



Health & Safety Authority Quarry Managers Briefing

Via Webex
23rd February 2021



SPRING QUARRY SAFETY CAMPAIGN 2021

1ST - 13TH MARCH 2021



#BESEEN&BESAFE



- Industry Joint Initiative
- Quarry Risks – particularly *"Vehicles & Pedestrian Safety"*
- Approach to Inspections
- Use of Checklist



H.S.A./ICF Initiative

- Quarrying is accepted as an essential service during the COVID Pandemic
- Quarrying continues to operate (to a limited extent) to supply materials to the construction sector
- We need a level of engagement/interaction with Quarry Management to maintain focus on workplace safety
- While difficult, we need to maintain a level of Inspection in the sector

Dates and Times of presentations

- Tuesday 23rd Feb – Managers Pre-campaign Briefing (11am – 12 noon)
(Hosted by ICF/H.S.A.)

Spring Campaign Toolbox Talks – Managers/Supervisors → Operators/Workers

Week 1

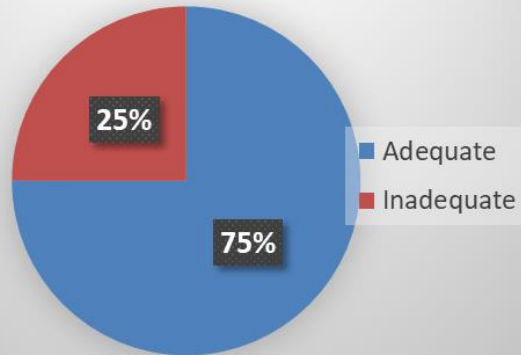
- Tues 2nd March – 11am – 11.30am – Pedestrian Safety Guidance – P. Griffin
- Thurs 4th March – 11am – 11.30am – Vehicle Safety – G. Murphy

Week 2

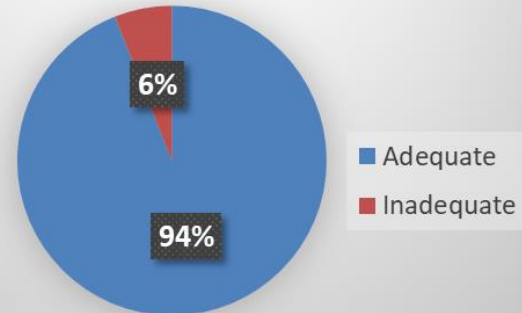
- Tues 9th March – 11am – 11.30am – Brake Testing/Lifting Equipment/ Visibility – C. Kelly
- Thurs 11th March – 11am – 11.30am – Traffic Management Plan - P. Maslin

2019 Campaign Positives

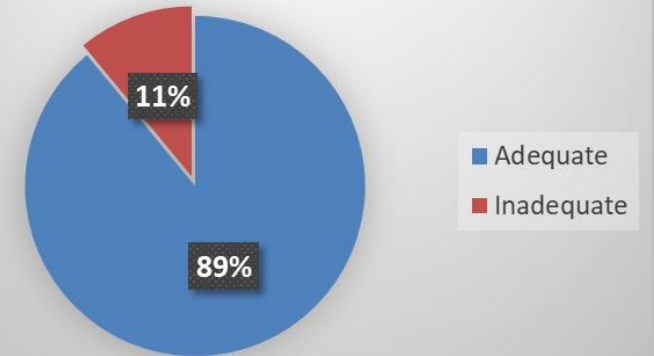
Signage



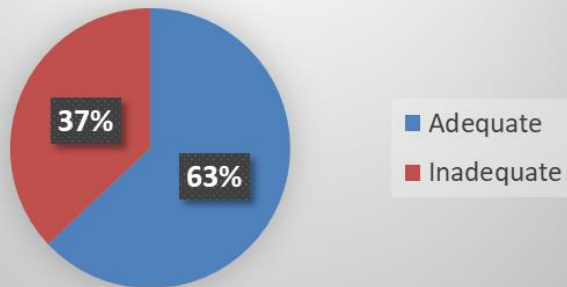
Staff Parking



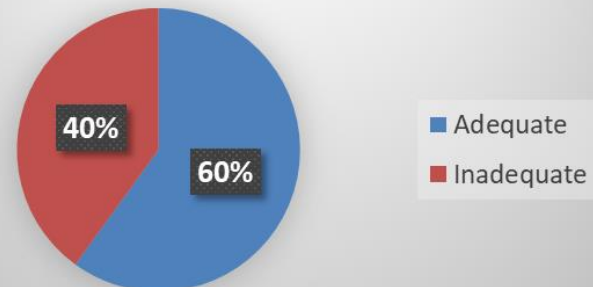
Parking area for Customers/Visitors



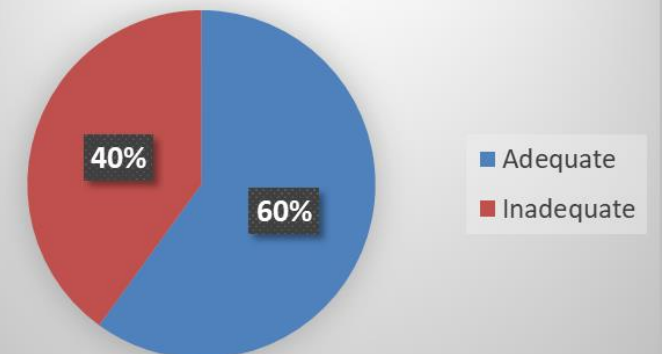
Site speed limits Implemented



reversing operations limited

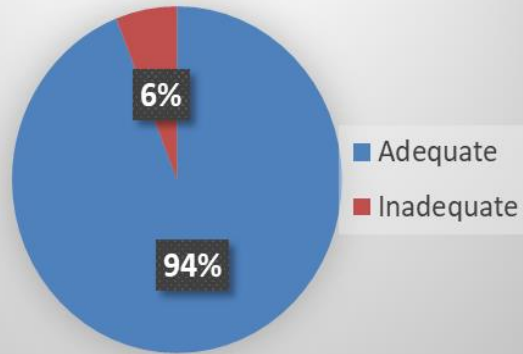


Protection of Pedestrians

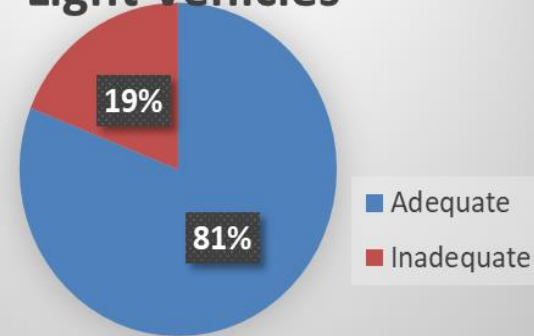


2019 Campaign Positives

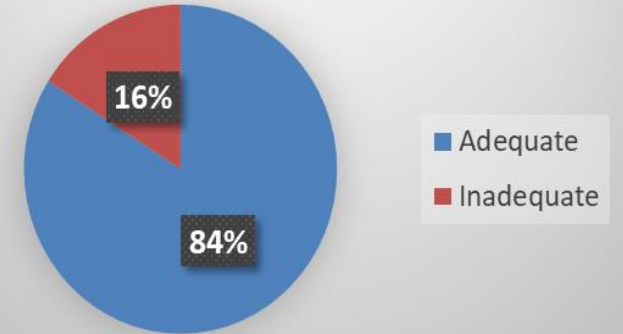
Road Conditions



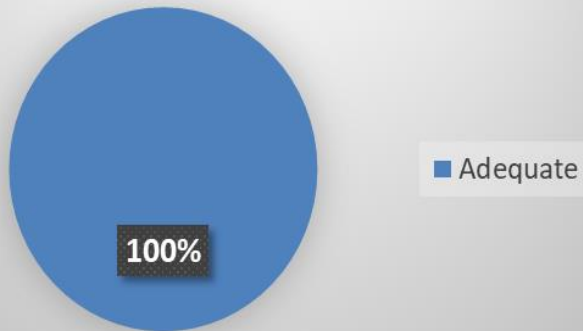
Flashing Beacons etc on Light Vehicles



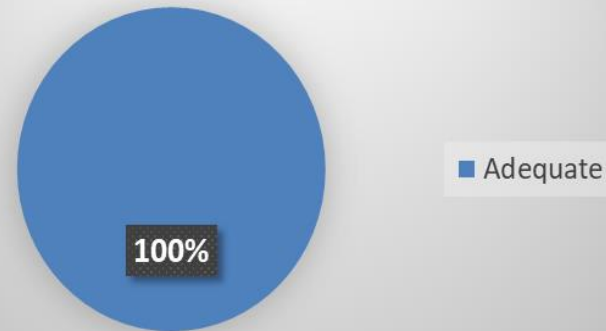
Flashing Beacons on Service Vehicles



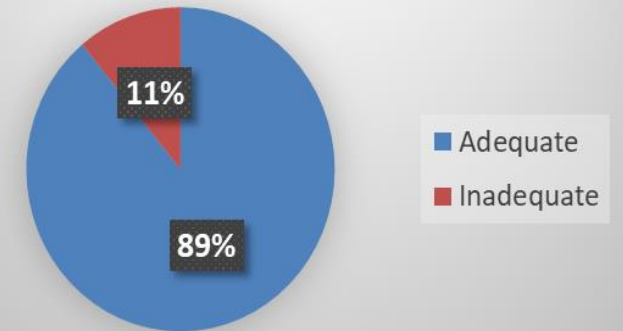
Satisfactory Brake Testing Results



Vehicle Operator Training

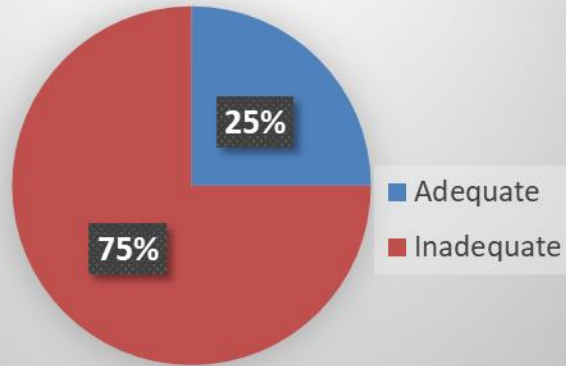


Reversing Aids on Vehicles

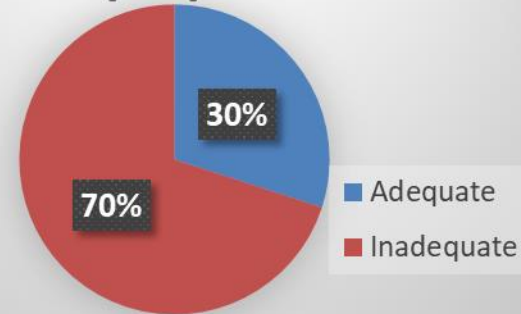


2019 Campaign Negatives

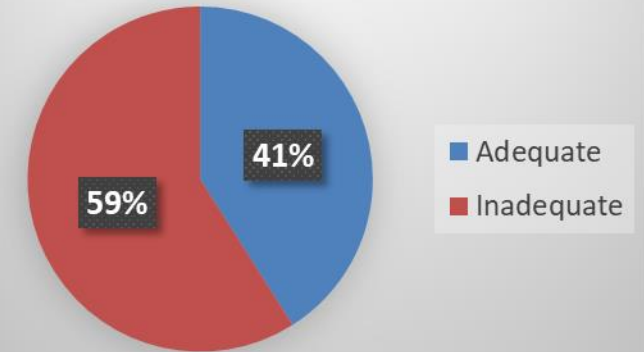
Is there a Traffic Management Plan



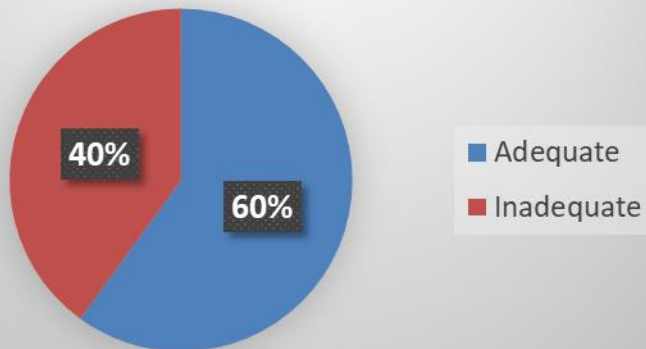
Customers/Visitors rules prepared



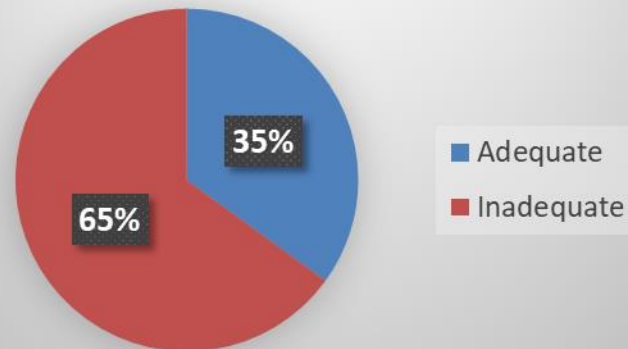
Procedures for Light Vehicle drivers



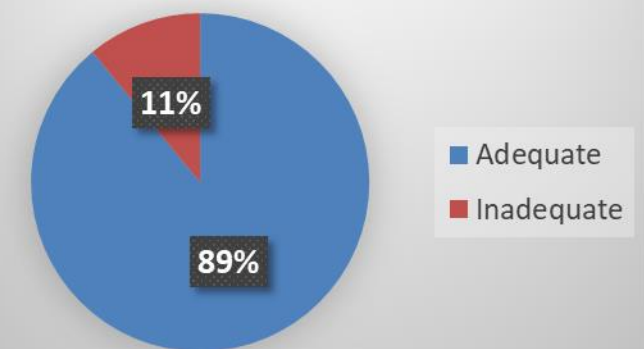
locations not carrying out Brake testing



Identifying/Mark Pedestrian Routes



Reversing Aids on Vehicles



Approach to Quarry Inspection

- ***“Pedestrian and Vehicle Interactions”***
- Vehicle Safety/Vehicle Interactions
- Face Management
- Work at Height
- Drilling and Blasting
- Drowning
- Fixed & Mobile Processing Plant
- Maintenance and machinery isolation
- Ancillary Plant Dangers



Preparing a traffic management plan

- Site layout is sketched to reflect traffic and pedestrian areas and movement
- Risk assessment done collectively with workers, haulers and supply chain
- Potential Worker and Vehicle collisions identified and means of minimizing risks established
- Detailed risk assessment completed
- Pedestrians removed from work areas as far as possible
- Convex mirrors placed at the blind or no visibility corners
- Site layout traffic plan is developed
- Signage and one-way drive-through system for every vehicle to avoid the need for reversing
- Site induction toolbox talks and kick-off meetings to provide information and instruction about traffic management to all.
- Information is provided in advance to delivery drivers and subcontractors coming on site.
- Dedicated areas for loading trucks and small loads established
- Speed bumps at entry and exit gates

Management

- Traffic and pedestrian behavior monitored
- Site supervision completes regular audits
- Safety alerts are shared with other sites to learn from near misses

Foynes Site!

Legislation & Guidance

- Safety, Health and Welfare at Work Act 2005
- Safety, Health and Welfare at Work, (Quarry) Regulations 2008
- General Applications Regulations



Pedestrian and Vehicle Interactions



HEALTH AND SAFETY
AUTHORITY

- Dedicated Parking Areas for Visitors/Employees Vehicles
- Pedestrian Routes to be immediately identifiable
- Dedicated small load pick up area
- Segregation of Pedestrians & Vehicles at all times
- Hauliers to remain in their Vehicles During loading
- <https://vimeo.com/189619601>
(Drone - Traffic Management)

https://www.youtube.com/watch?v=xikTo809p_g
<https://www.youtube.com/watch?v=2kjBg9oWk84>



Location : _____		Date: _____		
Quarry Entrance and Office	Yes	No	N/A	Comments
Is there adequate Signage at Quarry Entrance? (Warning of Vehicle Movements/Speed Limits/Parking areas/Customers & Visitors to report to reception or Office or Weighbridge)				
Are Procedures in place for small load customers? (Trailers etc.)				
Are Rules Prepared and provided to Customers/Visitors?				
Are there identified Pedestrian routes with directions from parking areas?				
Traffic Routes				
Is there a Traffic Management Plan?				
Are traffic routes identified and sign-posted?				
Are roadways well designed with surfaces well maintained?				
Are there speed limits signs?				
Are speed limits enforced?				
Are rights of way signposted?				
Are appropriate one-way systems in use?				
Is reversing minimised?				
Are actions taken to protect pedestrians? (identified routes & segregation)				
Light Vehicles & Service Vehicles				
Are light vehicle movements restricted in the quarry? (Who/When/Where)				
Do Light vehicles have roof mounted flashing amber/hazard lights on?				
Are Procedures in place for Light Vehicle drivers to follow? (Rights of way/ Traffic Routes)				
Do Tractors/Fuel Bowsers/Water Bowsers/Road Sweepers have beacons and warning lights?				
Are PTO Shafts adequately guarded?				

Checklist matches Question Set

Vehicle and Pedestrian Safety Checklist		HEALTH AND SAFETY AUTHORITY		2021 Initiative	
Vehicles					
Do vehicles have adequate Reversing and visibility aids?					
Is Brake testing carried out on Loading Shovels and Dumper Trucks?					
Can tyre inflation take place without endangering persons?					
Is there a policy on "No Children Allowed" in quarry or vehicles?					
Do procedures require drivers to remain in vehicles during loading?					
Pedestrians					
Are Pedestrians segregated where possible?					
Is appropriate High-Vis PPE provided, used and maintained?					
Are Pedestrian Routes identified and Marked?					
Are vehicles restricted from passing close to Pedestrian Doors at Canteens/Welfare Facilities/Workshops/Offices?					
Are Concave/Convex Mirrors provided at blind spots at exits from offices/workshops/canteen/welfare facilities? etc					
Additional Suggestions;					

Useful Videos

New Traffic Management

<http://safequarry.com/BestPracticeView.aspx?kBestPractice=1961&fkActivity=32&fkLocation=7>

Traffic Pods for Pedestrians

https://m.youtube.com/watch?v=7Tg42qc6_KY&feature=youtu.be

Quarry Traffic Management by Drone

<https://vimeo.com/189619601>

High Speed Site Deliveries

<http://safequarry.com/BestPracticeView.aspx?kBestPractice=2006&fkActivity=32&fkLocation=31>

Blue Lights for Tarmacking

<http://safequarry.com/BestPracticeView.aspx?kBestPractice=1999&fkActivity=40&fkLocation=10>

H.S.A. Quarry Video Playlist

https://www.hsa.ie/eng/Your_Industry/Quarrying/Events_Organisations_Publications/Publications_and_Videos/

Traffic Management Induction

- At Tarmac Ltd, Thrislington Quarry, contractors had provided feedback that when visiting for the first time, they had found it extremely difficult to navigate around the site even after receiving a full induction.
- Watch & Identify Improvements
- <https://vimeo.com/189619601>



<http://safequarry.com/BestPracticeView.aspx?kBestPractice=2001&fkActivity=37&kLocation=3>

Thanks For Your Attention – Q's