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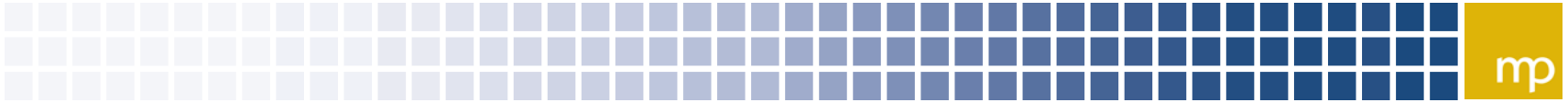
MEBC Visit to AWM's Sideway Site

An Overview of the Remediation Works



AWM's aims

- Advantage West Midlands is working to create a better region in which to invest, work, learn, visit and live.
- AWM invest around £300 million each year into activities that will help transform the West Midlands' economy, focussing on: business, skills, infrastructure and communities.



The Site

- 27.6 Ha, of which the landfill is 2.5 Ha.
 - Landfill is up to 4m deep
 - Former industrial use was as a tip for the Michelin tyre company.
 - Other parts of the site have been used for agriculture and as a sewage works but these do not require remediation for the proposed end use.
-
- Works are being carried out under a planning application and enjoying landfill tax exemption.



Why Remediate?

- To protect groundwater and the Chitlings Brook from contaminants (zinc, boron, cadmium, hydrocarbons & PAH's) originating in the landfill.
- The tip was a fire risk in some circumstances.
- To create developable platform (approx. 650,000sq ft) by backfilling void with site won materials.



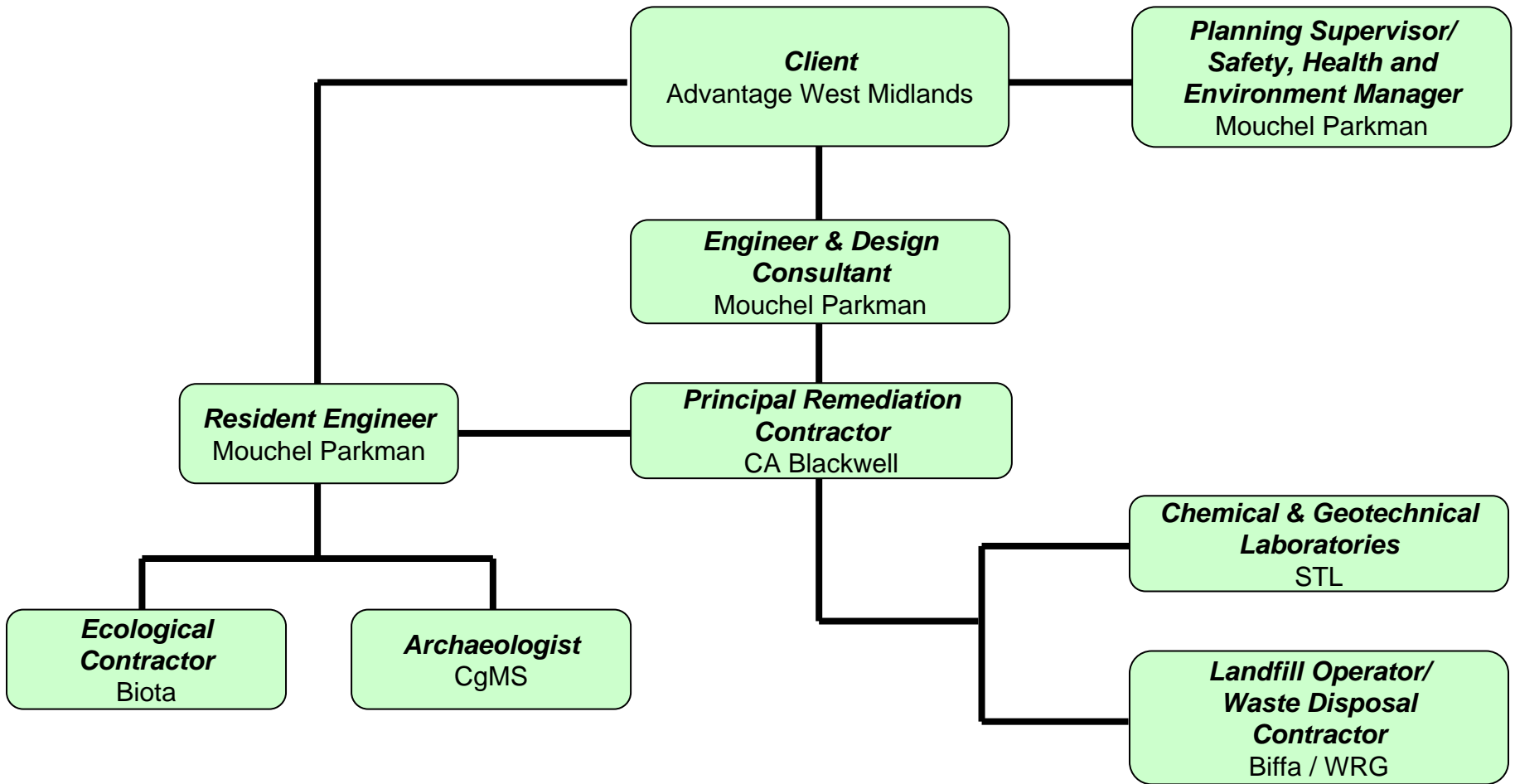
Project Aims

- The excavation and remediation of a historic unlicensed landfill, containing tyres and mixed waste.
- The extraction of soil from adjacent Primrose Hill, for filling the excavated unlicensed landfill site to existing levels.
- The temporary diversion of both the Chitlings Brook and a footpath running through the site.
- The creation of flood compensation areas
- Clearance of GCN breeding pond and creation of 6Ha newt habitat.

- Aims to be achieved in accordance with Zero SHE philosophy, to time (December 2005), and to budget (approx. £3m).



Organogram





Tender Quantities from SI

Disposal

- Hazardous contaminated material - 1,800 tonnes
- Non-hazardous contaminated material – 69,300 tonnes
- Tyres – 3,000 tonnes

Flood Compensation Area

- Create approx. 9,000m³ flood capacity to the south of the development area. Cut used to infill landfill void.

Borrow Area

- Maximum cut of 64,000m³ and use to infill the landfill void



Sustainable Tyre Disposal Options

- separate, shred, clean and dispose for energy recovery (e.g., cement kiln fuel)
- separate, shred, clean, remove wire & fabric, crumbed and use as:-
 - paddock material
 - carpet underlay
 - artificial surfaces at sports venues
- cleaned, compressed and baled whole for use at sea & river defences
- landfill drainage layer – requires landfill to be at the appropriate stage
- pyrolysis – condition of tyres not appropriate

- none of the six short listed tenderers found an economically advantageous and sustainable use for the tyres.



Landfilling Tyres?

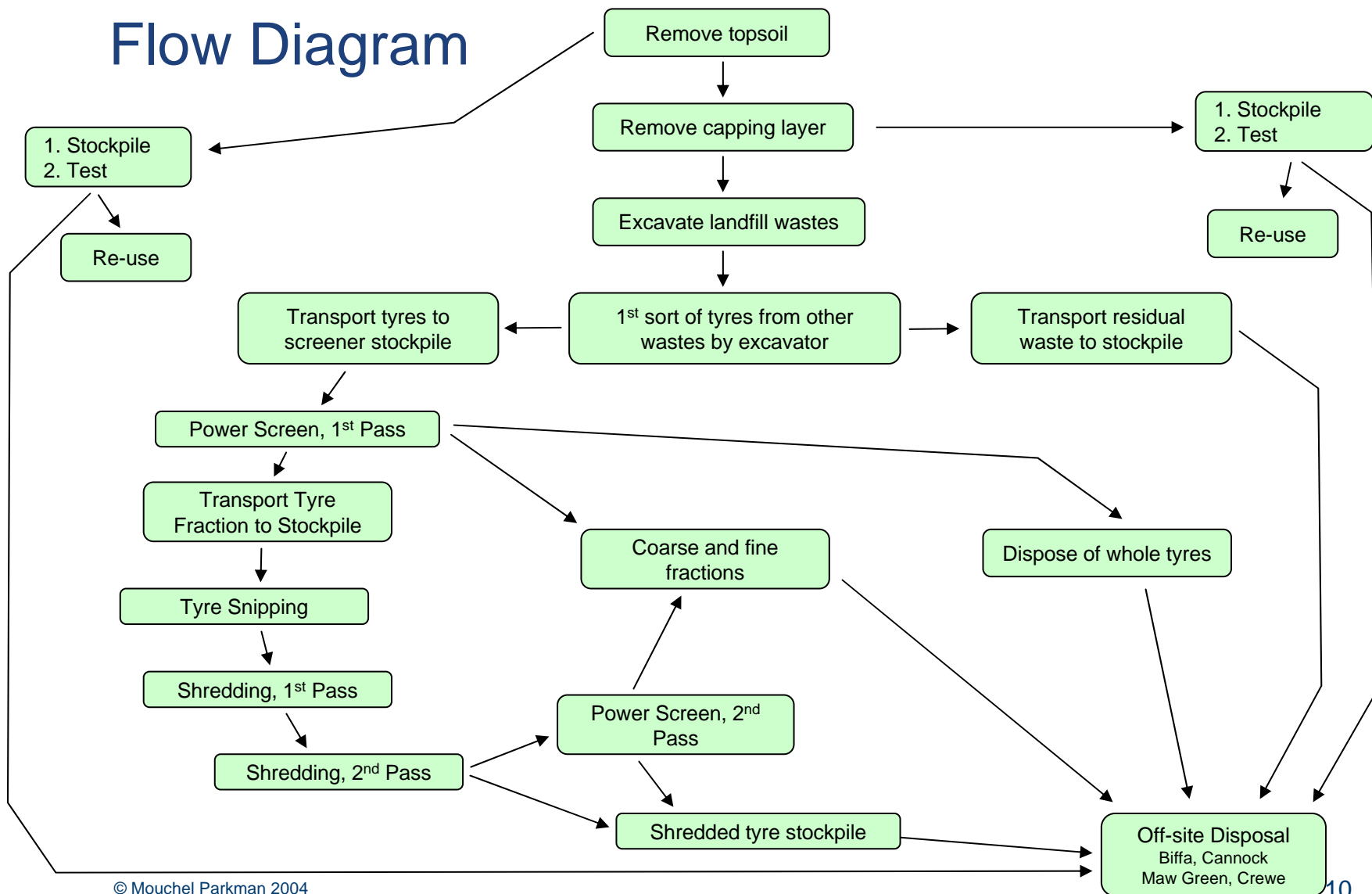
Legislation

- The Landfill (England and Wales) Regulations 2002, banned whole tyre disposal after 16 July 2003.
- The Landfill (England and Wales) (Amendment) Regulations 2005 banned whole tyre disposal after July 16 2006 (along with shredded tyres).

The EA View

- The EA have stated that the permit held by Maw Green Landfill allows whole used tyres to be deposited at the landfill until the ban date specified by the Landfill (England and Wales) (Amendment) Regulations 2005, which is July 2006.
- Maw Green landfill benefits from transitional arrangements as an existing landfill with respect to acceptance of whole used tyres.
- It is therefore acceptable to dispose of whole tyres up to July 2006.

Flow Diagram



Archaeological Investigation



Landfill Proximity to Brook



Flood Compensation Area



Tyres Separated from Dig





Screeener





Shredder





Sideway

