



Health, Safety & Environmental Statistics

Quarter 4

2019

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HSE Data Summary Q4 2019

Fatality	Major Injury	+7 Day (RIDDOR)	1-7 LTA	HPI
1	1	4	8	6

Accidents (per thousand at risk)	Qtr Ended 31.12.19	Qtr Ended 30.09.19	Qtr Ended 30.06.19	Qtr Ended 31.03.19	Qtr Ended 31.12.18
Quarterly Incidence Rate	4.26	2.97	2.76	5.48	4.90
Annual Incidence Rate	16.05	16.38	21.4	21.4	26.3
Quarterly Incidence Rate – Specified Injuries	0.3	0.59	0.92	0.64	1.53
Annual Incidence Rate – Specified Injuries	1.82	3.03	4.82	4.69	5.87
Quarterly IR – all RIDDOR reportable	1.82	1.78	2.26	2.26	2.45
AIR – all RIDDOR reportable	5.45	6.67	4.98	4.98	6.97
Agency / Subcontract / Self Employed	0	0	1	0	0
Non-employees (No. of accidents)	0	0	0	0	0
High Potential Incidents	0	5	3	-	-
Dangerous Occurrences (non-injury)	0		3	0	1
Number of Members Making Returns	18	18	18	19	18
Number of Members with No Accidents	10	10	12	10	10
Service Strikes					
Electricity		1	2	1	4
Gas		0	0	0	0
Water	2	2	1	0	3
Other	2	3	0	0	2
Total	4	6	3	0	9
No. with Permit to Work in place	?	4	1	1	8

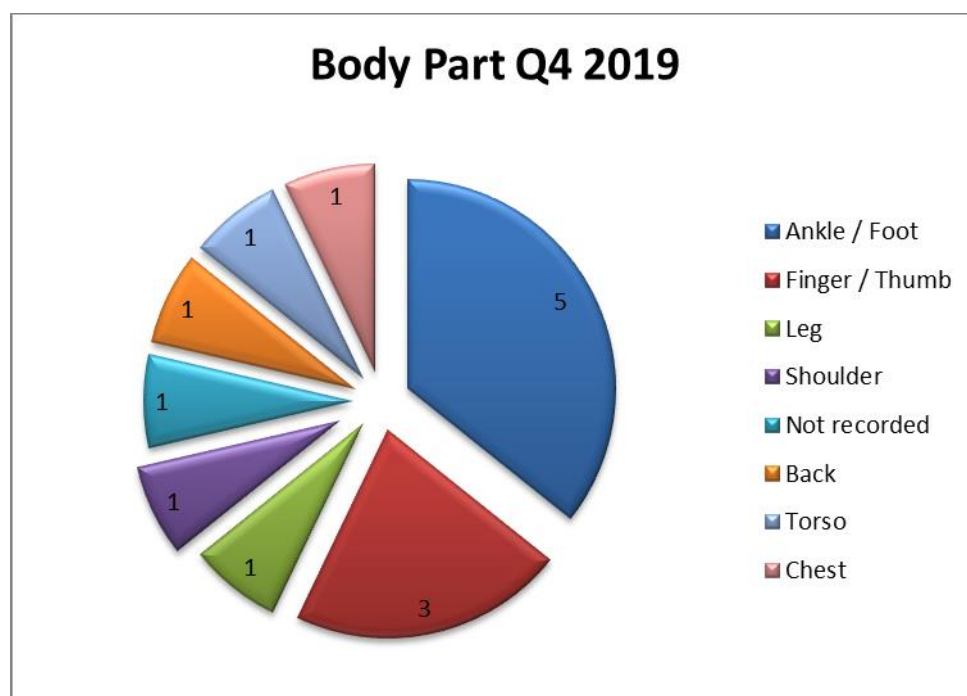
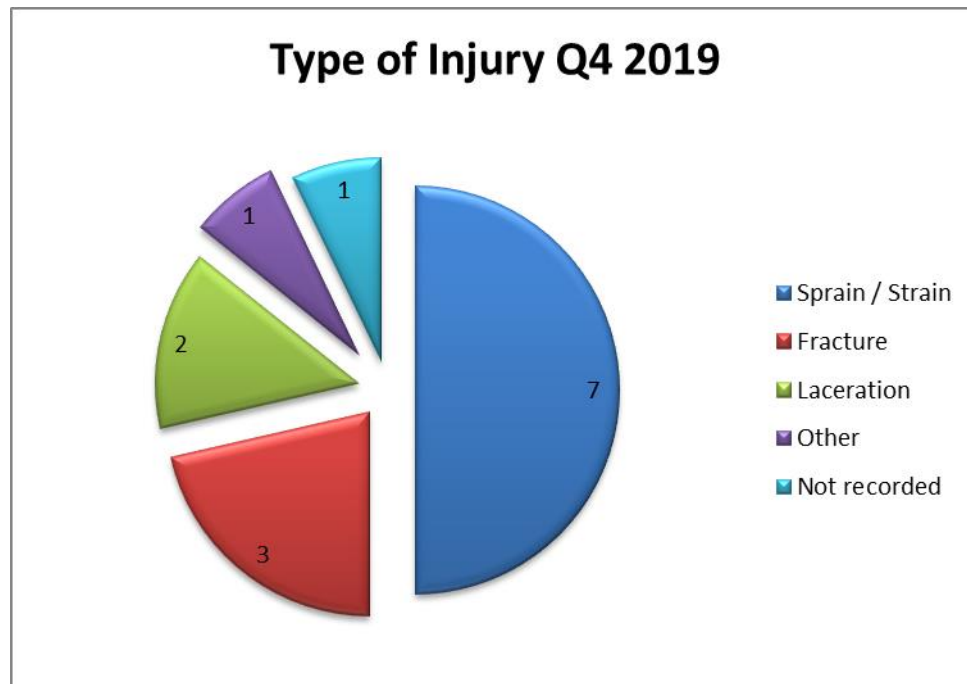
Q4 Accident Data – Part 1

Type of Injury	Q4 - 2018	Q1 - 2019	Q2 - 2019	Q3 - 2019	Q4 - 2019
Sprain / Strain	1	5	3		7
Fracture	7	4	5	5	3
Laceration		3		2	2
Other	2	1			1
Not recorded					1
Bruise	5	2		2	
Minor cuts or abrasions		2		1	
Eye (any type)			1		
Dislocation	1				
Burn (any type)					
Internal injuries					
Multiple					
Dislocation					
Fatal					
Amputation					
Crush					
Reportable disease					
	16	17	9	10	14
Body Part Injured	Q4 - 2018	Q1 - 2019	Q2 - 2019	Q3 - 2019	Q4 - 2019
Ankle / Foot	3	5	3	3	5
Finger / Thumb	3	1		3	3
Leg	3	1		2	1
Shoulder	1	2	2		1
Not recorded					1
Back	1	3			1
Torso		1			1
Chest					1
Hand / Wrist		1	1	1	
Multiple / whole body				1	
Arm	4	1	2		
Eye		2	1		
No Injury					
Head	1				
	16	17	9	10	14
Foundation Site Activity	Q4 - 2018	Q1 - 2019	Q2 - 2019	Q3 - 2019	Q4 - 2019
CFA/CSP site	4	2	2	5	3
Not identified		3			3
Factory Premises		1		2	2
Driven site					2
Rotary site	5	7	2	2	1
Plant Yard or Workshop	4	2	1		1
Grouting site		1			1
Diaphragm / Barrette site	1				1
Drilling/Minipile site		1	2	1	
Unidentified	1		1		
Offsite	1		1		
Pile testing					
Perm. Office					
Sheet Piling					
Vibro / Ground stab'n site					
Underpinning					
	16	17	9	10	14
Trade of Injured	Q4 - 2018	Q1 - 2019	Q2 - 2019	Q3 - 2019	Q4 - 2019
General Piling Operative	8	10	3	7	9
Workshop /Factory Operative	3	1	1	2	3
Fitter / Elec / Welder	1	2		1	1
Manager/Supervisor	2		2		1
Delivery/RMC Driver		1	2		
Other Sub-Contractor			1		
Crane/Rig Driver					
Foreman/Ganger/Chargehand	1	2			
Mixer / Pump man	1	1			
Other Contractor					
Ancillary Plant Operator					
Steel fixer					
Office Staff					
Member of Public					
	16	17	9	10	14

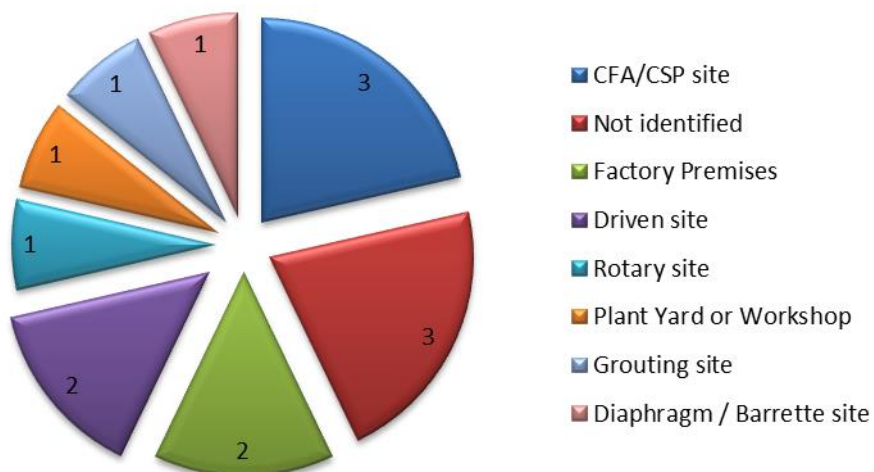
Q4 Accident Data – Part 2

Immediate Causes	Q1- 2019	Q2 - 2019	Q3 - 2019	Q4- 2019
Slip/Trip	2	4	2	4
Handling, Lifting or Carrying	5		2	4
Contact with Plant / Machinery	5		4	2
Moving/Falling Objects	4	2	1	2
Trapped against something			1	1
Not known		1		1
Hit something fixed or stationary		1		
Fall from Height		1		
Contact with Vehicle	1			
Exposed to an Explosion				
Acts of violence				
Asphyxia / Drowning				
Contact with Electricity				
Exposed to Fire				
Exposed to Harmful Substance				
Injured by an animal				
Natural Causes				
Other				
Trapped by something collapsing / overturning				
	17	9	10	14
Personal Factors	Q1- 2019	Q2 - 2019	Q3 - 2019	Q4- 2019
Error (lapse, slip, mistake)	2	6	4	3
Perception of risk (unaware, under estimate, macho)	6	2	3	3
Competence (skill, knowledge, experience)	3		1	3
Not recorded				2
Distraction (by colleagues, others, personal issues)				2
Violation (deliberate rule breaking)	1			1
N/A	2	1	2	
Rushing work (programme, catch up, bonus)	1			
Excessive demands (physical, mental, workload)	2			
Fatigue (excessive work hours, personal issues)				
Morale (bored, disheartened, personal issues)				
Perception of priorities (supervision, peers, site team)				
	17	9	10	14
Job Factors	Q1- 2019	Q2 - 2019	Q3 - 2019	Q4- 2019
Maintenance of safe work environment (noise, layout, interfaces, atmosphere, etc)	3	3	2	4
Risk assessment and safe method of work (done, adequate, appropriate, checked, etc)	9	2	1	3
Compliance	1		3	2
Task planning (complies with RA and systems of work, adequate resources, buy in, communications, etc)	2		2	2
Not recorded				2
N/A	1	2	2	1
Provision and maintenance of plant / tools / equipment / PPE		2		
Supervision (numbers, communication, competence, control, etc)				
Communications (shift hand over, changes, toolbox talks, language, induction, poster, etc)	1			
Management of hazardous materials and emergency response				
	17	9	10	14
Organisational Factors	Q1- 2019	Q2 - 2019	Q3 - 2019	Q4- 2019
N/A	4	7	4	6
Design & planning risk management (elimination, assessment, control HSE risks)	7	1	2	4
Not recorded				2
Contractor management (selection, standard setting, liaison, monitoring, supervision)	2	1	1	1
Client demands (time, cost, schedule and design contractors, etc)				1
Training (provided, adequate, recent)			1	
Allocation of staff and resources (competence, time, cost, equipment)			1	
Maintenance of safe work environment (noise, layout, interfaces, atmosphere etc)			1	
Programme (time, co-ordination, progress, realism, change)	1			
HS&E management system (document control, investigation, lessons learnt)	1			
Management of Change (communication, evaluation, consultation)	1			
Communication (corporate, project, business)	1			
Leadership (provided, adequate, visible, followed, credible, trusted)				
Responses to emergencies and previous incidents				
Allocation and fulfilment of responsibilities (just culture approach)				
Community issues (lack of liaison – neighbours / regulators)				
External pressures (legal, market, environment)				
	17	9	10	14

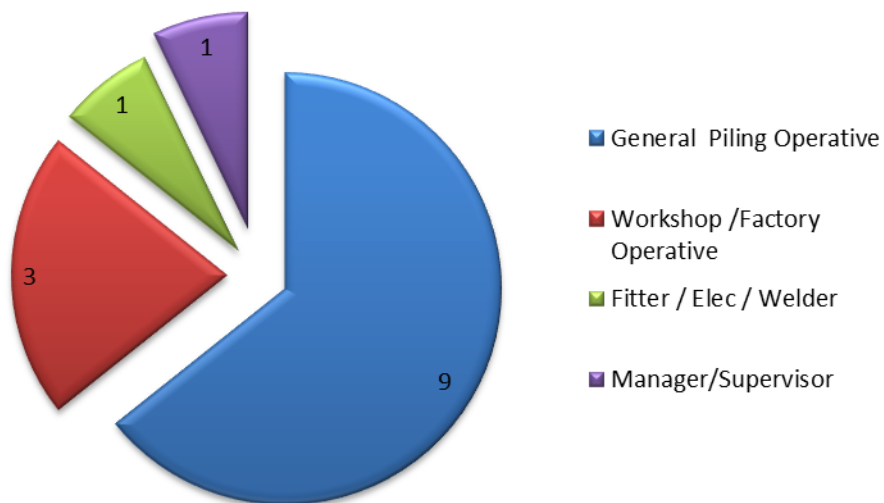
Quarter 4 Accident Charts



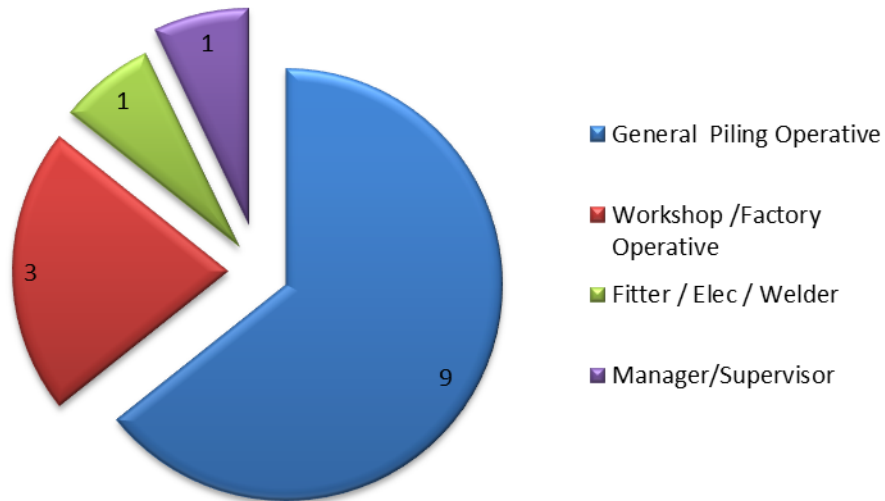
Site Activity Q4 2019



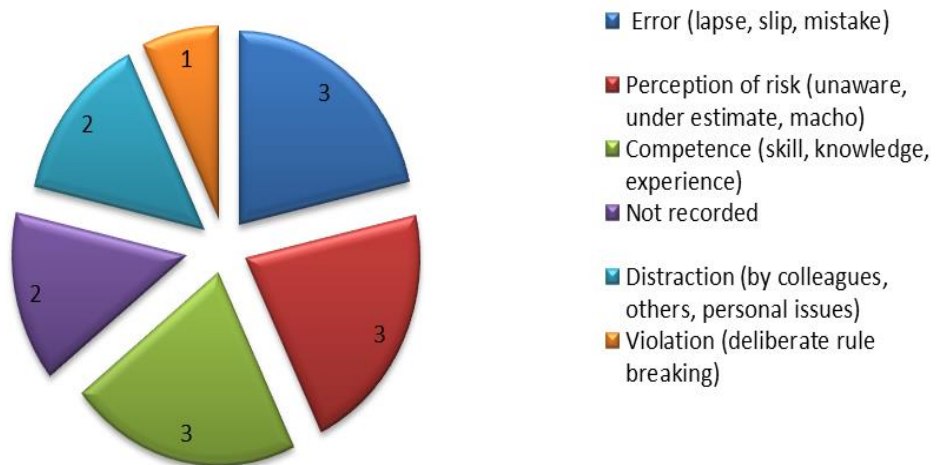
Trade of Injured Q4 2019



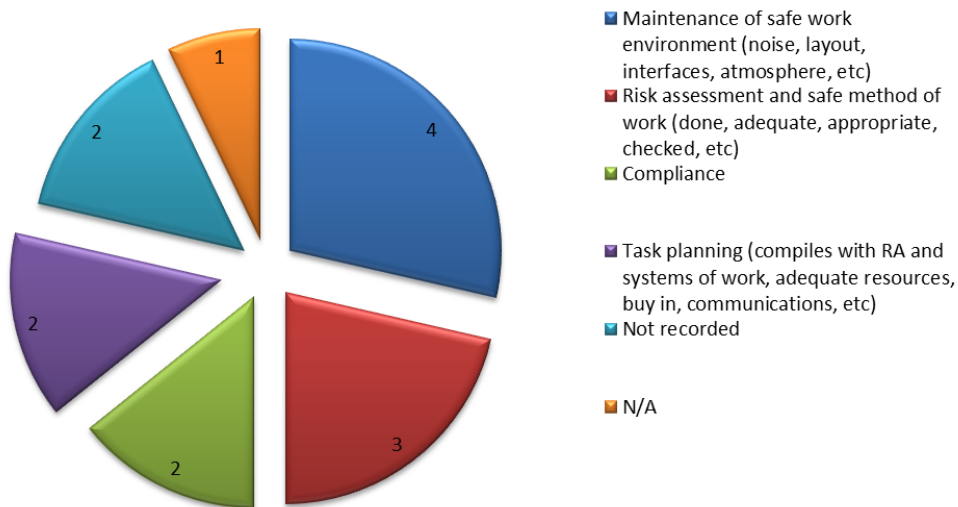
Trade of Injured Q4 2019



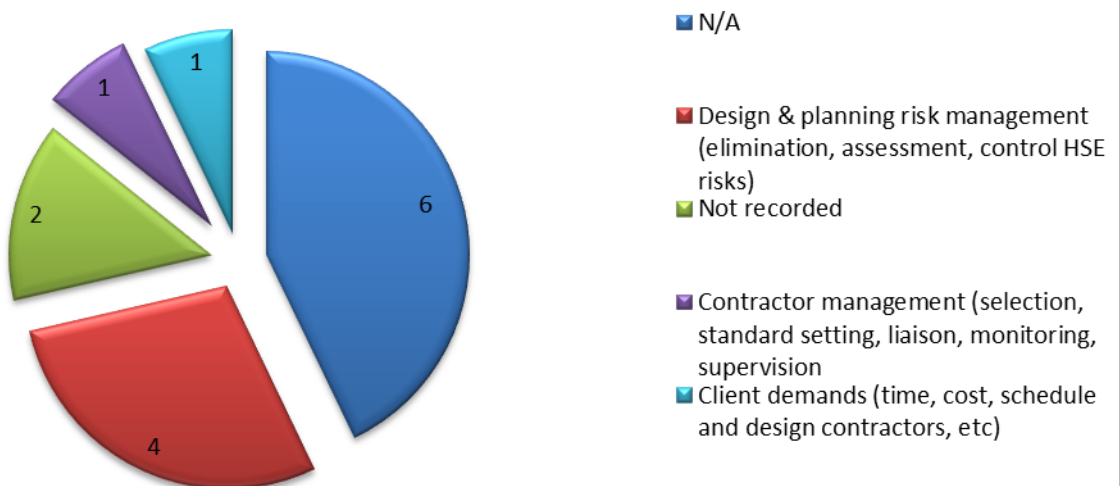
Personal Factors Q4 2019



Job Factors Q4 2019



Organisational Factors Q4 2019



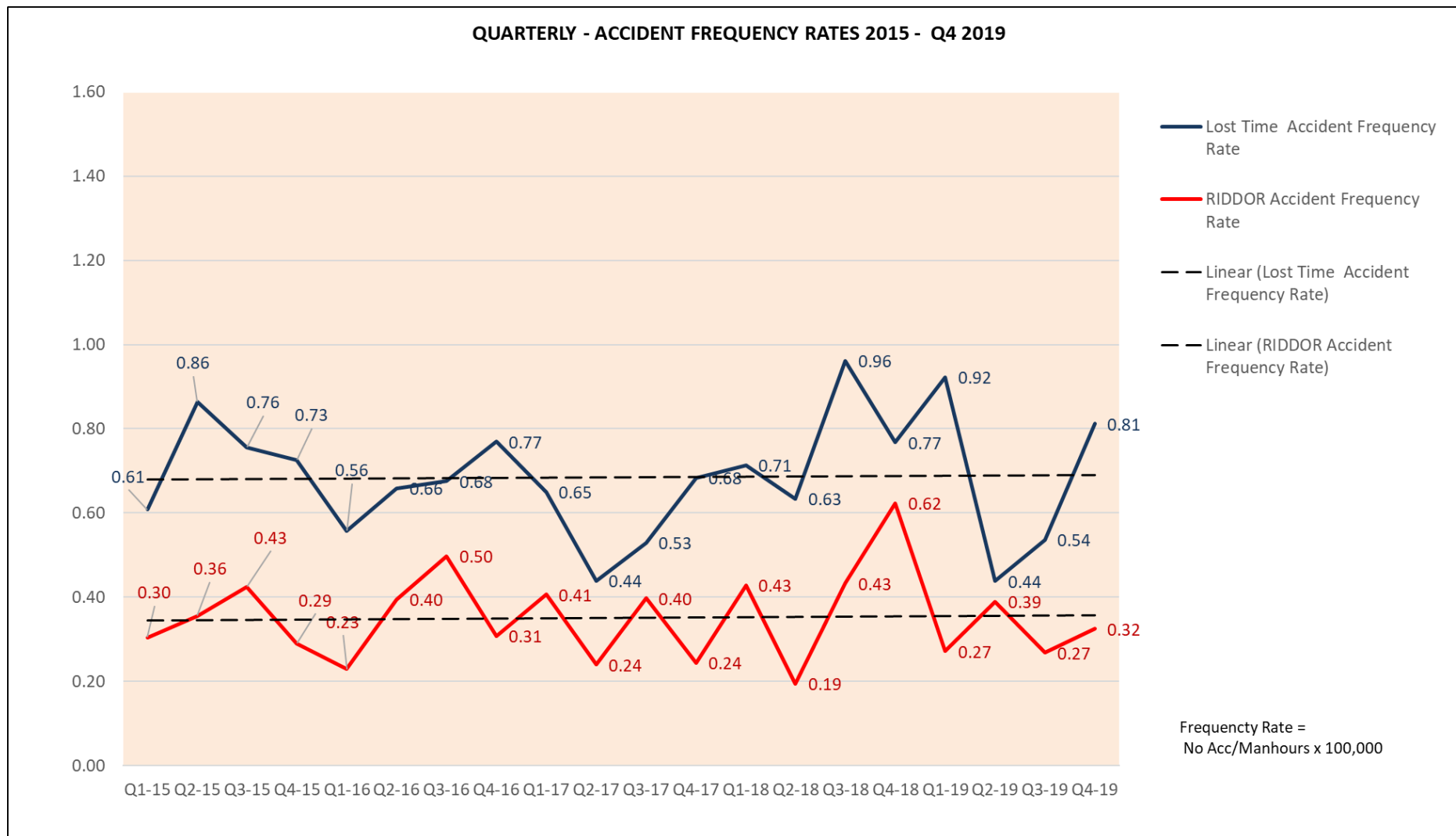
Quarter 4 Environmental Charts

Due to the small data set for Environmental incidents, no charts have been produced for this quarter.

Summary

5 Minor incidents recorded of which all were shown as spills of oil. Four were from Rotary sites and one from a driven site. Full details can be found in the Environmental section of this report.

AFR CHART



Q4 Service Strikes

Approx. Date	Electricity	Gas	Water	Other (please specify)	Was a Permit to Work in place?	Details
13/12/2019			x		Yes	Pitched 4m section on pile position 98, struck water main at approx. 1.0m. Client informed, water supply terminated. Water main was not identified on clients or our CAT scan. Main to be diverted, trial pits to be carried out to ascertain what piles are affected.

Date of Incident	Time of day	Closest Town	County	Environment	Location Type	Asset Damaged	Asset Type	Had the Asset been detected (Y/N)	Service interruption (Y/N)	Severity of Strike	Cause of Damage - Planning	Cause of Damage - Execution	Equipment used	Nature of Works	Excavator Group	Survey Level	Lessons Learnt / remedial Actions Taken
24/04/19	15:00	Birmingham	West Midalnds	Inner City	Commercial Land	Water	Branch / Service	N	N	Low	Inadequate survey	Insufficient survey practices (use of locating equipment)	Drilling/Moling/Piling	Planned	Sub Contractor	B - Detection	B - Detection
23/05/19	14:13	Welwyn Garden city	Hertforshire	Town Centre	Commercial Land	Sewer/Drainage	Branch / Service	N	N	Low	Inaccuracy of plans	Service markup not maintained	Drilling/Moling/Piling	Planned		D - Desk Top	A - Verification
13/11/19	10:30	Oxford	Oxfordshire	Town Centre	Footpath	Sewer/Drainage	Branch / Service	N	N	Low	Inadequate survey	Service markup not maintained	Drilling/Moling/Piling	Planned		D - Desk Top	A - Verification

Q4 Accident Summary

ref	Accident Severity / Category	Date of accident	Age	N° years experience	Shift start time (24 Hr)	Time of accident (24 Hr)	Place of Accident	Foundation Site Activity	Function / Trade (at time of accident)	Activity of IP (at time of accident)	Body part injured	Type of Injury	Outline / Description	Immediate Cause	Personal Factors	Job Factors	Organisational Factors	Remedial Action Taken
2019/266	1-7 day LTA	12/12/2019	19 - 30	>3 years	07:00	10:00	Site	Driven site	General Piling Operative	Manual Handling - handling construction materials	Leg	Sprain / Strain	IP aggravated an existing football injury, spraining his left knee whilst carrying packers to the rig. IP walked on soft ground and left leg went into hole 500mm deep	Slip/Trip	Perception of risk (unaware, under estimate, macho)	Maintenance of safe work environment (noise, layout, interfaces, atmosphere, etc)	Design & planning risk management (elimination, assessment, control HSE risks)	IP was off work for 5 days
2019/267	1-7 day LTA	18/12/2019	51 - 60	>3 years	07:00	09:00	Site	Rotary site	Fitter / Elec / Welder	Manual Handling - other manual handling	Chest	Sprain / Strain	IP was preparing a beam for welding and over stretched causing pain in his chest. Had 1 day lost time due to a pulled muscle in his chest	Handling, Lifting or Carrying	Distraction (by colleagues , others, personal issues)	Task planning (compiles with RA and systems of work, adequate resources, buy in, communication s, etc)	Client demands (time, cost, schedule and design contractors, etc)	IP was off for 1 day
2019/268	Major (Specified) Injury	20/03/2019	31 - 40	>3 years	07:30	07:45	Site	CFA/CSP site	General Piling Operative	Banking a crane or rig	Ankle / Foot	Fracture	Whilst banking an attendant excavator working adjacent to the piling rig, IP sustained a fracture to his left heel when the piling rig tracked over his foot.	Contact with Plant / Machinery	Perception of risk (unaware, under estimate, macho)	Risk assessment and safe method of work (done, adequate, appropriate, checked, etc)	Design & planning risk management (elimination, assessment, control HSE risks)	
2019/269	1-7 day LTA	26/02/2019	19 - 30	< 1 year	07:30	11:00	site	Not identified	General Piling Operative	Using Handtools	Ankle / Foot	Laceration	IP was working in an excavation cutting a 350mm dia pile (900mm long) when this fell onto his ankle.	Moving/Falling Objects	Competence (skill, knowledge , experience)	Risk assessment and safe method of work (done, adequate, appropriate, checked, etc)	Design & planning risk management (elimination, assessment, control HSE risks)	
2019/270	1-7 day LTA	29/01/2019	31 - 40	1-3 years	07:30	10:30	site	Grouting site	General Piling Operative	Manual Handling - handling construction materials	Shoulder	Sprain / Strain	IP was loading a drill rod onto a drilling rig, while carrying out this task his foot got stuck in mud. He lost his balance , tried to hold onto gate but fell and injured left elbow	Handling, Lifting or Carrying	Competence (skill, knowledge , experience)	Maintenance of safe work environment (noise, layout, interfaces, atmosphere, etc)	Design & planning risk management (elimination, assessment, control HSE risks)	
2019/272	1-7 day LTA	14/10/2019	31 - 40	>3 years	07:30	14:30	Site	Driven site	General Piling Operative	Walking	Ankle / Foot	Sprain / Strain	The IP had signed the drivers delivery note. As he walked alongside the vehicle the IP slipped on the piling platform. IP has injured their left ankle.	Slip/Trip	Distraction (by colleagues , others, personal issues)	Maintenance of safe work environment (noise, layout, interfaces, atmosphere, etc)	Contractor management (selection, standard setting, liaison, monitoring, supervision	Driven projects to conduct the October initiative, Slip, Trips and Falls Toolbox Talk - Safe Site. Incident to be discussed in the Zero Harm workstream for Slips, Trips and Falls.

FEDERATION OF PILING SPECIALISTS HSE DATA & STATISTICS

ref	Accident Severity / Category	Date of accident	Age	N° years experience	Shift start time (24 Hr)	Time of accident (24 Hr)	Place of Accident	Foundation Site Activity	Function / Trade (at time of accident)	Activity of IP (at time of accident)	Body part injured	Type of Injury	Outline / Description	Immediate Cause	Personal Factors	Job Factors	Organisational Factors	Remedial Action Taken
2019/273	Fatality	16/10/2019	31 - 40	>3 years		03:00	Factory	Factory Premises	Workshop /Factory Operative	Lifting Operations			An incident involving a lifting operation resulting in Factory operative suffering fatal injuries.					Still under investigation and legally privileged
2019/274	+7 Day LTA (RIDDOR)	09/12/2019	41 - 50	>3 years	07:30	15:00	Site	Diaphragm / Barrette site	General Piling Operative	Manual Handling - handling construction materials	Back	Sprain / Strain	"IP" reported a back strain whilst lifting a 25kg bag of Flopam AN910 flocculant powder.	Handling, Lifting or Carrying		Task planning (compiles with RA and systems of work, adequate resources, buy in, communications, etc)	N/A	TMP Brief was sent out to all suppliers.
2019/278	1-7 day LTA	11/11/2019	31 - 40	>3 years	08:00	14:40	Site	CFA/CSP site	Manager/Supervisor	Manual Handling - other manual handling	Ankle / Foot	Sprain / Strain	IP was standing on a roll of Geotextile talking to other operative over fence, foot then slipped and rolled ankle.	Slip/Trip	Perception of risk (unaware, underestimate, macho)			
2019/279	1-7 day LTA	17/10/2019	19 - 30	< 1 year	08:00	13:00	Site	CFA/CSP site	General Piling Operative	Manual Handling - handling construction materials	Finger / Thumb	Laceration	Trapped between 2 pieces of rebar	Handling, Lifting or Carrying	Competence (skill, knowledge, experience)	Risk assessment and safe method of work (done, adequate, appropriate, checked, etc)	N/A	Untidy site, meant rebar was inaccessible. Instead of clearing debris above rebar, operative just lifted rebar from its position
2019/280	1-7 day LTA	15/10/2019	19 - 30	< 1 year	05:30	13:30	Factory	Factory Premises	Workshop /Factory Operative	Mechanical handling	Torso	Other	The IP was using the gantry crane to place piles from the bogey into stock. He had positioned himself in between 2 stacks of piles (stood on the stack of piles) with the crane remote in one hand. Whilst positioning the piles in place he pressed the wrong button on the remote control causing the piles to come towards him and resulted in him being pinned between the piles on the load and the piles in stock	Moving/Falling Objects	Violation (deliberate rule breaking)	Compliance	N/A	Failure to work in accordance with Risk Assessments ; Failure to work in accordance with instructions from a supervisor; Lapse of attention and cutting corners
2019/281	Dangerous Occurrence	08/10/2019	51 - 60	>3 years	07:30	14:00	Site	CFA/CSP site	Mixer / Pump man	Operating ancillary plant (jet wash, compressor etc.)	Eye	Dangerous Occurrence	Whilst dealing with a Tip Blockage, under pressure concrete spurted from the join of the Auger cutting head/Auger and hit a R&A operative in the eye.	Exposed to Harmful Substance	N/A	N/A	N/A	R&A Risk Assessment 16: Auger Tip Blockage in place but there are situations where this is not sufficient and the tip blockage can only be removed by stripping the Auger. If the

ref	Accident Severity / Category	Date of accident	Age	N° years experience	Shift start time (24 Hr)	Time of accident (24 Hr)	Place of Accident	Foundation Site Activity	Function / Trade (at time of accident)	Activity of IP (at time of accident)	Body part injured	Type of Injury	Outline / Description	Immediate Cause	Personal Factors	Job Factors	Organisational Factors	Remedial Action Taken
																		blockage cannot be removed manually, then RA 16 is to be updated to state that if the Auger must be split to clear the blockage BSEN 166B goggles should be worn by all involved. RAMs to be amended to reflect the changes, RAMs to be re-briefed to all operatives .
2019/282	+7 Day LTA (RIDDOR)	04/12/2019	41 - 50	>3 years	08:00	17:00	Site	Not identified	General Piling Operative	Walking	Ankle / Foot	Sprain / Strain	IP rolled ankle on uneven surface resulting in ligament damage	Slip/Trip	Error (lapse, slip, mistake)	Maintenance of safe work environment (noise, layout, interfaces, atmosphere, etc)	N/A	Site closed, incident investigated, safety briefing to all staff
2019/283	+7 Day LTA (RIDDOR)	11/12/2019	51 - 60	>3 years	08:00	17:00	Site	Not identified	General Piling Operative	Other	Finger / Thumb	Fracture	IP cleaning stone from locking mechanism for tipper tailgate was trapped as securing clamps were operated by truck driver	Contact with Plant / Machinery	Error (lapse, slip, mistake)	N/A	N/A	Site closed, incident investigated, safety briefing to all staff
2019/285	+7 Day LTA (RIDDOR)	13/12/2019	16 -18	< 1 year	08:00	17:00	Workshop	Off site	Workshop /Factory Operative	Using Handtools	Finger / Thumb	Fracture	IP trapped hand between drill and workpiece	Trapped against something	Error (lapse, slip, mistake)	Compliance	N/A	investigation completed, activity reviewed with IP, safety briefing to all staff

Q4 - High Potential Incidents

ref	Accident Severity / Category	Date of accident (dd/mm/yy)	Age	N° years experience	Shift start time (24 Hr)	Time of accident (24 Hr)	Place of Accident	Foundation Site Activity	Function / Trade (at time of accident)	Activity of IP (at time of accident)	Body part injured	Type of Injury	Outline / Description	Immediate Cause	Personal Factors
2019/271	High Potential Incident	08/10/2019			07:30	15:00	Site	Rotary site					A London Concrete truck driver arrived on site and reversed up to a pile position without a banksman. The chute struck an operative on the back of his hard hat as he was setting up the tremie pipe and hopper. The driver stopped to deposit a concrete sample and then returned to his cab having left the concrete chute down. The driver then proceeded to the piling area and and reversed towards the pile without a banksman. At this point a concreting operative that was standing beside the pile casing and was struck on the head by the chute. The operative was not injured	Contact with Vehicle	Perception of risk (unaware, under estimate, macho)
2019/275	High Potential Incident	15/10/2019	41 - 50	>3 years	08:00	09:30	Site	CFA/CSP site	Manager/Supervisor	Lifting Operations	Shoulder	Other	IP was glanced by a reversing street sweeper while banking a crane.	ontact with Plant / Machine	Distraction (by colleagues, others, personal issues)
2019/276	High Potential Incident	23/10/2019	41 - 50	>3 years	08:00	15:00	Site	CFA/CSP site	Other Sub-Contractor	Lifting Operations	Shoulder	Bruising	Operatives working on neighbouring site lifted something above our boundary. A small piece of steel fell off the lift and hit engineer.	Moving/Falling Objects	Perception of risk (unaware, under estimate, macho)
2019/277	High Potential Incident	26/10/2019	19 - 30	1-3 years	08:00	16:45	Site	CFA/CSP site	Other Sub-Contractor	Walking	Leg	Sprain / Strain	IP walking across site stepped into 200mm hole that had occurred from backfill consolidating at top of pile. No task lighting had been put in place so the IP had not seen the hole.	Slip/Trip	Perception of risk (unaware, under estimate, macho)
2019/284	High Potential Incident	02/10/2019	41 - 50	>3 years	08:00	17:00	Site	Grouting site	General Piling Operative	Other	Head	Other	struck on the back of their head	Moving/Falling Objects	N/A
2019/286	High Potential Incident	29/10/2019		>3 years	08:00	18:30	Site	CFA/CSP site	General Piling Operative	Other			The site team thinking they had cleared a blockage blew out without using a chamber,		Rushing work (programme, catch up, bonus)

Q4 Environmental Summary

Incident Severity / Category	Date of incident (dd/mm/yy)	Time of accident (24 Hr)	Place of Incident	Foundation Site Activity	Type of incident	Cause of incident - (training/ procedures/ complaint etc)	Outline / Description	Remidial Action
Minor Incident	18/11/2019	10:00	Site	Rotary site	Spill	Other	Polymer splashed onto surrounding ground when pump switched on.	Work was being carried to construct pile number 20 using polymer, during the process the pump controlling the flow of polymer into the pile was switched on accidentally, without the pile being prepared for the polymer. The pump remained on for a number of seconds and was then switched off. A small amount of polymer splashed off the temporary casing and onto the surrounding ground.
Minor Incident	12/12/2019	09:30	Site	Driven site	Spill	Other	While drilling a female pile in LDA mode a small amount of slurry made its way into the site hoarding and went into the adjacent piling area.	Waterproof bottom of site hoarding with expanding foam from outside and visqueen from inside. Fixing of polythene sheeting to scaffold directly adjacent to high level piling area.
Minor Incident	06/11/2019	16:00	Site	Rotary site	Spill	Machine breakdown (inc Hose bursts)	During the boring of pile F077 a hydraulic hose failed on the top of the KDK (rotary table) of a BG30 rig. This resulted in a hydraulic oil discharging onto and over a facade of adjacent building (Nova North). A quantity of the oil passed over the top of a wall into a public garden area of an adjacent bar (Flight Club), landing on the roof of a shed-type outbuilding. Subsequent checks made by KBP site management confirmed nobody was in the garden at the time of the event. At the time of the hose failure, pile F073 was partly concreted, with the rig now positioned over and constructing pile F077. It's understood the rig's auger had already dug to a depth of 14m, subsequent to spinning off and repositioning the auger back down within the bore in preparation for another dig outside casing when the Kelly bar abruptly stopped at a depth 9m from top of casing. The rig operator believed this was due to sands and gravels haven fallen into the pile and that the auger was then on sitting on top of the sands. The rig operator proceeded to lift the rotary table up to assist drilling when the main rope then became slack, whipping around where it came into contact with a hydraulic hose.	The Rig Banksman immediately signalled the rig operator to stop and power down. KBP Site Management visited the bar to establish if anyone had been injured and the extent of the oil spill. Spill kits deployed to clean up the hydraulic spill. The façade was cleaned down with a pressure washer accessed via a MEWP. Site Supervisor arranged for KBP fitter to attend site and repair/replace the hose/fitting
Minor Incident	28/11/2019	10:45	Site	Rotary site	Spill	Machine breakdown (inc Hose bursts)	LB36 carrying out rotary piling when a hydraulic hose burst. A small amount of hydraulic oil dropped onto the platform and was quickly cleared using spill kits.	
Minor Incident	11/12/2019	10:30	Site	Rotary site	Spill	Machine breakdown (inc Hose bursts)	Heavy Crawleer crane was tracking across site when it was noted it was trailing oil from its left track. Pirtek were called and the small amount of oil was cleared using spill equipment.	