|  |  |
| --- | --- |
| Pro forma Application  (Treated water into nwl’S WATER SUPPLY SYSTEM) | |
| ***Preliminary Notes*** |  |
| ***Data to be provided*** | Please provide detailed information about your proposal including, but not limited to, the information listed below. Full data to evaluate the Licensee’s proposals is essential at this stage. |
| ***Format of data*** | All data are to be provided in one loose-leaf paper copy and, where appropriate, in electronic format. |
| ***Quality Control*** | Please provide sufficient supporting documentation to enable NWL to determine the accuracy of estimations.  Laboratories must be UKAS DWTS (Drinking Water Testing Specification) accredited or subject to DWI inspection. |
| ***Missing data*** | Please explain reasons for any data deficiencies (e.g. works not yet commissioned) and provide estimates / forecasts where measurements are not available. Clearly mark which data are measured and which data are estimated / forecast. |
| ***Contractual / legal*** | Details will be required on the proposed duration of the Access Agreement between the Licensee and NWL.  The Access Agreement will address requirements for Indemnities, Liabilities, bonds and guarantees. |

|  |  |
| --- | --- |
|  |  |
| ***Description of Proposals*** | Please describe in detail the nature of your proposal including the Points of Entry and Exit proposed. |
|  |  |

|  |  |
| --- | --- |
| Licensee | Name of Licensee: Address:    Telephone no: Fax no:  Email address:  Company registration no:  Contact name: Contact telephone: |
| Details of Licensee’s customer | Name of Licensee’s customer(s): Address:  (please enclose signed consents from each customer – see 2.3.1(ii) of the Access Code) |
|  | Location of Licensee customer’s premises, including Ordnance Survey Map Co-ordinates (10 figure): |
|  | Is the proposed customer currently connected to the NWL drinking water supply system? |
|  | Does NWL currently supply drinking water to the proposed customer? |
| Point of Entry | Location of the proposed Point of Entry for the Licensee’s water into NWL’S WATER supply system, including Ordnance Survey Map Co-ordinates (10 figure): |
| Point of Exit | Location of the proposed Point(s) of Exit from NWL's water supply system, including Ordnance Survey Map Co-ordinates (10 figure): |

|  |  |
| --- | --- |
|  |  |
| ***Copies of documentation*** | **Environment Agency abstraction licence**  Copy previously provided with outline application Yes / No  Copy attached Yes / No  (if not available at this stage please detail progress with obtaining licence) |
|  | **Combined Licence to Supply Water**  Copy previously provided with outline application Yes / No  Copy attached Yes / No  (if not available at this stage please detail progress with obtaining licence) |
|  | List any other documents provided. |

|  |  |
| --- | --- |
| ***Water Resources*** | Provide data to demonstrate that the proposed water resource is sufficient and sustainable meeting the forecast demand of customers over the duration of the Access Agreement and for all likely planning scenarios.  When calculating predictions please use methodologies consistent with those contained in “Water Resources Planning Guidelines”, Environment Agency 2003 v3.3 and reports referenced therein and “Reassessment of Water Company Yields”, Environment Agency 1997.  This should also include information on  a) security of supply in the form of a risk assessment to cover likely frequency and duration of outage of supply for maintenance, power failure, source failure, source pollution or other reason.  b)the margin of output over demand calculated over a yearly basis as forecast of the margin of deployable output over peak week demand of customers. |
|  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| ***Hydraulics*** | **Data required on quantity at Point(s) of Entry**  Please complete the inflow table below to provide an indication of the variation in flow at the Point of Entry. This information should be provided for each year of the Access Agreement.  Please also provide a normal daily flow profile of hourly flow at the Point of Entry. | | |
|  | **Proposed inflow at the Point of Entry** | | |
|  | **Minimum** | **Average** | **Maximum** |
| *Annual (MLD)* |  |  |  |
| *Monthly (MLD)* |  |  |  |
| *Weekly (MLD)* |  |  |  |
| *Dailyl (MLD)* |  |  |  |
| *Flow rate (l/s)* |  |  |  |

|  |  |  |
| --- | --- | --- |
|  | **Data required on pressure**  Tabulate (below) how pressure will vary with flow at the Point of Entry where the supply is directly into NWL’s pipework. This is not required when the supply is directly into an NWL service reservoir. Where flows and pressures are likely to change over the duration of the Access Agreement (e.g. when Licensee’s customer changes demand requirements) the tabulated information should include the data associated with these changes.  As a minimum this table should specify gauge pressures at the minimum, mean and maximum flow rates given in the table above. | |
|  | **Flow (l/s)** | **Gauge Pressure (metres)** |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Data required for Point(s) of Exit**  Please complete the table below to demonstrate the variation in the quantity to be delivered to the Point of Exit. This should information should be provided for each year of the Access Agreement. A separate table should be completed for each Point of Exit.  Please also provide a normal daily flow profile of hourly flow at each Point of Exit. | | |
|  | **Forecast demand at Point of Exit** | | |
|  | **Minimum** | **Average** | **Maximum** |
| *Annual (MLD)* |  |  |  |
| *Monthly (MLD)* |  |  |  |
| *Weekly (MLD)* |  |  |  |
| *Daily (MLD)* |  |  |  |
| *Flow rate (l/s)* |  |  |  |

|  |  |
| --- | --- |
| ***Water Quality*** | **Raw water quality**  At the outline appraisal stage a summary of raw water quality would normally have been provided. If not, this must be provided now together with the raw data associated with the summary. The data summary should also be updated to reflect any sampling undertaken since that time.  Please provide all the individual raw data from all monitoring of the raw water during the previous twelve months. This should include all the parameters listed below. Location and date should be recorded.  (For further information on the parameters, measurement and analysis please refer to the Water Supply (Water Quality) Regulations 2000 (and all amendments) and the Surface Water Abstraction Directive (75/440/EEC).)  Parameters: See Tables 1 and 2 (Environment Agency SWAD tables) |
|  |  |
|  | Note 1. Total PAHs is the sum of; Benzo (a) pyrene, Benzo (b) fluoranthene, Benzo (ghi) perylene, Benzo (k) fluoranthene, Fluoranthene and Indeno (1,2,3 cd) pyrene.  Note 2. Total Pesticides is the sum of; Parathion, g-HCH and Dieldrin.  Note 3. Total Phenols is the sum of; 2 methyl phenol, 3 methyl phenol, 2 chloro phenol, 2,5 dichlorophenol, 2,4,6 trichlorophenol and 2,5 dimethyl phenol. |
|  |  |
|  |  |
|  | **Description of existing or proposed treatment processes and other relevant Facilities intended by the Licensee to be used in connection with the proposed access. Describe also how these will be used by the Licensee.**  Provide details of the treatment processes and practices currently applied (or proposed if the works is yet to be commissioned). The objective of this is to demonstrate that the works will provide water that meets all Regulatory requirements and will be compatible with the water in NWL’s water supply system. Include details of all other Licensee Facilities, for example storage, pumping, pressure management and standby arrangements.  Data provided to include:   * Results and methodology for assessments of raw water e.g. cryptosporidium, plumbosolvency and radioactivity risk assessments * Processes (type of treatment, process modelling) * Details of process monitoring and control procedures * If available, results from the above monitoring for one year * Procedures (quality assurance, maintenance, security, emergencies and back-up) * Plant (manufacture, type) and standby provision * Chemicals (grade, supplier) * Environmental obligations * Fluoridation (if applicable) |

|  |  |
| --- | --- |
|  | **Treated water quality**  At the outline appraisal stage a summary of treated water quality would normally have been provided. If not, this must be provided now together with the raw data associated with this summary. The data summary should also be updated to reflect any sampling undertaken since that time.  Please provide all the individual raw data from all monitoring of the treated water during the previous twelve months. This should include all the parameters listed below. Location and date should be recorded.  (For further information on the parameters, measurement and analysis please refer to the Water Supply (Water Quality) Regulations 2000 (and all amendments).)  Parameters: To comply with the above regulations  Where the treatment works has yet to be commissioned, the Licensee shall provide all available data to demonstrate that the works is capable of producing acceptable water quality. For example, raw water quality data and cryptosporidium risk assessments as described in The Water Supply Regulations, bench scale tests, pilot scale tests, operating procedures, Emergency procedures, target values for water quality at intermediate treatment stages, works exit and the Point of Entry. |

|  |  |
| --- | --- |
|  | **Water quality at the Point of Entry**  Please provide raw sampling data (or estimates /forecasts) where any of the concentrations or values of parameters listed above will differ at the Point of Entry from the water quality at the treatment works. |
|  |  |

|  |  |
| --- | --- |
| ***Laboratories used*** | Please list laboratories used for analysis. For each laboratory provide the address and state which parameters were analysed. |
| ***Other*** | Information on any specific requirements at the Point(s) of Exit |
|  | Any other relevant information |