This version of the Commitment Register (dated 14th February 2018) records (in red text) those changes since the previous version (ID-009c) was provided to the Inquiry.

The main changes are in relation to the now published Bird Protection and Mitigation Plan and in response to RSPB’s Further Written Submission of December 2017.

Four new commitments have been added (numbers 211 to 214).
Register of Environmental Commitments

This draft of the Register of Environmental Commitments, 'the Commitments Register' presents those commitments following a process of rationalisation which included removing duplicate commitments, amalgamating others as explained below in the Issue History, and providing a search function. As a consequence of the rationalisation there are gaps in the numbering sequence in column A.

Issue History
The original draft comprising Commitments 1 to 94 inclusive in column B was published on March 10, 2016 in the MACan Environmental Statement as Appendix 18.1.
Rev A – comprising Commitments 94 to 161 inclusive in column B was published on September 5, 2016 in the MACan Environmental Statement Supplement as Appendix R18.1.
Rev B included amendments to existing and further commitments required as a result of correspondence between third parties between 5 September 2016 and publication of the December 2016 ES Supplement on 14 December 2016 (as Appendix SR18.1). Commitments new to Rev B have unique reference numbers 162 to 175 inclusive in column B.
Rev C includes amendments to existing and further commitments required as a result of correspondence between third parties between 14 December 2016 and the end of the second week of the Public Local Inquiry (10 March 2017), issued as PID-09 (updated/revised in May 2017 (PID-09a) to correct a single minor typographical error). Commitments new to Rev C have unique reference numbers 175 to 189 inclusive in column B.
Rev C1 is the same as Rev C except all of the commitments have been given a new reference number in sequence from 1 to 191 (in the left hand column, column A). The original reference number is retained for reference in the second column from the left, column B. Reference numbers in the Objectives/Actions/Notes column (right hand column) have been updated to the new reference number. Rev C1 was issued to the Public Local Inquiry on 25 May 2017 as PID-09b.
Rev C1 to Rev D Bridging Document is the same as Rev C1 except that a new right hand column (Rationalisation for final version) has been added. In this column information is provided as to why the commitment should be deleted (i.e. will not be taken forward into the final version) or retained (i.e. to be taken forward into the final version). Included in the column are proposed key words to be incorporated in the Excel version of the Register (Rev D). Commitments new to the document incorporated during the Public Local Inquiry have unique reference numbers 192 to 210 inclusive.
Rev D - this version, issued as PID-09c on 14th December 2017.
Rev E - this version, for use at the PLI session on 15th February 2017. All changes from Rev D are shown in red.

Notes:
Under ‘Owner’, Designer includes Environmental Consultant. Further details of ‘when required’ are provided at the end of the document.

<table>
<thead>
<tr>
<th>New Ref No</th>
<th>Old Ref No</th>
<th>Commitment</th>
<th>Source</th>
<th>Owner, Action Document</th>
<th>When Required</th>
<th>Date of Completion</th>
<th>Notes</th>
<th>KEY WORDS</th>
</tr>
</thead>
<tbody>
<tr>
<td>19 19</td>
<td></td>
<td>Rights of way will be maintained or diverted wherever practicable during the construction period.</td>
<td>Pre-CEMP S2.3</td>
<td>Contractor</td>
<td>During construction</td>
<td></td>
<td></td>
<td>ProW CEMP</td>
</tr>
<tr>
<td>20 20</td>
<td></td>
<td>Normal working hours will be 0700 to 1900 Monday to Friday and 0700 to 1700 on Saturdays, excluding public holidays. Any working outside the normal hours will be agreed with the local Environmental Health Officer and local residents will be informed. Site working hours will be closely managed and all operatives and staff will be informed of the site working hours during site induction.</td>
<td>ES Chapter 3 Pre-CEMP S2.4</td>
<td>Contractor</td>
<td>During construction</td>
<td></td>
<td></td>
<td>Working hours CEMP</td>
</tr>
<tr>
<td>21 21</td>
<td></td>
<td>Temporary fencing will be established around new section of motorway to mark the temporary boundary during the construction phase. Areas out of bounds to construction activities will also be fenced off or suitably demarcated to ensure that plant and machinery cannot enter. The specific type of fencing will be agreed pre-construction with the relevant land owner/tenant/business user.</td>
<td>Pre-CEMP S2.5</td>
<td>Contractor</td>
<td>During construction</td>
<td></td>
<td></td>
<td>Construction Fencing CEMP</td>
</tr>
<tr>
<td>22 22</td>
<td></td>
<td>The main compound and strategic satellite compounds would have 24-hour security. The compound would be manned during the day to manage the entry/exit of site vehicles and personnel. At night, the compounds would be secured and patrolled by security guards and/or CCTV.</td>
<td>Pre-CEMP S2.6</td>
<td>Contractor</td>
<td>During construction</td>
<td></td>
<td></td>
<td>Construction Security CEMP</td>
</tr>
<tr>
<td>23 23</td>
<td></td>
<td>An Environmental Management System (EMS) will be established for the Scheme and will be managed by the Environmental Clerk and Works/Environmental Manager. The EMS (or its components) will be reviewed every 6 months.</td>
<td>Pre-CEMP S3.1</td>
<td>WG</td>
<td>During construction</td>
<td></td>
<td></td>
<td>Construction CEMP</td>
</tr>
<tr>
<td>24 24</td>
<td></td>
<td>Construction staff will be responsible for adhering to the requirements of all relevant permits/permits etc. A legislative register is provided and will be reviewed and updated during the Scheme as required. Construction activities will be undertaken in accordance with best practice guidelines, and will include exchange land and new allotments.</td>
<td>Pre-CEMP S4</td>
<td>Contractor</td>
<td>During construction</td>
<td></td>
<td></td>
<td>Construction CEMP</td>
</tr>
<tr>
<td>25 25</td>
<td></td>
<td>Regular liaison, including via the Environmental Liaison Group (ELG) and consultation with consultees will continue during construction.</td>
<td>Pre-CEMP S4.4</td>
<td>WG</td>
<td>During construction</td>
<td></td>
<td></td>
<td>Liaison</td>
</tr>
<tr>
<td>26 26</td>
<td></td>
<td>The Scheme will be constructed in accordance with the design as set out in the Made Orders, ES, the ES Supplements and other relevant design documents, and will include exchange land and new allotments.</td>
<td>NWG letter of 0405/16 (p33 &amp; 92)</td>
<td>Contractor</td>
<td>During construction</td>
<td></td>
<td></td>
<td>Design</td>
</tr>
<tr>
<td>27 27</td>
<td></td>
<td>A CEMP will be produced prior to construction following the basis of the Pre-CEMP. The contractor will discuss and seek to agree the CEMP with NRW, Newport City Council and Monmouthshire County Council, and implement construction activities in accordance with the CEMP.</td>
<td>ES various NWG letter of 0405/16 (p33 &amp; 92)</td>
<td>Contractor</td>
<td>Before construction</td>
<td></td>
<td></td>
<td>CEMP</td>
</tr>
<tr>
<td>28 28</td>
<td></td>
<td>General inspections and maintenance of the motorway, structures, drainage, WTAAs and landscape/soft estate areas will take place regularly.</td>
<td>ES OH-2</td>
<td>WO</td>
<td>During operation</td>
<td></td>
<td></td>
<td>Operations Manual Commitment 31</td>
</tr>
<tr>
<td>29 29</td>
<td></td>
<td>Costing reviews will be managed in accordance with the current Cadizol and Wenberg Internal Drainage District standards. Replacement/renewal works will be maintained on a regular basis including clearing out of debris bi-annually.</td>
<td>ES OH-2</td>
<td>Various meetings with NRW</td>
<td>During operation</td>
<td></td>
<td></td>
<td>Operations Manual Drainage management Plan</td>
</tr>
<tr>
<td>30 30</td>
<td></td>
<td>Temporary works in the on entry zone at the PCB cell on the west side of the Usk crossing. The design of the eastern approach to the Usk Crossing will avoid the need to disturb the PCB cell. Similarly, construction activities in the area of the PCB cell will avoid disturbing the cell.</td>
<td>ES OH-2</td>
<td>Contractor</td>
<td>During construction</td>
<td></td>
<td></td>
<td>PCB Works Info</td>
</tr>
</tbody>
</table>
31 103 Welsh Government and the M4CaN contractor will continue to liaise and seek to agree with NRW on the development of the Drainage Strategy including, but not confined to phasing of reen replacements, detailed culvert designs, use of water level control structures including tilting weirs. Permanent and construction drainage designs will incorporate NRW's drainage requirements and will be addressed to NRW’s satisfaction. NRW letter of 04/06/16 (p25 & 27) WG Contractor Designer Pre-construction Refer also to Commitments 28, 32, 91 & 94 Drainage design

32 104 Welsh Government will discuss and agree with NRW management responsibility of the new reens, ditches, culverts and water control devices. NRW letter of 04/06/16 (p28) WG Before completion Refer also to Commitments 28, 31, 91 & 94 Drainage management

35 162 During detailed design NRW will be consulted on the required numbers and locations of water level control structures including tilting weirs to be incorporated in the M4CaN Scheme to enable continuation of current water level management practices, and following agreement with Welsh Government these will be provided to NRW’s satisfaction. NRW meeting of 06/09/16 minutes Designer Contractor Detailed design Construction Drainage design

36 163 During the construction and post construction 5 year aftercare period, ongoing liaison will occur with NRW over the effectiveness of the tilting weirs installed by the contractor as part of the M4CaN scheme in enabling effective water level management. Any significant issues arising attributable to the M4CaN works will be addressed where necessary with the agreement of the Welsh Government.

37 164 During the construction period the contractor will ensure that all watercourses, including culverts within the footprint of the M4CaN Scheme are kept free from blockages. NRW meeting of 06/09/16 minutes Contractor Construction KSB Works Info CEMP Construction Logistics Plan

38 26 All access and egress points from the local highway to the construction works area will be kept clear and where required, wheel wash facilities will be provided to ensure that the highway is kept free of mud. The access points from the local highway will avoid residential areas. A plan of permitted haul routes and access points will be provided to the supply chain to ensure that all deliveries are managed correctly. Pre-CEMP SS.1 Contractor During construction CEMP

41 29 Measures will be adopted to reduce the spread of mud and dust by site vehicles by delivery vehicles. A site speed limit of 10 mph will be imposed where and when applicable and movements of construction traffic around the site will be minimised through the use of designated haul routes. Pre-CEMP SS.1 Contractor During construction CEMP AIR QUALITY

42 30 Measures to minimise impacts from dust and air quality nuisance will be developed into a Dust Management Plan (DMP), which will be implemented throughout the duration of the construction works. Pre-CEMP SS.1 Contractor During construction CEMP AIR QUALITY

43 104 All temporary construction works sites will be removed following the completion of works and land will be restored. ES Ch 3 Contractor During construction Construction

44 105 A Public Liaison Officer (PLO) will be appointed prior to the commencement of works. ES Ch 3 & 10 Contractor Pre-construction CEMP

45 106 Before the commencement of any construction works discussions will take place with NRW and access arrangements agreed whereby NRW can continue to undertake, but not be limited to: routine reen, ditch and flood risk management structure management and maintenance; emergency works, such as blockage removal and repairs to defences; wider compliance and enforcement work within NRW’s remit, not directly related to the M4 construction works. NRW letter of 04/06/16 (p8 & 30) Contractor Pre-construction KSB Works Info CEMP Drainage management

46 107 Subject to health and safety considerations during construction vehicular access will be provided for NRW along the length of the River Ebbw affected by the work, including beneath the west bank under River Ebbw bridge. NRW letter of 04/06/16 (p9) Contractor During construction KSB Works Info CEMP

49 31 The CEMP will include communication measures such as the display of contact details of the person(s) responsible for air quality and the development of Stakeholder Communications Plan and a Dust Management Plan.

50 32 All complaints and incidents relating to dust and air quality will be recorded together with details on how to resolve the situation.

51 33 Inspections will occur regularly (daily in areas close to sensitive receptors) to monitor for compliance with the DMP. Results will be logged and continuous monitoring locations will be agreed with the local planning authority.

52 34 Site layout will be planned so machinery and dust causing activities are located as far as possible from receptors.

53 35 Solid screens or barriers will be erected around key construction compounds.

54 36 Construction practices will avoid generating site runoff of water or mud where possible. Fencing, barriers and scaffolding will be kept clean using wet methods.

55 37 Materials that have the potential to produce dust will be removed from the site as soon as possible, unless the materials are being re-used on site. Stockpiles will be covered and/or seeded.

56 38 A procedure would be implemented to ensure that the engines of stationary vehicles are switched off. Where practicable, the use of diesel or petrol powered generators would be avoided and mains electricity or battery powered equipment would be used.

57 39 A maximum speed limit of 15 mph on surfaced and 10 mph on unsurfaced haul roads and work areas will be imposed and signposted.
<table>
<thead>
<tr>
<th>Page</th>
<th>Section</th>
<th>Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>58 40</td>
<td>Pre-CEMP S6.2 Contractor During construction CEMP</td>
<td>A Construction Logistics Plan will be prepared and implemented to manage the sustainable delivery of materials. Construction staff will be encouraged to use sustainable modes of transport when travelling to the site compounds.</td>
</tr>
<tr>
<td>59 41</td>
<td>Pre-CEMP S6.2 Contractor During construction KS6 Works Info CEMP</td>
<td>All cutting, grinding or sawing equipment used during construction of the new section of motorway will be fitted with suitable dust suppression techniques. An adequate water supply will be provided for dust/particulate matter suppression.</td>
</tr>
<tr>
<td>60 42</td>
<td>Pre-CEMP S6.2 Contractor During construction CEMP</td>
<td>Enclosed chutes, conveyors and covered skips will be used. Drop heights from conveyors, loading shovels and other loading or handling equipment will be minimised and fine water sprays will be used where appropriate.</td>
</tr>
</tbody>
</table>
| 61 43 | Pre-CEMP S6.2 Contractor During construction CEMP | Air quality Measures specific to demolition:  
- Soft strip inside of buildings first, retaining walls and windows where possible.  
- Effective water suppression to be used.  
- Bag and remove or damp down any biological debris prior to demolition. |
| 62 44 | Pre-CEMP S6.2 Contractor During construction CEMP | Air Quality Measures specific to earthworks:  
- Re-vegetate earthworks and exposed areas/stockpiles as soon as possible. Where this is not possible use hessian or mulches as soon as practicable.  
- During construction works remove the cover in small areas rather than the all at once.  
- Re-vegetate earthworks and exposed areas/stockpiles as soon as possible. Where this is not possible use hessian or mulches as soon as practicable.  
- During construction works remove the cover in small areas rather than the all at once. |
| 63 45 | Pre-CEMP S6.2 Contractor During construction CEMP | Air Quality Measures specific to construction:  
- Avoid roughening of concrete surfaces (scabbling) if possible.  
- Ensure sand and other aggregates are stored in bunded areas and are not allowed to dry out.  
- Ensure that bulk cement and other fine powder materials are delivered in enclosed tankers and stored in silos with suitable emission control systems.  
- Ensure that bags of fine powder materials are sealed after use and stored appropriately. |
| 64 46 | Pre-CEMP S6.2 Contractor During construction CEMP | Air Quality Measures specific to trackout:  
- Use water-assisted dust sweepers on the local road to remove, as necessary any material tracked out of the works areas.  
- Ensure vehicles entering and leaving the site are covered to prevent the escape of materials during transport.  
- Inspect on-site haul routes for integrity and carry out the necessary repairs to the surface as soon as reasonably practicable. Record all inspections and any subsequent action in a site log book.  
- Install hard surfaced haul routes, which should be regularly dampened down and cleaned.  
- Where reasonably practicable, implement a wheel washing system (with rumble grids to dislodge accumulated dust and mud prior to leaving the works area).  
- Where the size/layout of the works area permits, ensure there is an area of hard surfaced road between the wheel wash facility and the work area exit.  
- Access gates to be located at least 10 metres from receptors where possible. |
| 65 47 | Pre-CEMP S6.3 Contractor During construction CEMP | Archaeological and Historical features would be protected prior to and during construction. |
| 66 48 | Pre-CEMP S6.3 Designer During construction CEMP | Prior to the commencement of construction works, the Archaeological Contractor will prepare a Project Design for the activities identified in the updated Cultural Heritage Mitigation Plan (CHMP) including detailed method statements. The Project Design will be submitted and agreed by the Contractor’s Archaeologist and the Curator appointed by Welsh Government. |
| 67 49 | Pre-CEMP S6.3 Designer During construction CEMP | Further information will be gathered at a number of locations (as described in the CHMP) and will involve a number of methodologies as set out in the pre-CEMP and the CHMP. The mitigation would be undertaken by one or more experienced specialist contractors. |
| 68 50 | Pre-CEMP S6.3 Contractor During construction CEMP | Measures for discovered cultural heritage remains:  
- A program of mitigation will be implemented which could result in the identification of previously unknown cultural heritage assets. The Archaeological Contractor will delineate the area and all workers made aware of its presence.  
- A Further Archaeological Design will be submitted within 5 working days of the discovery which will be agreed by the Contractor’s Archaeologist and the Curator prior to the commencement of any mitigation works. |
| 69 51 | Pre-CEMP S6.3 Contractor During construction CEMP | At some locations that trenches will be undertaken in areas where no archaeological fieldwork surveys have been undertaken. The detailed methodology is set out in the CHMP. Upon completion a report will be prepared to describe the results. Any archaeological remains identified will be classed as ‘Discovered Cultural Heritage Remains’ and a Further Archaeological Design will be produced (as above). |
The standing stone Devil’s Quoit will remain in situ and be surrounded by a secure fence with appropriate signage. The Contractor’s Archaeologist will be informed before any works in the vicinity of the monument were undertaken and the works will be authorised by a permit.

Pre-CEMP S6.3 Contractor Archaeological contractor Archaeological curator During construction As set out in the updated Cultural Heritage Mitigation Plan (PID-148) CEMP CULTURAL HERITAGE CHMP

A new footpath providing access from the B4246 Catl邕 Road to the Bronze Age standing stone at Undy and provision of an information board.

ES para 8.6.66 WG Designer Contractor During construction As set out in the updated Cultural Heritage Mitigation Plan (PID-148) CULTURAL HERITAGE Standing stone PRoW

Should the scheme proceed and Magor Vicarage (Woodland House) not be relocated the Brooking National Collection will be offered the opportunity to acquire fixtures and fittings from the Grade II listed building ahead of demolition.

Updated CHMP Designer During construction As set out in the updated Cultural Heritage Mitigation Plan (PID-148) CULTURAL HERITAGE Woodland House

Pre-demolition detailed recording of the most significant buildings and the basic recording of the less significant structures as set out in the Cultural Heritage Mitigation Plan (PID-148).

Updated CHMP Designer During construction As set out in the updated Cultural Heritage Mitigation Plan (PID-148) CULTURAL HERITAGE CHMP

An integrated programme of historic landscape analysis will be undertaken to offset some of the impacts on the historic landscape.

NW letter of 04/05/16 (p44) Designer During construction As set out in the updated Cultural Heritage Mitigation Plan (PID-148) CULTURAL HERITAGE CHMP

The Royal Commission on the Ancient and Historic Monuments of Wales (RCAHMW) will be offered the opportunity to record the historic buildings to be demolished.

Written response to Cadw 05/08/16 Designer Pre-construction As set out in the updated Cultural Heritage Mitigation Plan (PID-148) CULTURAL HERITAGE CHMP

All relevant documents relating to historic environment provisions will be shared with Cadw.

Written response to Cadw 05/08/16 Designer At all times As set out in the updated Cultural Heritage Mitigation Plan (PID-148) CULTURAL HERITAGE CHMP

The independent Archaeological Curator should be an MCIfA or work for a CIfA Registered Organisation and should be impartial, qualified, experienced, independent and knowledgeable of the archaeology of the Scheme area.

Written response to Cadw 05/08/16 WG At all times As set out in the updated Cultural Heritage Mitigation Plan (PID-148) CULTURAL HERITAGE CHMP

The programme for Key Stages 4 and 6 will continue to be developed with a view to early commencement of archaeological investigations whenever possible.

Pre-CEMP para 4.4.1 Contractor Pre-construction As set out in the updated Cultural Heritage Mitigation Plan (PID-148) CULTURAL HERITAGE CHMP

All areas of proposed tree planting that coincide with known archaeological sites will be reviewed to see if open grassland is more suitable.

Written response to Cadw 05/08/16 Design At all times As set out in the updated Cultural Heritage Mitigation Plan (PID-148) CULTURAL HERITAGE CHMP

Consultation will continue with the Conservation Officer at NCC with regard to any aspect of detailed design that is relevant to impacts on designated heritage assets including settings.

NCC letter of 11/5/16 Contractor Detailed design As set out in the updated Cultural Heritage Mitigation Plan (PID-148) CULTURAL HERITAGE CHMP

The programme for Key Stages 4 and 6 will continue to be developed with a view to early commencement of archaeological investigations whenever possible.

Contractor Before start of construction As set out in the updated Cultural Heritage Mitigation Plan (PID-148) CULTURAL HERITAGE CHMP
<table>
<thead>
<tr>
<th>Page</th>
<th>Number</th>
<th>Text</th>
<th>Responsible Party</th>
<th>Date</th>
<th>Chapter</th>
<th>Section</th>
<th>Reason</th>
<th>Project Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>82</td>
<td>169</td>
<td>All archaeological investigation works will be subject to approval and sign-off by the independent Archaeological Curator.</td>
<td>Contractor</td>
<td></td>
<td></td>
<td></td>
<td>As set out in the updated Cultural Heritage Mitigation Plan (PID-148)</td>
<td>CULTURAL HERITAGE CHMP KS6 Works Info CEMP</td>
</tr>
<tr>
<td>83</td>
<td>169</td>
<td>Only archaeological investigation works will be subject to approval and sign-off by the independent Archaeological Curator.</td>
<td>Contractor</td>
<td></td>
<td></td>
<td></td>
<td>All archaeological investigation works will be subject to approval and sign-off by the independent Archaeological Curator.</td>
<td>LANDSCAPE</td>
</tr>
<tr>
<td>84</td>
<td>169</td>
<td>The early re-establishment of vegetation within the highway boundary.</td>
<td>Contractor</td>
<td></td>
<td></td>
<td></td>
<td>Pre-CEMP S6.4 Contractor During construction</td>
<td>LANDSCAPE</td>
</tr>
<tr>
<td>85</td>
<td>169</td>
<td>Re-use the coppiced vegetation wherever possible within the planting areas, especially where a screening function or dormouse habitat is required.</td>
<td>Contractor</td>
<td></td>
<td></td>
<td></td>
<td>Pre-CEMP S6.4 Contractor During construction</td>
<td>LANDSCAPE</td>
</tr>
<tr>
<td>86</td>
<td>169</td>
<td>Loss of or damage to landscape features outside of the construction area (for example, hedgerows, hedgerow verges, drystone walls, individual veteran trees, woodland, water features or field systems) would be avoided where possible, and if damaged or destroyed will be repaired or replaced.</td>
<td>Contractor</td>
<td></td>
<td></td>
<td></td>
<td>Pre-CEMP S6.4 Various meetings with NRW Contractor During construction</td>
<td>LANDSCAPE</td>
</tr>
<tr>
<td>87</td>
<td>169</td>
<td>Native species of local provenance will be used wherever possible.</td>
<td>Contractor</td>
<td></td>
<td></td>
<td></td>
<td>Pre-CEMP S6.4 Contractor During construction</td>
<td>LANDSCAPE</td>
</tr>
<tr>
<td>88</td>
<td>169</td>
<td>Careful consideration will be given to the location and design of lighting during construction to minimise light spill outside the working area.</td>
<td>Contractor</td>
<td></td>
<td></td>
<td></td>
<td>Pre-CEMP S6.4 Contractor During construction</td>
<td>LANDSCAPE</td>
</tr>
<tr>
<td>89</td>
<td>169</td>
<td>Where screening of the scheme from sensitive receptors and early landscape integration is the priority, larger tree stock will be planted some of which may be sacrificial.</td>
<td>Contractor</td>
<td></td>
<td></td>
<td></td>
<td>Pre-CEMP S6.4 Contractor During construction</td>
<td>LANDSCAPE</td>
</tr>
<tr>
<td>90</td>
<td>169</td>
<td>Biodiversity Control Measures</td>
<td>Contractor</td>
<td></td>
<td></td>
<td></td>
<td>Pre-CEMP S6.5 SIAA S5.2 NRW letter of 04/05/16 ES Ch 2 &amp; Ch 10 Contractor During construction</td>
<td>BIODIVERSITY</td>
</tr>
<tr>
<td>91</td>
<td>169</td>
<td>Those control and mitigation measures outlined in chapters 2 and 10 of the March 2016 ES, the pre-CEMP section 6.5, the Statement to Inform the Appropriate Assessment section 5.2 will be implemented. They include, but are not limited to, the following:</td>
<td>Contractor</td>
<td></td>
<td></td>
<td></td>
<td>Pre-CEMP S6.5 SIAA S5.2 NRW letter of 04/05/16 ES Ch 2 &amp; Ch 10 Contractor During construction</td>
<td>BIODIVERSITY Reen</td>
</tr>
<tr>
<td>92</td>
<td>169</td>
<td>Reens Mitigation Strategy (March 2016 ES Appendix 2.3, September 2016 ESIS Appendix SS2.1, see also PID-039a, PID-052, PID-054) will be implemented accordingly.</td>
<td>Contractor</td>
<td></td>
<td></td>
<td></td>
<td>Pre-CEMP S6.5 Various meetings with NRW Contractor During construction</td>
<td>BIODIVERSITY Reen Drainage Fish</td>
</tr>
<tr>
<td>93</td>
<td>169</td>
<td>At Berryhill Farm, during clearance of the existing wood, to the extent practicable, coppice stools of hazel and other shrub species would be lifted and replanted in areas of woodland planting to the east of New Park Farm north of the new Castleton Junction in an area which would not otherwise be disturbed. Woodland topsoil from this wood would also be stripped and placed in new planting areas to encourage the establishment of the woodland ground flora.</td>
<td>Contractor</td>
<td></td>
<td></td>
<td></td>
<td>Pre-CEMP S6.5 Contractor Ecological contractor During construction</td>
<td>BIODIVERSITY CEMP Landscape Design</td>
</tr>
<tr>
<td>94</td>
<td>169</td>
<td>Piling to install the cofferdam and pylon piles for the east pylons of the River Usk Crossing will be scheduled to avoid the period of highest sensitivity for underwater noise related impacts on migratory fish in the River Usk (April to June inclusive). Outside of the period 1st April to 30th June there will be no restrictions on the timing of piling activities. In the exceptional circumstance that piling is required within the period 1st April to 30th June piling activities would not take place during the period 3 hours before high water to one hour after high water.</td>
<td>Contractor</td>
<td></td>
<td></td>
<td></td>
<td>Pre-CEMP S6.5 SIAA S5.2. S9.2 NRW letter of 04/05/16 (p16) and subsequent meetings Contractor During construction</td>
<td>BIODIVERSITY River Usk Fish</td>
</tr>
</tbody>
</table>
112 128 Any excavations that are located outside the mammal exclusion fencing that are more than approximately 0.5 m deep will be fenced individually, covered overnight where practicable; walls will be re-profiled so as to enable mammals and other wildlife to walk out of the excavation; or a means of escape will be provided.

ES Ch 10 SIAA S5, 11 & 16
Contractor During construction

113 129 Wastewater The potential for the translocation of wastewater from grasslands at Pwll Diwaelod and Pound Hill will be investigated.

ES Ch 10
Designer Before start of construction

114 130 Environmental Monitoring Comprehensive Environmental Monitoring Programmes for the construction, operation and aftercare phases will be prepared in conjunction with, and agreed with NRW, and implemented accordingly. Such programmes will include, where relevant, trigger levels, proposed remedial action if triggers are breached and/or there are indicators of deleterious effects, and protocols for reporting any problems quickly.

Monitoring will be undertaken both during the construction and the first 5 years after opening of the new section of motorway to confirm the effectiveness of mitigation measures, and if necessary, to inform the need for any changes in management of impacts, or the need for remedial action.

The mammal exclusion fencing will be monitored throughout the construction phase and aftercare period to ensure that it remains intact. The ECoW will be responsible for ensuring regular monitoring is undertaken and that repairs are made as soon as practicable.

Requirements for monitoring of protected species will be set out in the European Protected Species Licence Method Statements and other species Method Statements and/or Mitigation Strategies /Plans. This will include monitoring of populations of dormouse, bats, water vole, badger, birds (owl, wren, grebe, barn owl and Cotswold water), and shrill caterer bees.

Baseline underwater noise levels in the vicinity of the Usk crossing will be undertaken prior to works commencing. Monitoring of underwater noise levels during vibro trenching will be undertaken during significant construction activity.

Water quality (determinands to be agreed with NRW) will be monitored during construction and will continue to be monitored for 5 years of operational use of the new section of motorway to demonstrate acceptable quality of the water treatment area discharges.

With respect to areas of contaminated land monitoring of gas, groundwater, surface waters and slope stability will continue for 5 years after the completion of construction. The monitoring requirements will be set out in the Remediation Strategy and approval sought from NRW.

Monitoring of the materials used and waste generated from the construction of the new section of motorway will be monitored throughout the construction period through the SWMP and MMP.

ES Ch 10, 11 & 16
SIAA S5, S6
NRW letter of 04/05/16 (p85)
NRW mg of 06/09/16
Following NRW review 10/11/16
Designer Contractor During construction During operation

X-refer also to Commitments 125 & 165

BIOVERSTY Monitoring KS6 Works Info CEMP Dormouse

115 135 Landscape and habitat provisions will be delivered as shown on the Environmental Masterplans (EMP).

ES Ch 10
Designer Contractor During construction

BIOVERSTY KS6 Works Info CEMP Fish

116 138 Mitigation Fish Measures include in the Surface Water Management Plan, Pollution Prevention Plan and best practice guidelines will be implemented to avoid adverse effects on migrating fish from pollution.

SIAA paras 5.2.14 to 5.2.27
Contractor During construction

BIOVERSTY KS6 Works Info CEMP Fish

117 139 Proposals for the prevention of pollution, both during the construction and operational phases of the new section of motorway, as set out in the SIAA and ES will be full implemented.

SIAA paras 5.2.14 to 5.2.27
Contractor During construction

BIOVERSTY KS6 Works Info CEMP Fish

118 141 Ghost licence applications will be prepared and submitted to NRW in respect of dormice, great crested newt, bats, and otter.

NRW letter of 04/05/16 (p56)
Designer
Before start of construction

X-refer also to Commitments 114, 125, 131, 132, 133 & 135

BIOVERSTY KS4 works Otter Great crested newt Bats Dormouse

119 143 A sniper and eradication programme of sufficiently large scale will be included in the water voles method statement/mitigation strategy and will be implemented in accordance with that documentation.

NRW response to Dec 2016 ES Supplement
Contractor Designer During construction

X-refer also to Commitment 130

BIOVERSTY SSSI Mitigation Strategy
<table>
<thead>
<tr>
<th>Commitment</th>
<th>Strategy/Method Statement</th>
<th>Responsible Party</th>
<th>Timeframe</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>129</td>
<td>Water Vole Mitigation</td>
<td>NRW</td>
<td>Pre-construction Before main construction</td>
<td>K-refer also to Commitment 129</td>
</tr>
<tr>
<td></td>
<td>Strategy/Method Statement</td>
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<tr>
<td></td>
<td>will be prepared, agreed with NRW and implemented in accordance with the strategy. The strategy will include a programme showing key activities and provide sufficient information to inform a licence application including, but not limited to:</td>
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<td></td>
<td>The need for further surveys as set out and prior to construction</td>
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<td></td>
<td>Prior to any works commencing within 3m of a watercourse, a survey will be undertaken to identify if water voles or their burrows are present.</td>
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<tr>
<td></td>
<td>Mitigation measures designed to displace or translocate water voles from working areas (excluding temporary access routes) to favourable receptor sites prior to the commencement of construction would be set in place in accordance with a Water Vole Method Statement. The exact area of clearance at any location would be determined with regard to habitats and the type of land use and would be agreed with NRW.</td>
<td></td>
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<tr>
<td>125</td>
<td>Great Crested Newt Mitigation Strategy/Method Statement</td>
<td>NRW</td>
<td>Pre-construction During construction</td>
<td>K-refer also to Commitment 125</td>
</tr>
<tr>
<td></td>
<td>will be prepared, agreed with NRW and implemented in accordance with the strategy. The strategy will include a programme showing key activities and provide sufficient information to inform an EPS Licence application.</td>
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<td></td>
<td>Prior to any works commencing within 8m of a watercourse, a survey will be undertaken to identify if water voles or their burrows are present.</td>
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<td></td>
<td>The strategy will include a programme showing key activities and provide sufficient information to inform an EPS Licence application.</td>
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<tr>
<td>128</td>
<td>Dormouse Mitigation Strategy/Method Statement</td>
<td>NRW</td>
<td>Pre-construction During construction</td>
<td>K-refer also to Commitment 128</td>
</tr>
<tr>
<td></td>
<td>will be prepared, finalised, agreed with NRW and implemented in accordance with the strategy. The strategy will include a programme showing key activities and provide sufficient information to inform an EPS Licence application.</td>
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<tr>
<td>130</td>
<td>Bat Mitigation Strategy/Method Statement</td>
<td>NRW</td>
<td>Pre-construction During construction</td>
<td>K-refer also to Commitments 129 &amp; 130</td>
</tr>
<tr>
<td></td>
<td>will be prepared, finalised, agreed with NRW and implemented in accordance with the strategy. The strategy will include a programme showing key activities and provide sufficient information to inform an EPS Licence application, but not limited to:</td>
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<td></td>
<td>Where management of mature trees is required, a survey in order to assess the potential value for roosting bats would be undertaken prior to the commencement of works and any NRW licence would be required if a roost is present.</td>
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<tr>
<td></td>
<td>Felling of trees and demolition of buildings of known or probable value to roosting bats would be undertaken in accordance with a European Protected Species Licence, which would be obtained prior to the commencement of the works. Pre-construction surveys would be undertaken to determine the presence of roosts.</td>
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<td></td>
<td>Replacement bat roosts would be provided including bat boxes and bat houses.</td>
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<td></td>
<td>The construction of crossing points and planting of landscaping would be phased and carried out as soon as practicable during construction. Artificial bat corridors would be used prior to planting becoming established.</td>
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</tr>
<tr>
<td>131</td>
<td>Ruddy Mitigation Strategy/Method Statement</td>
<td>NRW</td>
<td>Pre-construction During construction</td>
<td>K-refer also to Commitment 125</td>
</tr>
<tr>
<td></td>
<td>will be prepared, agreed with NRW and implemented in accordance with the strategy. The strategy will include a programme showing key activities and provide sufficient information to inform an EPS Licence application including, but not limited to:</td>
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<td></td>
<td>To commence construction in areas where common lizard and slow worm populations have been identified, reptile fencing would be installed and reptiles would be captured and transferred to suitable habitat on the margin of the scheme, or to suitable habitat within the SSSI mitigation areas (Appendix 10.35) or elsewhere by agreement.</td>
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<td></td>
<td>Features of potential importance to grass snakes, such as leaf piles, would be identified and where these would be affected by the Scheme would be moved to suitable locations at the Scheme boundary or elsewhere by agreement.</td>
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</tr>
<tr>
<td>132</td>
<td>Otter Mitigation Strategy/Method Statement</td>
<td>NRW</td>
<td>Pre-construction During construction</td>
<td>K-refer also to Commitment 125</td>
</tr>
<tr>
<td></td>
<td>will be prepared, agreed with NRW and implemented in accordance with the strategy. The strategy will include a programme showing key activities and provide sufficient information to inform an EPS Licence application including, but not limited to:</td>
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<td>Further otter survey will be carried out in advance of construction and will inform the detail of any European Protected Species Licence Method Statement.</td>
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<td>The works area within the boundary of the River Usk SAC would be kept to the very minimum required.</td>
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<td></td>
<td>Site inductions and toolbox talks would include all relevant measures required to protect retained habitat of potential value to otters in the SAC, including the retained habitat corridor along/alongside the channel of the River Usk.</td>
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<td></td>
<td>Post-construction habitat replacement as shown on Figure 2.6, Volume 2 and described in Section 10.5 of the ES.</td>
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<td></td>
<td>Provision of a means of escape for large excavations. These measures would be set out in the CEMP.</td>
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<td></td>
<td>Retained habitat surrounding holts and other potential resting places would be protected through works-free buffer zones, fenced as necessary (using construction and/or mammal exclusion fencing). Provision of replacement holts or hovers will be provided if required.</td>
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<td></td>
<td>An emergency procedure protocol to use in the event of encountering an otter or potential otter rest/holt would be given to contractors. Should measures not be possible or practicable the appropriate licences would be obtained from NRW.</td>
<td></td>
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</tr>
<tr>
<td>133</td>
<td>Reptile Mitigation Strategy/Method Statement</td>
<td>NRW</td>
<td>Pre-construction During construction</td>
<td>K-refer also to Commitment 125</td>
</tr>
<tr>
<td></td>
<td>will be prepared, agreed with NRW and implemented in accordance with the strategy. The strategy will include a programme showing key activities and provide sufficient information to inform an EPS Licence application including, but not limited to:</td>
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<tr>
<td></td>
<td>Features of potential importance to grass snakes, such as leaf piles, would be identified and where these would be affected by the Scheme would be moved to suitable locations at the Scheme boundary or elsewhere by agreement.</td>
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</tbody>
</table>

**Table continued...**
Pre-construction

During construction

Before completion

1. Barn Owl Mitigation Strategy/Method Statement will be prepared, agreed with NRW and implemented in accordance with the strategy. The strategy will include a programme showing key activities, including pre-construction surveys.

2. Various meetings with NRW, MCC and NCC will be held and minutes created as part of the discussions to be recorded. It is anticipated that any important issues can be identified that are in excess of ‘Items from the proposed MACP’s’.

Incorporated in Commitment 193

Biodiversity

136

Long term management plans to include post installation, post construction (5 year Aftercare period), and longer term (post Aftercare period) will be prepared, agreed with NRW and implemented as agreed. Such long term management plans will be incorporated into the Scheme’s Operation and Maintenance Manual (OMM) and/or other relevant documentation (e.g. Coed Maer Management Plan). These plans will include, but are not limited to:

- The management and maintenance of aquatic and terrestrial habitat for Great Crested Newt.
- The management and maintenance of habitats, buildings and structures used by bats.
- The management and maintenance of habitat used by dormice.
- The management and maintenance of habitat used by birds.
- The management and maintenance of habitat designed for bumblebees.
- The management and maintenance of Maery Farm Mitigation area.
- The management and maintenance of Tatton Farm Mitigation area.
- The management and maintenance of Caldicot Moor Mitigation area.

138

a) Design of mitigation areas (which would also house the ancillary equipment) will be bunded and lined with an impervious material and have a capacity of 110% of the volume stored.

b) Secondary containment for drum storage will have a capacity of at least 25% of the drum volume. Where practicable, the drum storage areas will not be located within 10 metres of a watercourse or 50 metres of a borehole, well or spring, and will be above any flood water level. Leaking, damaged or empty drums will be removed from the compounds/working areas as soon as possible, and disposed via a registered waste disposal contractor.

c) Spill kits (containing sand or absorbent materials) will be kept close to the storage area. Staff will be trained on how to use the spill kits. Once used, the sand/absorbent material will be disposed of via a registered waste disposal contractor.

d) Refuelling of plant will be undertaken in designated areas on an impermeable surface away from drains or watercourses. All refuelling and bulk deliveries will be supervised, and staff and contractors will receive incident response training. Hoses, valves and pipework will be regularly checked for signs of wear and tear and corrosion.

139

Soil Handling Methodology will be prepared for the new section of motorway following the guidance in Defra’s Good Practice Guide for Handling Soils (Defra, 2000) and Construction Code of Practice for the Sustainable Use of Soils on Construction Sites (Defra, 2009).

Soil topsoil and subsoils will be stripped separately according to specified depths. The timing of soil stripping and handling operations will avoid periods of the wet weather when practicable. Multiple handling of soil materials will be minimised to avoid the risk damaging the soil structure. Appropriate soil handling equipment will be used.

- Topsoil and subsoil will be stored in separate stockpiles. The stockpiles will be a maximum height of 3 metres (topsoil) and 5 metres (subsoil) and an appropriate slope.

- The location of the stockpiles will be designed to keep the topsoil and subsoil separate and will not be positioned within the root or crown spread of trees, or adjacent to ditches, watercourses or existing or future excavations.

- The stockpiles will be cordoned off from the rest of the works area and protected from construction activities and traffic. Once prepared, the stockpiles will be seeded using a standard Fyne Grass seed mix.

- Where practicable the topsoil from the storage areas will not be stripped, but instead the topsoil will be protected in situ by geo-textile matting.

140

a) Soil Handling Methodology

b) Soils

Contaminated Land

The Outline Remediation Strategy Report will be finalised and approval sought from NRW, MCC and NCC prior to construction. The report will include, but is not limited to:

- Where practicable (i.e. where the materials are geotechnically suitable and do not pose an unacceptable risk to human health or the environment) contaminated materials will be retained and reused within the construction of the new section of motorway. The Remediation Strategy Report will set out the approach for assessing if the material will be suitable for reuse with or without treatment. It would also set out the treatment and procedures required to ensure any wastes are appropriately treated to ensure they are ‘fully recovered’. The strategy will be implemented using a Materials Management Plan (MMP) where appropriate and submitted to NRW in line with the CL:AIRE Definition of Waste Code of Practice.

- If previously unidentified or contaminated land is discovered, the procedures will require works to be stopped immediately and the area will be secured to prevent access to site workers, plant and equipment to prevent the spread of contamination. This will be followed by an on-site investigation to identify potential contamination areas.

- The Local Authority and NRW will be notified and consulted on the proposed measures to deal with the contamination; those measures to be agreed and implemented accordingly.

- Where it has been agreed by the Local Authority and NRW for works to continue, materials will be managed to minimise the risk of cross contamination.

141

a) Soil Handling Methodology

b) Soils

Soils

142

a) Soil Handling Methodology

b) Soils

Contaminated Land

- The Local Authority and NRW will be notified and consulted on the proposed measures to deal with the contamination; those measures to be agreed and implemented accordingly.

- Where it has been agreed by the Local Authority and NRW for works to continue, materials will be managed to minimise the risk of cross contamination.

143

a) Unexploded Ordnance Mitigation Strategy

b) UXO
The principles of a ‘discovery strategy’ in relation to how any previously unidentified contamination would be dealt with will be set out within the Remediation Strategy Report. In general terms, if previously unidentified areas of land contamination are discovered the procedure will require works to be stopped immediately and the area to be secured to prevent access to site workers, plant and equipment and to prevent the spread of contaminants until a land contamination specialist has inspected the area. Site workers will be given training on how to identify potential contamination. In accordance with the agreed ‘discovery strategy’ in some instances the Local Authority and NRW will be notified and consulted on the proposed measures to deal with the contamination; those measures to be agreed and implemented accordingly. Where it has been agreed by the Local Authority and NRW for works to continue, materials will be managed to minimise the risk of cross contamination.

Where necessary, materials will be treated and processed on site to render them suitable for use.

Materials which have to be imported from off-site will be sourced from local suppliers where possible. Imported materials are likely to include materials for road pavement construction, aggregates, reinforcing and structural steelwork and concrete.

Materials that are classified as waste will be managed in accordance with the requirements of the relevant waste management legislation and the ‘Duty of Care’ obligations.

Prior consent for work on construction sites (CoPA 1974 Chapter 40, Part III, s.61) will be sought from Newport City Council’s Environmental Health Officer, or other regulators, as appropriate to the specific area and required works, in advance of the works commencing. Where the works are agreed, affected residents will be notified of the programme for the intended works and advised of progress during the works.

The exact locations, alignments, heights and specification of noise barriers will be developed during the detailed design phase. The location of noise barriers will be developed during the detailed design phase.

Where practicable works in sensitive ecological areas will be programmed to avoid causing noise or vibration disturbance during sensitive periods of the year as determined for the species potentially affected.

Prior consultation on the detailed design of public rights of way (surfacing etc.) and associated infrastructure (bridges, signage etc.) will be undertaken with NRW, Newport City Council, Monmouthshire County Council and Sustrans. This will take into account the various countryside access design standards of the relevant local authority and active travel guidance where appropriate.

Prior to construction a Rights of Way Interface Plan will be prepared, and then implemented during construction, by the contractor detailing how the interface between walkers and other NMUs and construction activities will be managed during the construction period. NRW, Newport City Council, Monmouthshire County Council and Sustrans will be consulted on the plan.
166 176 The geometric design of new and diverted lengths of public footpaths and public bridleways will take into account the guidance provided in the Design Manual for Roads and Bridges. For public footpaths the designed width will be no less than 1.5 metres and for public bridleways the designed width will be no less than 3.5 metres. MCC Designer Before start of construction During construction ALL TRAVELLERS KS6 Works Info

167 83 Agricultural land temporarily used for the construction of the new section of motorway will be reinstated to its former use on completion of the construction period to minimise the effect on farm holdings. Pre-CEMP S6.9 Contractor During construction COMMUNITY & PRIVATE ASSETS KS6 Works Info

168 84 Farm access points will be maintained wherever possible to limit the short-term severance of accesses to farm buildings and land. Where this is not possible, alternative accesses will be provided early in the construction process. Pre-CEMP S6.9 Contractor During construction COMMUNITY & PRIVATE ASSETS KS6 Works Info

169 85 Essential services will be maintained throughout the construction period. Pre-CEMP S6.9 Contractor During construction COMMUNITY & PRIVATE ASSETS KS6 Works Info

171 87 Best practice construction procedures will be implemented to reduce the impacts of dust and noise on crops and livestock. Pre-CEMP S6.9 Contractor During construction COMMUNITY & PRIVATE ASSETS KS6 Works Info

172 88 To minimise the financial loss to the farmer as a result of the removal of land from agri-environmental schemes (and the effectiveness of the scheme), restored agricultural land (temporarily used for construction) will be reintegrated into the agri-environment scheme following consultation with NRW. Pre-CEMP S6.9 Designer Contractor During construction COMMUNITY & PRIVATE ASSETS

175 156 Adjustments to the construction programme to accommodate harvesting of crops will be made wherever possible. ES Ch 15 Contractor Before completion ROAD DRAINAGE & WATER ENVIRONMENT KS6 Works Info Operations Manual

176 89 The mitigation measures outlined in the following documents (appended to the Pre-CEMP) will be agreed with NRW and implemented throughout the Scheme:
- Pollution Prevention Plan
- (Contamination) Discovery Strategy
- Surface Water Management Plan (SWMP)
- Groundwater Management Plan
- Remediation Strategy Report
- Piling Risk Assessment
Pre-CEMP S6.10 SIAA S5, S6 NRW letter of 04/05/16 (p92) Contractor Pre-construction During construction Remediaion Strategy Water quality Pollution control CEMP

181 174 A drainage inspection and maintenance schedule of all grass lined channels and water treatment areas, to be agreed with NRW, will be undertaken in accordance with requirements as set out in Design Manual for Roads and Bridges, Volume 4 Section 2 Part 1: (HA103/06) Vegetated drainage systems for highways runoff.
Various meetings with NRW Contractor Before completion ROAD DRAINAGE & WATER ENVIRONMENT KS6 Works Info Operations Manual

182 175 Prior to construction the ECI Contractor will agree arrangements with NRW to enable NRW to undertake its water management duties throughout the Scheme footprint, and those arrangements will be adhered to during construction.
Various meetings with NRW Contractor Before construction During construction ROAD DRAINAGE & WATER ENVIRONMENT NRW Construction

183 190 A Surface Water Monitoring Protocol will be prepared, agreed with NRW, and will be implemented in accordance with the protocol.
Various meetings with NRW Designer Contractor Detailed design Post construction ROAD DRAINAGE & WATER ENVIRONMENT Water Quality

184 180 The environmental mitigation, including the requirements set out in the ES, the Assessment of the Impacts upon European Sites (AIES) and the Register of Environmental Commitments Register, would be monitored on a regular basis throughout the five year aftercare period. ES para 18.8.2 Designer Contractor Post construction ENVIRONMENTAL MANAGEMENT Audit KS7 Works Info

185 181 The aftercare period for the first 5 years (Month of opening + 5yrs) would be the responsibility of the contractor and is covered by the Environmental, Landscape and Ecology Aftercare Plan (ELEAP). Thereafter responsibility for the ongoing long term maintenance would shift to Welsh Government’s highway maintenance contractor (currently SWTRA). The Handover Environmental Management Plan (HEMP) would set out the proposed strategy for the future maintenance and management of the environmental mitigation measures for the following 10 year period (Month of opening + 15yrs). NRW would be consulted on, and agreement sought with, both the ELEAP, and the HEMP and any longer-term management regimes.
ES section 18.8 & 18.9 NRW letter of 04/05/16 (p24, 93) WG Post construction ENVIRONMENTAL MANAGEMENT KS6 Works Info KS7 Works Info
A Pollution Incident Emergency Response Plan would be developed in accordance with relevant guidance. Points to note include:

- Emergency procedures would be developed to support the Response Plan. The procedures would define the circumstances when the plan should be activated and include the names and contact details of staff trained in incident response, clearly defined roles and responsibilities, the types and location of emergency response equipment available, and procedures for recovering spilled product.
- All relevant staff would be trained in how and when to contact the emergency services, NRW and other organisations identified in the Response Plan.
- In the event of an emergency, members of the public would be able to contact the site via the 24-hour helpline.

All construction staff, including sub-contractors, would receive structured training on the requirements of the Pre-CEMP and the associated environmental control plans. Records of training and those attended would be retained.

The Scheme will be constructed as described in the updated Buildability Report (December 2016 ES, Appendix RS3.1). Significant departures will be first discussed with NRW and other regulators as appropriate.

A Bird Mitigation & Protection Plan will be prepared, agreed with NRW and RSPB and implemented in accordance with the Plan. This will include measures to:
- A protocol will be prepared, discussed and agreed with NRW to ensure that any programme of highway culvert inspections of the new section of motorway will not unduly affect water level management across the IDD area, and the protocol will be implemented accordingly.
- Welsh Government will provide NRW with the funding required to cover the additional costs that NRW may incur with respect to management of the Caldicot and Wentlooge Levels IDD reen network and water level management due to the construction, operation and management of the M4 Corridor around Newport scheme should the Scheme proceed. The extent and timing of the work, quantum of funding per annum (which would be ring-fenced) and payment mechanism would be agreed in advance of the works being undertaken by NRW.
<table>
<thead>
<tr>
<th>Page</th>
<th>Text</th>
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<tbody>
<tr>
<td>196</td>
<td>Welsh Government will provide the funding required to implement and carry out the Commitments in the Register of Environmental Commitments should the M4 Corridor around Newport scheme proceed. The extent and timing of the work, quantum of funding per annum (which would be ring fenced) and payment mechanism would be agreed in advance of the works being undertaken by the appointed organisation and/or company. Correspondence between NRW and WG</td>
</tr>
<tr>
<td>197</td>
<td>Welsh Government will provide NRW with the funding required to cover those reasonable and substantiated additional costs that NRW may incur with respect to their statutory responsibilities directly associated with the M4 Corridor around Newport scheme including the agreed environmental mitigation measures should the scheme proceed. The extent and timing of the work, quantum of funding per annum (which would be ring fenced) and payment mechanism would be agreed in advance of the works being undertaken by NRW. Due cognizance will need to be taken of NRW’s current statutory responsibilities which are already funded by Welsh Government. Correspondence between NRW and WG</td>
</tr>
<tr>
<td>198</td>
<td>At detailed design the outfall from WTA4A on the Wentlooge Levels will be redesigned and/or relocated to discharge directly into a reen.</td>
</tr>
<tr>
<td>199</td>
<td>Welsh Government will explore with NRW opportunities to modify the reen network to increase the length of replacement reen on the Caldicot Levels with particular reference to that between Ellen Reen and Common Reen, between St Julians Reen and Common Reen and at Rush Wall. Designer</td>
</tr>
<tr>
<td>200</td>
<td>Welsh Government will deploy as necessary calcium magnesium acetate (CMA) in place of rock salt as a winter road treatment agent on the new section of motorway between 1 March and 30 September inclusive. Water Quality SoCG</td>
</tr>
<tr>
<td>201</td>
<td>WG will enter into legally-binding agreements with owners/occupiers of all land identified as dormouse receptor habitat in the final agreed Dormouse Mitigation Strategy whereby that land is made available to be enhanced and managed for dormouse. WG will deliver those enhancements in accordance with the final agreed Dormouse Mitigation Strategy, prior to the clearance of any habitat and will implement a programme of further management at those locations as agreed with NRW. Dormouse SoCG</td>
</tr>
<tr>
<td>202</td>
<td>WG will enter into legally-binding agreements with owners/occupiers of all land identified as dormouse receptor habitat in the final agreed Dormouse Mitigation Strategy whereby that land is made available to be enhanced and managed for dormouse. WG will deliver those enhancements in accordance with the final agreed Dormouse Mitigation Strategy, prior to the clearance of any habitat and will implement a programme of further management at those locations as agreed with NRW. Dormouse SoCG</td>
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<td>203</td>
<td>During the detailed design stage, following the public local inquiry, Welsh Government will continue to work with NRW to review and develop the detailed environmental and landscape design of the Scheme, including that of noise barriers and water treatment areas. Designs will be implemented accordingly. Heritage and Landscape SoCG</td>
</tr>
<tr>
<td>204</td>
<td>Welsh Government will prepare, discuss with and seek advice from stakeholders (for example, the appropriate local authority, the Bumblebee Conservation Trust and RSPB) and implement accordingly masterplans and/or detailed mitigation action plans for: a) Maerdy Farm in accordance with the agreed SSSI Mitigation Strategy (to include opportunities for informal amenity and community use); b) Tatton Farm in accordance with the agreed SSSI Mitigation Strategy (to include opportunities for informal amenity and community use); c) Caldicot Moor in accordance with the agreed SSSI Mitigation Strategy; d) Berryhill Farm (to include opportunities for informal amenity and community use); and e) Woodland east of Undy (to include opportunities for informal amenity and community use). Heritage and Landscape SoCG</td>
</tr>
</tbody>
</table>

**Table Notes:**
- **Funding:** Correspondence between NRW and WG.
- **Pre-construction:** Design, construction, and operation stages.
- **During operation:** Long-term management and maintenance.
- **Masterplan:** Refers to detailed planning and mitigation strategies.
<table>
<thead>
<tr>
<th>No.</th>
<th>Text</th>
<th>Date/Reference</th>
<th>Role</th>
<th>Timescale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>205</td>
<td>Welsh Government will prepare, discuss with stakeholders (for example, the appropriate local authority, the Bumblebee Conservation Trust and RSPB) and implement accordingly management plans to enable the masterplains and/or detailed action plans below to be taken forward: a) Maerdy Farm in accordance with the agreed SSSI Mitigation Strategy (to include opportunities for informal amenity and community use); b) Tatton Farm in accordance with the agreed SSSI Mitigation Strategy (to include opportunities for informal amenity and community use); c) Caldicot Moor in accordance with the agreed SSSI Mitigation Strategy; d) Bonyhill Farm (to include opportunities for informal amenity and community use); and e) woodland east of Undy (to include opportunities for informal amenity and community use). Each management plan will include a comprehensive monitoring plan to include defined success criteria, trigger levels, remedial action(s) and associated contingency monitoring as appropriate.</td>
<td>NRW 04/07/17 RSPB Further Written Submission Dec 2017</td>
<td>Designer Contractor</td>
<td>During construction</td>
<td>Refer also to Commitments 164 &amp; 165 SSSI Mitigation Strategy</td>
</tr>
<tr>
<td>206</td>
<td>On completion of the complimentary measures on the existing M4 Welsh Government will liaise with the National Trust in respect of any resultant effects on Tiedgar House in Newport.</td>
<td>Heritage and Landscape SoCG</td>
<td>WG</td>
<td>Post construction</td>
<td>National Trust</td>
</tr>
<tr>
<td>207</td>
<td>Welsh Government will continue best efforts to relocate the Magor vicarage to a suitable location subject to further feasibility studies and the outcome of the Magor Vicarage Public Inquiry.</td>
<td>WG</td>
<td>Before main construction</td>
<td>CULTURAL HERITAGE Woodland House Listed building Bat Operations Manual</td>
<td></td>
</tr>
<tr>
<td>208</td>
<td>Welsh Government will provide appropriate and sufficient mitigation (to be agreed with NRW) for the loss of the Lesser horseshoe and pipistrelle bat roosts at Woodland House (Magor Vicarage). Such mitigation will be secured and delivered in advance of the loss of the existing roost site. Any replacement roost(s) should be located to the south of the existing and proposed M4, i.e. on the same side of the M4 as Woodland House.</td>
<td>WG Designer Contractor</td>
<td>Pre-construction</td>
<td>CULTURAL HERITAGE Woodland House Listed building Bat Operations Manual</td>
<td></td>
</tr>
<tr>
<td>209</td>
<td>A long-term management plan, including monitoring requirements, for the replacement roost(s) for Woodland House will be prepared, agreed with NRW and implemented accordingly. Long-term includes post installation, post construction (5 year Aftercare period), and longer term (post Aftercare period). Such a long-term management plan will be incorporated into the Scheme’s Operation and Maintenance Manual (OMM) and/or other relevant documentation.</td>
<td>Designer WG</td>
<td>Before completion</td>
<td>CULTURAL HERITAGE Woodland House Listed building Bat Operations Manual</td>
<td></td>
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<tr>
<td>210</td>
<td>Welsh Government will ensure that population reinforcement will be implemented within an agreed timeframe (at the very least 5 years) in the event that evidence from WG’s dormouse monitoring programme (to be agreed with NRW) demonstrates that planting associated with the scheme is, in the opinion of NRW, being insufficiently colonised.</td>
<td>WG letter to NRW of 19 June 2017; Dormouse SoCG</td>
<td>WG</td>
<td>During operation after the end of the 5 year Aftercare period</td>
<td>BIODIVERSITY Dormouse</td>
</tr>
<tr>
<td>211</td>
<td>With regard to private water supplies those that could be potentially affected by M4CaN construction activities will be identified, registered and monitored prior to construction activities commencing and should the reliability of supply and/or water quality be significantly adversely affected during the construction phase (as measured against the pre-construction position) an emergency source of water will be provided to those registered.</td>
<td>Proof of evidence of Richard Graham.</td>
<td>Contractor MG</td>
<td>Pre-construction</td>
<td>WATER ENVIRONMENT Water supply</td>
</tr>
<tr>
<td>212</td>
<td>Welsh Government will ensure that the commitments set out in the Register of Environmental Commitments, particularly in respect of mitigation strategies and plans, will be implemented in an integrated manner to provide a comprehensive, coherent and complementary series of mitigation measures across the area of the Scheme. Any apparent conflicts between individual mitigation strategies and/or plans will be resolved in discussion with the relevant regulator(s) and/or authorities.</td>
<td>MG</td>
<td>Pre-construction</td>
<td>BIODIVERSITY Mitigation Strategy Management Plan</td>
<td></td>
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<td>213</td>
<td>A Bumblebee Protection and Mitigation Plan will be prepared, agreed with NRW in association with the Bumblebee Conservation Trust and RSPB, and implemented in accordance with the plan. The plan will include a programme showing key activities. The plan will be based on the draft Bumblebee Mitigation and Protection Plan provided as part of RSPB’s Further Written Submission, dated December 2017.</td>
<td>RSPB Further Written Submission Dec 2017</td>
<td>Designer</td>
<td>Pre-construction</td>
<td>BIODIVERSITY CEMP Bumblebees Invertebrates</td>
</tr>
<tr>
<td>214</td>
<td>Welsh Government will honour commitments given in inquiry Questions (IQ) and Inquiry Documents (ID) submitted to the Public Inquiry.</td>
<td>WG</td>
<td>As required</td>
<td></td>
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</table>

Notes:
WG = Welsh Government
The following terms in the 'When required' column mean:

- Before end of PLI – before the end of the Public Local Inquiry
- Before start of construction – before the start of KS6
- Detailed design – during KS4 and KS6
- Pre-construction – toward the end of KS4, or during the early part of KS6
- Before main construction – during the early part of KS6
- During construction – any time during KS6
- Before completion – before the Scheme is open to traffic
- Post construction – within 18 months of the Scheme being open to traffic
- Aftercare period – during the contractor's 5 year aftercare period
- During operation – when the Scheme fully operational