



British Nuclear Group

Intelligent nuclear clean-up

Strategy for Continued Low Level Waste Operations

Bulk Material Handling and Transport

Stakeholder Discussion
December 2005



David W Anderson

Presentation Agenda

Bulk Material Handling

and External Transport

- On Site / interface / Off Site Scope
- Opportunities and Threats
- Key Assumptions
- Current Options and Way Forward

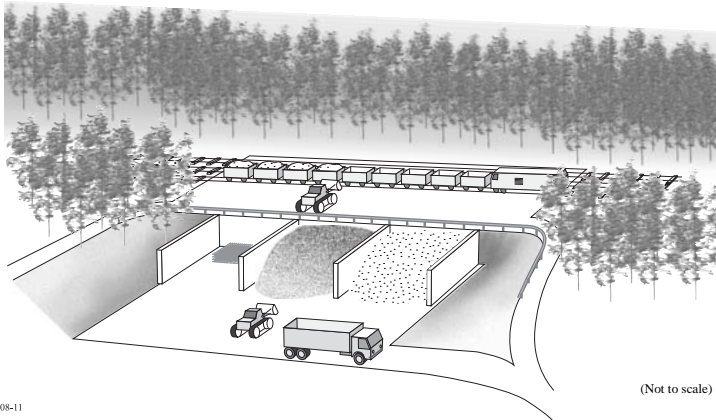


Presentation Agenda (Cont'd)

Bulk Material Handling

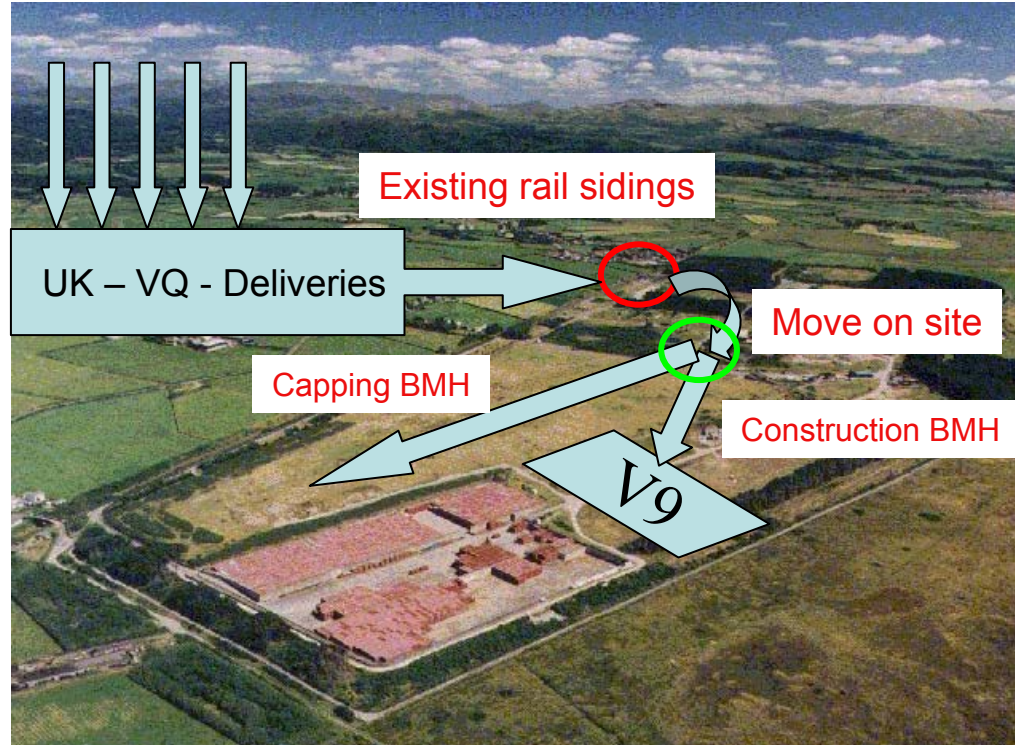
and External Transport

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Bulk Material Handling and External Transport

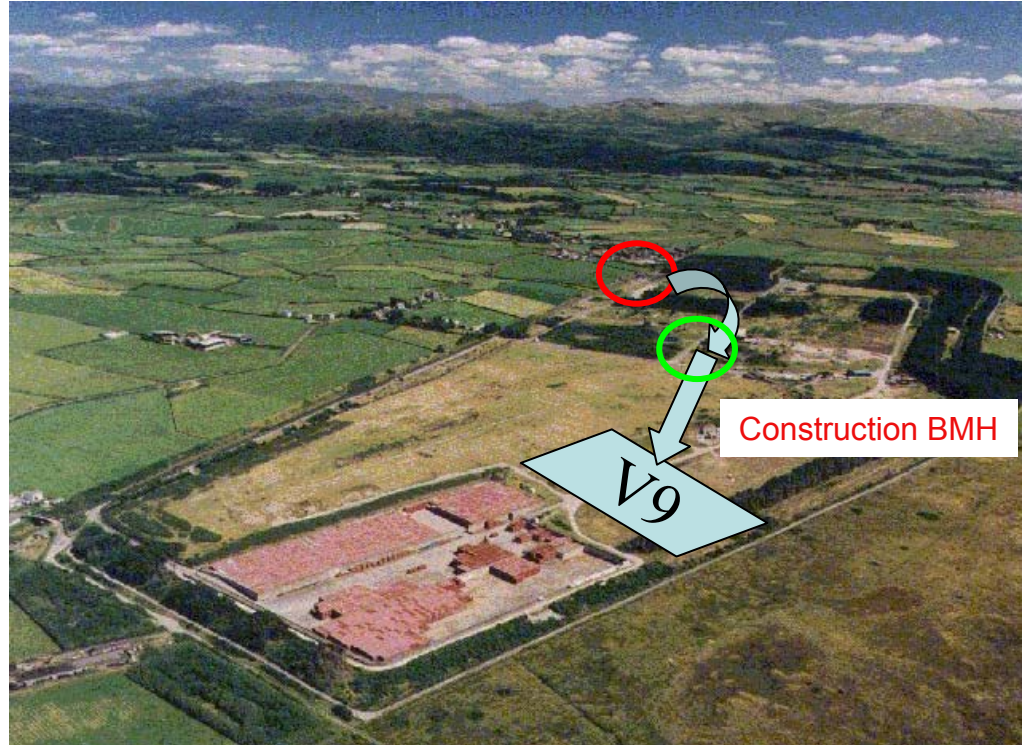
- On Site - **BMH**
 - Small Buffer
 - Construction Phase
 - Capping Phase
- Interface
 - Railhead Extension
 - Site Infrastructure Modifications
- Off Site Scope - **Ext. Transport**
 - UK Logistics



- Contract Strategy? – Accountability of Materials Logistics to be with the New Vault 'Constructor' and then the 'Capping' Contractor

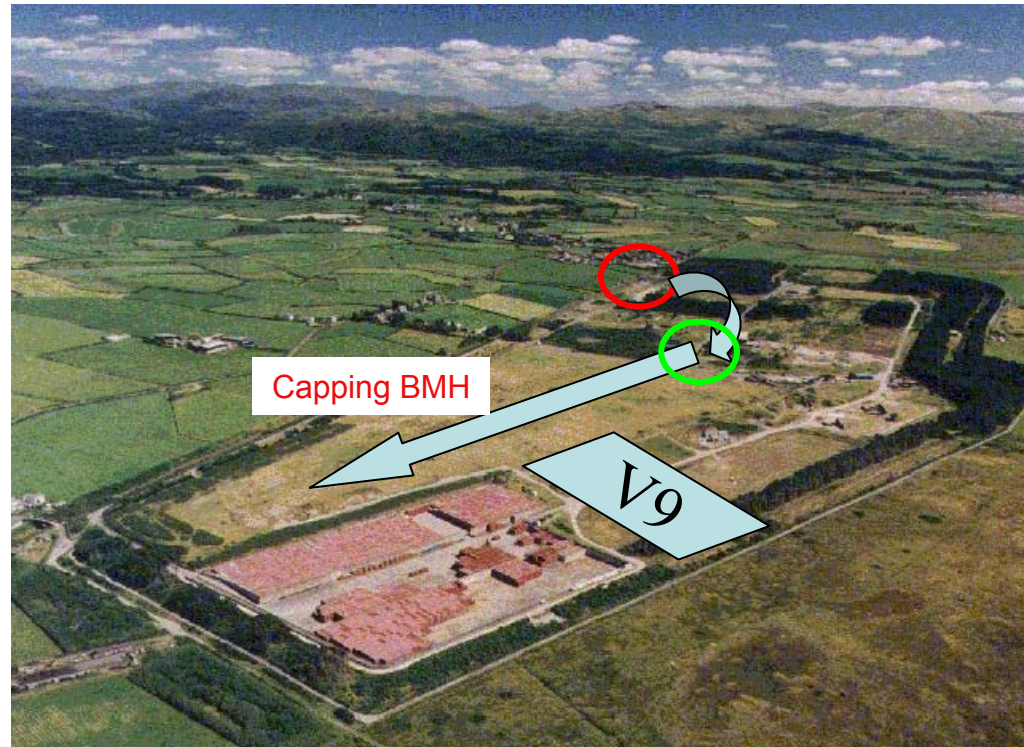
Bulk Material Handling and External Transport

- Some Key Quantities m³
- V9 Construction
 - Vault Base 5,600
 - Earthworks 120,500
 - Base Liner
 - 14,000 clay
 - 7,000 aggregate
 - 28,000 geotex cush
 - 28,000 membranes
 - 14,000 bentofix
- Capping (all vaults)



Bulk Material Handling and External Transport

- Some Key Quantities m³
- Capping
- *(all vaults up to 2067)*
 - Topsoil 171,000
 - Moisture Ret Layer 171,000
 - Filter sand 91,000
 - Filter gravel 91,000
 - Boulders 291,000
 - Aggregate 171,000
 - Bentonite 171,000
 - Gas Layer 291,000



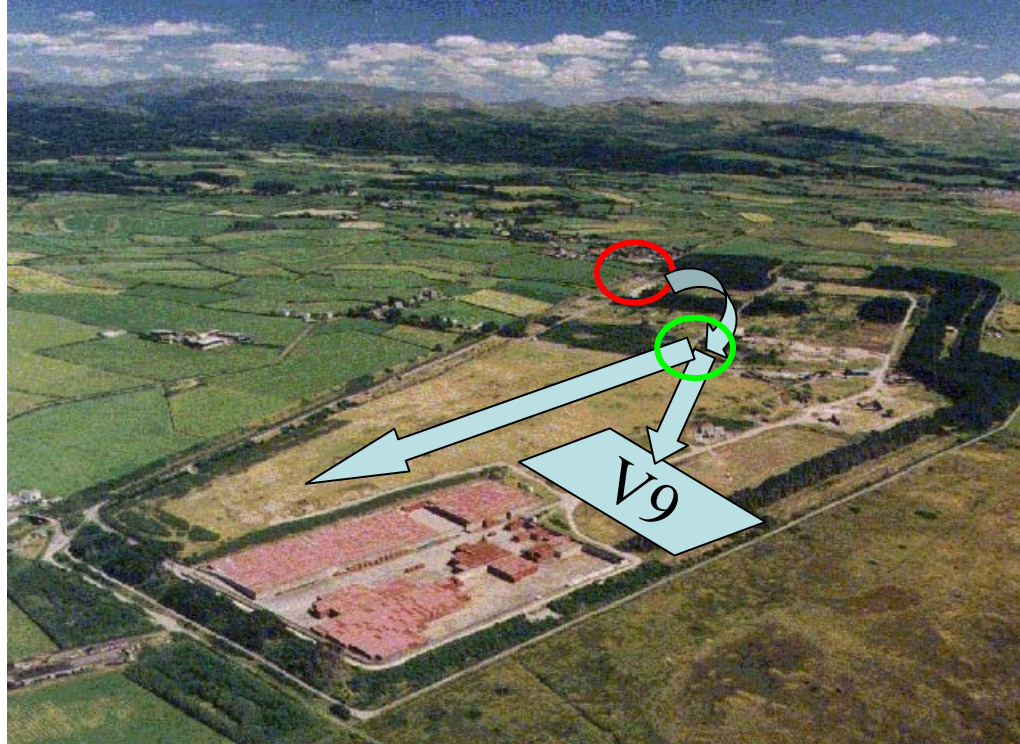
Bulk Material Handling and External Transport

- Opportunities

- Decouple Enabling Works
- Accelerate Enabling Works
- Railhead Extension

- Threats

- Optioneering Process gives
 - Material sourcing unavail
 - Not predominantly rail
 - Not site vehicles (Construct)
 - Not chute / conveyor (Cap)
 - No CBA for Rail Extension
- As before
 - DEFRA and Waste Policies
 - EA Comments on PCSC

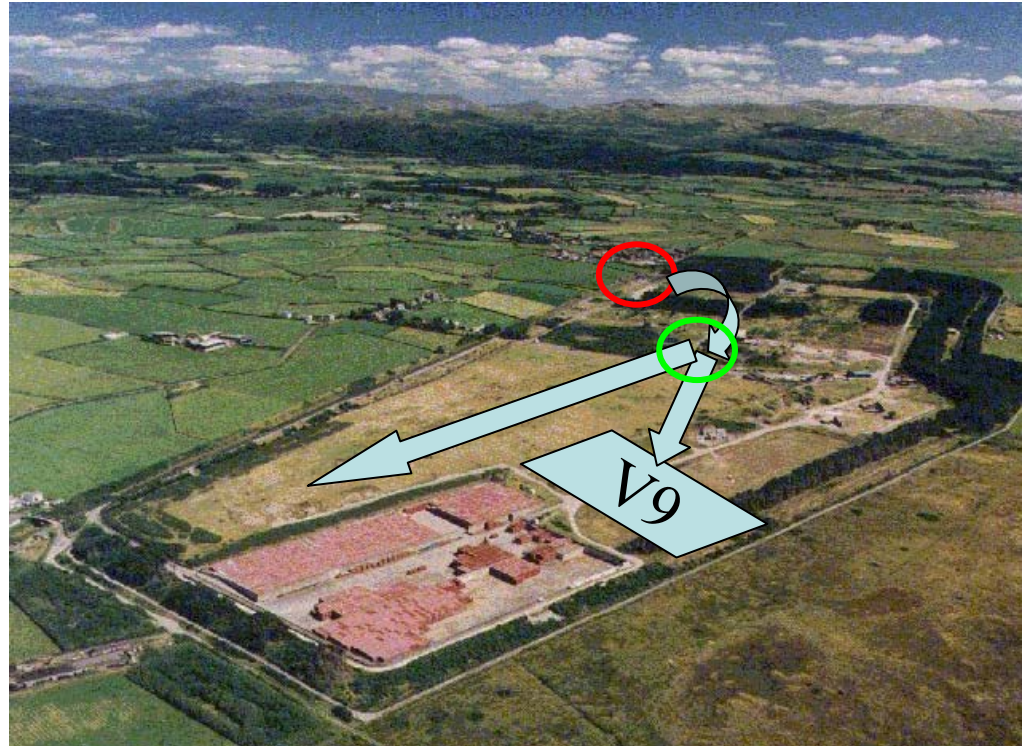


Bulk Material Handling and External Transport

Bulk Material Handling and External Transport

Key Assumptions

- Rail is the Stakeholders preferred option
- There will be some road deliveries
 - Low volume, special loads
 - Enabling site works
- Railhead extension is accepted by NDA
- BMH will have small buffer
- Optioneering Process will be followed
 - with appropriate weightings
 - Stakeholders advised
- All options require appropriate CBA
- Off Site Virtual Quarry not required



Bulk Material Handling and External Transport

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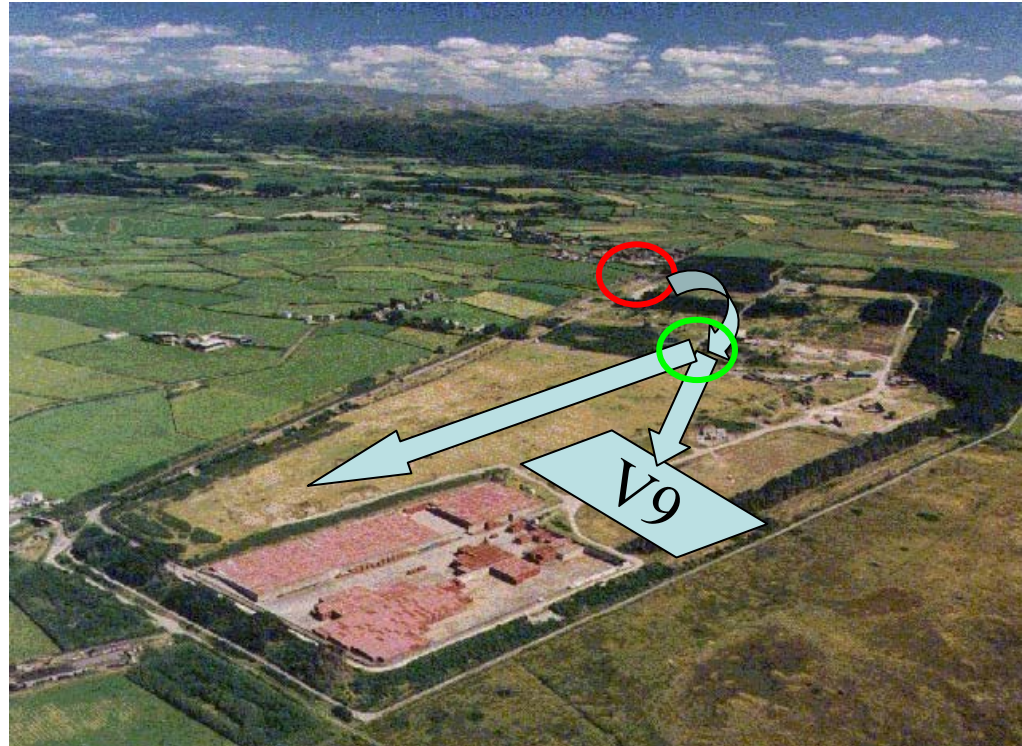
• Current Options and Way Forward

- Conclude Optioneering and Concepts
- Conclude Characterisation
- Strive to realise the transport opportunities
 - Make them the baseline
 - Incl. Decoupling enabling works
 - Incl. Accelerating enabling works
 - Incl. railhead extension
 - Incl site infra. mods

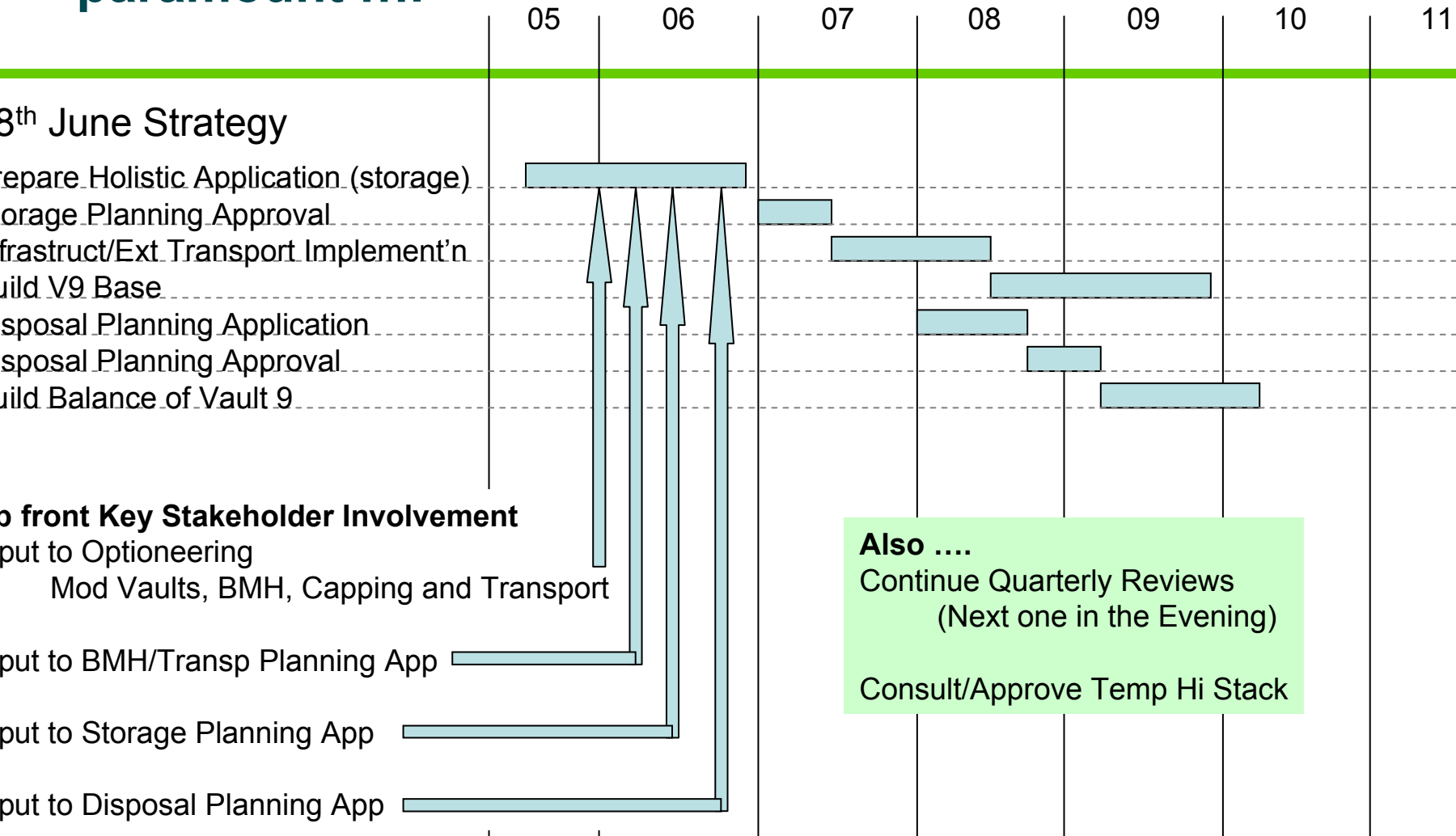
• Others

- Realise the New Vault opportunities
 - Make them the baseline (-18mths)
- Realise Hi Stacking
- Conclude concepts for Contingencies

• Keep communicating – further discussions paramount



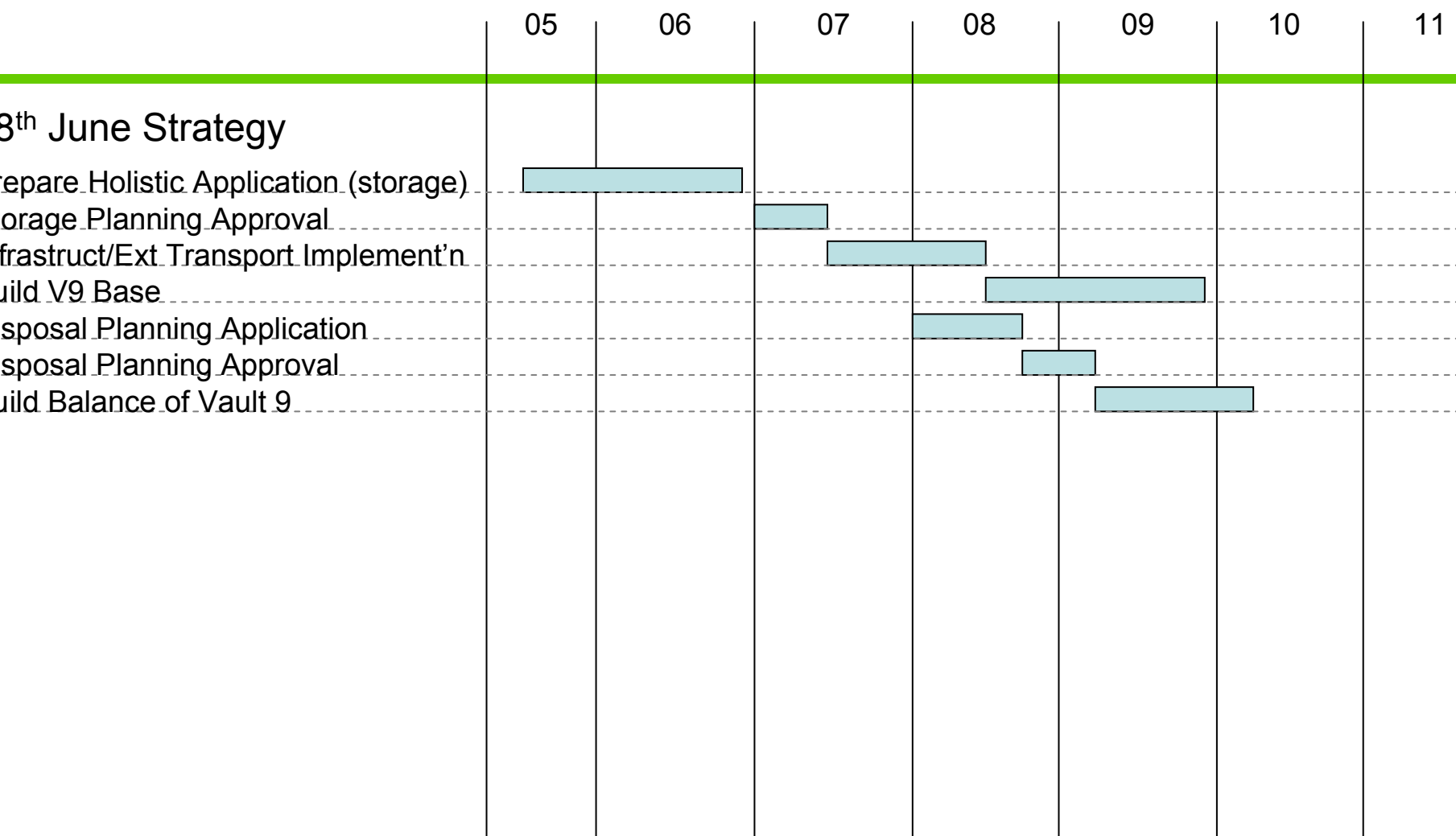
Keep communicating – further discussions paramount





Recap of Jun 28th Stakeholder Meeting – Key Notes

- Risk to the unmitigated continued Operations at LLWR Site
- ‘Holistic’ Planning Application for New Vault
- New Vault 2 Phase Planning Application Strategy
- Challenge the V9 Critical Path
 - Work with CCC to see if V9 Appl. Date Dec 06 can be improved
 - V9 External Transport - Railhead Extension onto site
 - V9 Construction early site Infrastructure Works
 - V9 2 Phase stages of Construction – use it early

High Level Programme



Unconstrained Recommendation – Achieved 28 June 05

- Comment/agree in principle to the new 2 Phase Planning Application Strategy (with new railhead extension) for Vault 9.
- **Achieved** 
- General endorsement sought such that the revised strategy Assumptions can be incorporated into the NTWP project schedule, under change control, and aligned in the Life Cycle Baseline.
- **Achieved** 

Key Progress Since We Last Met

- Lifecycle Baseline Re-aligned
- Modular Vaults Change through local committee
- Temp Hi Stacking Planning Application Submitted
- Opportunities Challenge
 - ☺ Decouple BMH and Railhead Extension and agree minimum planning requirements
 - Site BMH and Railhead Extension Site Work critical path challenge
 - ☺ Decouple V9 Storage Application and agree minimum requirements
 - ☺ V9 Disposal Application minimal requirements agreed