RTPI
mediation of space · making of place

mpa
essential materials
sustainable solutions

envireau
WATER
Pragmatic.Expert.Solutions

Abstraction Licensing
Project Blocker or Project Maker?

- What does a licence look like
- Licensing & technical processes
- Who should be doing it
- Top Tips

A well renowned collaborative team of expert water scientists and engineers

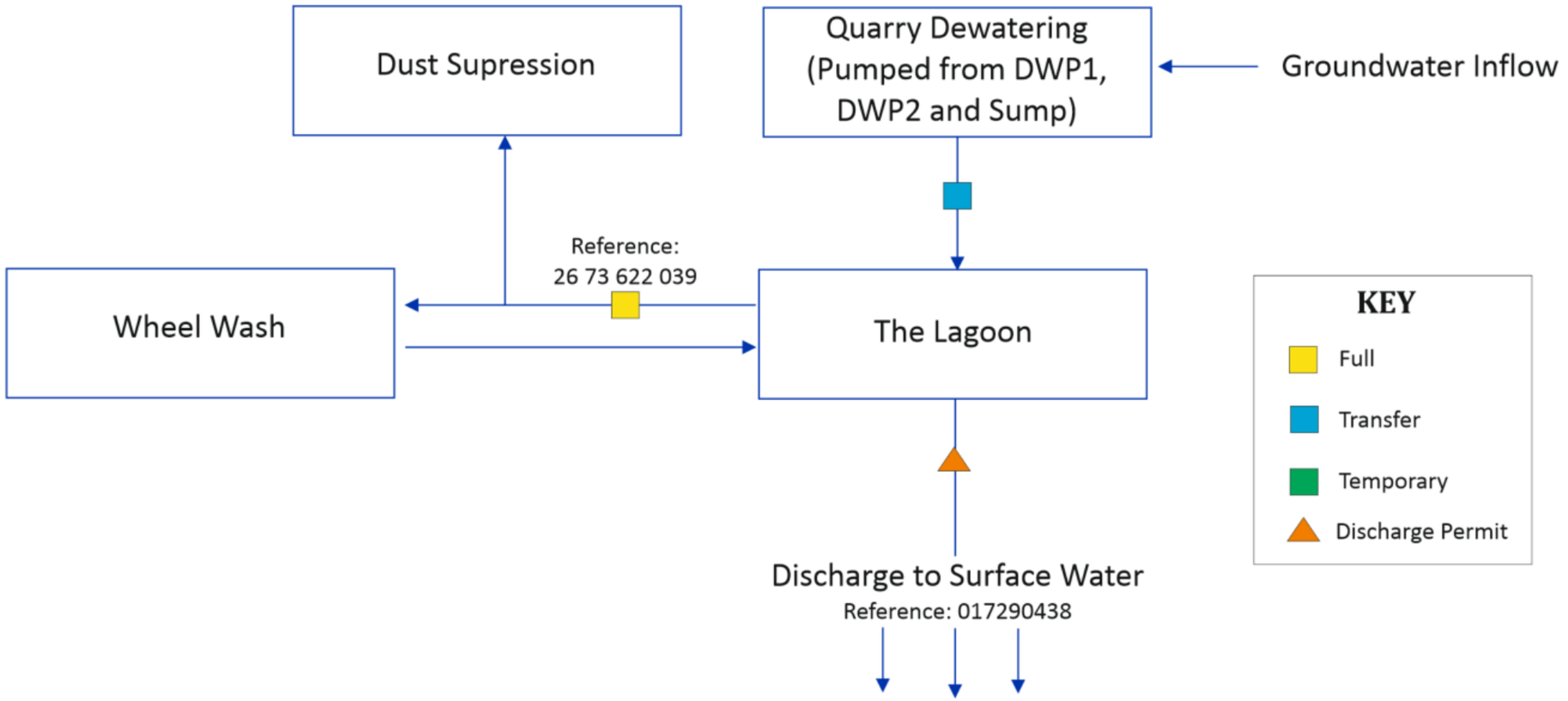
What

Types of Licence (Simplified)

- Transfer
  - "Dewatering"
  - "Moving from one annoying place to another less annoying place in the quarry"
  - "Letting me get to my mineral"
  - Large volumes

- Full
  - "I need to use this water"
  - Typically : dust suppression, wheel wash, mineral washing, concrete, blocks …
  - May already have them
  - Generally smaller volumes (except mineral washing)

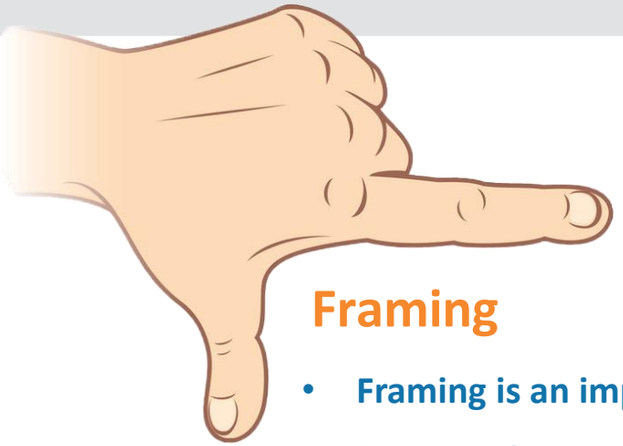
What does this mean in real life?



PROCESS

Our Audience

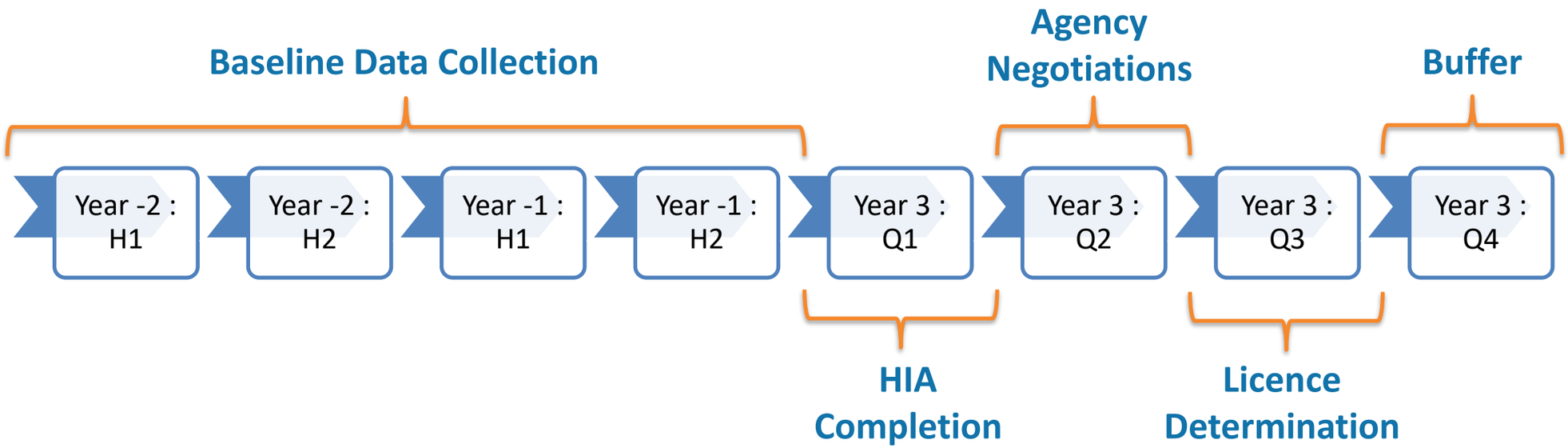
- Prior to 2018 – The MPA 1st and the EA / NRW 2nd
- Post 2018 – The EA / NRW
- The MPA are planners, they think in terms of balance
- The EA/NRW are scientists, they think in terms of data, analysis and ‘facts’



Framing

- Framing is an important topic since it can have a big influence.
- Framing theory suggests that how something is presented to the audience influences the choices people make about how to process that information.
- Identify the audience and place the information in a way that is understandable and familiar.
- The regulatory and legal frame is a good start – WFD assessment, ALS\CAMS, Habitats\Birds Directive, 2006 Regs (The Water Resources (Abstraction and Impounding) Regulations).
- Remember, the Environment Agency and Natural Resources Wales are not fully integrated, equally expert, experienced or knowledgeable organisations.
- Don’t assume that who you are talking to is the right person to be helping you.
- Find the right person, develop the relationship and work together.

Keep an eye on the timeline



When do you need to Apply?

- Any increase over historic volume quantities
- New planning permissions, including site extensions
- Changes to onsite arrangements, abstraction points

WHO

Technical Elements

- Baseline conditions
- WFD classifications
- Licensed abstractors
- Unlicensed abstractors (permitted rights)
- GWDTEs & other receptors
- HIA

Planning Application

- Field verification
- Scientific analysis
- Evidence building
- Quantification

Akin to SAC / SSSI risk assessment

- How much abstraction
- From where
- When

Operational Engineering

How much effort?

Criteria and classes	Score	Weight	Swarkestone
Aquifer characteristics			
Karst	4		
Principal (major) aquifer	3	2	6
Secondary (minor) aquifer	2		
Unproductive strata	1		
Water dependent conservation site / other abstractors			
Habitats Directive (Natura 2000) sites / public water supply	4		
	3		
Sites of Special Scientific Interest / nearby large private water supply	2	4	16
	1		
Other designations (including National Parks and AONB) / distant Private Water Supplies			
None			
Water resource availability status			
Over abstracted	4		
Over licensed	3	1	4
No water available	2		
Water available	1		
Dewatering quantity			
Very Large (> 5,000 m^3/d)	4		
Large (2,500 to 5,000 m^3/d)	3	3	12
Medium (1,000 to 2,500 m^3/d)	2		
Low (< 1,000 m^3/d)	1		
			38

Level of effort likely to be required	Total weighted score
Tier 3	31 to 40
Tier 2	21 to 30
Tier 1	10 to 20

Skills

- Process driven system
- Multi-disciplinary
- Long lead in times
- Regulator negotiation

Planning Orientated

- Engineering
- Ops' planning
- Practical implementation

Operations Orientated

- New regulatory knowledge
- New stakeholders to engage
- Planning – Operations interaction

Missing skills

TOP TIPS

Technical Framing

• Consumptive	• Water used up / lost
• Non-consumptive	• No net loss
• Source of supply	• Where is the water coming from
• Water bodies (WFD)	• Understand this
• GW to SW	• Deterioration
• Recharge or discharge	• Maintain GW status
• How much water	• Hydrogeology / hydrology
• Where will we pump it from	• Quarry plan & engineering
• Where will we pump it to	• Quarry plan and engineering
• Connections	• GW, SW, rain, runoff (hydro')
• Lining	• Ponds and pits (QP&E)
• Pumped and gravity discharge	• Quarry plan and engineering

Presentation

- ☑ Accurate
- ☑ Brief
- ☑ Clear
- ☑ Keep details to an appendix
- ☑ Keep records in a box

If they want more, they'll ask for it – but make sure it's available

#ItsAllAboutBalance

#EverthingIsBuiltFromGeology

Keep It Simple Stupid

We Are Here

Deborah Thomas

Email:

Deborahthomas@envireauwater.co.uk

Contact Number:

01332 871 883

@Deborah Thomas

James Dodds

Email:

Jamesdodds@envireauwater.co.uk

Contact Number:

07711 920553

@James Dodds