activate	
dditional product keys avail Software 12 Intercept extension for SP5 slast Design Assistant CYCAD	able ID SPSEXT12 BLDEASP CYCAD	Add on feature to allow the use of 12 intercepts to Premier Blast Design Assistant CYCAD vibration waveform analysis software	be used in SP5	Activate Activate	
dditional product keys avail Software 12 Intercept extension for SP5 Blast Design Assistant CYCAD CyclePro 3	able ID SPSEXI12 BLDEASP CYCAD CP3	Add on feature to allow the use of 12 intercepts to Premier Blast Design Assistant CYCAD vibration waveform analysis software CyclePro 3		Activate Activate Activate	
dditional product keys avail Software 12 intercept extension for SP5 Blast Design Assistant CYCAD CyclePro 3 DIPPlus extension for SP5 Pre	able ID SPSEXT12 BLDEASP CYCAD CP3 SPSEXDIP	Add on feature to allow the use of 12 intercepts to Premier Blast Design Assistant CYCAD vibration waveform analysis software CyclePro 3 Add on feature to allow DIPPlus data to be used w	ith SP5 Premier	Activate Activate Activate Activate	
dditional product keys avail Software 12 intercept extension for SP5 Blast Design Assistant CYCAD CyclePro 3 DIPPlus extension for SP5 Pre License server 3	able ID SPSEXI12 BLDEASP CYCAD CP3 SPSEXDIP LICSVR3	Add on feature to allow the use of 12 intercepts to Premier Blast Design Assistant CYCAD vibration waveform analysis software CyclePro 3 Add on feature to allow DIPPlus data to be used w Legacy security software used for activating Cycle	ith SP5 Premier Pro2 and Sabrex	Activate Activate Activate Activate Activate	
Activate all Release a Activate all Release a Additional product keys avail Software 12 Intercept extension for SP5 Blast Design Assistant CrCAD CycdePro 3 DIPPlus extension for SP5 Pre License server 3 Onica's density application	able ID SPSEXT12 BLDEASP CYCAD CP3 SPSEXDIP	Add on feature to allow the use of 12 intercepts to Premier Blast Design Assistant CYCAD vibration waveform analysis software CyclePro 3 Add on feature to allow DIPPlus data to be used w	ith SP5 Premier Pro2 and Sabrex	Activate Activate Activate Activate	

- 11. Scroll down until SHOTPlus 5 Professional edition appears in the Additional product keys available section.
- 12. Select Activate (beside SHOTPlus 5 Professional edition).

Instal software Activation and keys Your product keys Software ID						
		Кеу	Status			
laster's desktop BLTE	TDSK	BLTDS	"Activated"	Release		
odca VOD	DCA	VODCA	"Activated"	Release		
oftware ID		Description			ł.	
		Description Image analysis tool for fragmentation version 3		Activate		
owerSieve*** 3 PS3	5	A REAL PROPERTY AND		Activate Activate		
overSieve*** 3 PS3 HOTPlus 4 SPST	5	Image analysis tool for fragmentation version 3				
HOTPlus 4 PS3 HOTPlus 4 SPST HOTPlus 5 Premier (beta) SPSP HOTPlus 5 Premier edition SPSP	TD FRMB	Image analysis tool for fragmentation version 3 SHOTPlus 5 for pyrotechnics SHOTPlus-1 5 Premier edition SHOTPlus 5 Premier edition		Activate	1	
werSieve™ 3         PS3           HOTPlus 4         SPS1           HOTPlus 5 Premier (beta)         SPSP           HOTPlus 5 Premier edition         SPSP           HOTPlus 5 Professional edition         SPSP	i TD IPRMB IPRM	Image analysis tool for fragmentation version 3 SHOTPlus 5 for pyrotechnics SHOTPlus-i 5 Premier edition		Activate Activate	)	
werSieve™ 3         PS3           HOTPlus 4         SPS1           HOTPlus 5 Premier (beta)         SPSP           HOTPlus 5 Premier edition         SPSP           HOTPlus 5 Professional edition         SPSP	D TD PRMB PRM PRO	Image analysis tool for fragmentation version 3 SHOTPlus 5 for pyrotechnics SHOTPlus-1 5 Premier edition SHOTPlus 5 Premier edition	(	Activate Activate Activate		
werSieve <sup>™</sup> 3         PS3           HOTPlus 4         SPS1           HOTPlus 5 Premier (beta)         SPSP           HOTPlus 5 Premier edition         SPSP           HOTPlus 5 Professional edition         SPSP	PRMB PRMB PRM PRO ISTD KON	Image analysis tool for fragmentation version 3 SHOTPlus 5 for pyrotechnics SHOTPlus-1 5 Premier edition SHOTPlus 5 Premier edition SHOTPlus 5 Professional edition	(	Activate Activate Activate Activate	)	

SHOTPlus 5 Professional edition will now appear in the Your product keys section.

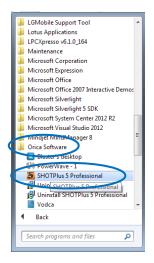
Your product keys					
Software	ID	Кеу	Status		
Blaster's desktop	BLTDSK	BLTDSK	"Activated"	Release	
Vodca	VODCA	VODCA	"Activated"	Release	
SHOTPlus 5 Professional edition	SP5PRO	SPSPRC	"Activated"	Release	
Activate all Release a					

SHOTPlus 5 is now ready to use.

13. Exit from *Blaster's Desktop*.

# 10.4 RUNNING SHOTPLUS 5 FOR THE FIRST TIME

1. Select All Programs / Orica Software / SHOTPlus 5 Professional.



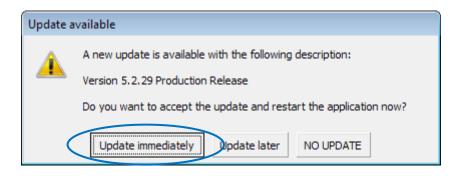
The SHOTPlus 5 Start up screen displays.



After starting SHOTPlus 5, you may be prompted to install an update.

5 SHOTPka* 5 Professional v5.2 (build 29) File Edit View Calculations Tools BLIS server Help			
	CH D B		
	Update evailable A new update is a valiable with the following description: Version 5.2.29 Production Release Do you want to accept the update and restart the appli Update investativity Update later 1/0 UPDA	zation now?	
(0, 0, 0) 0%	Honison Timing disabled	Update found, downloading files	0.4 0

2. Select **Update immediately** (refer to *4.6 Installing SHOTPlus 5 Updates* for further information).



SHOTPlus 5 is loaded and ready for use.

SHOTPlus" 5 Professional v5.2 (build 29) File Edit View Calculations Tools BLISserver Help	- ¢ 🙁
	Laper Harvager
No datato display	
(0.00, 0.00, 0.00)m 0% • Horizon timing disabled • Select tool	0 · A ()

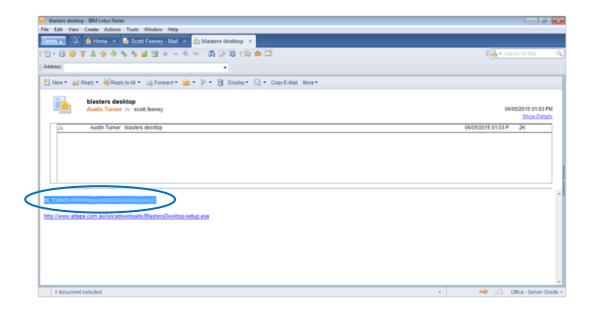
# 10.5 INSTALLING BETA SOFTWARE FOR TESTING

Installing the beta version of the software allows a select group of users to evaluate software prior to general release. Beta software users play a vital role in development, providing suggestions and identifying errors in the code.

To install beta versions of software, *Blaster's Desktop (beta)* must be downloaded first.

Users selected as beta software users will receive an email from the system administrator.

1. Copy the **key** from the email.



- 2. Open **Blaster's Desktop** using the desktop shortcut.
- 3. Select **Activation and keys**.

Tasks Edit Help					
Install softwar Activatio	on and keys	e for "Syn	nantec dele	ting Blasting Software and invalidating lice	ORICA
etected installed softw	1				
Software	Version		Latest available	Description	
SHOTPlus 5 Professional	5.2.29.0		5.2.29	SHOTPlus 5 Professional blast design application	
louca	1.0.11.0			VOD calculator	
	1	1			
Software	Version		Description		
Software NET 4.0 framework install		Link	Link to Microsoft's	s .NET 4.0 framework install	
Software NET 4.0 framework install Blast Design Assistant	Version	Install	Link to Microsoft Blast Design Assi	stant tool for modelling heave, fragmentation and damage based on blast domain para	ameters
Software NET 4.0 framework install 3last Design Assistant Cycad			Link to Microsoft Blast Design Assis Cycad software p	stant tool for modelling heave, fragmentation and damage based on blast domain para page	ameters
Software NET 4.0 framework install 3last Design Assistant Cycad		Install	Link to Microsoft Blast Design Assis Cycad software p Cycle time video	stant tool for modelling heave, fragmentation and damage based on blast domain para page analysis software. Time in motion study. Shovel dig rate analysis etc	ameters
vailable software Software NET 4.0 framework install Blast Design Assistant Cycad CyclePro 3 Density	1.6.0	Install Link	Link to Microsoft Blast Design Assis Cycad software p Cycle time video	stant tool for modelling heave, fragmentation and damage based on blast domain para page	meters
Software INET 4.0 framework install Blast Design Assistant Cycad CycdePro 3 Density Digital Bench	1.6.0	Install Link Install	Link to Microsoft Blast Design Assi Cycad software p Cycle time video Calculate inhole o Digital Bench aut	stant tool for modelling heave, fragmentation and damage based on blast domain para page analysis software. Time in motion study. Shovel dig rate analysis etc densities for gassed emulsions omating on bench activities	meters
Software NET 4.0 framework install Blast Design Assistant Cycad CyclePro 3 Density	1.6.0	Install Link Install Install	Link to Microsoft Blast Design Assi Cycad software p Cycle time video Calculate inhole o	stant tool for modelling heave, fragmentation and damage based on blast domain para page analysis software. Time in motion study. Shovel dig rate analysis etc densities for gassed emulsions omating on bench activities	meters
Software NET 4.0 framework install Jast Design Assistant Cycad CycdePro 3 Density Digital Bench	1.6.0	Install Link Install Install Link	Link to Microsoft <sup>4</sup> Blast Design Assii Cycad software p Cycle time video Calculate inhole o Digital Bench aut Orica public softv	stant tool for modelling heave, fragmentation and damage based on blast domain para page analysis software. Time in motion study. Shovel dig rate analysis etc densities for gassed emulsions omating on bench activities	meters
Software NET 4.0 framework install allast Design Assistant Cycad CycdePro 3 Density Digital Bench Drica downloads	1.6.0 3.0.3.0 2.0.9	Install Link Install Install Link Link	Link to Microsoft <sup>4</sup> Blast Design Assii Cycad software p Cycle time video Calculate inhole o Digital Bench aut Orica public softv Fragmentation an	stant tool for modelling heave, fragmentation and damage based on blast domain para page analysis software. Time in motion study. Shovel dig rate analysis etc densities for gassed emulsions omating on bench activities ware listing	imeters

- 4. Paste the **key** in the field beside **Add key**.
- 5. Select Add key.

New! Cl	ick here	for "Symantec deleting Blastin	g Software an	d invalidati	ng lice	ORIO
Instal software Activation an	d keys 🗛	plications				
our product keys						
Software	ID	Key	Status			
Blaster's desktop	BLTDSK	BLTDSK-	"Activated"	Release		
SHOTPlus 5 Professional edition	SPSPRO	SPSPRO	"Activated"	Release		
Vodca	VODCA	VODCA-	"Activated"	Release		
Activate all Release a	N					
	N	Description				
Additional product keys avail	lable ID	Description Add on feature to allow the use of 12 intercepts to	be used in SP5	Activate		
Additional product keys avail	lable ID	Add on feature to allow the use of 12 intercepts to	b be used in SP5	Activate Activate		
udditional product keys avail Software 12 intercept extension for SP5	ID SPSEXI12	Add on feature to allow the use of 12 intercepts to Premier	o be used in SP5			
dditional product keys avail Software 12 intercept extension for SP5 Blast Design Assistant	ID SPSEXI12 BLDEASP	Add on feature to allow the use of 12 intercepts to Premier Blast Design Assistant	o be used in SP5	Activate		
Additional product keys avail Software 12 Intercept extension for SP5 Blast Design Assistant CYCAD	ID SPSEXI12 BLDEASP CYCAD CP3	Add on feature to allow the use of 12 intercepts to Premier Blast Design Assistant CYCAD vibration waveform analysis software		Activate Activate	R	
Additional product keys avail Software 12 intercept extension for SP5 Blast Design Assistant CYCAD CyclePro 3	ID SPSEXI12 BLDEASP CYCAD CP3	Add on feature to allow the use of 12 intercepts to Premier Blast Design Assistant CYCAD vibration waveform analysis software CyclePro 3	ith SP5 Premier	Activate Activate Activate		
Additional product keys avail Software 12 intercept extension for SP5 Blast Design Assistant CYCAD CyclePro 3 DIPPlus extension for SP5 Pre	ID SPSEXT12 BLDEASP CYCAD CP3 SPSEXDIP	Add on feature to allow the use of 12 intercepts to Premier Blast Design Assistant CYCAD vibration waveform analysis software CyclePro 3 Add on feature to allow DIPPlus data to be used w	ith SP5 Premier Pro2 and Sabrex	Activate Activate Activate Activate		
Additional product keys avail Software 12 Intercept extension for SP5 Blast Design Assistant CYCAD CyclePro 3 DIPPlus extension for SP5 Pre License server 3	ID SPSEXI12 BLDEASP CYCAD CP3 SPSEXDIP LICSVR3	Add on feature to allow the use of 12 intercepts to Premier Blast Design Assistant CYCAD vibration waveform analysis software CyclePro 3 Add on feature to allow DIPPlus data to be used w Legacy security software used for activating Cycle	ith SP5 Premier Pro2 and Sabrex	Activate Activate Activate Activate Activate		

This action adds the beta version into the Your product keys area.

oftware	ID	Кеу	Status		
Blaster's desktop	BLTDSK	BLTDSK-	"Activated"	Release	
Blaster's desktop (beta)	BLTDSKB	BLTDSKB-	"Activated"	Release	
SHOTHus 5 Professional edition	SP SPRO	SP SPRC	"Activated"	Release	
Vodca	VODCA	VODCA-	"Activated"	Release	

After installing the beta version of *Blaster's Desktop*, the other beta versions of software are now available.

#### 6. Select the **Install software** tab.

	ick here	for "Symantec deleting Blastin	g Software an	ind invalidating lie	ce Dorio
Instal software Activation and	d keys Ag	plications			
four product keys					
Software	ID	Кеу	Status		
Blaster's desktop	BLTDSK	BLTDSK	"Activated"	Release	
Blaster's desktop (beta)	BLTDSKB	BLTDSKE	"Activated"	Release	
SHOTPlus 5 Professional edition	SPSPRO	SP SPRC	"Activated"	Release	
Vodca	VODCA	VODCA-	"Activated"	Release	
Activate all Release a Additional product keys avail	N				
	N	Description			
Additional product keys avail	lable ID	Description Add on feature to allow the use of 12 intercepts to Premier	be used in SP5	Activate	
Additional product keys avail	lable ID	Add on feature to allow the use of 12 intercepts to	be used in SP5	Activate Activate	
Additional product keys avail Software 12 intercept extension for SP5	ID SPSEXI12	Add on feature to allow the use of 12 intercepts to Premier	be used in SP5		
Additional product keys avail Software 12 intercept extension for SP5 Blast Design Assistant	ID SPSEXI12 BLDEASP	Add on feature to allow the use of 12 intercepts to Premier Blast Design Assistant	be used in SP5	Activate	
Additional product keys avail Software 12 intercept extension for SP5 Blast Design Assistant Blast Design Assistant (beta)	ID SPSEXI12 BLDEASP BLDEAS	Add on feature to allow the use of 12 intercepts to Premier Blast Design Assistant Blast design assistant beta version	be used in SP5	Activate Activate	
Additional product keys avail Software 12 intercept extension for SP5 Blast Design Assistant Blast Design Assistant (beta) CYCAD	able ID SPSEXI12 BLDEASP BLDEAS CYCAD	Add on feature to allow the use of 12 intercepts to Premier Blast Design Assistant Blast design assistant beta version CYCAD vibration waveform analysis software	be used in SP5	Activate Activate Activate	
Additional product keys avail Software 12 intercept extension for SP5 Blast Design Assistant Blast Design Assistant (beta) CYCAD CyclePro 3	able ID SPSEXI12 BLDEASP BLDEAS CYCAD CP3 CP3BETA	Add on feature to allow the use of 12 intercepts to Premier Blast Design Assistant Blast design assistant beta version CYCAD vibration waveform analysis software CyclePro 3		Activate Activate Activate Activate	

The beta versions of the software now appear.

- 7. Scroll down to SHOTPlus 5 (beta) using the scroll bar.
- 8. Select Install.

Available software			
Software	Version		Description
Orica downloads		Link	Orica public software listing
PowerSieve™ 2	2.13	Install	Fragmentation analysis via image processing
PowerSieve™ 3	3.0.21	Install	Fragmentation analysis via image processing
PowerWave <sup>3</sup>		Link	Orica's analysis software for PowerWave radar
SHOTPlus	4.88	Install	Timing and blast design software for pyrotechnic applications
SHOTPlus 5 (beta)	5.2.53	Install	SHOTPlus 5 blast design application which may be used with standard, i-kon, and Pro product Keys DETA)
SHOTPlus 5 Docs	1.0	Install	SHOTPlus 5 development documentation and test files
SHOTPlus 5 Premier	5.2.29	Install	SHOTPlus 5 Premier blast design application
SHOTPlus 5 Premier (beta)	5.1.131	Install	SHOTPlus Premier 5 blast design application (BETA)
CHOTDlue E Chandard	E 0 00	Testall	CLIOTDive E blact degine poplication

# 9. Select **OK**.

Confirm	installation
?	Are you sure you wish to install SHOTPlus 5 (beta)?
	OK Cancel

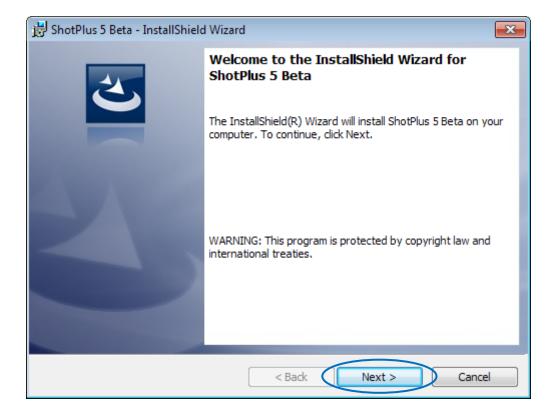
The SHOTPlus 5 beta version will be installed.

Installing SHOTPlus 5 (beta)	
Step 1 of 4 - Downloading install file.	
Download	
Cancel	

If presented with a user account control message, select Yes.
 The InstallShield Wizard will begin the installation.

ShotPlus 5 Beta - InstallShield Wizard	
2	Preparing to Install
	ShotPlus 5 Beta Setup is preparing the InstallShield Wizard, which will guide you through the program setup process. Please wait.
S	Extracting: Shotplus5Beta-5.2.53-setup.msi
	Cancel

#### 11. Select Next.



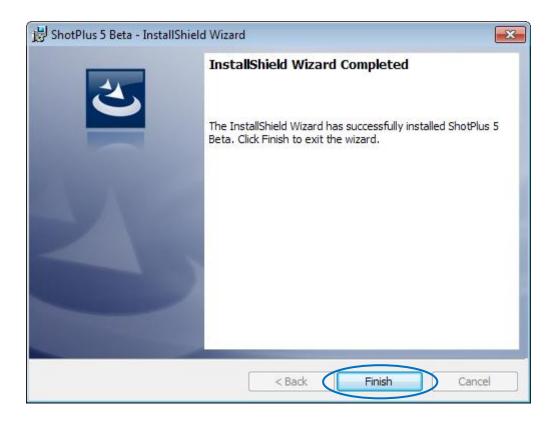
# 12. Select Install.

😸 ShotPlus 5 Beta - InstallShield Wizard
Ready to Install the Program         The wizard is ready to begin installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard. Current Settings:
Setup Type: Typical
Destination Folder: C:\Program Files\Orica Software\Shotplus5Beta\
User Information: Name: Windows User Company:
I InstallShield < Back Install Cancel

The InstallShield Wizard installs the software.

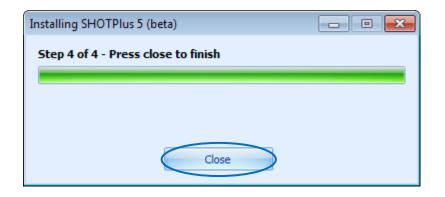
😸 ShotPlus	5 Beta - InstallShield Wizard 📃 📼 💌
	ShotPlus 5 Beta ram features you selected are being installed.
1 <del>2</del>	Please wait while the InstallShield Wizard installs ShotPlus 5 Beta. This may take several minutes.
	Status:
	Validating install
InstallShield	
notanol neta -	< Back Next > Cancel

# 13. Select Finish.



The user is returned to *Blaster's Desktop*.

14. Select **Close**.



SHOTPlus 5 (beta) now appears in the **Detected installed software** list.

	Detected installed software					
	Software	Version		Latest available	Description	
$\triangleleft$	SHOTPlus 5 (beta)	5.2.53.0		5.2.53	SHOTPlus 5 blast design application which may be used with standard, i-kon, and Pro product Keys (BETA)	
	SHOTPlus 5 Professional	5.2.29.0		5.2.29	SHOTPlus 5 Professional blast design application	
	Vodca	1.0.11.0			VOD calculator	

# 10.6 TO OPEN THE BETA VERSION

1. Select All Programs / Orica Software / SHOTPlus 5 Pro (Beta).



# SHOTPlus 5 loads.



Users operating as beta software testers can select to test *SHOTPlus 5* in standard, premier or professional grades. This box will appear every time the program is started.

SHOTPlus™ 5 Beta Testing						
Choose the version of SHOTPlus™ to test						
SHOTP	Plus™ 5 SHOTPlus™ 5 Premier SHOTPlus™ 5 Professional					

SHOTPlus 5 will open in the chosen grade. A Start-up Assistant will appear.

5 SHOTPks <sup>14</sup> 5 Professional v5.2 (build 53) beta version		
File Edit View Calculations Tools BlastTrack Help		
✓ ✓ Ⅲ + T / ∧ ∀ → A ⊙	N N N N N N N N N N N N N N N N N N N	
the 🔉 🕸 🕫 🚟 🚛		1000-00 (22)
Window	SHOTPlus <sup>14</sup> 5 Professional Beta	10000
findse manuger	Welcome to SHOTPlus <sup>194</sup> 5 Professional Beta Open existing file	viage Via
	C: Loos Soft Downloads Elawels, 200 at D: Loes Soft Downwrit Wastfrack Bast Fles Essenple, 158. sof	
	Brownes New Mast BlastTrack	Careel
0.0.0 0%	Horgon timing disabled	<ul> <li>Felect tool</li> <li>▲ ● •</li> </ul>