

第 6 章 成果-3 の活動：「無収水削減が手法に
従ってパイロット・エリア及び漏水管理区域
(LCZ) において実施され、無収水率がモニタ
リングおよび維持活動される。」

S6.3-1 データベースの更新項目

Lenggakiki Input item of GIS

| No. | GIS subject | Progress of Database | | | | Frequency of update(*) | Remarks |
|---|-------------------------------------|----------------------|---------|---------|---------|------------------------|---------|
| | | Updated | Ongoing | Not yet | No data | | |
| 1. Distribution Facility information | | | | | | | |
| 0100 | Graphical Water distribution pipes | • | • | • | • | required | |
| 0101-1 | Pipe ID | • | • | • | • | required | |
| 0101-2 | Networks | • | • | • | • | required | |
| 0101-3 | Systems | • | • | • | • | required | |
| 0101-4 | Pipe material | • | • | • | • | required | |
| 0101-5 | Pipe diameters | • | • | • | • | required | |
| 0101-6 | Pipe length | • | • | • | • | required | |
| 0101-7 | Pipe Depth | • | • | • | • | required | |
| 0101-8 | Pipe Line | • | • | • | • | required | |
| 0101-9 | Completion year | • | • | • | • | required | |
| 0101-10 | Date of last maintenance | • | • | • | • | required | |
| 0101-11 | Date of Replacemen / Rehabilitation | • | • | • | • | required | |
| 0101-12 | Date of Replacing | • | • | • | • | required | |
| 0101-13 | Date of Leakage detection | • | • | • | • | required | |
| 0101-14 | Pipe Notes | • | • | • | • | required | |
| 0102 | Graphical Shance valve (gate valve) | • | • | • | • | required | |
| 0102-1 | Valve ID | • | • | • | • | required | |
| 0102-2 | Networks | • | • | • | • | required | |
| 0102-3 | Systems | • | • | • | • | required | |
| 0102-4 | Valve material | • | • | • | • | required | |
| 0102-5 | Valve size | • | • | • | • | required | |
| 0102-6 | Depth | • | • | • | • | required | |
| 0102-7 | Direction of turn | • | • | • | • | required | |
| 0102-8 | Valve status | • | • | • | • | required | |
| 0102-9 | Date of Installation | • | • | • | • | required | |
| 0102-10 | Date of last maintenance | • | • | • | • | required | |
| 0102-11 | Valve Notes | • | • | • | • | required | |
| 0103 | Graphical Hydrant | • | • | • | • | required | |
| 0103-1 | Hydrant ID | • | • | • | • | required | |
| 0103-2 | Networks | • | • | • | • | required | |
| 0103-3 | Systems | • | • | • | • | required | |
| 0103-4 | Hydrant type | • | • | • | • | required | |
| 0103-5 | Hydrant diameters | • | • | • | • | required | |
| 0103-6 | Date of Installation | • | • | • | • | required | |
| 0103-7 | Last maintenance Date | • | • | • | • | required | |
| 0103-8 | Hydrant Notes | • | • | • | • | required | |
| 0104 | Graphical Air Valve | • | • | • | • | required | |
| 0104-1 | Air Valve ID | • | • | • | • | required | |
| 0104-2 | Networks | • | • | • | • | required | |
| 0104-3 | Systems | • | • | • | • | required | |
| 0104-4 | Air Valve size | • | • | • | • | required | |
| 0104-5 | Date of Installation | • | • | • | • | required | |
| 0104-6 | Last maintenance Date | • | • | • | • | required | |
| 0104-7 | Air Valve Notes | • | • | • | • | required | |
| 0105 | Graphical Water pipe bridge | • | • | • | • | required | |
| 0105-1 | ID | • | • | • | • | required | |
| 0105-2 | Length | • | • | • | • | required | |
| 0105-3 | Pipe material | • | • | • | • | required | |
| 0105-4 | Last maintenance Date | • | • | • | • | required | |
| 0105-5 | Bridge Name | • | • | • | • | required | |
| 0105-6 | Bridge material | • | • | • | • | required | |
| 0106 | Graphical Sewer Manholes | • | • | • | • | required | |
| 0106-1 | Sequential number | • | • | • | • | required | |
| 0106-2 | Distribution System number | • | • | • | • | required | |
| 0106-3 | Distribution System name | • | • | • | • | required | |
| 0106-4 | Distribution System location | • | • | • | • | required | |
| 0106-5 | Distribution System code | • | • | • | • | required | |
| 0106-6 | SSYSAC | • | • | • | • | required | |
| 0106-7 | SSYSLENGO | • | • | • | • | required | |
| 0106-8 | SMH number | • | • | • | • | required | |
| 0106-9 | SMH type | • | • | • | • | required | |
| 0106-10 | SMH II | • | • | • | • | required | |
| 0106-11 | SMH RI | • | • | • | • | required | |
| 0106-12 | SMH size | • | • | • | • | required | |
| 0106-13 | SMH date | • | • | • | • | required | |
| 0107 | Graphical Sewer Pipelines | • | • | • | • | required | |
| 0107-1 | Sequential number | • | • | • | • | required | |
| 0107-2 | Distribution System number | • | • | • | • | required | |
| 0107-3 | Distribution System name | • | • | • | • | required | |
| 0107-4 | Distribution System location | • | • | • | • | required | |
| 0107-5 | Distribution System code | • | • | • | • | required | |
| 0107-6 | SSYSAC | • | • | • | • | required | |
| 0107-7 | SSYSLENGO | • | • | • | • | required | |
| 0107-8 | SP_NO | • | • | • | • | required | |
| 0107-9 | Sewer Pipe Length | • | • | • | • | required | |
| 0107-10 | SP_SIL | • | • | • | • | required | |
| 0107-11 | SP_RIL | • | • | • | • | required | |

Lenggakiki Input item of GIS

| No. | GIS subject | Progress of Database | | | | Frequency of update(*) | Remarks |
|---|------------------------------|----------------------|---------|---------|---------|------------------------|---------|
| | | Updated | Ongoing | Not yet | No data | | |
| 1. Distribution Facility information | | | | | | | |
| 0107-12 | SP_AC/V | • | • | • | • | required | |
| 0107-13 | Sewer Pipe diameters | • | • | • | • | required | |
| 0107-14 | SP_MAKE | • | • | • | • | required | |
| 0107-15 | SP_MAKE | • | • | • | • | required | |
| 0107-16 | SP_DATE | • | • | • | • | required | |
| 0107-17 | SP_OPERATOR | • | • | • | • | required | |
| 0107-18 | SP_CONNNO | • | • | • | • | required | |
| 0107-19 | SP_CONNNO | • | • | • | • | required | |
| 0107-20 | SP_CONNNO | • | • | • | • | required | |
| 020 | Graphical Leakage location | • | • | • | • | required | |
| 020-1 | ID | • | • | • | • | required | |
| 020-2 | Leakage Type | • | • | • | • | required | |
| 020-3 | Status of Leak | • | • | • | • | required | |
| 020-4 | Location | • | • | • | • | required | |
| 020-5 | Condition | • | • | • | • | required | |
| 020-6 | Asset type | • | • | • | • | required | |
| 020-7 | Asset Size | • | • | • | • | required | |
| 020-8 | Asset Material | • | • | • | • | required | |
| 020-9 | Date of survey | • | • | • | • | required | |
| 030 | Graphical Flow meters | • | • | • | • | required | |
| 030-1 | ID | • | • | • | • | required | |
| 030-2 | Networks | • | • | • | • | required | |
| 030-3 | Systems | • | • | • | • | required | |
| 030-4 | Location | • | • | • | • | required | |
| 030-5 | Size | • | • | • | • | required | |
| 030-6 | Date of Installation | • | • | • | • | required | |
| 030-7 | Last maintenance Date | • | • | • | • | required | |
| 030-8 | Logging | • | • | • | • | required | |
| 030-9 | Flow meter Notes | • | • | • | • | required | |
| 030-10 | Feeder pipes (service pipes) | • | • | • | • | required | |
| 030-11 | Pipe ID | • | • | • | • | required | |
| 030-12 | Pipe material | • | • | • | • | required | |
| 030-13 | Pipe size | • | • | • | • | required | |
| 030-14 | Flow meter | • | • | • | • | required | |
| 030-15 | Flow meter | • | • | • | • | required | |
| 030-16 | Flow meter | • | • | • | • | required | |
| 030-17 | Flow meter | • | • | • | • | required | |
| 030-18 | Flow meter | • | • | • | • | required | |
| 030-19 | Flow meter | • | • | • | • | required | |
| 030-20 | Flow meter | • | • | • | • | required | |
| 030-21 | Flow meter | • | • | • | • | required | |
| 030-22 | Flow meter | • | • | • | • | required | |
| 030-23 | Flow meter | • | • | • | • | required | |
| 030-24 | Flow meter | • | • | • | • | required | |
| 030-25 | Flow meter | • | • | • | • | required | |
| 030-26 | Flow meter | • | • | • | • | required | |
| 030-27 | Flow meter | • | • | • | • | required | |
| 030-28 | Flow meter | • | • | • | • | required | |
| 030-29 | Flow meter | • | • | • | • | required | |
| 030-30 | Flow meter | • | • | • | • | required | |
| 030-31 | Flow meter | • | • | • | • | required | |
| 030-32 | Flow meter | • | • | • | • | required | |
| 030-33 | Flow meter | • | • | • | • | required | |
| 030-34 | Flow meter | • | • | • | • | required | |
| 030-35 | Flow meter | • | • | • | • | required | |
| 030-36 | Flow meter | • | • | • | • | required | |
| 030-37 | Flow meter | • | • | • | • | required | |
| 030-38 | Flow meter | • | • | • | • | required | |
| 030-39 | Flow meter | • | • | • | • | required | |
| 030-40 | Flow meter | • | • | • | • | required | |
| 030-41 | Flow meter | • | • | • | • | required | |
| 030-42 | Flow meter | • | • | • | • | required | |
| 030-43 | Flow meter | • | • | • | • | required | |
| 030-44 | Flow meter | • | • | • | • | required | |
| 030-45 | Flow meter | • | • | • | • | required | |
| 030-46 | Flow meter | • | • | • | • | required | |
| 030-47 | Flow meter | • | • | • | • | required | |
| 030-48 | Flow meter | • | • | • | • | required | |
| 030-49 | Flow meter | • | • | • | • | required | |
| 030-50 | Flow meter | • | • | • | • | required | |
| 030-51 | Flow meter | • | • | • | • | required | |
| 030-52 | Flow meter | • | • | • | • | required | |
| 030-53 | Flow meter | • | • | • | • | required | |
| 030-54 | Flow meter | • | • | • | • | required | |
| 030-55 | Flow meter | • | • | • | • | required | |
| 030-56 | Flow meter | • | • | • | • | required | |
| 030-57 | Flow meter | • | • | • | • | required | |
| 030-58 | Flow meter | • | • | • | • | required | |
| 030-59 | Flow meter | • | • | • | • | required | |
| 030-60 | Flow meter | • | • | • | • | required | |
| 030-61 | Flow meter | • | • | • | • | required | |
| 030-62 | Flow meter | • | • | • | • | required | |
| 030-63 | Flow meter | • | • | • | • | required | |
| 030-64 | Flow meter | • | • | • | • | required | |
| 030-65 | Flow meter | • | • | • | • | required | |
| 030-66 | Flow meter | • | • | • | • | required | |
| 030-67 | Flow meter | • | • | • | • | required | |
| 030-68 | Flow meter | • | • | • | • | required | |
| 030-69 | Flow meter | • | • | • | • | required | |
| 030-70 | Flow meter | • | • | • | • | required | |
| 030-71 | Flow meter | • | • | • | • | required | |
| 030-72 | Flow meter | • | • | • | • | required | |
| 030-73 | Flow meter | • | • | • | • | required | |
| 030-74 | Flow meter | • | • | • | • | required | |
| 030-75 | Flow meter | • | • | • | • | required | |
| 030-76 | Flow meter | • | • | • | • | required | |
| 030-77 | Flow meter | • | • | • | • | required | |
| 030-78 | Flow meter | • | • | • | • | required | |
| 030-79 | Flow meter | • | • | • | • | required | |
| 030-80 | Flow meter | • | • | • | • | required | |
| 030-81 | Flow meter | • | • | • | • | required | |
| 030-82 | Flow meter | • | • | • | • | required | |
| 030-83 | Flow meter | • | • | • | • | required | |
| 030-84 | Flow meter | • | • | • | • | required | |
| 030-85 | Flow meter | • | • | • | • | required | |
| 030-86 | Flow meter | • | • | • | • | required | |
| 030-87 | Flow meter | • | • | • | • | required | |
| 030-88 | Flow meter | • | • | • | • | required | |
| 030-89 | Flow meter | • | • | • | • | required | |
| 030-90 | Flow meter | • | • | • | • | required | |
| 030-91 | Flow meter | • | • | • | • | required | |
| 030-92 | Flow meter | • | • | • | • | required | |
| 030-93 | Flow meter | • | • | • | • | required | |
| 030-94 | Flow meter | • | • | • | • | required | |
| 030-95 | Flow meter | • | • | • | | | |

Mbokonaveral Input item of GIS

| No. | GIS subject | Progress of Database | | | | Frequency of update(*) | Remarks |
|--------------------------|--|------------------------------------|---------|---------|---------|------------------------|----------------------------------|
| | | Updated | Ongoing | Not yet | No data | | |
| 020 | Graphs: SP_ACV | • | | | • | required | No Sewerage System on Site |
| | 0107-13 Sewer Pipe diameters | • | | | • | required | No Sewerage System on Site |
| | 0107-14 SP_TYPE | • | | | • | required | No Sewerage System on Site |
| | 0107-15 SP_MAKE | • | | | • | required | No Sewerage System on Site |
| | 0107-16 SP_DATE | • | | | • | required | No Sewerage System on Site |
| | 0107-17 SP_SLOPE | • | | | • | required | No Sewerage System on Site |
| | 0107-18 SP_CONNO | • | | | • | required | No Sewerage System on Site |
| | 0107-19 SP_CONNEX | • | | | • | required | No Sewerage System on Site |
| | 0107-20 SP_LINK | • | | | • | required | No Sewerage System on Site |
| | Graphs: Leakage location | • | | | • | Daily | |
| | 0201-1 ID | • | | | • | Daily | |
| | 0201-2 Leakage Type | • | | | • | Daily | |
| | 0201-3 Status of Leak | • | | | • | Daily | |
| | 0201-4 Location | • | | | • | Daily | |
| | 0201-5 Condition | • | | | • | Daily | |
| | 0201-6 Asset type | • | | | • | required | |
| | 0201-7 Asset Size | • | | | • | required | |
| | 0201-8 Asset Material | • | | | • | required | |
| | 0201-9 Date of survey | • | | | • | Daily | |
| 030 | Graphs: Flow meters | • | | | • | required | |
| | 0301-1 ID | • | | | • | required | |
| | 0301-2 Networks | • | | | • | required | No Flow meter installed on site |
| | 0301-3 Systems | • | | | • | required | No Flow meters installed on site |
| | 0301-4 Location | • | | | • | required | No Flow meters installed on site |
| | 0301-5 Size | • | | | • | required | No Flow meters installed on site |
| | 0301-6 Date of installation | • | | | • | required | No Flow meters installed on site |
| | 0301-7 Last maintenance Date | • | | | • | required | No Flow meters installed on site |
| | 0301-8 Logging | • | | | • | required | No Flow meter installed on site |
| | 0301-9 Flow meter Notes | • | | | • | required | No Flow meter installed on site |
| 030 | Graphs: Feeder pipes (service pipes) | • | | | • | required | |
| | 0302-1 PipeID | • | | | • | required | |
| | 0302-2 Pipe material | • | | | • | required | |
| 030 | Graphs: Water meter | • | | | • | Daily | |
| | 0303-1 MeterID | • | | | • | Daily | |
| | 0303-2 Customer's Name | • | | | • | Daily | |
| | 0303-3 MeterID | • | | | • | Daily | |
| | 0303-4 Status of Meter (whether working, burred etc) | • | | | • | Daily | |
| | 0303-5 Manufacturer | • | | | • | Daily | |
| | 0303-6 Size of Meter | • | | | • | Daily | |
| | 0303-7 Date of installation | • | | | • | Daily | |
| | 0303-8 Lot Number | • | | | • | Daily | |
| | 0303-9 Comments | • | | | • | Daily | |
| 040 | 2. Water Source information | | | | | | |
| | Graphs: Bore hole | • | | | • | required | |
| | 0401-1 Borehole ID | • | | | • | required | No Borehole on site |
| | 0401-2 Borehole Type | • | | | • | required | No Borehole on site |
| | 0401-3 Well depth(m) | • | | | • | required | No Borehole on site |
| | 0401-4 Head | • | | | • | required | No Borehole on site |
| | 0401-5 Head Max | • | | | • | required | No Borehole on site |
| | 0401-6 Pump ID | • | | | • | required | No Borehole on site |
| | 0401-7 Location | • | | | • | required | No Borehole on site |
| | 0401-8 Manufacture | • | | | • | required | No Borehole on site |
| | 0401-9 Serial No | • | | | • | required | No Borehole on site |
| | 0401-10 Flow Rate | • | | | • | required | No Borehole on site |
| | 0401-11 Static Water Level | • | | | • | required | No Borehole on site |
| | 0401-12 Dynamic Water Level | • | | | • | required | No Borehole on site |
| | 0401-13 Date of Pump installed | • | | | • | required | No Borehole on site |
| | 0401-14 Date of last maintenance | • | | | • | required | No Borehole on site |
| | 0401-15 Age | • | | | • | required | No Borehole on site |
| | 0401-16 Status | • | | | • | required | No Borehole on site |
| | 040 | 3. Pump Station information | | | | | |
| Graphs: Pump station | | • | | | • | required | |
| 0402-1 Station ID | | • | | | • | required | |
| 0402-2 Unit name | | • | | | • | required | |
| 0402-3 Station type | | • | | | • | required | |
| 0402-4 Location | | • | | | • | required | |
| 0402-5 Age | | • | | | • | required | |
| 0402-6 Status | | • | | | • | required | |
| 0402-7 Power Usage (KWH) | | • | | | • | required | |
| 0402-8 Number of pump | | • | | | • | required | |
| 040 | 4. Service reservoir information | | | | | | |
| | Graphs: Service reservoir | • | | | • | required | |
| | 0403-1 Service reservoir name | • | | | • | required | |
| | 0403-2 Structure of service reservoir | • | | | • | required | |
| | 0403-3 Elevation of service reservoir | • | | | • | required | |
| | 0403-4 Capacity of service reservoir | • | | | • | required | |
| | 0403-5 H.W.L, L.W.L | • | | | • | required | |
| | 0403-6 Date of last maintenance | • | | | • | required | |
| | 0403-7 Logging | • | | | • | required | |
| | 0403-8 Distribution area of source | • | | | • | required | |
| 040 | 5. Distribution area of source | | | | | | |
| | 0404-1 Area name | • | | | • | required | |

Mbokonaveral Input item of GIS

| No. | GIS subject | Progress of Database | | | | Frequency of update(*) | Remarks |
|--------------------------|--|----------------------|---------|---------|-----------------|------------------------|---------|
| | | Updated | Ongoing | Not yet | No data | | |
| 040 | 6. Other informations | | | | | | |
| | Graphs: Water quality (Free-point observation) | • | | | • | Daily / Monthly | |
| | 0405-1 Water Quality Point No | • | | | • | Daily / Monthly | |
| | 0405-2 Location Name | • | | | • | Daily / Monthly | |
| | 0405-3 Date of Survey | • | | | • | Daily / Monthly | |
| | 0405-4 Source name | • | | | • | Daily / Monthly | |
| | 0405-5 Source Type | • | | | • | Daily / Monthly | |
| | 0405-6 Catchment condition | • | | | • | Daily / Monthly | |
| | 0405-7 Catchment area (hectares) | • | | | • | Daily / Monthly | |
| | 0405-8 Flow Rate (L/s) | • | | | • | Daily / Monthly | |
| | 0405-9 Chlorine Demand (mg/10L) | • | | | • | Daily / Monthly | |
| 0405-10 Hardness (mg/L) | • | | | • | Daily / Monthly | | |
| 0405-11 Turbidity (NTU) | • | | | • | Daily / Monthly | | |
| 050 | 5. Customer's information | | | | | | |
| | 0405-1 Customer ID | • | | | • | Daily | |
| | 0405-2 Customer's name | • | | | • | Daily | |
| | 0405-3 House ID | • | | | • | Daily | |
| | 0405-4 Type Of Account | • | | | • | Daily | |
| | 0405-5 Boundary of plot (load) | • | | | • | required | |
| 0405-6 Customer's status | • | | | • | Daily | | |

*1: The term of "Required" indicates the irregular update work.
For example, such as "Updating, if ten information sheets accumulated".
Since it is an ambiguous definition, SW and ICA expert teams will discuss and decide clearly from now on.
And it will indicate by an operation manual.

WR_Namorka Input item of GIS

| No. | GIS subject | Progress of Database | | | | Frequency of update(*) | Remarks |
|----------------------------------|--|----------------------|---------|---------|----------|------------------------|----------------------------------|
| | | Updated | Ongoing | Not yet | No data | | |
| 010 | 1. Distribution Facility information | | | | | | |
| | Graphs: Water distribution pipes | • | | | • | required | |
| | 0101-1 Pipe ID | • | | | • | required | |
| | 0101-2 Networks | • | | | • | required | |
| | 0101-3 Systems | • | | | • | required | |
| | 0101-4 Pipe material | • | | | • | required | |
| | 0101-5 Pipe diameters | • | | | • | required | |
| | 0101-6 Pipe length | • | | | • | required | |
| | 0101-7 Pipe Depth | • | | | • | required | |
| | 0101-8 Pipe Use | • | | | • | required | |
| | 0101-9 Completion year | • | | | • | required | |
| | 0101-10 Date of last maintenance | • | | | • | required | |
| | 0101-11 Date of Replacement / Rehabilitation | • | | | • | required | No records have been kept at all |
| | 0101-12 Date of Requiring | • | | | • | required | No records have been kept at all |
| | 0101-13 Date of Leakage detection | • | | | • | required | |
| | 0101-14 Pipe Notes | • | | | • | required | |
| | Graphs: Shace valve (gate valve) | • | | | • | required | |
| | 0102-1 Valve ID | • | | | • | required | |
| | 0102-2 Networks | • | | | • | required | |
| 0102-3 Systems | • | | | • | required | | |
| 0102-4 Valve material | • | | | • | required | | |
| 0102-5 Valve size | • | | | • | required | | |
| 0102-6 Depth | • | | | • | required | | |
| 0102-7 Direction of turn | • | | | • | required | | |
| 0102-8 Valve status | • | | | • | required | | |
| 0102-9 Date of installation | • | | | • | required | | |
| 0102-10 Date of last maintenance | • | | | • | required | | |
| 0102-11 Valve Notes | • | | | • | required | | |
| 010 | Graphs: Hydrant | | | | | | |
| | 0103-1 Hydrant ID | • | | | • | required | |
| | 0103-2 Networks | • | | | • | required | |
| | 0103-3 Systems | • | | | • | required | |
| | 0103-4 Hydrant type | • | | | • | required | |
| | 0103-5 Hydrant diameters | • | | | • | required | |
| | 0103-6 Date of installation | • | | | • | required | |
| | 0103-7 Last maintenance Date | • | | | • | required | No records have been kept at all |
| | 0103-8 Hydrant Notes | • | | | • | required | |
| | 0103-9 Logging | • | | | • | required | |
| 010 | Graphs: Air valve | | | | | | |
| | 0104-1 Air Valve ID | • | | | • | required | |
| | 0104-2 Networks | • | | | • | required | |
| | 0104-3 Systems | • | | | • | required | |
| | 0104-4 Air Valve size | • | | | • | required | |
| | 0104-5 Date of installation | • | | | • | required | |
| | 0104-6 Last maintenance Date | • | | | • | required | No records have been kept at all |
| 0104-7 Air Valve Notes | • | | | • | required | | |
| 010 | Graphs: Water pipe bridge | | | | | | |
| | 0105-1 ID | • | | | • | required | |
| | 0105-2 Length | • | | | • | required | |
| | 0105-3 Pipe material | • | | | • | required | |
| | 0105-4 Last maintenance Date | • | | | • | required | |
| | 0105-5 Bridge Name | • | | | • | required | |
| | 0105-6 Bridge material | • | | | • | required | |
| | 0105-7 Logging | • | | | • | required | |
| | 0105-8 Sequential number | • | | | • | required | |
| | 0105-9 Distribution System number | • | | | • | required | |
| 010 | Graphs: Sewer Manholes | | | | | | |
| | 0106-1 Sequential number | • | | | • | required | |
| | 0106-2 Distribution System number | • | | | • | required | |
| | 0106-3 Distribution System name | • | | | • | required | |
| | 0106-4 Distribution System location | • | | | • | required | |
| | 0106-5 Distribution System code | • | | | • | required | |
| | 0106-6 SSS/SAC | • | | | • | required | |
| | 0106-7 SSS/INBENO | • | | | • | required | |
| | 0106-8 S.M.H. number | • | | | • | required | |
| | 0106-9 S.M.H. type | • | | | • | required | |
| 010 | Graphs: Sewer Pipes | | | | | | |
| | 0107-1 Sequential number | • | | | • | required | |
| | 0107-2 Distribution System number | • | | | • | required | |
| | 0107-3 Distribution System name | • | | | • | required | |
| | 0107-4 Distribution System location | • | | | • | required | |
| | 0107-5 Distribution System code | • | | | • | required | |
| | 0107-6 SSS/SAC | • | | | • | required | |
| | 0107-7 SSS/INBENO | • | | | • | required | |
| | 0107-8 SP_NO | • | | | • | required | |
| | 0107-9 Sewer Pipe Length | • | | | • | required | |
| 010 | Graphs: Sewer Manholes | | | | | | |
| | 0108-1 S.M.H. ID | • | | | • | required | |
| | 0108-2 S.M.H. size | • | | | • | required | |
| 010 | Graphs: Sewer Pipes | | | | | | |
| | 0109-1 S.P. ID | • | | | • | required | |
| | 0109-2 S.P. length | • | | | • | required | |

WR_Namorka Input item of GIS

| No. | GIS subject | Progress of Database | | | | Frequency of update(*) | Remarks |
|-----|------------------------------|----------------------|---------|---------|---------|------------------------|---------|
| | | Updated | Ongoing | Not yet | No data | | |
| 020 | 0107-12 SP_ACV | • | | | • | required | |
| | 0107-13 Sewer Pipe diameters | • | | | • | required | |
| | 0107-14 SP_TYPE | • | | | • | required | |
| | 0107-15 SP_MAKE | • | | | • | required | |
| | 0107-16 SP_DATE | • | | | • | required | |
| | 0107-17 SP_SLOPE | • | | | • | required | |
| | 0107-18 SP_CONNO | • | | | • | required | |
| | 0107-19 SP_CONNEX | • | | | • | required | |
| | 0107-20 SP_LINK | • | | | • | required | |
| | Graphs: Leakage location | • | | | • | Daily | |
| | 0201-1 ID | • | | | • | Daily | |
| | 0201-2 Leakage Type | • | | | • | Daily | |
| | 0201-3 Status of Leak | • | | | • | Daily | |
| | 0201-4 Location | • | | | • | Daily | |

WR Namoruka Input item of GIS

| No. | GIS subject | Progress of Database | | | | Frequency of update(*)1 | Remarks |
|----------------------------------|---|----------------------|---------|---------|-----------------|-------------------------|---------|
| | | Updated | Ongoing | Not yet | No data | | |
| 6. Other informations | | | | | | | |
| 0400 | 0400-1 Water quality (Free-point observation) | | | • | Daily / Monthly | required | |
| 0400-2 | Water Quality Point No. | | | • | Daily / Monthly | required | |
| 0400-3 | Location Name | | | • | Daily / Monthly | required | |
| 0400-4 | Date of Survey | | | • | Daily / Monthly | required | |
| 0400-5 | Source name | | | • | Daily / Monthly | required | |
| 0400-6 | Source Type | | | • | Daily / Monthly | required | |
| 0400-7 | Attachment condition | | | • | Daily / Monthly | required | |
| 0400-8 | Attachment area(hectares) | | | • | Daily / Monthly | required | |
| 0400-9 | Flow Rate (L/s) | | | • | Daily / Monthly | required | |
| 0400-10 | Chlorine Demand (mg/10L) | | | • | Daily / Monthly | required | |
| 0400-11 | Turbidity (NTU) | | | • | Daily / Monthly | required | |
| 5. Customer's information | | | | | | | |
| 0405 | 0405-1 Customer ID | | | • | Daily | required | |
| 0405-2 | Customer's name | | | • | Daily | required | |
| 0405-3 | House ID | | | • | Daily | required | |
| 0405-4 | Type Of Account | | | • | Daily | required | |
| 0405-5 | Boundary of plot (land) | | | • | required | required | |
| 0405-6 | Customer's status | | | • | Daily | required | |

*1 : The term of "Required" indicates the irregular update work.
 For example, such as "updating, if ten information sheets accumulate".
 Since it is an ambiguous definition, SW and ICA expert team will discuss and decide clearly from now on.
 And it will indicate by an operation manual.

Independence Valley Input item of GIS

| No. | GIS subject | Progress of Database | | | | Frequency of update(*)1 | Remarks |
|---|--------------------------------------|----------------------|---------|---------|----------|----------------------------------|---------|
| | | Updated | Ongoing | Not yet | No data | | |
| 1. Distribution Facility information | | | | | | | |
| 0100 | 0100-1 Water distribution pipes | | | • | required | required | |
| 0100-2 | Networks | | | • | required | required | |
| 0100-3 | Systems | | | • | required | required | |
| 0100-4 | Pipe material | | | • | required | required | |
| 0100-5 | Pipe diameters | | | • | required | required | |
| 0100-6 | Pipe length | | | • | required | required | |
| 0100-7 | Pipe Depth | | | • | required | required | |
| 0100-8 | Pipe Loss | | | • | required | required | |
| 0100-9 | Completion year | | | • | required | required | |
| 0100-10 | Date of last maintenance | | | • | required | required | |
| 0100-11 | Date of Replacement / Rehabilitation | | | • | required | No records have been kept at all | |
| 0100-12 | Date of Repairing | | | • | required | No records have been kept at all | |
| 0100-13 | Date of Leakage detection | | | • | required | required | |
| 0100-14 | Pipe Notes | | | • | required | required | |
| 0102 | 0102-1 Shance valve (gate valve) | | | • | required | required | |
| 0102-2 | Valve ID | | | • | required | required | |
| 0102-3 | Networks | | | • | required | required | |
| 0102-4 | Systems | | | • | required | required | |
| 0102-5 | Valve material | | | • | required | required | |
| 0102-6 | Valve size | | | • | required | required | |
| 0102-7 | Depth | | | • | required | required | |
| 0102-8 | Direction of turn | | | • | required | required | |
| 0102-9 | Valve status | | | • | required | required | |
| 0102-10 | Date of Installation | | | • | required | required | |
| 0102-11 | Date of last maintenance | | | • | required | required | |
| 0102-12 | Valve Notes | | | • | required | required | |
| 0103 | 0103-1 Hydrant | | | • | required | required | |
| 0103-2 | Networks | | | • | required | required | |
| 0103-3 | Systems | | | • | required | required | |
| 0103-4 | Hydrant type | | | • | required | required | |
| 0103-5 | Hydrant diameters | | | • | required | required | |
| 0103-6 | Date of Installation | | | • | required | required | |
| 0103-7 | Last maintenance Date | | | • | required | required | |
| 0103-8 | Hydrant Notes | | | • | required | No records have been kept at all | |
| 0104 | 0104-1 Air Valve | | | • | required | required | |
| 0104-2 | Networks | | | • | required | required | |
| 0104-3 | Systems | | | • | required | required | |
| 0104-4 | Air Valve size | | | • | required | required | |
| 0104-5 | Date of Installation | | | • | required | required | |
| 0104-6 | Last maintenance Date | | | • | required | required | |
| 0104-7 | Air Valve Notes | | | • | required | No records have been kept at all | |
| 0105 | 0105-1 Water pipe leakage | | | • | required | required | |
| 0105-2 | ID | | | • | required | required | |
| 0105-3 | Length | | | • | required | required | |
| 0105-4 | Pipe material | | | • | required | required | |
| 0105-5 | Last maintenance Date | | | • | required | required | |
| 0105-6 | Prkage Name | | | • | required | required | |
| 0105-7 | Prkage material | | | • | required | required | |
| 0106 | 0106-1 Sewer Manholes | | | • | required | required | |
| 0106-2 | Sequential number | | | • | required | required | |
| 0106-3 | Distribution System number | | | • | required | required | |
| 0106-4 | Distribution System name | | | • | required | required | |
| 0106-5 | Distribution System location | | | • | required | required | |
| 0106-6 | Distribution System code | | | • | required | required | |
| 0106-7 | SSYSAC | | | • | required | required | |
| 0106-8 | SSYSINENO | | | • | required | required | |
| 0106-9 | SMH number | | | • | required | required | |
| 0106-10 | SMH Type | | | • | required | required | |
| 0106-11 | SMH H | | | • | required | required | |
| 0106-12 | SMH RL | | | • | required | required | |
| 0106-13 | SMH size | | | • | required | required | |
| 0106-14 | SMH date | | | • | required | required | |
| 0107 | 0107-1 Sewer Pipelans | | | • | required | required | |
| 0107-2 | Sequential number | | | • | required | required | |
| 0107-3 | Distribution System number | | | • | required | required | |
| 0107-4 | Distribution System name | | | • | required | required | |
| 0107-5 | Distribution System location | | | • | required | required | |
| 0107-6 | Distribution System code | | | • | required | required | |
| 0107-7 | SSYSAC | | | • | required | required | |
| 0107-8 | SSYSINENO | | | • | required | required | |
| 0107-9 | SP No | | | • | required | required | |
| 0107-10 | Sewer Pipe Length | | | • | required | required | |
| 0107-11 | SP_SIL | | | • | required | required | |
| 0107-12 | SP_SIL | | | • | required | required | |

*1 : The term of "Required" indicates the irregular update work.
 For example, such as "updating, if ten information sheets accumulate".
 Since it is an ambiguous definition, SW and ICA expert team will discuss and decide clearly from now on.
 And it will indicate by an operation manual.

Independence Valley Input item of GIS

| No. | GIS subject | Progress of Database | | | | Frequency of update(*)1 | Remarks |
|---|---|----------------------|---------|---------|----------|-------------------------|---------|
| | | Updated | Ongoing | Not yet | No data | | |
| 0101-1 | SP_ACTV | | | • | required | required | |
| 0101-2 | Sewer Pipe diameters | | | • | required | required | |
| 0101-3 | SP_MAKE | | | • | required | required | |
| 0101-4 | SP_MAKE | | | • | required | required | |
| 0101-5 | SP_DATE | | | • | required | required | |
| 0101-6 | SP_SLOPE | | | • | required | required | |
| 0101-7 | SP_CONNO | | | • | required | required | |
| 0101-8 | SP_CONNNO | | | • | required | required | |
| 0101-9 | SP_LINK | | | • | required | required | |
| 020 | 020-1 Leakage location | | | • | Daily | required | |
| 020-2 | ID | | | • | Daily | required | |
| 020-3 | Leakage Type | | | • | Daily | required | |
| 020-4 | Status of Leak | | | • | Daily | required | |
| 020-5 | Location | | | • | Daily | required | |
| 020-6 | Condition | | | • | Daily | required | |
| 020-7 | Asset type | | | • | required | required | |
| 020-8 | Asset Size | | | • | required | required | |
| 020-9 | Asset Material | | | • | required | required | |
| 020-10 | Date of survey | | | • | Daily | required | |
| 030 | 030-1 Flow meters | | | • | required | required | |
| 030-2 | ID | | | • | required | required | |
| 030-3 | Networks | | | • | required | required | |
| 030-4 | Systems | | | • | required | required | |
| 030-5 | Location | | | • | required | required | |
| 030-6 | Size | | | • | required | required | |
| 030-7 | Date of Installation | | | • | required | required | |
| 030-8 | Last maintenance Date | | | • | required | required | |
| 030-9 | Logging | | | • | required | required | |
| 030-10 | Flow meter Notes | | | • | required | required | |
| 040 | 040-1 Feeder pipes (service pipes) | | | • | required | required | |
| 040-2 | PipeID | | | • | required | required | |
| 040-3 | Pipe material | | | • | required | required | |
| 040-4 | Pipe size | | | • | required | required | |
| 040-5 | Water meter | | | • | Daily | required | |
| 040-6 | HouseID | | | • | Daily | required | |
| 040-7 | Customer's Name | | | • | Daily | required | |
| 040-8 | MeterID | | | • | Daily | required | |
| 040-9 | Status of Meter (whether working, biased etc) | | | • | Daily | required | |
| 040-10 | Manufacturer | | | • | required | required | |
| 040-11 | Size of Meter | | | • | required | required | |
| 040-12 | Date of Installation | | | • | required | required | |
| 040-13 | Lot Number | | | • | required | required | |
| 040-14 | Comments | | | • | required | required | |
| 2. Water Source information | | | | | | | |
| 0401 | 0401-1 Borehole | | | • | required | required | |
| 0401-2 | Borehole ID | | | • | - | - | |
| 0401-3 | Borehole Type | | | • | required | required | |
| 0401-4 | Well (depth) | | | • | required | required | |
| 0401-5 | Head | | | • | - | - | |
| 0401-6 | Head Max | | | • | - | - | |
| 0401-7 | Pump ID | | | • | required | required | |
| 0401-8 | Location | | | • | required | required | |
| 0401-9 | Manufacture | | | • | - | - | |
| 0401-10 | Serial No | | | • | - | - | |
| 0401-11 | Flow Rate | | | • | required | required | |
| 0401-12 | Static Water Level | | | • | required | required | |
| 0401-13 | Dynamic Water Level | | | • | required | required | |
| 0401-14 | Date of Pump Installed | | | • | required | required | |
| 0401-15 | Date of last maintenance | | | • | required | required | |
| 0401-16 | Age | | | • | required | required | |
| 0401-17 | Status | | | • | required | required | |
| 3. Pump Station information | | | | | | | |
| 0402 | 0402-1 Pump station | | | • | required | required | |
| 0402-2 | Station ID | | | • | - | - | |
| 0402-3 | Unit name | | | • | required | required | |
| 0402-4 | Station type | | | • | required | required | |
| 0402-5 | Location | | | • | required | required | |
| 0402-6 | Age | | | • | required | required | |
| 0402-7 | Status | | | • | required | required | |
| 0402-8 | Power Usage (KWh) | | | • | required | required | |
| 0402-9 | Number of pumps | | | • | required | required | |
| 4. Service reservoir information | | | | | | | |
| 0403 | 0403-1 Service reservoir | | | • | required | required | |
| 0403-2 | Service reservoir name | | | • | - | - | |
| 0403-3 | Structure of service reservoirs | | | • | - | - | |
| 0403-4 | Elevation of service reservoirs | | | • | required | required | |
| 0403-5 | Capacity of service reservoir | | | • | required | required | |
| 0403-6 | H.W.L., L.W.L | | | • | required | required | |
| 0403-7 | Date of last maintenance | | | • | required | required | |
| 0403-8 | Distribution area of service | | | • | required | required | |
| 0403-9 | Area name | | | • | required | required | |

Tuvahu-1 Input item of GIS

| No. | GIS subject | Progress of Database | | | | Frequency of update(*) | Remarks |
|---|-------------------------------------|----------------------|---------|---------|---------|------------------------|----------------------------------|
| | | Updated | Ongoing | Not yet | No data | | |
| 1. Distribution Facility information | | | | | | | |
| 0100 | Graphical Water distribution pipes | • | • | • | • | required | |
| 0100-1 | Pipe ID | • | • | • | • | required | |
| 0100-2 | Networks | • | • | • | • | required | |
| 0100-3 | Systems | • | • | • | • | required | |
| 0100-4 | Pipe material | • | • | • | • | required | |
| 0100-5 | Pipe diameters | • | • | • | • | required | |
| 0100-6 | Pipe length | • | • | • | • | required | |
| 0100-7 | Pipe Depth | • | • | • | • | required | |
| 0100-8 | Pipe Line | • | • | • | • | required | |
| 0100-9 | Completion year | • | • | • | • | required | |
| 0100-10 | Date of last maintenance | • | • | • | • | required | |
| 0100-11 | Date of Replacemen / Rehabilitation | • | • | • | • | required | No records have been kept at all |
| 0100-12 | Date of Replacing | • | • | • | • | required | No records have been kept at all |
| 0100-13 | Date of Leakage detection | • | • | • | • | required | |
| 0100-14 | Pipe Notes | • | • | • | • | required | |
| Graphical Shave valve (gate valve) | | | | | | | |
| 0100-1 | Valve ID | • | • | • | • | required | |
| 0100-2 | Networks | • | • | • | • | required | |
| 0100-3 | Systems | • | • | • | • | required | |
| 0100-4 | Valve material | • | • | • | • | required | |
| 0100-5 | Valve size | • | • | • | • | required | |
| 0100-6 | Depth | • | • | • | • | required | |
| 0100-7 | Direction of turn | • | • | • | • | required | |
| 0100-8 | Valve status | • | • | • | • | required | |
| 0100-9 | Date of Installation | • | • | • | • | required | |
| 0100-10 | Date of last maintenance | • | • | • | • | required | |
| 0100-11 | Valve Notes | • | • | • | • | required | |
| Graphical Hydrant | | | | | | | |
| 0100-1 | Hydrant ID | • | • | • | • | required | |
| 0100-2 | Networks | • | • | • | • | required | |
| 0100-3 | Systems | • | • | • | • | required | |
| 0100-4 | Hydrant type | • | • | • | • | required | |
| 0100-5 | Hydrant diameters | • | • | • | • | required | |
| 0100-6 | Date of Installation | • | • | • | • | required | |
| 0100-7 | Last maintenance Date | • | • | • | • | required | |
| 0100-8 | Hydrant Notes | • | • | • | • | required | No records have been kept at all |
| Graphical Air valve | | | | | | | |
| 0100-1 | Air Valve ID | • | • | • | • | required | |
| 0100-2 | Networks | • | • | • | • | required | |
| 0100-3 | Systems | • | • | • | • | required | |
| 0100-4 | Air Valve size | • | • | • | • | required | |
| 0100-5 | Date of Installation | • | • | • | • | required | |
| 0100-6 | Last maintenance Date | • | • | • | • | required | No records have been kept at all |
| 0100-7 | Air Valve Notes | • | • | • | • | required | |
| Graphical Water pipe bridge | | | | | | | |
| 0100-1 | ID | • | • | • | • | required | |
| 0100-2 | Length | • | • | • | • | required | |
| 0100-3 | Pipe material | • | • | • | • | required | |
| 0100-4 | Last maintenance Date | • | • | • | • | required | |
| 0100-5 | Bridge Name | • | • | • | • | required | |
| 0100-6 | Bridge material | • | • | • | • | required | |
| Graphical Sewer Manholes | | | | | | | |
| 0100-1 | Sequential number | • | • | • | • | required | |
| 0100-2 | Distribution System number | • | • | • | • | required | |
| 0100-3 | Distribution System name | • | • | • | • | required | |
| 0100-4 | Distribution System location | • | • | • | • | required | |
| 0100-5 | Distribution System code | • | • | • | • | required | |
| 0100-6 | SSYSAC | • | • | • | • | required | |
| 0100-7 | SSYSLENNO | • | • | • | • | required | |
| 0100-8 | SMH number | • | • | • | • | required | |
| 0100-9 | SMH type | • | • | • | • | required | |
| 0100-10 | SMH II | • | • | • | • | required | |
| 0100-11 | SMH RI | • | • | • | • | required | |
| 0100-12 | SMH size | • | • | • | • | required | |
| 0100-13 | SMH date | • | • | • | • | required | |
| Graphical Sewer Pipelans | | | | | | | |
| 0100-1 | Sequential number | • | • | • | • | required | |
| 0100-2 | Distribution System number | • | • | • | • | required | |
| 0100-3 | Distribution System name | • | • | • | • | required | |
| 0100-4 | Distribution System location | • | • | • | • | required | |
| 0100-5 | Distribution System code | • | • | • | • | required | |
| 0100-6 | SSYSAC | • | • | • | • | required | |
| 0100-7 | SSYSLENNO | • | • | • | • | required | |
| 0100-8 | SP_NO | • | • | • | • | required | |
| 0100-9 | Sewer Pipe Length | • | • | • | • | required | |
| 0100-10 | SP_SIL | • | • | • | • | required | |
| 0100-11 | SP_HLL | • | • | • | • | required | |

Tuvahu-1 Input item of GIS

| No. | GIS subject | Progress of Database | | | | Frequency of update(*) | Remarks |
|-------------------------------|--|----------------------|---------|---------|---------|------------------------|---------|
| | | Updated | Ongoing | Not yet | No data | | |
| Other informations | | | | | | | |
| 0400 | Graphical Water quality (Investment observation) | • | • | • | • | Daily / Monthly | |
| 0400-1 | Water Quality Point No. | • | • | • | • | Daily / Monthly | |
| 0400-2 | Location Name | • | • | • | • | Daily / Monthly | |
| 0400-3 | Date of Survey | • | • | • | • | Daily / Monthly | |
| 0400-4 | Source name | • | • | • | • | Daily / Monthly | |
| 0400-5 | Source Type | • | • | • | • | Daily / Monthly | |
| 0400-6 | Settlement condition | • | • | • | • | Daily / Monthly | |
| 0400-7 | Settlement area (hectares) | • | • | • | • | Daily / Monthly | |
| 0400-8 | Flow Rate (L/s) | • | • | • | • | Daily / Monthly | |
| 0400-9 | Valveuse Demand (mg/10L) | • | • | • | • | Daily / Monthly | |
| 0400-10 | Recharge (mg/L) | • | • | • | • | Daily / Monthly | |
| 0400-11 | Turbidity (NTU) | • | • | • | • | Daily / Monthly | |
| Customer's information | | | | | | | |
| 0600 | 0400-1 Customer ID | • | • | • | • | Daily | |
| 0400-2 | Customer's name | • | • | • | • | Daily | |
| 0400-3 | House ID | • | • | • | • | Daily | |
| 0400-4 | Type Of Account | • | • | • | • | Daily | |
| 0400-5 | Boundary of plot (land) | • | • | • | • | Daily | |
| 0400-6 | Customer's status | • | • | • | • | Daily | |

* : The term of "Required" indicates the regular update work.
 For example, such as "updating" if the information clients accommodate +
 Since it is an ambiguous definition, SW and ICA expert team will discuss and decide clearly from now on.
 And it will indicate by an operation manual

Tuvahu-1 Input item of GIS

| No. | GIS subject | Progress of Database | | | | Frequency of update(*) | Remarks |
|---|---|----------------------|---------|---------|---------|------------------------|---------|
| | | Updated | Ongoing | Not yet | No data | | |
| 1. Distribution Facility information | | | | | | | |
| 0100-1 | SP_AC/V | • | • | • | • | required | |
| 0100-2 | Sewer Pipe diameters | • | • | • | • | required | |
| 0100-3 | SP_MAKE | • | • | • | • | required | |
| 0100-4 | SP_DATE | • | • | • | • | required | |
| 0100-5 | SP_LOPE | • | • | • | • | required | |
| 0100-6 | SP_CONNNO | • | • | • | • | required | |
| 0100-7 | SP_CONNNO | • | • | • | • | required | |
| 0100-8 | SP_CONNNO | • | • | • | • | required | |
| 0100-9 | SP_CONNNO | • | • | • | • | required | |
| 0100-10 | SP_CONNNO | • | • | • | • | required | |
| 0200 | Graphical Leakage location | • | • | • | • | Daily | |
| 0200-1 | ID | • | • | • | • | Daily | |
| 0200-2 | Leakage Type | • | • | • | • | Daily | |
| 0200-3 | Status of Leak | • | • | • | • | Daily | |
| 0200-4 | Location | • | • | • | • | Daily | |
| 0200-5 | Condition | • | • | • | • | Daily | |
| 0200-6 | Asset type | • | • | • | • | required | |
| 0200-7 | Asset Size | • | • | • | • | required | |
| 0200-8 | Asset Material | • | • | • | • | required | |
| 0200-9 | Date of survey | • | • | • | • | Daily | |
| Graphical Flow meters | | | | | | | |
| 0300-1 | ID | • | • | • | • | required | |
| 0300-2 | Networks | • | • | • | • | required | |
| 0300-3 | Systems | • | • | • | • | required | |
| 0300-4 | Location | • | • | • | • | required | |
| 0300-5 | Size | • | • | • | • | required | |
| 0300-6 | Date of Installation | • | • | • | • | required | |
| 0300-7 | Last maintenance Date | • | • | • | • | required | |
| 0300-8 | Logging | • | • | • | • | required | |
| 0300-9 | Flow meter Notes | • | • | • | • | required | |
| Graphical Feeder pipes (service pipes) | | | | | | | |
| 0300-1 | PipeID | • | • | • | • | required | |
| 0300-2 | Pipe material | • | • | • | • | required | |
| 0300-3 | Pipe size | • | • | • | • | required | |
| Graphical Water meter | | | | | | | |
| 0300-1 | HouseID | • | • | • | • | Daily | |
| 0300-2 | Customer's Name | • | • | • | • | Daily | |
| 0300-3 | MeterID | • | • | • | • | Daily | |
| 0300-4 | Status of Meter (whether working, buried etc) | • | • | • | • | required | |
| 0300-5 | Manufacturer | • | • | • | • | required | |
| 0300-6 | Size of Meter | • | • | • | • | required | |
| 0300-7 | Date of Installation | • | • | • | • | required | |
| 0300-8 | Last Number | • | • | • | • | required | |
| 0300-9 | Comments | • | • | • | • | required | |
| 2. Water Source information | | | | | | | |
| 0400 | Graphical Bore hole | • | • | • | • | required | |
| 0400-1 | Borehole ID | • | • | • | • | required | |
| 0400-2 | Borehole Type | • | • | • | • | required | |
| 0400-3 | Well Depth(m) | • | • | • | • | required | |
| 0400-4 | Head | • | • | • | • | required | |
| 0400-5 | Head Max | • | • | • | • | required | |
| 0400-6 | Pump ID | • | • | • | • | required | |
| 0400-7 | Location | • | • | • | • | required | |
| 0400-8 | Manufacturer | • | • | • | • | required | |
| 0400-9 | Serial No | • | • | • | • | required | |
| 0400-10 | Flow Rate | • | • | • | • | required | |
| 0400-11 | Static Water Level | • | • | • | • | required | |
| 0400-12 | Dynamic Water Level | • | • | • | • | required | |
| 0400-13 | Date of Pump Installed | • | • | • | • | required | |
| 0400-14 | Date of last maintenance | • | • | • | • | required | |
| 0400-15 | Age | • | • | • | • | required | |
| 0400-16 | Status | • | • | • | • | required | |
| 3. Pump Station information | | | | | | | |
| 0400 | Graphical Pump station | • | • | • | • | required | |
| 0400-1 | Station ID | • | • | • | • | required | |
| 0400-2 | Unit name | • | • | • | • | required | |
| 0400-3 | Station type | • | • | • | • | required | |
| 0400-4 | Location | • | • | • | • | required | |
| 0400-5 | Age | • | • | • | • | required | |
| 0400-6 | Status | • | • | • | • | required | |
| 0400-7 | Power Usage (KWh) | • | • | • | • | required | |
| 0400-8 | Number of pumps | • | • | • | • | required | |
| 4. Service reservoir information | | | | | | | |
| 0400 | Graphical Service reservoir | • | • | • | • | required | |
| 0400-1 | Service reservoir name | • | • | • | • | required | |
| 0400-2 | Structure of service reservoir | • | • | • | • | required | |
| 0400-3 | Elevation of service reservoir | • | • | • | • | required | |
| 0400-4 | Capacity of service reservoir | • | • | • | • | required | |
| 0400-5 | H.W.L. / L.W.L | • | • | • | • | required | |
| 0400-6 | Date of last maintenance | • | • | • | • | required | |
| 0400 | Graphical Distribution area of source | • | • | • | • | required | |
| 0400-1 | Area name | • | • | • | • | required | |

Tuvahu-2 Input item of GIS

Tuvuruhu-2 Input item of GIS

| No. | GIS subject | Progress of Database | | | | Frequency of update(*1) | Remarks |
|---|---|----------------------|---------|---------|---------|-------------------------|---------|
| | | Updated | Ongoing | Not yet | No data | | |
| 0101-1 | SP_AC/V | | • | | | required | |
| 0101-13 | Sewer Pipe diameters | | • | | | required | |
| 0101-14 | SP_TYPE | | • | | | required | |
| 0101-15 | SP_MAKE | | • | | | required | |
| 0101-16 | SP_DATE | | • | | | required | |
| 0101-17 | SP_SLOPE | | • | | | required | |
| 0101-18 | SP_CONNO | | • | | | required | |
| 0101-19 | SP_CONNEC | | • | | | required | |
| 0101-20 | SP_LINK | | • | | | required | |
| 020 | Graphic: Leakage location | • | | | | Daily | |
| 0201-1 | ID | • | | | | Daily | |
| 0201-2 | Leakage Type | • | | | | Daily | |
| 0201-3 | Status of Leak | • | | | | Daily | |
| 0201-4 | Location | • | | | | Daily | |
| 0201-5 | Condition | • | | | | Daily | |
| 0201-6 | Asset type | • | | | | Daily | |
| 0201-7 | Asset Size | • | | | | required | |
| 0201-8 | Asset Material | • | | | | required | |
| 0201-9 | Date of survey | • | | | | Daily | |
| 030 | Graphic: Flow meters | • | | | | required | |
| 0301-1 | ID | • | | | | required | |
| 0301-2 | Networks | • | | | | required | |
| 0301-3 | Systems | • | | | | required | |
| 0301-4 | Location | • | | | | required | |
| 0301-5 | Size | • | | | | required | |
| 0301-6 | Date of installation | • | | | | required | |
| 0301-7 | Last maintenance Date | • | | | | required | |
| 0301-8 | Logging | • | | | | required | |
| 0301-9 | Flow meter Notes | • | | | | required | |
| 030 | Graphic: Feeder pipes (service pipes) | • | | | | required | |
| 0301-1 | PipeID | • | | | | required | |
| 0301-2 | Pipe material | • | | | | required | |
| 0301-3 | Pipe size | • | | | | required | |
| 030 | Graphic: Water meter | • | | | | Daily | |
| 0301-1 | FlowID | • | | | | Daily | |
| 0301-2 | Customer's Name | • | | | | Daily | |
| 0301-3 | MeterID | • | | | | Daily | |
| 0301-4 | Status of Meter (whether working, burred etc) | • | | | | Daily | |
| 0301-5 | Manufacturer | • | | | | Daily | |
| 0301-6 | Size of Meter | • | | | | Daily | |
| 0301-7 | Date of installation | • | | | | Daily | |
| 0301-8 | Lot Number | • | | | | Daily | |
| 0301-9 | Comments | • | | | | Daily | |
| 2. Water Source information | | | | | | | |
| 040 | Graphic: Bore hole | • | | | | required | |
| 0401-1 | Borehole ID | • | | | | - | |
| 0401-2 | Borehole Type | • | | | | - | |
| 0401-3 | Well depth(m) | • | | | | required | |
| 0401-4 | Head | • | | | | - | |
| 0401-5 | Head Max | • | | | | - | |
| 0401-6 | Pump ID | • | | | | - | |
| 0401-7 | Location | • | | | | required | |
| 0401-8 | Manufacture | • | | | | - | |
| 0401-9 | Serial No. | • | | | | - | |
| 0401-10 | Flow Rate | • | | | | required | |
| 0401-11 | Static Water Level | • | | | | required | |
| 0401-12 | Dynamic Water Level | • | | | | required | |
| 0401-13 | Date of Pump Installed | • | | | | required | |
| 0401-14 | Date of last maintenance | • | | | | required | |
| 0401-15 | Age | • | | | | required | |
| 0401-16 | Status | • | | | | required | |
| 3. Pump Station information | | | | | | | |
| 040 | Graphic: Pump station | • | | | | required | |
| 0401-1 | Station ID | • | | | | required | |
| 0401-2 | Unit name | • | | | | required | |
| 0401-3 | Station type | • | | | | required | |
| 0401-4 | Location | • | | | | required | |
| 0401-5 | Age | • | | | | required | |
| 0401-6 | Status | • | | | | required | |
| 0401-7 | Power Usage (KWh) | • | | | | required | |
| 0401-8 | Number of pump | • | | | | required | |
| 4. Service reservoir information | | | | | | | |
| 040 | Graphic: Service reservoir | • | | | | required | |
| 0401-1 | Service reservoir name | • | | | | - | |
| 0401-2 | Structure of service reservoirs | • | | | | - | |
| 0401-3 | Elevation of service reservoirs | • | | | | required | |
| 0401-4 | Capacity of service reservoir | • | | | | required | |
| 0401-5 | H.W.L., L.W.L. | • | | | | required | |
| 0401-6 | Date of last maintenance | • | | | | required | |
| 040 | Graphic: Distribution area of source | • | | | | required | |
| 0401-1 | Area name | • | | | | required | |

Tuvuruhu-2 Input item of GIS

| No. | GIS subject | Progress of Database | | | | Frequency of update(*1) | Remarks |
|----------------------------------|---|----------------------|---------|---------|---------|-------------------------|---------|
| | | Updated | Ongoing | Not yet | No data | | |
| 6. Other informations | | | | | | | |
| 040 | Graphic: Water quality (Free-point observation) | • | | | | Daily / Monthly | |
| 0401-1 | Water Quality Point No. | • | | | | Daily / Monthly | |
| 0401-2 | Location Name | • | | | | Daily / Monthly | |
| 0401-3 | Date of Survey | • | | | | Daily / Monthly | |
| 0401-4 | Source name | • | | | | Daily / Monthly | |
| 0401-5 | Source Type | • | | | | Daily / Monthly | |
| 0401-6 | Collection condition | • | | | | Daily / Monthly | |
| 0401-7 | Collection area (hectares) | • | | | | Daily / Monthly | |
| 0401-8 | Flow Rate (L/s) | • | | | | Daily / Monthly | |
| 0401-9 | Chlorine Demand (mg/10L) | • | | | | Daily / Monthly | |
| 0401-10 | Hardness (mg/L) | • | | | | Daily / Monthly | |
| 0401-11 | Turbidity (NTU) | • | | | | Daily / Monthly | |
| 5. Customer's information | | | | | | | |
| 050 | Graphic: Customer ID | • | | | | Daily | |
| 0501-1 | Customer's name | • | | | | Daily | |
| 0501-2 | House ID | • | | | | Daily | |
| 0501-3 | Type Of Account | • | | | | Daily | |
| 0501-4 | Boundary of plot (road) | • | | | | required | |
| 0501-5 | Customer's status | • | | | | Daily | |

*1: The term of "Required" indicates the irregular update work.
 For example, such as "updating, if ten information sheets accumulate".
 Since it is an ambiguous definition, SW and ICA expert team will discuss and decide clearly from now on.
 And it will indicate by an operation manual.

Vavaea Ridge Input item of GIS

| No. | GIS subject | Progress of Database | | | | Frequency of update(*1) | Remarks |
|---|--------------------------------------|----------------------|---------|---------|---------|-------------------------|----------------------------------|
| | | Updated | Ongoing | Not yet | No data | | |
| 1. Distribution Facility information | | | | | | | |
| 010 | Graphic: Water distribution pipes | • | | | | required | |
| 0101-1 | Pipe ID | • | | | | required | |
| 0101-2 | Networks | • | | | | required | |
| 0101-3 | Systems | • | | | | required | |
| 0101-4 | Pipe material | • | | | | required | |
| 0101-5 | Pipe diameters | • | | | | required | |
| 0101-6 | Pipe length | • | | | | required | |
| 0101-7 | Pipe Depth | • | | | | required | |
| 0101-8 | Pipe Use | • | | | | required | |
| 0101-9 | Completion year | • | | | | required | |
| 0101-10 | Date of last maintenance | • | | | | required | |
| 0101-11 | Date of Replacement / Rehabilitation | • | | | | required | No records have been kept at all |
| 0101-12 | Date of Requiring | • | | | | required | No records have been kept at all |
| 0101-13 | Date of Leakage detection | • | | | | required | No records have been kept at all |
| 0101-14 | Pipe Notes | • | | | | required | |
| 010 | Graphic: Sluice valve (gate valve) | • | | | | required | |
| 0101-1 | Valve ID | • | | | | required | |
| 0101-2 | Networks | • | | | | required | |
| 0101-3 | Systems | • | | | | required | |
| 0101-4 | Valve material | • | | | | required | |
| 0101-5 | Valve size | • | | | | required | |
| 0101-6 | Depth | • | | | | required | |
| 0101-7 | Direction of turn | • | | | | required | |
| 0101-8 | Valve status | • | | | | required | |
| 0101-9 | Date of installation | • | | | | required | |
| 0101-10 | Date of last maintenance | • | | | | required | |
| 0101-11 | Valve Notes | • | | | | required | |
| 010 | Graphic: Hydrant | • | | | | required | |
| 0101-1 | Hydrant ID | • | | | | required | |
| 0101-2 | Networks | • | | | | required | |
| 0101-3 | Systems | • | | | | required | |
| 0101-4 | Hydrant type | • | | | | required | |
| 0101-5 | Hydrant diameters | • | | | | required | |
| 0101-6 | Date of installation | • | | | | required | |
| 0101-7 | Last maintenance Date | • | | | | required | No records have been kept at all |
| 0101-8 | Hydrant Notes | • | | | | required | |
| 010 | Graphic: Air valve | • | | | | required | |
| 0101-1 | Air Valve ID | • | | | | required | |
| 0101-2 | Networks | • | | | | required | |
| 0101-3 | Systems | • | | | | required | |
| 0101-4 | Air Valve size | • | | | | required | |
| 0101-5 | Date of installation | • | | | | required | |
| 0101-6 | Last maintenance Date | • | | | | required | No records have been kept at all |
| 0101-7 | Air Valve Notes | • | | | | required | |
| 010 | Graphic: Water pipe bridge | • | | | | required | |
| 0101-1 | ID | • | | | | required | |
| 0101-2 | Length | • | | | | required | |
| 0101-3 | Pipe material | • | | | | required | |
| 0101-4 | Last maintenance Date | • | | | | required | |
| 0101-5 | Bridge Name | • | | | | required | |
| 0101-6 | Bridge material | • | | | | required | |
| 010 | Graphic: Sewer Manholes | • | | | | required | |
| 0101-1 | Sequential number | • | | | | required | |
| 0101-2 | Distribution System number | • | | | | required | |
| 0101-3 | Distribution System name | • | | | | required | |
| 0101-4 | Distribution System location | • | | | | required | |
| 0101-5 | Distribution System code | • | | | | required | |
| 0101-6 | SSYSAC | • | | | | required | |
| 0101-7 | SSYSINENO | • | | | | required | |
| 0101-8 | SBH number | • | | | | required | |
| 0101-9 | SBH type | • | | | | required | |
| 0101-10 | SBH IL | • | | | | required | |
| 0101-11 | SBH RL | • | | | | required | |
| 0101-12 | SBH size | • | | | | required | |
| 0101-13 | SBH date | • | | | | required | |
| 010 | Graphic: Sewer Pipelines | • | | | | required | |
| 0101-1 | Sequential number | • | | | | required | |
| 0101-2 | Distribution System number | • | | | | required | |
| 0101-3 | Distribution System name | • | | | | required | |
| 0101-4 | Distribution System location | • | | | | required | |
| 0101-5 | Distribution System code | • | | | | required | |
| 0101-6 | SSYSAC | • | | | | required | |
| 0101-7 | SSYSINENO | • | | | | required | |
| 0101-8 | SP NO | • | | | | required | |
| 0101-9 | Sewer Pipe Length | • | | | | required | |
| 0101-10 | SP_SLL | • | | | | required | |
| 0101-11 | SP_SLL | • | | | | required | |

Vavaea Ridge Input item of GIS

| No. | GIS subject | Progress of Database | | | | Frequency of update(*1) | Remarks |
|---------|---------------------------|----------------------|---------|---------|---------|-------------------------|---------|
| | | Updated | Ongoing | Not yet | No data | | |
| 0101-12 | SP_AC/V | | • | | | required | |
| 0101-13 | Sewer Pipe diameters | | • | | | required | |
| 0101-14 | SP_TYPE | | • | | | required | |
| 0101-15 | SP_MAKE | | • | | | required | |
| 0101-16 | SP_DATE | | • | | | required | |
| 0101-17 | SP_SLOPE | | • | | | required | |
| 0101-18 | SP_CONNO | | • | | | required | |
| 0101-19 | SP_CONNEC | | • | | | required | |
| 0101-20 | SP_LINK | | • | | | required | |
| 020 | Graphic: Leakage location | • | | | | | |

Vavaca Ridge Input item of GIS

| No. | GIS subject | Progress of Database | | | | Frequency of update(*) | Remarks |
|----------------------------------|--|----------------------|---------|---------|---------|------------------------|---------|
| | | Updated | Ongoing | Not yet | No data | | |
| 6. Other informations | | | | | | | |
| 0400 | Graphical Water quality (Free-point observation) | | | | • | Daily / Monthly | |
| 0400-1 | Water Quality Point No. | | | | • | Daily / Monthly | |
| 0400-2 | Location Name | | | | • | Daily / Monthly | |
| 0400-3 | Date of Survey | | | | • | Daily / Monthly | |
| 0400-4 | Source name | | | | • | Daily / Monthly | |
| 0400-5 | Source Type | | | | • | Daily / Monthly | |
| 0400-6 | Catchment condition | | | | • | Daily / Monthly | |
| 0400-7 | Catchment area(hectares) | | | | • | Daily / Monthly | |
| 0400-8 | Flow Rate (L/s) | | | | • | Daily / Monthly | |
| 0400-9 | Chlorine Demand (mg/10L) | | | | • | Daily / Monthly | |
| 0400-10 | Hardness (mg/L) | | | | • | Daily / Monthly | |
| 0400-11 | Turbidity (NTU) | | | | • | Daily / Monthly | |
| 5. Customer's information | | | | | | | |
| 0405 | 0405-1 Customer ID | | • | | | Daily | |
| 0405-2 | Customer's name | | • | | | Daily | |
| 0405-3 | House ID | | | • | | Daily | |
| 0405-4 | Type Of Account | | | | • | Daily | |
| 0405-5 | Boundary of plot (land) | | | | • | required | |
| 0405-6 | Customer's status | | | | • | Daily | |

*1 : The term of "Required" indicates the irregular update work.
 For example, such as "updating, if ten information sheets accumulate".
 Since it is an ambiguous definition, SW and ICA expert team will discuss and decide clearly from now on.
 And it will indicate by an operation manual.

Mbokona Input item of GIS

| No. | GIS subject | Progress of Database | | | | Frequency of update(*) | Remarks |
|---|--------------------------------------|----------------------|---------|---------|---------|------------------------|----------------------------------|
| | | Updated | Ongoing | Not yet | No data | | |
| 1. Distribution Facility information | | | | | | | |
| 0100 | Graphical Water distribution pipes | | | | • | required | |
| 0100-1 | Pipe ID | | | | • | required | |
| 0100-2 | Networks | | | | • | required | |
| 0100-3 | Systems | | | | • | required | |
| 0100-4 | Pipe material | | | | • | required | |
| 0100-5 | Pipe diameters | | | | • | required | |
| 0100-6 | Pipe length | | | | • | required | |
| 0100-7 | Pipe Depth | | | | • | required | |
| 0100-8 | Pipe Line | | | | • | required | |
| 0100-9 | Completion year | | | | • | required | |
| 0100-10 | Date of last maintenance | | | | • | required | |
| 0100-11 | Date of Replacement / Rehabilitation | | | | • | required | No records have been kept at all |
| 0100-12 | Date of Repairing | | | | • | required | No records have been kept at all |
| 0100-13 | Date of Leakage detection | | | | • | required | |
| 0100-14 | Pipe Notes | | | | • | required | |
| 0100 | Graphical Shunt valve (gate valve) | | | | • | required | |
| 0100-1 | Valve ID | | | | • | required | |
| 0100-2 | Networks | | | | • | required | |
| 0100-3 | Systems | | | | • | required | |
| 0100-4 | Valve material | | | | • | required | |
| 0100-5 | Valve size | | | | • | required | |
| 0100-6 | Depth | | | | • | required | |
| 0100-7 | Direction of turn | | | | • | required | |
| 0100-8 | Valve status | | | | • | required | |
| 0100-9 | Date of Installation | | | | • | required | |
| 0100-10 | Date of last maintenance | | | | • | required | |
| 0100-11 | Valve Notes | | | | • | required | |
| 0100 | Graphical Hydrant | | | | • | required | |
| 0100-1 | Hydrant ID | | | | • | required | |
| 0100-2 | Networks | | | | • | required | |
| 0100-3 | Systems | | | | • | required | |
| 0100-4 | Hydrant type | | | | • | required | |
| 0100-5 | Hydrant diameters | | | | • | required | |
| 0100-6 | Date of Installation | | | | • | required | |
| 0100-7 | Last maintenance Date | | | | • | required | |
| 0100-8 | Hydrant Notes | | | | • | required | No records have been kept at all |
| 0100 | Graphical Air valve | | | | • | required | |
| 0100-1 | Air Valve ID | | | | • | required | |
| 0100-2 | Networks | | | | • | required | |
| 0100-3 | Systems | | | | • | required | |
| 0100-4 | Air Valve size | | | | • | required | |
| 0100-5 | Date of Installation | | | | • | required | |
| 0100-6 | Last maintenance Date | | | | • | required | No records have been kept at all |
| 0100-7 | Air Valve Notes | | | | • | required | |
| 0100 | Graphical Water pipe leakage | | | | • | required | |
| 0100-1 | ID | | | | • | required | |
| 0100-2 | Length | | | | • | required | |
| 0100-3 | Pipe material | | | | • | required | |
| 0100-4 | Last maintenance Date | | | | • | required | |
| 0100-5 | Prkage Name | | | | • | - | |
| 0100-6 | Prkage material | | | | • | - | |
| 0100 | Graphical Sewer Manholes | | | | • | required | |
| 0100-1 | Sequential number | | | | • | - | |
| 0100-2 | Distribution System number | | | | • | required | |
| 0100-3 | Distribution System name | | | | • | required | |
| 0100-4 | Distribution System location | | | | • | required | |
| 0100-5 | Distribution System code | | | | • | required | |
| 0100-6 | SSYSAC | | | | • | required | |
| 0100-7 | SSYSLENCO | | | | • | required | |
| 0100-8 | SMH number | | | | • | required | |
| 0100-9 | SMH type | | | | • | required | |
| 0100-10 | SMH H | | | | • | required | |
| 0100-11 | SMH RL | | | | • | required | |
| 0100-12 | SMH size | | | | • | required | |
| 0100-13 | SMH date | | | | • | required | |
| 0100 | Graphical Sewer Pipelans | | | | • | required | |
| 0100-1 | Sequential number | | | | • | required | |
| 0100-2 | Distribution System number | | | | • | required | |
| 0100-3 | Distribution System name | | | | • | required | |
| 0100-4 | Distribution System location | | | | • | required | |
| 0100-5 | Distribution System code | | | | • | required | |
| 0100-6 | SSYSAC | | | | • | required | |
| 0100-7 | SSYSLENCO | | | | • | required | |
| 0100-8 | SP NO | | | | • | required | |
| 0100-9 | Sewer Pipe Length | | | | • | required | |
| 0100-10 | SP_SIL | | | | • | required | |
| 0100-11 | SP_SIL | | | | • | required | |

*1 : The term of "Required" indicates the irregular update work.
 For example, such as "updating, if ten information sheets accumulate".
 Since it is an ambiguous definition, SW and ICA expert team will discuss and decide clearly from now on.
 And it will indicate by an operation manual.

Mbokona Input item of GIS

| No. | GIS subject | Progress of Database | | | | Frequency of update(*) | Remarks |
|---|--|----------------------|---------|---------|---------|------------------------|---------|
| | | Updated | Ongoing | Not yet | No data | | |
| 0100-12 | SP_ACTV | | | | • | required | |
| 0100-13 | Sewer Pipe diameters | | | | • | required | |
| 0100-14 | SP_TYPE | | | | • | required | |
| 0100-15 | SP_MAKE | | | | • | required | |
| 0100-16 | SP_DATE | | | | • | required | |
| 0100-17 | SP_SLOPE | | | | • | required | |
| 0100-18 | SP_CONNO | | | | • | required | |
| 0100-19 | SP_CONNEC | | | | • | required | |
| 0100-20 | SP_LINK | | | | • | required | |
| 0200 | Graphical Leakage location | | | | • | Daily | |
| 0200-1 | ID | | | | • | Daily | |
| 0200-2 | Leakage Type | | | | • | Daily | |
| 0200-3 | Status of Leak | | | | • | Daily | |
| 0200-4 | Location | | | | • | Daily | |
| 0200-5 | Condition | | | | • | Daily | |
| 0200-6 | Asset type | | | | • | required | |
| 0200-7 | Asset Size | | | | • | required | |
| 0200-8 | Asset Material | | | | • | required | |
| 0200-9 | Date of survey | | | | • | Daily | |
| 0300 | Graphical Flow meters | | | | • | required | |
| 0300-1 | ID | | | | • | required | |
| 0300-2 | Networks | | | | • | required | |
| 0300-3 | Systems | | | | • | required | |
| 0300-4 | Location | | | | • | required | |
| 0300-5 | Size | | | | • | required | |
| 0300-6 | Date of Installation | | | | • | required | |
| 0300-7 | Last maintenance Date | | | | • | required | |
| 0300-8 | Logging | | | | • | required | |
| 0300-9 | Flow meter Notes | | | | • | required | |
| 0300 | Graphical Feeder pipes (service pipes) | | | | • | required | |
| 0300-1 | PipeID | | | | • | required | |
| 0300-2 | Pipe material | | | | • | required | |
| 0300-3 | Pipe size | | | | • | required | |
| 0300 | Graphical Water meter | | | | • | Daily | |
| 0300-1 | HouseID | | | | • | Daily | |
| 0300-2 | Customer's Name | | | | • | Daily | |
| 0300-3 | MeterID | | | | • | Daily | |
| 0300-4 | Status of Meter (whether working, biased etc.) | | | | • | Daily | |
| 0300-5 | Manufacturer | | | | • | required | |
| 0300-6 | Size of Meter | | | | • | required | |
| 0300-7 | Date of Installation | | | | • | required | |
| 0300-8 | Lot Number | | | | • | required | |
| 0300-9 | Comments | | | | • | required | |
| 2. Water Source information | | | | | | | |
| 0400 | Graphical Bore hole | | | | • | required | |
| 0400-1 | Borehole ID | | | | • | - | |
| 0400-2 | Borehole Type | | | | • | required | |
| 0400-3 | Well (depth) | | | | • | required | |
| 0400-4 | Head | | | | • | - | |
| 0400-5 | Head Max | | | | • | - | |
| 0400-6 | Pump ID | | | | • | required | |
| 0400-7 | Location | | | | • | required | |
| 0400-8 | Manufacture | | | | • | - | |
| 0400-9 | Serial No | | | | • | - | |
| 0400-10 | Flow Rate | | | | • | required | |
| 0400-11 | Static Water Level | | | | • | required | |
| 0400-12 | Dynamic Water Level | | | | • | required | |
| 0400-13 | Date of Pump Installed | | | | • | required | |
| 0400-14 | Date of last maintenance | | | | • | required | |
| 0400-15 | Age | | | | • | required | |
| 0400-16 | Status | | | | • | required | |
| 3. Pump Station information | | | | | | | |
| 0400 | Graphical Pump station | | | | • | required | |
| 0400-1 | Station ID | | | | • | - | |
| 0400-2 | Unit name | | | | • | required | |
| 0400-3 | Station type | | | | • | required | |
| 0400-4 | Location | | | | • | required | |
| 0400-5 | Age | | | | • | required | |
| 0400-6 | Status | | | | • | required | |
| 0400-7 | Power Usage (KWh) | | | | • | required | |
| 0400-8 | Number of pumps | | | | • | required | |
| 4. Service reservoir information | | | | | | | |
| 0400 | Graphical Service reservoir | | | | • | required | |
| 0400-1 | Service reservoir name | | | | • | - | |
| 0400-2 | Structure of service reservoirs | | | | • | - | |
| 0400-3 | Elevation of service reservoirs | | | | • | required | |
| 0400-4 | Capacity of service reservoir | | | | • | required | |
| 0400-5 | H.W.L., L.W.L. | | | | • | required | |
| 0400-6 | Date of last maintenance | | | | • | required | |
| 0400 | Graphical Distribution area of service | | | | • | required | |
| 0400-1 | Area name | | | | • | required | |

Mbaranamba Input item of GIS

| No. | GIS subject | Progress of Database | | | | Frequency of update(*) | Remarks |
|---|-------------------------------------|----------------------|---------|---------|---------|------------------------|----------------------------------|
| | | Updated | Ongoing | Not yet | No data | | |
| 1. Distribution Facility information | | | | | | | |
| 0100 | Graphic Water distribution pipes | • | • | • | • | required | |
| 0101-1 | Pipe ID | • | • | • | • | required | |
| 0101-2 | Networks | • | • | • | • | required | |
| 0101-3 | System | • | • | • | • | required | |
| 0101-4 | Pipe material | • | • | • | • | required | |
| 0101-5 | Pipe diameters | • | • | • | • | required | |
| 0101-6 | Pipe length | • | • | • | • | required | |
| 0101-7 | Pipe Depth | • | • | • | • | required | |
| 0101-8 | Pipe Line | • | • | • | • | required | |
| 0101-9 | Completion year | • | • | • | • | required | |
| 0101-10 | Date of last maintenance | • | • | • | • | required | |
| 0101-11 | Date of Replacemen / Rehabilitation | • | • | • | • | required | No records have been kept at all |
| 0101-12 | Date of Reparing | • | • | • | • | required | No records have been kept at all |
| 0101-13 | Date of Leakage detection | • | • | • | • | required | |
| 0101-14 | Pipe Notes | • | • | • | • | required | |
| Graphic Shave valve (gate valve) | | | | | | | |
| 0102-1 | Valve ID | • | • | • | • | required | |
| 0102-2 | Networks | • | • | • | • | required | |
| 0102-3 | Systems | • | • | • | • | required | |
| 0102-4 | Valve material | • | • | • | • | required | |
| 0102-5 | Valve size | • | • | • | • | required | |
| 0102-6 | Depth | • | • | • | • | required | |
| 0102-7 | Direction of turn | • | • | • | • | required | |
| 0102-8 | Valve status | • | • | • | • | required | |
| 0102-9 | Date of Installation | • | • | • | • | required | |
| 0102-10 | Date of last maintenance | • | • | • | • | required | |
| 0102-11 | Valve Notes | • | • | • | • | required | |
| Graphic Hydrant | | | | | | | |
| 0103-1 | Hydrant ID | • | • | • | • | required | |
| 0103-2 | Networks | • | • | • | • | required | |
| 0103-3 | Systems | • | • | • | • | required | |
| 0103-4 | Hydrant type | • | • | • | • | required | |
| 0103-5 | Hydrant diameters | • | • | • | • | required | |
| 0103-6 | Date of Installation | • | • | • | • | required | |
| 0103-7 | Last maintenance Date | • | • | • | • | required | |
| 0103-8 | Hydrant Notes | • | • | • | • | required | No records have been kept at all |
| Graphic Air valve | | | | | | | |
| 0104-1 | Air Valve ID | • | • | • | • | required | |
| 0104-2 | Networks | • | • | • | • | required | |
| 0104-3 | Systems | • | • | • | • | required | |
| 0104-4 | Air Valve size | • | • | • | • | required | |
| 0104-5 | Date of Installation | • | • | • | • | required | |
| 0104-6 | Last maintenance Date | • | • | • | • | required | No records have been kept at all |
| 0104-7 | Air Valve Notes | • | • | • | • | required | |
| Graphic Water pipe bridge | | | | | | | |
| 0105-1 | ID | • | • | • | • | required | |
| 0105-2 | Length | • | • | • | • | required | |
| 0105-3 | Pipe material | • | • | • | • | required | |
| 0105-4 | Last maintenance Date | • | • | • | • | required | |
| 0105-5 | Bridge Name | • | • | • | • | required | |
| 0105-6 | Bridge material | • | • | • | • | required | |
| Graphic Sewer Manholes | | | | | | | |
| 0106-1 | Sequential number | • | • | • | • | required | |
| 0106-2 | Distribution System number | • | • | • | • | required | |
| 0106-3 | Distribution System name | • | • | • | • | required | |
| 0106-4 | Distribution System location | • | • | • | • | required | |
| 0106-5 | Distribution System code | • | • | • | • | required | |
| 0106-6 | SSYSAC | • | • | • | • | required | |
| 0106-7 | SSYSLINENO | • | • | • | • | required | |
| 0106-8 | SMH number | • | • | • | • | required | |
| 0106-9 | SMH type | • | • | • | • | required | |
| 0106-10 | SMH II | • | • | • | • | required | |
| 0106-11 | SMH RI | • | • | • | • | required | |
| 0106-12 | SMH size | • | • | • | • | required | |
| 0106-13 | SMH date | • | • | • | • | required | |
| Graphic Sewer Pipelans | | | | | | | |
| 0107-1 | Sequential number | • | • | • | • | required | |
| 0107-2 | Distribution System number | • | • | • | • | required | |
| 0107-3 | Distribution System name | • | • | • | • | required | |
| 0107-4 | Distribution System location | • | • | • | • | required | |
| 0107-5 | Distribution System code | • | • | • | • | required | |
| 0107-6 | SSYSAC | • | • | • | • | required | |
| 0107-7 | SSYSLINENO | • | • | • | • | required | |
| 0107-8 | SP_NO | • | • | • | • | required | |
| 0107-9 | Sewer Pipe Length | • | • | • | • | required | |
| 0107-10 | SP_SIL | • | • | • | • | required | |
| 0107-11 | SP_HLL | • | • | • | • | required | |

Mbaranamba Input item of GIS

| No. | GIS subject | Progress of Database | | | | Frequency of update(*) | Remarks |
|---|---|----------------------|---------|---------|---------|------------------------|---------|
| | | Updated | Ongoing | Not yet | No data | | |
| 1. Distribution Facility information | | | | | | | |
| 0101-12 | SP_AC/V | • | • | • | • | required | |
| 0101-13 | Sewer Pipe diameters | • | • | • | • | required | |
| 0101-14 | SP_TYPE | • | • | • | • | required | |
| 0101-15 | SP_MAKE | • | • | • | • | required | |
| 0101-16 | SP_DATE | • | • | • | • | required | |
| 0101-17 | SP_LOPE | • | • | • | • | required | |
| 0101-18 | SP_CONNO | • | • | • | • | required | |
| 0101-19 | SP_CONNEC | • | • | • | • | required | |
| 0101-20 | SP_LINK | • | • | • | • | required | |
| Graphic Leakage location | | | | | | | |
| 0201-1 | ID | • | • | • | • | Daily | |
| 0201-2 | Leakage Type | • | • | • | • | Daily | |
| 0201-3 | Status of Leak | • | • | • | • | Daily | |
| 0201-4 | Location | • | • | • | • | Daily | |
| 0201-5 | Condition | • | • | • | • | Daily | |
| 0201-6 | Asset type | • | • | • | • | required | |
| 0201-7 | Asset Size | • | • | • | • | required | |
| 0201-8 | Asset Material | • | • | • | • | required | |
| 0201-9 | Date of survey | • | • | • | • | Daily | |
| Graphic Flow meters | | | | | | | |
| 0301-1 | ID | • | • | • | • | required | |
| 0301-2 | Networks | • | • | • | • | required | |
| 0301-3 | Systems | • | • | • | • | required | |
| 0301-4 | Location | • | • | • | • | required | |
| 0301-5 | Size | • | • | • | • | required | |
| 0301-6 | Date of Installation | • | • | • | • | required | |
| 0301-7 | Last maintenance Date | • | • | • | • | required | |
| 0301-8 | Logging | • | • | • | • | required | |
| 0301-9 | Flow meter Notes | • | • | • | • | required | |
| Graphic Feeder pipes (service pipes) | | | | | | | |
| 0302-1 | PipeID | • | • | • | • | required | |
| 0302-2 | Pipe material | • | • | • | • | required | |
| 0302-3 | Pipe size | • | • | • | • | required | |
| Graphic Water meter | | | | | | | |
| 0303-1 | HouseID | • | • | • | • | Daily | |
| 0303-2 | Customer's Name | • | • | • | • | Daily | |
| 0303-3 | MeterID | • | • | • | • | Daily | |
| 0303-4 | Status of Meter (whether working, buried etc) | • | • | • | • | required | |
| 0303-5 | Manufacturer | • | • | • | • | required | |
| 0303-6 | Size of Meter | • | • | • | • | required | |
| 0303-7 | Date of Installation | • | • | • | • | required | |
| 0303-8 | Last Number | • | • | • | • | required | |
| 0303-9 | Comments | • | • | • | • | required | |
| 2. Water Source information | | | | | | | |
| Graphic Bore hole | | | | | | | |
| 0401-1 | Borehole ID | • | • | • | • | required | |
| 0401-2 | Borehole Type | • | • | • | • | required | |
| 0401-3 | Well Depth(m) | • | • | • | • | required | |
| 0401-4 | Head | • | • | • | • | required | |
| 0401-5 | Head Max | • | • | • | • | required | |
| 0401-6 | Pump ID | • | • | • | • | required | |
| 0401-7 | Location | • | • | • | • | required | |
| 0401-8 | Manufacture | • | • | • | • | required | |
| 0401-9 | Serial No | • | • | • | • | required | |
| 0401-10 | Flow Rate | • | • | • | • | required | |
| 0401-11 | Static Water Level | • | • | • | • | required | |
| 0401-12 | Dynamic Water Level | • | • | • | • | required | |
| 0401-13 | Date of Pump Installed | • | • | • | • | required | |
| 0401-14 | Date of last maintenance | • | • | • | • | required | |
| 0401-15 | Age | • | • | • | • | required | |
| 0401-16 | Status | • | • | • | • | required | |
| 3. Pump Station information | | | | | | | |
| Graphic Pump station | | | | | | | |
| 0402-1 | Station ID | • | • | • | • | required | |
| 0402-2 | Line name | • | • | • | • | required | |
| 0402-3 | Station type | • | • | • | • | required | |
| 0402-4 | Location | • | • | • | • | required | |
| 0402-5 | Age | • | • | • | • | required | |
| 0402-6 | Status | • | • | • | • | required | |
| 0402-7 | Power Usage (KWh) | • | • | • | • | required | |
| 0402-8 | Number of runs | • | • | • | • | required | |
| 4. Service reservoir information | | | | | | | |
| Graphic Service reservoir | | | | | | | |
| 0403-1 | Service reservoir name | • | • | • | • | required | |
| 0403-2 | Structure of service reservoir | • | • | • | • | required | |
| 0403-3 | Elevation of service reservoir | • | • | • | • | required | |
| 0403-4 | Capacity of service reservoir | • | • | • | • | required | |
| 0403-5 | H.W.L. / L.W.L | • | • | • | • | required | |
| 0403-6 | Date of last maintenance | • | • | • | • | required | |
| Graphic Distribution area of source | | | | | | | |
| 0404-1 | Area name | • | • | • | • | required | |

Mbaranamba Input item of GIS

| No. | GIS subject | Progress of Database | | | | Frequency of update(*) | Remarks |
|---|--------------------------|----------------------|---------|---------|---------|------------------------|---------|
| | | Updated | Ongoing | Not yet | No data | | |
| 6. Other informations | | | | | | | |
| Graphic Water quality (One-Spotur observation) | | | | | | | |
| 0405-1 | Water Quality Point No. | • | • | • | • | Daily / Monthly | |
| 0405-2 | Location Name | • | • | • | • | Daily / Monthly | |
| 0405-3 | Date of Survey | • | • | • | • | Daily / Monthly | |
| 0405-4 | Source name | • | • | • | • | Daily / Monthly | |
| 0405-5 | Source Type | • | • | • | • | Daily / Monthly | |
| 0405-6 | Settlement condition | • | • | • | • | Daily / Monthly | |
| 0405-7 | Settlement area(Hectare) | • | • | • | • | Daily / Monthly | |
| 0405-8 | Flow Rate (L/s) | • | • | • | • | Daily / Monthly | |
| 0405-9 | Chlorine Demand (mg/10L) | • | • | • | • | Daily / Monthly | |
| 0405-10 | Residence (mg/L) | • | • | • | • | Daily / Monthly | |
| 0405-11 | Turbidity (NTU) | • | • | • | • | Daily / Monthly | |
| 7. Customer's information | | | | | | | |
| 0405-12 | Customer ID | • | • | • | • | Daily | |
| 0405-13 | Customer's name | • | • | • | • | Daily | |
| 0405-14 | House ID | • | • | • | • | Daily | |
| 0405-15 | Type Of Account | • | • | • | • | Daily | |
| 0405-16 | Boundary of plot (land) | • | • | • | • | required | |
| 0405-17 | Customer's status | • | • | • | • | Daily | |

*1 : The term of "Required" indicates the regular update work.
 For example, such as "updating" if the information clients accommodate +
 Since it is an ambiguous definition, SW and IICA expert team will discuss and decide clearly from now on.
 And it will indicate by an operation manual

Mbuva Valley Input item of GIS

| No. | GIS subject | Progress of Database | | | | Frequency of update(*) | Remarks |
|---|-------------|----------------------|---------|---------|---------|------------------------|---------|
| | | Updated | Ongoing | Not yet | No data | | |
| 1. Distribution Facility information | | | | | | | |
| Graphic Water distribution pipes | | | | | | | |
| 0101-1 | Pipe ID | • | • | • | • | required | |
| 0101-2 | Networks | • | • | • | • | required | |
| 0 | | | | | | | |

Mbuva Valley Input item of GIS

| No. | GIS subject | Progress of Database | | | | Frequency of update(*) | Remarks |
|---|---|----------------------|---------|---------|----------|------------------------|---------|
| | | Updated | Ongoing | Not yet | No data | | |
| 0101-1 | SP_AC/V | | | | required | | |
| 0101-13 | Sewer Pipe diameters | | | | required | | |
| 0101-14 | SP_TYPE | | | | required | | |
| 0101-15 | SP_MAKE | | | | required | | |
| 0101-16 | SP_DATE | | | | required | | |
| 0101-17 | SP_SLOPE | | | | required | | |
| 0101-18 | SP_CONNO | | | | required | | |
| 0101-19 | SP_CONNEC | | | | required | | |
| 0101-20 | SP_LINK | | | | required | | |
| 020 | Graphic: Leakage location | | | | Daily | | |
| 0201-1 | ID | | | | Daily | | |
| 0201-2 | Leakage Type | | | | Daily | | |
| 0201-3 | Status of Leak | | | | Daily | | |
| 0201-4 | Location | | | | Daily | | |
| 0201-5 | Condition | | | | Daily | | |
| 0201-6 | Asset type | | | | required | | |
| 0201-7 | Asset Size | | | | required | | |
| 0201-8 | Asset Material | | | | required | | |
| 0201-9 | Date of survey | | | | Daily | | |
| 030 | Graphic: Flow meters | | | | required | | |
| 0301-1 | ID | | | | required | | |
| 0301-2 | Networks | | | | required | | |
| 0301-3 | Systems | | | | required | | |
| 0301-4 | Location | | | | required | | |
| 0301-5 | Size | | | | required | | |
| 0301-6 | Date of installation | | | | required | | |
| 0301-7 | Last maintenance Date | | | | required | | |
| 0301-8 | Logging | | | | required | | |
| 0301-9 | Flow meter Notes | | | | required | | |
| 030 | Graphic: Feeder pipes (service pipes) | | | | required | | |
| 0301-1 | PipeID | | | | required | | |
| 0301-2 | Pipe material | | | | required | | |
| 0301-3 | Pipe size | | | | required | | |
| 030 | Graphic: Water meter | | | | Daily | | |
| 0301-1 | FlowID | | | | Daily | | |
| 0301-2 | Customer's Name | | | | Daily | | |
| 0301-3 | MeterID | | | | Daily | | |
| 0301-4 | Status of Meter (whether working, burred etc) | | | | Daily | | |
| 0301-5 | Manufacturer | | | | Daily | | |
| 0301-6 | Size of Meter | | | | Daily | | |
| 0301-7 | Date of installation | | | | Daily | | |
| 0301-8 | Lot Number | | | | Daily | | |
| 0301-9 | Comments | | | | Daily | | |
| 2. Water Source information | | | | | | | |
| 040 | Graphic: Bore hole | | | | required | | |
| 0401-1 | Borehole ID | | | | - | | |
| 0401-2 | Borehole Type | | | | - | | |
| 0401-3 | Well depth(m) | | | | required | | |
| 0401-4 | Head | | | | - | | |
| 0401-5 | Head Max | | | | - | | |
| 0401-6 | Pump ID | | | | - | | |
| 0401-7 | Location | | | | required | | |
| 0401-8 | Manufacture | | | | - | | |
| 0401-9 | Serial No | | | | - | | |
| 0401-10 | Flow Rate | | | | required | | |
| 0401-11 | Static Water Level | | | | required | | |
| 0401-12 | Dynamic Water Level | | | | required | | |
| 0401-13 | Date of Pump Installed | | | | required | | |
| 0401-14 | Date of last maintenance | | | | required | | |
| 0401-15 | Age | | | | required | | |
| 0401-16 | Status | | | | required | | |
| 3. Pump Station information | | | | | | | |
| 040 | Graphic: Pump station | | | | required | | |
| 0401-1 | Station ID | | | | required | | |
| 0401-2 | Unit name | | | | required | | |
| 0401-3 | Station type | | | | required | | |
| 0401-4 | Location | | | | required | | |
| 0401-5 | Age | | | | required | | |
| 0401-6 | Status | | | | required | | |
| 0401-7 | Power Usage (KWH) | | | | required | | |
| 0401-8 | Number of runs | | | | required | | |
| 4. Service reservoir information | | | | | | | |
| 040 | Graphic: Service reservoir | | | | required | | |
| 0401-1 | Service reservoir name | | | | - | | |
| 0401-2 | Structure of service reservoir | | | | - | | |
| 0401-3 | Elevation of service reservoir | | | | required | | |
| 0401-4 | Capacity of service reservoir | | | | required | | |
| 0401-5 | H.W.L., L.W.L. | | | | required | | |
| 0401-6 | Date of last maintenance | | | | required | | |
| 040 | Graphic: Distribution area of source | | | | required | | |
| 0401-1 | Area name | | | | required | | |

Mbuva Valley Input item of GIS

| No. | GIS subject | Progress of Database | | | | Frequency of update(*) | Remarks |
|----------------------------------|---|----------------------|---------|---------|-----------------|------------------------|---------|
| | | Updated | Ongoing | Not yet | No data | | |
| 6. Other informations | | | | | | | |
| 040 | Graphic: Water quality (Free-point observation) | | | | required | | |
| 0401-1 | Water Quality Point No | | | | Daily / Monthly | | |
| 0401-2 | Location Name | | | | Daily / Monthly | | |
| 0401-3 | Date of Survey | | | | Daily / Monthly | | |
| 0401-4 | Source name | | | | Daily / Monthly | | |
| 0401-5 | Source Type | | | | Daily / Monthly | | |
| 0401-6 | Calculation condition | | | | Daily / Monthly | | |
| 0401-7 | Calculation area (hectares) | | | | Daily / Monthly | | |
| 0401-8 | Flow Rate (L/s) | | | | Daily / Monthly | | |
| 0401-9 | Chlorine Demand (mg/10L) | | | | Daily / Monthly | | |
| 0401-10 | Hardness (mg/L) | | | | Daily / Monthly | | |
| 0401-11 | Turbidity (NTU) | | | | Daily / Monthly | | |
| 5. Customer's information | | | | | | | |
| 050 | Graphic: Customer ID | | | | required | | |
| 0501-1 | Customer's name | | | | Daily | | |
| 0501-2 | House ID | | | | Daily | | |
| 0501-3 | Type Of Account | | | | Daily | | |
| 0501-4 | Boundary of plot (road) | | | | required | | |
| 0501-5 | Customer's status | | | | Daily | | |

*1: The term of 'Required' indicates the irregular update work.
For example, such as 'updating, if ten information sheets accumulated'.
Since it is an ambiguous definition, SW and ICA expert team will discuss and decide clearly from now on.
And it will indicate by an operation manual.

Bahai Kukum Input item of GIS

| No. | GIS subject | Progress of Database | | | | Frequency of update(*) | Remarks |
|---|--------------------------------------|----------------------|---------|---------|----------|----------------------------------|---------|
| | | Updated | Ongoing | Not yet | No data | | |
| 1. Distribution Facility information | | | | | | | |
| 010 | Graphic: Water distribution pipes | | | | required | | |
| 0101-1 | Pipe ID | | | | required | | |
| 0101-2 | Networks | | | | required | | |
| 0101-3 | Systems | | | | required | | |
| 0101-4 | Pipe material | | | | required | | |
| 0101-5 | Pipe diameters | | | | required | | |
| 0101-6 | Pipe length | | | | required | | |
| 0101-7 | Pipe Depth | | | | required | | |
| 0101-8 | Pipe Use | | | | required | | |
| 0101-9 | Completion year | | | | required | No records have been kept at all | |
| 0101-10 | Date of last maintenance | | | | required | No records have been kept at all | |
| 0101-11 | Date of Replacement / Rehabilitation | | | | required | No records have been kept at all | |
| 0101-12 | Date of Repairing | | | | required | No records have been kept at all | |
| 0101-13 | Date of Leakage detection | | | | required | No records have been kept at all | |
| 0101-14 | Pipe Notes | | | | required | | |
| 010 | Graphic: Sluice valve (gate valve) | | | | required | | |
| 0101-1 | Valve ID | | | | required | | |
| 0101-2 | Networks | | | | required | | |
| 0101-3 | Systems | | | | required | | |
| 0101-4 | Valve material | | | | required | | |
| 0101-5 | Valve size | | | | required | | |
| 0101-6 | Depth | | | | required | | |
| 0101-7 | Direction of turn | | | | required | | |
| 0101-8 | Valve status | | | | required | | |
| 0101-9 | Date of installation | | | | required | | |
| 0101-10 | Date of last maintenance | | | | required | | |
| 0101-11 | Valve Notes | | | | required | | |
| 010 | Graphic: Hydrant | | | | required | | |
| 0101-1 | Hydrant ID | | | | required | | |
| 0101-2 | Networks | | | | required | | |
| 0101-3 | Systems | | | | required | | |
| 0101-4 | Hydrant type | | | | required | | |
| 0101-5 | Hydrant diameters | | | | required | | |
| 0101-6 | Date of installation | | | | required | | |
| 0101-7 | Last maintenance Date | | | | required | | |
| 0101-8 | Hydrant Notes | | | | required | | |
| 010 | Graphic: Air valve | | | | required | | |
| 0101-1 | Air Valve ID | | | | required | | |
| 0101-2 | Networks | | | | required | | |
| 0101-3 | Systems | | | | required | | |
| 0101-4 | Air Valve size | | | | required | | |
| 0101-5 | Date of installation | | | | required | | |
| 0101-6 | Last maintenance Date | | | | required | No records have been kept at all | |
| 0101-7 | Air Valve Notes | | | | required | | |
| 010 | Graphic: Water pipe bridge | | | | required | | |
| 0101-1 | ID | | | | required | | |
| 0101-2 | Length | | | | required | | |
| 0101-3 | Pipe material | | | | required | | |
| 0101-4 | Last maintenance Date | | | | required | | |
| 0101-5 | Bridge Name | | | | - | | |
| 0101-6 | Bridge material | | | | - | | |
| 010 | Graphic: Sewer Manholes | | | | required | | |
| 0101-1 | Sequential number | | | | required | | |
| 0101-2 | Distribution System number | | | | required | | |
| 0101-3 | Distribution System name | | | | required | | |
| 0101-4 | Distribution System location | | | | required | | |
| 0101-5 | Distribution System code | | | | required | | |
| 0101-6 | SSYSAC | | | | required | | |
| 0101-7 | SSYSINENO | | | | required | | |
| 0101-8 | SBH number | | | | required | | |
| 0101-9 | SBH type | | | | required | | |
| 0101-10 | SBH IL | | | | required | | |
| 0101-11 | SBH RL | | | | required | | |
| 0101-12 | SBH size | | | | required | | |
| 0101-13 | SBH date | | | | required | | |
| 010 | Graphic: Sewer Pipelines | | | | required | | |
| 0101-1 | Sequential number | | | | required | | |
| 0101-2 | Distribution System number | | | | required | | |
| 0101-3 | Distribution System name | | | | required | | |
| 0101-4 | Distribution System location | | | | required | | |
| 0101-5 | Distribution System code | | | | required | | |
| 0101-6 | SSYSAC | | | | required | | |
| 0101-7 | SSYSINENO | | | | required | | |
| 0101-8 | SP NO | | | | required | | |
| 0101-9 | Sewer Pipe Length | | | | required | | |
| 0101-10 | SP SLL | | | | required | | |
| 0101-11 | SP SLL | | | | required | | |

Bahai Kukum Input item of GIS

| No. | GIS subject | Progress of Database | | | | Frequency of update(*) | Remarks |
|---------|---------------------------------------|----------------------|---------|---------|----------|------------------------|---------|
| | | Updated | Ongoing | Not yet | No data | | |
| 0101-12 | SP_AC/V | | | | required | | |
| 0101-13 | Sewer Pipe diameters | | | | required | | |
| 0101-14 | SP_TYPE | | | | required | | |
| 0101-15 | SP_MAKE | | | | required | | |
| 0101-16 | SP_DATE | | | | required | | |
| 0101-17 | SP_SLOPE | | | | required | | |
| 0101-18 | SP_CONNO | | | | required | | |
| 0101-19 | SP_CONNEC | | | | required | | |
| 0101-20 | SP_LINK | | | | required | | |
| 020 | Graphic: Leakage location | | | | Daily | | |
| 0201-1 | ID | | | | Daily | | |
| 0201-2 | Leakage Type | | | | Daily | | |
| 0201-3 | Status of Leak | | | | Daily | | |
| 0201-4 | Location | | | | Daily | | |
| 0201-5 | Condition | | | | Daily | | |
| 0201-6 | Asset type | | | | required | | |
| 0201-7 | Asset Size | | | | required | | |
| 0201-8 | Asset Material | | | | required | | |
| 0201-9 | Date of survey | | | | Daily | | |
| 030 | Graphic: Flow meters | | | | required | | |
| 0301-1 | ID | | | | required | | |
| 0301-2 | Networks | | | | required | | |
| 0301-3 | Systems | | | | required | | |
| 0301-4 | Location | | | | required | | |
| 0301-5 | Size | | | | required | | |
| 0301-6 | Date of installation | | | | required | | |
| 0301-7 | Last maintenance Date | | | | required | | |
| 0301-8 | Logging | | | | required | | |
| 0301-9 | Flow meter Notes | | | | required | | |
| 030 | Graphic: Feeder pipes (service pipes) | | | | required | | |
| 0301-1 | PipeID | | | | required | | |
| 0301-2 | Pipe material | | | | required | | |
| 0301-3 | Pipe size | | | | required | | |
| 030 | Graphic: Water meter | | | | | | |

Bahai Kukum Input item of GIS

| No. | GIS subject | Progress of Database | | | | Frequency of update(*) | Remarks |
|----------------------------------|---|----------------------|---------|---------|---------|------------------------|---------|
| | | Updated | Ongoing | Not yet | No data | | |
| 6. Other informations | | | | | | | |
| 0400 | Graphs Water quality (Free-point observation) | | | • | • | Daily / Monthly | |
| | 0400-1 Water Quality Point No. | | | • | • | Daily / Monthly | |
| | 0400-2 Location Name | | | • | • | Daily / Monthly | |
| | 0400-3 Date of Survey | | | • | • | Daily / Monthly | |
| | 0400-4 Source name | | | • | • | Daily / Monthly | |
| | 0400-5 Source Type | | | • | • | Daily / Monthly | |
| | 0400-6 Catchment condition | | | • | • | Daily / Monthly | |
| | 0400-7 Catchment area(hectares) | | | • | • | Daily / Monthly | |
| | 0400-8 Flow Rate (L/s) | | | • | • | Daily / Monthly | |
| | 0400-9 Chlorine Demand (mg/10L) | | | • | • | Daily / Monthly | |
| | 0400-10 Hardness (mg/L) | | | • | • | Daily / Monthly | |
| | 0400-11 Turbidity (NTU) | | | • | • | Daily / Monthly | |
| 5. Customer's information | | | | | | | |
| 050 | 0405-1 Customer ID | | • | | | Daily | |
| | 0405-2 Customer's name | | • | | | Daily | |
| | 0405-3 House ID | | | • | | Daily | |
| | 0405-4 Type Of Account | | | • | | Daily | |
| | 0405-5 Boundary of plot (hard) | | | • | | required | |
| | 0405-6 Customer's status | | | • | | Daily | |

*1: The term of "Required" indicates the regular update work.

For example, such as "updating, if ten information sheets accumulate".

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And it will indicate by an operation manual.

Panatina Valley Input item of GIS

| No. | GIS subject | Progress of Database | | | | Frequency of update(*) | Remarks |
|---|--|----------------------|---------|---------|---------|------------------------|----------------------------------|
| | | Updated | Ongoing | Not yet | No data | | |
| 1. Distribution Facility information | | | | | | | |
| 010 | Graphs Water distribution pipes | | | • | • | required | |
| | 0100-1 Pipe ID | | | • | • | required | |
| | 0100-2 Networks | | | • | • | required | |
| | 0100-3 Systems | | | • | • | required | |
| | 0100-4 Pipe material | | | • | • | required | |
| | 0100-5 Pipe diameters | | | • | • | required | |
| | 0100-6 Pipe length | | | • | • | required | |
| | 0100-7 Pipe Depth | | | • | • | required | |
| | 0100-8 Pipe Line | | | • | • | required | |
| | 0100-9 Completion year | | | • | • | required | No records have been kept at all |
| | 0100-10 Date of last maintenance | | | • | • | required | No records have been kept at all |
| | 0100-11 Date of Enhancement / Rehabilitation | | | • | • | required | No records have been kept at all |
| | 0100-12 Date of Rejoining | | | • | • | required | No records have been kept at all |
| | 0100-13 Date of Leakage detection | | | • | • | required | |
| | 0100-14 Pipe Notes | | | • | • | required | |
| 010 | Graphs Shave valve (gate valve) | | | • | • | required | |
| | 0100-1 Valve ID | | | • | • | required | |
| | 0100-2 Networks | | | • | • | required | |
| | 0100-3 Systems | | | • | • | required | |
| | 0100-4 Valve material | | | • | • | required | |
| | 0100-5 Valve size | | | • | • | required | |
| | 0100-6 Depth | | | • | • | required | |
| | 0100-7 Direction of turn | | | • | • | required | |
| | 0100-8 Valve status | | | • | • | required | |
| | 0100-9 Date of Installation | | | • | • | required | |
| | 0100-10 Date of last maintenance | | | • | • | required | |
| | 0100-11 Valve Notes | | | • | • | required | |
| 010 | Graphs Hydrant | | | • | • | required | |
| | 0100-1 Hydrant ID | | | • | • | required | |
| | 0100-2 Networks | | | • | • | required | |
| | 0100-3 Systems | | | • | • | required | |
| | 0100-4 Hydrant type | | | • | • | required | |
| | 0100-5 Hydrant diameters | | | • | • | required | |
| | 0100-6 Date of Installation | | | • | • | required | |
| | 0100-7 Last maintenance Date | | | • | • | required | No records have been kept at all |
| | 0100-8 Hydrant Notes | | | • | • | required | |
| 010 | Graphs Air valve | | | • | • | required | |
| | 0100-1 Air Valve ID | | | • | • | required | |
| | 0100-2 Networks | | | • | • | required | |
| | 0100-3 Systems | | | • | • | required | |
| | 0100-4 Air Valve size | | | • | • | required | |
| | 0100-5 Date of Installation | | | • | • | required | |
| | 0100-6 Last maintenance Date | | | • | • | required | No records have been kept at all |
| | 0100-7 Air Valve Notes | | | • | • | required | |
| 010 | Graphs Water pipe breaks | | | • | • | required | |
| | 0100-1 ID | | | • | • | required | |
| | 0100-2 Length | | | • | • | required | |
| | 0100-3 Pipe material | | | • | • | required | |
| | 0100-4 Last maintenance Date | | | • | • | required | |
| | 0100-5 Bridge Name | | | • | • | required | |
| | 0100-6 Bridge material | | | • | • | required | |
| 010 | Graphs Sewer Markoles | | | • | • | required | |
| | 0100-1 Sequential number | | | • | • | required | |
| | 0100-2 Distribution System number | | | • | • | required | |
| | 0100-3 Distribution System name | | | • | • | required | |
| | 0100-4 Distribution System location | | | • | • | required | |
| | 0100-5 Distribution System code | | | • | • | required | |
| | 0100-6 SSSYSAC | | | • | • | required | |
| | 0100-7 SSSYLINENO | | | • | • | required | |
| | 0100-8 SSMAL number | | | • | • | required | |
| | 0100-9 SSMAL type | | | • | • | required | |
| | 0100-10 SSMAL IL | | | • | • | required | |
| | 0100-11 SSMAL RL | | | • | • | required | |
| | 0100-12 SSMAL size | | | • | • | required | |
| | 0100-13 SSMAL date | | | • | • | required | |
| 010 | Graphs Sewer Pipelines | | | • | • | required | |
| | 0100-1 Sequential number | | | • | • | required | |
| | 0100-2 Distribution System number | | | • | • | required | |
| | 0100-3 Distribution System name | | | • | • | required | |
| | 0100-4 Distribution System location | | | • | • | required | |
| | 0100-5 Distribution System code | | | • | • | required | |
| | 0100-6 SSSYSAC | | | • | • | required | |
| | 0100-7 SSSYLINENO | | | • | • | required | |
| | 0100-8 SP_2NO | | | • | • | required | |
| | 0100-9 Sewer Pipe Length | | | • | • | required | |
| | 0100-10 SP_SIL | | | • | • | required | |
| | 0100-11 SP_SIL | | | • | • | required | |

*1: The term of "Required" indicates the regular update work.

For example, such as "updating, if ten information sheets accumulate".

Since it is an ambiguous definition, SW and ICA expert team will discuss and decide clearly from now on.

And it will indicate by an operation manual.

Panatina Valley Input item of GIS

| No. | GIS subject | Progress of Database | | | | Frequency of update(*) | Remarks |
|---|--|----------------------|---------|---------|---------|------------------------|---------|
| | | Updated | Ongoing | Not yet | No data | | |
| 0107-1 | SP_ACV | | | • | • | required | |
| 0107-2 | Sewer Pipe diameters | | | • | • | required | |
| 0107-3 | SP_TYPE | | | • | • | required | |
| 0107-4 | SP_MARK | | | • | • | required | |
| 0107-5 | SP_DATE | | | • | • | required | |
| 0107-6 | SP_SLOPE | | | • | • | required | |
| 0107-7 | SP_DEPTH | | | • | • | required | |
| 0107-8 | SP_CONNO | | | • | • | required | |
| 0107-9 | SP_CONNSEC | | | • | • | required | |
| 0107-10 | SP_LINK | | | • | • | required | |
| 020 | Graphs Leakage location | | | • | • | required | |
| | 0200-1 ID | | | • | • | required | |
| | 0200-2 Leakage Type | | | • | • | required | |
| | 0200-3 Status of Leak | | | • | • | required | |
| | 0200-4 Location | | | • | • | required | |
| | 0200-5 Condition | | | • | • | required | |
| | 0200-6 Asset type | | | • | • | required | |
| | 0200-7 Asset Size | | | • | • | required | |
| | 0200-8 Asset Material | | | • | • | required | |
| | 0200-9 Date of survey | | | • | • | required | |
| 030 | Graphs Flow meters | | | • | • | required | |
| | 0300-1 ID | | | • | • | required | |
| | 0300-2 Networks | | | • | • | required | |
| | 0300-3 Systems | | | • | • | required | |
| | 0300-4 Location | | | • | • | required | |
| | 0300-5 Size | | | • | • | required | |
| | 0300-6 Date of Installation | | | • | • | required | |
| | 0300-7 Last maintenance Date | | | • | • | required | |
| | 0300-8 Logging | | | • | • | required | |
| | 0300-9 Flow meter Notes | | | • | • | required | |
| 030 | Graphs Feeder pipes (service pipes) | | | • | • | required | |
| | 0300-1 PipeID | | | • | • | required | |
| | 0300-2 Pipe material | | | • | • | required | |
| | 0300-3 Pipe size | | | • | • | required | |
| | 0300-4 Water meter | | | • | • | required | |
| | 0300-5 HouseID | | | • | • | required | |
| | 0300-6 Customer's Name | | | • | • | required | |
| | 0300-7 MeterID | | | • | • | required | |
| | 0300-8 Status of Meter (whether working, biased etc) | | | • | • | required | |
| | 0300-9 Manufacturer | | | • | • | required | |
| | 0300-10 Size of Meter | | | • | • | required | |
| | 0300-11 Date of Installation | | | • | • | required | |
| | 0300-12 Lot Number | | | • | • | required | |
| | 0300-13 Comments | | | • | • | required | |
| 2. Water Source information | | | | | | | |
| 040 | Graphs Bore holes | | | • | • | required | |
| | 0400-1 Borehole ID | | | • | • | required | |
| | 0400-2 Borehole Type | | | • | • | required | |
| | 0400-3 Well depth(m) | | | • | • | required | |
| | 0400-4 Head | | | • | • | required | |
| | 0400-5 Head Max | | | • | • | required | |
| | 0400-6 Pump ID | | | • | • | required | |
| | 0400-7 Location | | | • | • | required | |
| | 0400-8 Manufacturer | | | • | • | required | |
| | 0400-9 Serial No | | | • | • | required | |
| | 0400-10 Flow Rate | | | • | • | required | |
| | 0400-11 Static Water Level | | | • | • | required | |
| | 0400-12 Dynamic Water Level | | | • | • | required | |
| | 0400-13 Date of Pump Installed | | | • | • | required | |
| | 0400-14 Date of last maintenance | | | • | • | required | |
| | 0400-15 Age | | | • | • | required | |
| | 0400-16 Status | | | • | • | required | |
| 3. Pump Station information | | | | | | | |
| 040 | Graphs Pump station | | | • | • | required | |
| | 0400-1 Station ID | | | • | • | required | |
| | 0400-2 Unit name | | | • | • | required | |
| | 0400-3 Station type | | | • | • | required | |
| | 0400-4 Location | | | • | • | required | |
| | 0400-5 Age | | | • | • | required | |
| | 0400-6 Status | | | • | • | required | |
| | 0400-7 Power Usage (KWh) | | | • | • | required | |
| | 0400-8 Number of pump | | | • | • | required | |
| 4. Service reservoir information | | | | | | | |
| 040 | Graphs Service reservoir | | | • | • | required | |
| | 0400-1 Service reservoir name | | | • | • | required | |
| | 0400-2 Structure of service reservoir | | | • | • | required | |
| | 0400-3 Elevation of service reservoir | | | • | • | required | |
| | 0400-4 Capacity of service reservoir | | | • | • | required | |
| | 0400-5 H.W.L., L.W.L. | | | • | • | required | |
| | 0400-6 Date of last maintenance | | | • | • | required | |
| 040 | Graphs Distribution area of source | | | • | • | required | |
| | 0400-1 Area name | | | • | • | required | |

Naha2 Input item of GIS

| No. | GIS subject | Progress of Database | | | | Frequency of update(*) | Remarks |
|---|-----------------------|--------------------------------------|---------|---------|----------|------------------------|----------------------------------|
| | | Updated | Ongoing | Not yet | No data | | |
| 1. Distribution Facility information | | | | | | | |
| 0101 | 0101-1 | Water distribution pipes | ● | | | required | |
| | 0101-2 | Pipe ID | ● | ● | | required | |
| | 0101-3 | Networks | ● | | | required | |
| | 0101-4 | Systems | ● | | | required | |
| | 0101-5 | Pipe material | ● | | | required | |
| | 0101-6 | Pipe diameters | ● | | | required | |
| | 0101-7 | Pipe length | ● | | | required | |
| | 0101-8 | Pipe Depth | ● | | | required | |
| | 0101-9 | Pipe Use | ● | | | required | |
| | 0101-10 | Completion year | ● | | | required | No records have been kept at all |
| | 0101-11 | Date of last maintenance | ● | | | required | No records have been kept at all |
| | 0101-12 | Date of Replacement / Rehabilitation | ● | | | required | No records have been kept at all |
| | 0101-13 | Date of Rejoining | ● | | | required | No records have been kept at all |
| | 0101-14 | Date of Leakage detection | ● | | | required | |
| 0101-15 | Pipe Notes | ● | | | required | | |
| 0102 | 0102-1 | Shut valve (gate valve) | ● | | | required | |
| | 0102-2 | Valve ID | ● | ● | | required | |
| | 0102-3 | Networks | ● | | | required | |
| | 0102-4 | Systems | ● | | | required | |
| | 0102-5 | Valve material | ● | | | required | |
| | 0102-6 | Valve size | ● | | | required | |
| | 0102-7 | Depth | ● | | | required | |
| | 0102-8 | Direction of turn | ● | | | required | |
| | 0102-9 | Valve status | ● | | | required | |
| | 0102-10 | Date of Installation | ● | | | required | |
| | 0102-11 | Date of last maintenance | ● | | | required | |
| | 0102-12 | Valve Notes | ● | | | required | |
| | 0102-13 | Hydrant | ● | | | required | |
| | 0102-14 | Hydrant ID | ● | | | required | |
| 0103 | 0103-1 | Networks | ● | | | required | |
| | 0103-2 | Systems | ● | | | required | |
| | 0103-3 | Hydrant type | ● | | | required | |
| | 0103-4 | Hydrant diameters | ● | | | required | |
| | 0103-5 | Date of Installation | ● | | | required | |
| | 0103-6 | Last maintenance Date | ● | | | required | |
| | 0103-7 | Hydrant Notes | ● | | | required | |
| | 0103-8 | Hydrant Notes | ● | | | required | |
| | 0103-9 | Air valve | ● | | | required | |
| | 0103-10 | Air Valve ID | ● | ● | | required | |
| | 0103-11 | Networks | ● | | | required | |
| | 0103-12 | Systems | ● | | | required | |
| | 0103-13 | Air Valve size | ● | | | required | |
| | 0103-14 | Date of Installation | ● | | | required | No records have been kept at all |
| 0103-15 | Last maintenance Date | ● | | | required | | |
| 0103-16 | Air Valve Notes | ● | | | required | | |
| 0104 | 0104-1 | Water pipe bridge | ● | | | required | |
| | 0104-2 | ID | ● | | | required | |
| | 0104-3 | Length | ● | | | required | |
| | 0104-4 | Pipe material | ● | | | required | |
| | 0104-5 | Last maintenance Date | ● | | | required | |
| | 0104-6 | Bridge Name | ● | | | required | |
| | 0104-7 | Bridge material | ● | | | required | |
| | 0104-8 | Sewer Manholes | ● | | | required | |
| | 0104-9 | Sequential number | ● | | | required | |
| | 0104-10 | Distribution System number | ● | | | required | |
| | 0104-11 | Distribution System name | ● | | | required | |
| | 0104-12 | Distribution System location | ● | | | required | |
| | 0104-13 | Distribution System code | ● | | | required | |
| | 0104-14 | SSYSAC | ● | | | required | |
| 0105 | 0105-1 | SSYSLENO | ● | | | required | |
| | 0105-2 | SMH number | ● | | | required | |
| | 0105-3 | SMH type | ● | | | required | |
| | 0105-4 | SMH_IL | ● | | | required | |
| | 0105-5 | SMH_RL | ● | | | required | |
| | 0105-6 | SMH_size | ● | | | required | |
| | 0105-7 | SMH_date | ● | | | required | |
| | 0105-8 | Sewer Pipelines | ● | | | required | |
| | 0105-9 | Sequential number | ● | | | required | |
| | 0105-10 | Distribution System number | ● | | | required | |
| | 0105-11 | Distribution System name | ● | | | required | |
| | 0105-12 | Distribution System location | ● | | | required | |
| | 0105-13 | Distribution System code | ● | | | required | |
| | 0105-14 | SSYSAC | ● | | | required | |
| 0106 | 0106-1 | SSYSLENO | ● | | | required | |
| | 0106-2 | SP_200 | ● | | | required | |
| | 0106-3 | Sewer Pipe Length | ● | | | required | |
| | 0106-4 | SP_SIL | ● | | | required | |
| | 0106-5 | SP_EIL | ● | | | required | |

Naha2 Input item of GIS

| No. | GIS subject | Progress of Database | | | | Frequency of update(*) | Remarks | |
|------------------------------------|---|---|---------------------------------|---------|----------|------------------------|----------|--|
| | | Updated | Ongoing | Not yet | No data | | | |
| 0201 | 0201-1 | SP_ACV | ● | | | required | | |
| | 0201-2 | Sewer Pipe diameters | ● | | | required | | |
| | 0201-3 | SP_TPE | ● | | | required | | |
| | 0201-4 | SP_MAKB | ● | | | required | | |
| | 0201-5 | SP_DATE | ● | | | required | | |
| | 0201-6 | SP_SLOPE | ● | | | required | | |
| | 0201-7 | SP_CONNO | ● | | | required | | |
| | 0201-8 | SP_CONNEC | ● | | | required | | |
| | 0201-9 | SP_PUNK | ● | | | required | | |
| | 0201-10 | Leakage location | ● | | | Daily | | |
| | 0201-11 | ID | ● | | | Daily | | |
| | 0201-12 | Leakage Type | ● | | | Daily | | |
| | 0201-13 | Status of Leak | ● | | | Daily | | |
| | 0201-14 | Location | ● | | | Daily | | |
| 0301 | 0301-1 | Condition | ● | | | Daily | | |
| | 0301-2 | Asset type | ● | | | required | | |
| | 0301-3 | Asset Size | ● | | | required | | |
| | 0301-4 | Asset Material | ● | | | required | | |
| | 0301-5 | Date of survey | ● | | | Daily | | |
| | 0301-6 | Flow meters | ● | | | required | | |
| | 0301-7 | ID | ● | | | required | | |
| | 0301-8 | Networks | ● | | | required | | |
| | 0301-9 | Systems | ● | | | required | | |
| | 0301-10 | Location | ● | | | required | | |
| | 0301-11 | Size | ● | | | required | | |
| | 0301-12 | Date of Installation | ● | | | required | | |
| | 0301-13 | Last maintenance Date | ● | | | required | | |
| | 0301-14 | Logging | ● | | | required | | |
| 0302 | 0302-1 | Flow meter Notes | ● | | | required | | |
| | 0302-2 | Feeder pipes (service pipes) | ● | | | required | | |
| | 0302-3 | PipeID | ● | | | required | | |
| | 0302-4 | Pipe material | ● | | | required | | |
| | 0302-5 | Pipe size | ● | | | required | | |
| | 0302-6 | Water meter | ● | | | Daily | | |
| | 0302-7 | HouseID | ● | | | Daily | | |
| | 0302-8 | Customer's Name | ● | | | Daily | | |
| | 0302-9 | MeterID | ● | | | Daily | | |
| | 0302-10 | Status of Meter (whether working, buried etc) | ● | | | required | | |
| | 0302-11 | Manufacturer | ● | | | required | | |
| | 0302-12 | Size of Meter | ● | | | required | | |
| | 0302-13 | Date of Installation | ● | | | required | | |
| | 0302-14 | Lot Number | ● | | | required | | |
| 0302-15 | Comments | ● | | | required | | | |
| 2. Water Source information | | | | | | | | |
| 0401 | 0401-1 | Borehole ID | ● | | | required | | |
| | 0401-2 | Borehole Type | ● | | | required | | |
| | 0401-3 | Well depth(m) | ● | | | required | | |
| | 0401-4 | Head | ● | | | required | | |
| | 0401-5 | Head Max | ● | | | required | | |
| | 0401-6 | Pump ID | ● | | | required | | |
| | 0401-7 | Location | ● | | | required | | |
| | 0401-8 | Manufacturer | ● | | | required | | |
| | 0401-9 | Serial No | ● | | | required | | |
| | 0401-10 | Flow Rate | ● | | | required | | |
| | 0401-11 | Static Water Level | ● | | | required | | |
| | 0401-12 | Dynamic Water Level | ● | | | required | | |
| | 0401-13 | Date of Pump installed | ● | | | required | | |
| | 0401-14 | Date of last maintenance | ● | | | required | | |
| 0401-15 | Age | ● | | | required | | | |
| 0401-16 | Status | ● | | | required | | | |
| 3. Pump Station information | | | | | | | | |
| 0402 | 0402-1 | Pump station | ● | | | required | | |
| | 0402-2 | Station ID | ● | | | required | | |
| | 0402-3 | Station name | ● | | | required | | |
| | 0402-4 | Station type | ● | | | required | | |
| | 0402-5 | Location | ● | | | required | | |
| | 0402-6 | Age | ● | | | required | | |
| | 0402-7 | Status | ● | | | required | | |
| | 0402-8 | Power Usage (KW) | ● | | | required | | |
| | 0402-9 | Structure of pump | ● | | | required | | |
| | 4. Service reservoir information | | | | | | | |
| | 0403 | 0403-1 | Service reservoir | ● | | | required | |
| | | 0403-2 | Service reservoir name | ● | | | required | |
| | | 0403-3 | Structure of service reservoirs | ● | | | required | |
| | | 0403-4 | Elevation of service reservoirs | ● | | | required | |
| 0403-5 | | Capacity of service reservoir | ● | | | required | | |
| 0403-6 | | H.W.L. / W.L. | ● | | | required | | |
| 0403-7 | | Date of last maintenance | ● | | | required | | |
| 0403-8 | | Distribution area of source | ● | | | required | | |
| 0403-9 | | Area name | ● | | | required | | |

Naha2 Input item of GIS

| No. | GIS subject | Progress of Database | | | | Frequency of update(*) | Remarks | |
|------------------------------|----------------------------------|--|-----------------|---------|---------|------------------------|---------|--|
| | | Updated | Ongoing | Not yet | No data | | | |
| 6. Other informations | | | | | | | | |
| 0404 | 0404-1 | Water Quality (TDS-amount observation) | ● | | | Daily / Monthly | | |
| | 0404-2 | Location Name | ● | | | Daily / Monthly | | |
| | 0404-3 | Date of Survey | ● | | | Daily / Monthly | | |
| | 0404-4 | Source name | ● | | | Daily / Monthly | | |
| | 0404-5 | Source Type | ● | | | Daily / Monthly | | |
| | 0404-6 | Catchment condition | ● | | | Daily / Monthly | | |
| | 0404-7 | Catchment area(hectares) | ● | | | Daily / Monthly | | |
| | 0404-8 | Flow Rate (L/s) | ● | | | Daily / Monthly | | |
| | 0404-9 | Chlorine Demand (mg/10L) | ● | | | Daily / Monthly | | |
| | 0404-10 | Hardness (mg/L) | ● | | | Daily / Monthly | | |
| | 0404-11 | Turbidity (NTU) | ● | | | Daily / Monthly | | |
| | 5. Customer's information | | | | | | | |
| | 0501 | 0501-1 | Customer ID | ● | | | Daily | |
| | | 0501-2 | Customer's name | ● | | | Daily | |
| 0501-3 | | House ID | ● | | | Daily | | |
| 0501-4 | | Tap of account | ● | | | Daily | | |
| 0501-5 | | Boundary of plot (land) | ● | | | required | | |
| 0501-6 | | Customer's status | ● | | | Daily | | |

* : The term of "Required" indicates the regular update work.
 For example, such as "updating" if the information does not accumulate.
 Since it is an ambiguous definition, SW and JICA expert team will discuss and decide clearly from now on.
 And it will indicate by an operation manual.

Naha3 Input item of GIS

| No. | GIS subject | Progress of Database | | | | Frequency of update(*) | Remarks |
|---|-------------|--------------------------------------|---------|---------|----------|------------------------|----------------------------------|
| | | Updated | Ongoing | Not yet | No data | | |
| 1. Distribution Facility information | | | | | | | |
| 0101 | 0101-1 | Water distribution pipes | ● | | | required | |
| | 0101-2 | Pipe ID | ● | ● | | required | |
| | 0101-3 | Networks | ● | | | required | |
| | 0101-4 | Systems | ● | | | required | |
| | 0101-5 | Pipe material | ● | | | required | |
| | 0101-6 | Pipe diameters | ● | | | required | |
| | 0101-7 | Pipe length | ● | | | required | |
| | 0101-8 | Pipe Depth | ● | | | required | |
| | 0101-9 | Pipe Use | ● | | | required | |
| | 0101-10 | Completion year | ● | | | required | No records have been kept at all |
| | 0101-11 | Date of last maintenance | ● | | | required | No records have been kept at all |
| | 0101-12 | Date of Replacement / Rehabilitation | ● | | | required | No records have been kept at all |
| | 0101-13 | Date of Rejoining | ● | | | required | No records have been kept at all |
| | 0101-14 | Date of Leakage detection | ● | | | required | |
| 0101-15 | Pipe Notes | ● | | | required | | |
| 0102 | 0102-1 | Shut valve (gate valve) | ● | | | required | |
| | 0102-2 | Valve ID | ● | ● | | required | |
| | 0102-3 | Networks | ● | | | required | |
| | 0102-4 | Systems | ● | | | required | |
| | 0102-5 | Valve material | ● | | | required | |
| | 0102-6 | Valve size | ● | | | required | |
| | 010 | | | | | | |

Naha3 Input item of GIS

| No. | GIS subject | Progress of Database | | | | Frequency of update(†) | Remarks |
|------------------------------------|---|----------------------|---------|---------|----------|------------------------|---------|
| | | Updated | Ongoing | Not yet | No data | | |
| 0107-2 | SP_ACV | • | | | required | | |
| 0107-3 | Sewer Pipe diameters | • | | | required | | |
| 0107-4 | SP_TYPE | • | | | required | | |
| 0107-5 | SP_MAKE | • | | | required | | |
| 0107-6 | SP_DATE | • | | | required | | |
| 0107-7 | SP_DI_ORF | • | | | required | | |
| 0107-8 | SP_CONNNO | • | | | required | | |
| 0107-9 | SP_CONNNO | • | | | required | | |
| 0107-20 | SP_LINK | • | | | required | | |
| 0201 | Graphus | • | | | required | | |
| 0201-1 | Leakage location | • | | | Daily | | |
| 0201-2 | ID | • | | | Daily | | |
| 0201-3 | Leakage Type | • | | | Daily | | |
| 0201-4 | Status of Leak | • | | | Daily | | |
| 0201-5 | Location | • | | | Daily | | |
| 0201-6 | Condition | • | | | Daily | | |
| 0201-7 | Asset type | • | | | required | | |
| 0201-8 | Asset Size | • | | | required | | |
| 0201-9 | Date of survey | • | | | required | | |
| 0301 | Graphus | • | | | required | | |
| 0301-1 | Flow meters | • | | | required | | |
| 0301-2 | ID | • | | | required | | |
| 0301-3 | Networks | • | | | required | | |
| 0301-4 | Systems | • | | | required | | |
| 0301-5 | Location | • | | | required | | |
| 0301-6 | Site | • | | | required | | |
| 0301-7 | Date of Installation | • | | | required | | |
| 0301-8 | Last maintenance Date | • | | | required | | |
| 0301-9 | Logging | • | | | required | | |
| 0301-10 | Flow meter Notes | • | | | required | | |
| 0302 | Graphus | • | | | required | | |
| 0302-1 | Feeder pipes (service pipes) | • | | | required | | |
| 0302-2 | PipeID | • | | | required | | |
| 0302-3 | Pipe material | • | | | required | | |
| 0302-4 | Pipe size | • | | | required | | |
| 0303 | Graphus | • | | | Daily | | |
| 0303-1 | HouseID | • | | | Daily | | |
| 0303-2 | Customer's Name | • | | | Daily | | |
| 0303-3 | MeterID | • | | | Daily | | |
| 0303-4 | Status of Meter (whether working, banded etc) | • | | | required | | |
| 0303-5 | Manufacturer | • | | | required | | |
| 0303-6 | Size of Meter | • | | | required | | |
| 0303-7 | Date of Installation | • | | | required | | |
| 0303-8 | Lot Number | • | | | required | | |
| 0303-9 | Comments | • | | | required | | |
| 2. Water Source information | | | | | | | |
| 0401 | Graphus | • | | | required | | |
| 0401-1 | Borehole ID | • | | | - | | |
| 0401-2 | Borehole Type | • | | | - | | |
| 0401-3 | Well depth(m) | • | | | required | | |
| 0401-4 | Hand | • | | | - | | |
| 0401-5 | Head Max | • | | | - | | |
| 0401-6 | Pump ID | • | | | - | | |
| 0401-7 | Location | • | | | required | | |
| 0401-8 | Manufacture | • | | | - | | |
| 0401-9 | Serial No | • | | | - | | |
| 0401-10 | Flow Rate | • | | | required | | |
| 0401-11 | Static Water Level | • | | | required | | |
| 0401-12 | Dynamic Water Level | • | | | required | | |
| 0401-13 | Date of Pump Installed | • | | | required | | |
| 0401-14 | Date of last maintenance | • | | | required | | |
| 0401-15 | Age | • | | | required | | |
| 0401-16 | Status | • | | | required | | |
| 3. Pump Station information | | | | | | | |
| 0402 | Graphus | • | | | required | | |
| 0402-1 | Pump station | • | | | - | | |
| 0402-2 | Station ID | • | | | - | | |
| 0402-3 | Unit name | • | | | required | | |
| 0402-4 | Station type | • | | | required | | |
| 0402-5 | Location | • | | | required | | |
| 0402-6 | Age | • | | | required | | |
| 0402-7 | Status | • | | | required | | |
| 0402-8 | Power Usage (KWh) | • | | | required | | |
| 0402-9 | Number of pump | • | | | required | | |
| 0403 | Graphus | • | | | required | | |
| 0403-1 | Service reservoir | • | | | - | | |
| 0403-2 | Service reservoir name | • | | | - | | |
| 0403-3 | Structure of service reservoirs | • | | | required | | |
| 0403-4 | Elevation of service reservoirs | • | | | required | | |
| 0403-5 | Capacity of service reservoir | • | | | required | | |
| 0403-6 | H.W.L.L.W.L | • | | | required | | |
| 0403-7 | Date of last maintenance | • | | | required | | |
| 0404 | Graphus | • | | | required | | |
| 0404-1 | Distribution area of source | • | | | required | | |
| 0404-2 | Area name | • | | | required | | |

Naha3 Input item of GIS

| No. | GIS subject | Progress of Database | | | | Frequency of update(†) | Remarks |
|----------------------------------|--|----------------------|---------|---------|-----------------|------------------------|---------|
| | | Updated | Ongoing | Not yet | No data | | |
| 6. Other informations | | | | | | | |
| 0405 | Graphus | • | | | required | | |
| 0405-1 | Water quality (Free-point observation) | • | | | Daily / Monthly | | |
| 0405-2 | Water Quality Point No | • | | | Daily / Monthly | | |
| 0405-3 | Location Name | • | | | Daily / Monthly | | |
| 0405-4 | Date of Survey | • | | | Daily / Monthly | | |
| 0405-5 | Source name | • | | | Daily / Monthly | | |
| 0405-6 | Source Type | • | | | Daily / Monthly | | |
| 0405-7 | Catchment coordinates | • | | | Daily / Monthly | | |
| 0405-8 | Catchment area(hectares) | • | | | Daily / Monthly | | |
| 0405-9 | Flow Rate (L/s) | • | | | Daily / Monthly | | |
| 0405-10 | Chlorine Demand (mg/10L) | • | | | Daily / Monthly | | |
| 0405-11 | Hardness (mg/L) | • | | | Daily / Monthly | | |
| 0405-12 | Turbidity (NTU) | • | | | Daily / Monthly | | |
| 5. Customer's information | | | | | | | |
| 0405-1 | Customer ID | • | | | Daily | | |
| 0405-2 | Customer's name | • | | | Daily | | |
| 0405-3 | House ID | • | | | Daily | | |
| 0405-4 | Type Of Account | • | | | required | | |
| 0405-5 | Boundary of plot (area) | • | | | required | | |
| 0405-6 | Customer's status | • | | | Daily | | |

*1 - The term of "Required" indicates the irregular update work.
 For example, such as "lighting, if an information does accumulate."
 Since it is an ambiguous definition, SW and ICA expert team will discuss and decide clearly from now on.
 And it will indicate by an operation manual.

FFA Kola Road Input item of GIS

| No. | GIS subject | Progress of Database | | | | Frequency of update(†) | Remarks |
|---|--------------------------------------|----------------------|---------|---------|----------|----------------------------------|---------|
| | | Updated | Ongoing | Not yet | No data | | |
| 1. Distribution Facility information | | | | | | | |
| 0101 | Graphus | • | | | required | | |
| 0101-1 | Water distribution pipes | • | | | required | | |
| 0101-2 | Pipe ID | • | | | required | | |
| 0101-3 | Networks | • | | | required | | |
| 0101-4 | Systems | • | | | required | | |
| 0101-5 | Pipe material | • | | | required | | |
| 0101-6 | Pipe diameters | • | | | required | | |
| 0101-7 | Pipe length | • | | | required | | |
| 0101-8 | Pipe depth | • | | | required | | |
| 0101-9 | Pipe Use | • | | | required | | |
| 0101-10 | Completion year | • | | | required | | |
| 0101-11 | Date of last maintenance | • | | | required | No records have been kept at all | |
| 0101-12 | Date of Replacement / Rehabilitation | • | | | required | No records have been kept at all | |
| 0101-13 | Date of Repairing | • | | | required | No records have been kept at all | |
| 0101-14 | Date of Leakage detection | • | | | required | | |
| 0101-15 | Pipe Notes | • | | | required | | |
| 0102 | Graphus | • | | | required | | |
| 0102-1 | Shut valve (gate valve) | • | | | required | | |
| 0102-2 | Valve ID | • | | | required | | |
| 0102-3 | Networks | • | | | required | | |
| 0102-4 | Systems | • | | | required | | |
| 0102-5 | Valve material | • | | | required | | |
| 0102-6 | Valve size | • | | | required | | |
| 0102-7 | Depth | • | | | required | | |
| 0102-8 | Direction of turn | • | | | required | | |
| 0102-9 | Valve status | • | | | required | | |
| 0102-10 | Date of Installation | • | | | required | | |
| 0102-11 | Date of last maintenance | • | | | required | | |
| 0102-12 | Valve Notes | • | | | required | | |
| 0103 | Graphus | • | | | required | | |
| 0103-1 | Hydrant | • | | | required | | |
| 0103-2 | Hydrant ID | • | | | required | | |
| 0103-3 | Networks | • | | | required | | |
| 0103-4 | Systems | • | | | required | | |
| 0103-5 | Hydrant type | • | | | required | | |
| 0103-6 | Hydrant diameters | • | | | required | | |
| 0103-7 | Date of Installation | • | | | required | | |
| 0103-8 | Last maintenance Date | • | | | required | No records have been kept at all | |
| 0103-9 | Hydrant Notes | • | | | required | | |
| 0104 | Graphus | • | | | required | | |
| 0104-1 | Air valve | • | | | required | | |
| 0104-2 | Air Valve ID | • | | | required | | |
| 0104-3 | Networks | • | | | required | | |
| 0104-4 | Systems | • | | | required | | |
| 0104-5 | Air Valve size | • | | | required | | |
| 0104-6 | Date of Installation | • | | | required | | |
| 0104-7 | Last maintenance Date | • | | | required | No records have been kept at all | |
| 0104-8 | Air Valve Notes | • | | | required | | |
| 0105 | Graphus | • | | | required | | |
| 0105-1 | Water pipe bridge | • | | | required | | |
| 0105-2 | ID | • | | | required | | |
| 0105-3 | Length | • | | | required | | |
| 0105-4 | Pipe material | • | | | required | | |
| 0105-5 | Last maintenance Date | • | | | required | | |
| 0105-6 | Bridge Name | • | | | required | | |
| 0105-7 | Bridge material | • | | | required | | |
| 0106 | Graphus | • | | | required | | |
| 0106-1 | Sewer Manholes | • | | | required | | |
| 0106-2 | Sequential number | • | | | required | | |
| 0106-3 | Distribution System number | • | | | required | | |
| 0106-4 | Distribution System name | • | | | required | | |
| 0106-5 | Distribution System location | • | | | required | | |
| 0106-6 | Distribution System code | • | | | required | | |
| 0106-7 | SSY/SAC | • | | | required | | |
| 0106-8 | SSY/SL/ENNO | • | | | required | | |
| 0106-9 | SMH number | • | | | required | | |
| 0106-10 | SMH type | • | | | required | | |
| 0106-11 | SMH_U | • | | | required | | |
| 0106-12 | SMH_RL | • | | | required | | |
| 0106-13 | SMH_size | • | | | required | | |
| 0106-14 | SMH_date | • | | | required | | |
| 0107 | Graphus | • | | | required | | |
| 0107-1 | Sewer Pipelines | • | | | required | | |
| 0107-2 | Sequential number | • | | | required | | |
| 0107-3 | Distribution System number | • | | | required | | |
| 0107-4 | Distribution System name | • | | | required | | |
| 0107-5 | Distribution System location | • | | | required | | |
| 0107-6 | Distribution System code | • | | | required | | |
| 0107-7 | SSY/SAC | • | | | required | | |
| 0107-8 | SSY/SL/ENNO | • | | | required | | |
| 0107-9 | SP_DI | • | | | required | | |
| 0107-10 | Sewer Pipe Length | • | | | required | | |
| 0107-11 | SP_SIL | • | | | required | | |
| 0107-12 | SP_EIL | • | | | required | | |

FFA Kola Road Input item of GIS

| No. | GIS subject | Progress of Database | | | | Frequency of update(†) | Remarks |
|---------|----------------------|----------------------|---------|---------|----------|------------------------|---------|
| | | Updated | Ongoing | Not yet | No data | | |
| 0107-2 | SP_ACV | • | | | required | | |
| 0107-3 | Sewer Pipe diameters | • | | | required | | |
| 0107-4 | SP_TYPE | • | | | required | | |
| 0107-5 | SP_MAKE | • | | | required | | |
| 0107-6 | SP_DATE | • | | | required | | |
| 0107-7 | SP_DI_ORF | • | | | required | | |
| 0107-8 | SP_CONNNO | • | | | required | | |
| 0107-9 | SP_CONNNO | • | | | required | | |
| 0107-20 | SP_LINK | • | | | required | | |
| 0201 | Graphus | • | | | required | | |
| 0201-1 | Leakage location | • | | | Daily | | |
| 0201-2 | ID | • | | | Daily | | |
| 0201-3 | Leakage Type | • | | | Daily | | |
| 0201-4 | Status of Leak | • | | | Daily | | |

FFA Kola Road Input item of GIS

| No. | GIS subject | Progress of Database | | | | Frequency of updates(1) | Remarks |
|----------------------------------|--|----------------------|---------|---------|---------|-------------------------|---------|
| | | Updated | Ongoing | Not yet | No data | | |
| 6. Other informations | | | | | | | |
| 0405-1 | Water quality (Free-point observation) | | | ● | | Daily / Monthly | |
| 0405-2 | Water Quality Point No. | | | | ● | Daily / Monthly | |
| 0405-3 | Location Name | | | | ● | Daily / Monthly | |
| 0405-4 | Date of Survey | | | | ● | Daily / Monthly | |
| 0405-5 | Source name | | | | ● | Daily / Monthly | |
| 0405-6 | Source Type | | | | ● | Daily / Monthly | |
| 0405-7 | Attachment condition | | | | ● | Daily / Monthly | |
| 0405-8 | Attachment area(hectares) | | | | ● | Daily / Monthly | |
| 0405-9 | Flow Rate (L/s) | | | | ● | Daily / Monthly | |
| 0405-10 | Chlorine Demand (mg/10L) | | | | ● | Daily / Monthly | |
| 0405-11 | Hardness (mg/L) | | | | ● | Daily / Monthly | |
| 0405-12 | Turbidity (NTU) | | | | ● | Daily / Monthly | |
| 5. Customer's information | | | | | | | |
| 0405-13 | Customer ID | | | | ● | Daily | |
| 0405-14 | Customer's name | | | | ● | Daily | |
| 0405-15 | House ID | | | | ● | Daily | |
| 0405-16 | Type Of Account | | | | ● | Daily | |
| 0405-17 | Boundary of plot (land) | | | | ● | required | |
| 0405-18 | Customer's status | | | | ● | Daily | |

*1 The term of "Required" indicates the irregular update work.
 For example, such as "updating, if ten information sheets accumulate."
 Since it is an ambiguous definition, SW and ICA expert team will discuss and decide clearly from now on.
 And it will indicate by an operation manual.

Lenggakiki DMA Input item of GIS

| No. | GIS subject | Progress of Database | | | | Frequency of updates(1) | Remarks |
|---|-------------------------------------|----------------------|---------|---------|---------|-------------------------|----------------------------------|
| | | Updated | Ongoing | Not yet | No data | | |
| 1. Distribution Facility information | | | | | | | |
| 0101-1 | Water distribution pipes | | | ● | | required | |
| 0101-2 | Pipe ID | | | | ● | required | |
| 0101-3 | Networks | | | | ● | required | |
| 0101-4 | Systems | | | | ● | required | |
| 0101-5 | Pipe material | | | | ● | required | |
| 0101-6 | Pipe diameters | | | | ● | required | |
| 0101-7 | Pipe length | | | | ● | required | |
| 0101-8 | Pipe Depth | | | | ● | required | |
| 0101-9 | Pipe Use | | | | ● | required | |
| 0101-10 | Completion year | | | | ● | required | |
| 0101-11 | Date of last maintenance | | | | ● | required | No records have been kept at all |
| 0101-12 | Date of Replacement/ Rehabilitation | | | | ● | required | No records have been kept at all |
| 0101-13 | Date of Repairing | | | | ● | required | No records have been kept at all |
| 0101-14 | Date of Leakage detection | | | | ● | required | No records have been kept at all |
| 0101-15 | Pipe Notes | | | | ● | required | |
| 0102-1 | Shut-off valve (gate valve) | | | | ● | required | |
| 0102-2 | Valve ID | | | | ● | required | |
| 0102-3 | Networks | | | | ● | required | |
| 0102-4 | Systems | | | | ● | required | |
| 0102-5 | Valve material | | | | ● | required | |
| 0102-6 | Valve size | | | | ● | required | |
| 0102-7 | Depth | | | | ● | required | |
| 0102-8 | Direction of turn | | | | ● | required | |
| 0102-9 | Valve status | | | | ● | required | |
| 0102-10 | Date of installation | | | | ● | required | |
| 0102-11 | Date of last maintenance | | | | ● | required | |
| 0102-12 | Valve Notes | | | | ● | required | |
| 0103-1 | Hydrant | | | | ● | required | |
| 0103-2 | Hydrant ID | | | | ● | required | |
| 0103-3 | Networks | | | | ● | required | |
| 0103-4 | Systems | | | | ● | required | |
| 0103-5 | Hydrant type | | | | ● | required | |
| 0103-6 | Hydrant diameters | | | | ● | required | |
| 0103-7 | Date of installation | | | | ● | required | |
| 0103-8 | Last maintenance Date | | | | ● | required | No records have been kept at all |
| 0103-9 | Hydrant Notes | | | | ● | required | |
| 0104-1 | Air valve | | | | ● | required | |
| 0104-2 | Air Valve ID | | | | ● | required | |
| 0104-3 | Networks | | | | ● | required | |
| 0104-4 | Systems | | | | ● | required | |
| 0104-5 | Air Valve size | | | | ● | required | |
| 0104-6 | Date of installation | | | | ● | required | |
| 0104-7 | Last maintenance Date | | | | ● | required | No records have been kept at all |
| 0104-8 | Air Valve Notes | | | | ● | required | |
| 0105-1 | Water pipe bridge | | | | ● | required | |
| 0105-2 | ID | | | | ● | required | |
| 0105-3 | Length | | | | ● | required | |
| 0105-4 | Pipe material | | | | ● | required | |
| 0105-5 | Last maintenance Date | | | | ● | required | |
| 0105-6 | Bridge Name | | | | ● | required | |
| 0105-7 | Bridge material | | | | ● | required | |
| 0106-1 | Sewer Manholes | | | | ● | required | |
| 0106-2 | Sequential number | | | | ● | required | |
| 0106-3 | Distribution System number | | | | ● | required | |
| 0106-4 | Distribution System name | | | | ● | required | |
| 0106-5 | Distribution System location | | | | ● | required | |
| 0106-6 | Distribution System code | | | | ● | required | |
| 0106-7 | SSV/SAC | | | | ● | required | |
| 0106-8 | SSV/INBENO | | | | ● | required | |
| 0106-9 | SMH number | | | | ● | required | |
| 0106-10 | SMH type | | | | ● | required | |
| 0106-11 | SMH ID | | | | ● | required | |
| 0106-12 | SMH size | | | | ● | required | |
| 0106-13 | SMH Date | | | | ● | required | |
| 0107-1 | Sewer Pipelines | | | | ● | required | |
| 0107-2 | Sequential number | | | | ● | required | |
| 0107-3 | Distribution System number | | | | ● | required | |
| 0107-4 | Distribution System name | | | | ● | required | |
| 0107-5 | Distribution System location | | | | ● | required | |
| 0107-6 | Distribution System code | | | | ● | required | |
| 0107-7 | SSV/SAC | | | | ● | required | |
| 0107-8 | SSV/INBENO | | | | ● | required | |
| 0107-9 | SP_NO | | | | ● | required | |
| 0107-10 | Sewer Pipe Length | | | | ● | required | |
| 0107-11 | SP_SIL | | | | ● | required | |
| 0107-12 | SP_EIL | | | | ● | required | |

*1 The term of "Required" indicates the irregular update work.
 For example, such as "updating, if ten information sheets accumulate."
 Since it is an ambiguous definition, SW and ICA expert team will discuss and decide clearly from now on.
 And it will indicate by an operation manual.

Lenggakiki DMA Input item of GIS

| No. | GIS subject | Progress of Database | | | | Frequency of updates(1) | Remarks |
|---|--|----------------------|---------|---------|---------|-------------------------|---------|
| | | Updated | Ongoing | Not yet | No data | | |
| 0107-13 | SP_ACV | | | | ● | required | |
| 0107-14 | SP_TTYPE | | | | ● | required | |
| 0107-15 | SP_MAKB | | | | ● | required | |
| 0107-16 | SP_DATE | | | | ● | required | |
| 0107-17 | SP_SLOPB | | | | ● | required | |
| 0107-18 | SP_CONNO | | | | ● | required | |
| 0107-19 | SP_CONNBO | | | | ● | required | |
| 0107-20 | SP_LINK | | | | ● | required | |
| 0201-1 | Leakage location | | | | ● | Daily | |
| 0201-2 | ID | | | | ● | Daily | |
| 0201-3 | Leakage Type | | | | ● | Daily | |
| 0201-4 | Status of Leak | | | | ● | Daily | |
| 0201-5 | Location | | | | ● | Daily | |
| 0201-6 | Condition | | | | ● | Daily | |
| 0201-7 | Asset type | | | | ● | required | |
| 0201-8 | Asset Size | | | | ● | required | |
| 0201-9 | Asset Material | | | | ● | required | |
| 0201-10 | Date of survey | | | | ● | Daily | |
| 0301-1 | Flow meters | | | | ● | required | |
| 0301-2 | ID | | | | ● | required | |
| 0301-3 | Networks | | | | ● | required | |
| 0301-4 | Systems | | | | ● | required | |
| 0301-5 | Location | | | | ● | required | |
| 0301-6 | Size | | | | ● | required | |
| 0301-7 | Date of installation | | | | ● | required | |
| 0301-8 | Last maintenance Date | | | | ● | required | |
| 0301-9 | Logging | | | | ● | required | |
| 0301-10 | Flow meter Notes | | | | ● | required | |
| 0302-1 | Flow meter (service papers) | | | | ● | required | |
| 0302-2 | Flow meter ID | | | | ● | required | |
| 0302-3 | Pipe material | | | | ● | required | |
| 0302-4 | Pipe size | | | | ● | required | |
| 0303-1 | Water meter | | | | ● | Daily | |
| 0303-2 | HouseID | | | | ● | Daily | |
| 0303-3 | Customer's Name | | | | ● | Daily | |
| 0303-4 | MeterID | | | | ● | Daily | |
| 0303-5 | Status of Meter (whether working, leased etc.) | | | | ● | Daily | |
| 0303-6 | Manufacturer | | | | ● | required | |
| 0303-7 | Size of Meter | | | | ● | required | |
| 0303-8 | Date of installation | | | | ● | required | |
| 0303-9 | Lot Number | | | | ● | required | |
| 0303-10 | Comment | | | | ● | required | |
| 2. Water Source information | | | | | | | |
| 0401-1 | Bore holes | | | | ● | required | |
| 0401-2 | Borehole ID | | | | ● | required | |
| 0401-3 | Borehole Type | | | | ● | required | |
| 0401-4 | Well depth(m) | | | | ● | required | |
| 0401-5 | Hand | | | | ● | required | |
| 0401-6 | Hand line | | | | ● | required | |
| 0401-7 | Pump ID | | | | ● | required | |
| 0401-8 | Location | | | | ● | required | |
| 0401-9 | Manufacturer | | | | ● | required | |
| 0401-10 | Serial No. | | | | ● | required | |
| 0401-11 | Flow Rate | | | | ● | required | |
| 0401-12 | Static Water Level | | | | ● | required | |
| 0401-13 | Dynamic Water Level | | | | ● | required | |
| 0401-14 | Date of Pump Installed | | | | ● | required | |
| 0401-15 | Date of last maintenance | | | | ● | required | |
| 0401-16 | Age | | | | ● | required | |
| 0401-17 | Status | | | | ● | required | |
| 3. Pump Station information | | | | | | | |
| 0402-1 | Pump station | | | | ● | required | |
| 0402-2 | Station ID | | | | ● | required | |
| 0402-3 | Unit name | | | | ● | required | |
| 0402-4 | Station type | | | | ● | required | |
| 0402-5 | Location | | | | ● | required | |
| 0402-6 | Age | | | | ● | required | |
| 0402-7 | Status | | | | ● | required | |
| 0402-8 | Power Usage (KWh) | | | | ● | required | |
| 0402-9 | Number of pump | | | | ● | required | |
| 4. Service reservoir information | | | | | | | |
| 0403-1 | Service reservoir | | | | ● | required | |
| 0403-2 | Service reservoir name | | | | ● | required | |
| 0403-3 | Structure of service reservoir | | | | ● | required | |
| 0403-4 | Elevation of service reservoir | | | | ● | required | |
| 0403-5 | Capacity of service reservoir | | | | ● | required | |
| 0403-6 | H.W.L.L.W.L. | | | | ● | required | |
| 0403-7 | Date of last maintenance | | | | ● | required | |
| 0404-1 | Distribution area of source | | | | ● | required | |
| 0404-2 | Area name | | | | ● | required | |

Lenggakiki DMA Input item of GIS

| No. | GIS subject | Progress of Database | | | | Frequency of updates(1) | Remarks |
|------------------------------|--|----------------------|---------|---------|---------|-------------------------|---------|
| | | Updated | Ongoing | Not yet | No data | | |
| 6. Other informations | | | | | | | |
| 0405-1 | Water quality (Free-point observation) | | | ● | | Daily / Monthly | |
| 0405-2 | Water Quality Point No. | | | | ● | Daily / Monthly | |
| 0405-3 | Location Name | | | | ● | Daily / Monthly | |
| 0405-4 | Date of Survey | | | | ● | Daily / Monthly | |
| 0405-5 | Source name | | | | ● | Daily / Monthly | |
| 0405-6 | Source Type | | | | ● | Daily / Monthly | |
| 0405-7 | Attachment condition | | | | ● | Daily / Monthly | |
| 0405-8 | Attachment area(hectares) | | | | ● | Daily / Monthly | |
| 0405-9 | Flow Rate (L/s) | | | | | | |

Tasaha A & B DMA Input item of GIS

| No. | GIS subject | Progress of Database | | | | Frequency of update(*) | Remarks |
|---|--------------------------------------|----------------------|---------|---------|----------|----------------------------------|---------|
| | | Updated | Ongoing | Not yet | No data | | |
| 1. Distribution Facility information | | | | | | | |
| 0100 | Water distribution pipes | • | | | required | | |
| 0101-1 | Pipe ID | • | | | required | | |
| 0101-2 | Networks | • | | | required | | |
| 0101-3 | Systems | • | | | required | | |
| 0101-4 | Pipe material | • | | | required | | |
| 0101-5 | Pipe diameters | • | | | required | | |
| 0101-6 | Pipe length | • | | | required | | |
| 0101-7 | Pipe Depth | • | | | required | | |
| 0101-8 | Pipe Use | • | | | required | | |
| 0101-9 | Completion year | • | | | required | No records have been kept at all | |
| 0101-10 | Date of last maintenance | • | | | required | No records have been kept at all | |
| 0101-11 | Date of Replacement / Rehabilitation | • | | | required | No records have been kept at all | |
| 0101-12 | Date of Reputing | • | | | required | No records have been kept at all | |
| 0101-13 | Date of Leakage detection | • | | | required | | |
| 0101-14 | Pipe Notes | • | | | required | | |
| 0102 | Shance valve (gate valve) | • | | | required | | |
| 0102-1 | Valve ID | • | | | required | | |
| 0102-2 | Networks | • | | | required | | |
| 0102-3 | Systems | • | | | required | | |
| 0102-4 | Valve material | • | | | required | | |
| 0102-5 | Valve size | • | | | required | | |
| 0102-6 | Depth | • | | | required | | |
| 0102-7 | Direction of turn | • | | | required | | |
| 0102-8 | Valve status | • | | | required | | |
| 0102-9 | Date of installation | • | | | required | | |
| 0102-10 | Date of last maintenance | • | | | required | | |
| 0102-11 | Valve Notes | • | | | required | | |
| 0103 | Hydrant | • | | | required | | |
| 0103-1 | Hydrant ID | • | | | required | | |
| 0103-2 | Networks | • | | | required | | |
| 0103-3 | Systems | • | | | required | | |
| 0103-4 | Hydrant type | • | | | required | | |
| 0103-5 | Hydrant diameters | • | | | required | | |
| 0103-6 | Date of installation | • | | | required | | |
| 0103-7 | Last maintenance Date | • | | | required | No records have been kept at all | |
| 0103-8 | Hydrant Notes | • | | | required | | |
| 0104 | Air valve | • | | | required | | |
| 0104-1 | Air Valve ID | • | | | required | | |
| 0104-2 | Networks | • | | | required | | |
| 0104-3 | Systems | • | | | required | | |
| 0104-4 | Air Valve size | • | | | required | | |
| 0104-5 | Date of installation | • | | | required | | |
| 0104-6 | Last maintenance Date | • | | | required | No records have been kept at all | |
| 0104-7 | Air Valve Notes | • | | | required | | |
| 0105 | Water pipe bridge | • | | | required | | |
| 0105-1 | ID | • | | | required | | |
| 0105-2 | Length | • | | | required | | |
| 0105-3 | Pipe material | • | | | required | | |
| 0105-4 | Last maintenance Date | • | | | required | | |
| 0105-5 | Bridge Name | • | | | required | | |
| 0105-6 | Bridge material | • | | | required | | |
| 0106 | Sewer Manholes | • | | | required | | |
| 0106-1 | Sequential number | • | | | required | | |
| 0106-2 | Distribution System number | • | | | required | | |
| 0106-3 | Distribution System name | • | | | required | | |
| 0106-4 | Distribution System location | • | | | required | | |
| 0106-5 | Distribution System code | • | | | required | | |
| 0106-6 | SSVSAC | • | | | required | | |
| 0106-7 | SSVSLINENO | • | | | required | | |
| 0106-8 | SMH number | • | | | required | | |
| 0106-9 | SMH type | • | | | required | | |
| 0106-10 | SMH_IL | • | | | required | | |
| 0106-11 | SMH_RL | • | | | required | | |
| 0106-12 | SMH_size | • | | | required | | |
| 0106-13 | SMH_date | • | | | required | | |
| 0107 | Sewer Pipelines | • | | | required | | |
| 0107-1 | Sequential number | • | | | required | | |
| 0107-2 | Distribution System number | • | | | required | | |
| 0107-3 | Distribution System name | • | | | required | | |
| 0107-4 | Distribution System location | • | | | required | | |
| 0107-5 | Distribution System code | • | | | required | | |
| 0107-6 | SSVSAC | • | | | required | | |
| 0107-7 | SSVSLINENO | • | | | required | | |
| 0107-8 | SP_NO | • | | | required | | |
| 0107-9 | Sewer Pipe Length | • | | | required | | |
| 0107-10 | SP_SIL | • | | | required | | |
| 0107-11 | SP_FILL | • | | | required | | |

Tasaha A & B DMA Input item of GIS

| No. | GIS subject | Progress of Database | | | | Frequency of update(*) | Remarks |
|---|---|----------------------|---------|---------|----------|------------------------|---------|
| | | Updated | Ongoing | Not yet | No data | | |
| 2. Water Source information | | | | | | | |
| 0201 | Flow meters | • | | | required | | |
| 0201-1 | ID | • | | | required | | |
| 0201-2 | Networks | • | | | required | | |
| 0201-3 | Systems | • | | | required | | |
| 0201-4 | Location | • | | | required | | |
| 0201-5 | Size | • | | | required | | |
| 0201-6 | Date of installation | • | | | required | | |
| 0201-7 | Last maintenance Date | • | | | required | | |
| 0201-8 | Logging | • | | | required | | |
| 0201-9 | Flow meter Notes | • | | | required | | |
| 0202 | Feeder pipes (service pipes) | • | | | required | | |
| 0202-1 | PipeID | • | | | required | | |
| 0202-2 | Pipe material | • | | | required | | |
| 0202-3 | Pipe size | • | | | required | | |
| 0203 | Water meter | • | | | required | | |
| 0203-1 | HouseID | • | | | required | | |
| 0203-2 | Customer's Name | • | | | required | | |
| 0203-3 | MeterID | • | | | required | | |
| 0203-4 | Status of Meter (whether working, banned etc) | • | | | required | | |
| 0203-5 | Manufacturer | • | | | required | | |
| 0203-6 | Date of Meter | • | | | required | | |
| 0203-7 | Date of installation | • | | | required | | |
| 0203-8 | Lot Number | • | | | required | | |
| 0203-9 | Comments | • | | | required | | |
| 3. Pump Station information | | | | | | | |
| 0401 | Bores hole | • | | | required | | |
| 0401-1 | Borehole ID | • | | | required | | |
| 0401-2 | Borehole Type | • | | | required | | |
| 0401-3 | Well depth(m) | • | | | required | | |
| 0401-4 | Head | • | | | required | | |
| 0401-5 | Head Max | • | | | required | | |
| 0401-6 | Pump ID | • | | | required | | |
| 0401-7 | Location | • | | | required | | |
| 0401-8 | Manufacture | • | | | required | | |
| 0401-9 | Serial No | • | | | required | | |
| 0401-10 | Flow Rate | • | | | required | | |
| 0401-11 | Static Water Level | • | | | required | | |
| 0401-12 | Dynamic Water Level | • | | | required | | |
| 0401-13 | Date of Pump Installed | • | | | required | | |
| 0401-14 | Date of last maintenance | • | | | required | | |
| 0401-15 | Age | • | | | required | | |
| 0401-16 | Status | • | | | required | | |
| 4. Service Reservoir information | | | | | | | |
| 0403 | Service reservoir | • | | | required | | |
| 0403-1 | Service reservoir name | • | | | required | | |
| 0403-2 | Structure of service reservoirs | • | | | required | | |
| 0403-3 | Elevation of service reservoirs | • | | | required | | |
| 0403-4 | Capacity of service reservoir | • | | | required | | |
| 0403-5 | B.W.L., L.W.L. | • | | | required | | |
| 0403-6 | Date of last maintenance | • | | | required | | |
| 0404 | Distribution area of source | • | | | required | | |
| 0404-1 | Area name | • | | | required | | |

Tasaha A & B DMA Input item of GIS

| No. | GIS subject | Progress of Database | | | | Frequency of update(*) | Remarks |
|----------------------------------|---|----------------------|---------|---------|-----------------|------------------------|---------|
| | | Updated | Ongoing | Not yet | No data | | |
| 6. Other informations | | | | | | | |
| 0405 | Water quality (Pre-consult observation) | • | | | required | | |
| 0405-1 | Water Quality Point No. | • | | | Daily / Monthly | | |
| 0405-2 | Location Name | • | | | Daily / Monthly | | |
| 0405-3 | Date of Survey | • | | | Daily / Monthly | | |
| 0405-4 | Source name | • | | | Daily / Monthly | | |
| 0405-5 | Source Type | • | | | Daily / Monthly | | |
| 0405-6 | Chemical condition | • | | | Daily / Monthly | | |
| 0405-7 | Chemical speed (factor) | • | | | Daily / Monthly | | |
| 0405-8 | Flow Rate (L/s) | • | | | Daily / Monthly | | |
| 0405-9 | Chlorine Demand (mg/10L) | • | | | Daily / Monthly | | |
| 0405-10 | Hardness (mg/L) | • | | | Daily / Monthly | | |
| 0405-11 | Turbidity (NTU) | • | | | Daily / Monthly | | |
| 8. Customer's information | | | | | | | |
| 0406-1 | Customer ID | • | | | Daily | | |
| 0406-2 | Customer's name | • | | | Daily | | |
| 0406-3 | House ID | • | | | Daily | | |
| 0406-4 | Type of Access | • | | | Daily | | |
| 0406-5 | Boundary of plot (land) | • | | | required | | |
| 0406-6 | Customer's status | • | | | Daily | | |

*1. The term of "Required" indicates the regular update work.
 For example, such as "updating, if ten information sheets accumulate."
 Since it is an ambiguous definition, SW and ICA expert team will discuss and decide clearly from now on.
 And it will indicate by an operator manual.

West Kola Ridge A DMA Input item of GIS

| No. | GIS subject | Progress of Database | | | | Frequency of update(*) | Remarks |
|---|--------------------------------------|----------------------|---------|---------|----------|----------------------------------|---------|
| | | Updated | Ongoing | Not yet | No data | | |
| 3. Distribution Facility information | | | | | | | |
| 0101 | Water distribution pipes | • | | | required | | |
| 0101-1 | Pipe ID | • | | | required | | |
| 0101-2 | Networks | • | | | required | | |
| 0101-3 | Systems | • | | | required | | |
| 0101-4 | Pipe material | • | | | required | | |
| 0101-5 | Pipe diameters | • | | | required | | |
| 0101-6 | Pipe length | • | | | required | | |
| 0101-7 | Pipe Depth | • | | | required | | |
| 0101-8 | Pipe Use | • | | | required | | |
| 0101-9 | Completion year | • | | | required | No records have been kept at all | |
| 0101-10 | Date of last maintenance | • | | | required | No records have been kept at all | |
| 0101-11 | Date of Replacement / Rehabilitation | • | | | required | No records have been kept at all | |
| 0101-12 | Date of Reputing | • | | | required | No records have been kept at all | |
| 0101-13 | Date of Leakage detection | • | | | required | | |
| 0101-14 | Pipe Notes | • | | | required | | |
| 0102 | Shance valve (gate valve) | • | | | required | | |
| 0102-1 | Valve ID | • | | | required | | |
| 0102-2 | Networks | • | | | required | | |
| 0102-3 | Systems | • | | | required | | |
| 0102-4 | Valve material | • | | | required | | |
| 0102-5 | Valve size | • | | | required | | |
| 0102-6 | Depth | • | | | required | | |
| 0102-7 | Direction of turn | • | | | required | | |
| 0102-8 | Valve status | • | | | required | | |
| 0102-9 | Date of installation | • | | | required | | |
| 0102-10 | Date of last maintenance | • | | | required | | |
| 0102-11 | Valve Notes | • | | | required | | |
| 0103 | Hydrant | • | | | required | | |
| 0103-1 | Hydrant ID | • | | | required | | |
| 0103-2 | Networks | • | | | required | | |
| 0103-3 | Systems | • | | | required | | |
| 0103-4 | Hydrant type | • | | | required | | |
| 0103-5 | Hydrant diameters | • | | | required | | |
| 0103-6 | Date of installation | • | | | required | | |
| 0103-7 | Last maintenance Date | • | | | required | No records have been kept at all | |
| 0103-8 | Hydrant Notes | • | | | required | | |
| 0104 | Air valve | • | | | required | | |
| 0104-1 | Air Valve ID | • | | | required | | |
| 0104-2 | Networks | • | | | required | | |
| 0104-3 | Systems | • | | | required | | |
| 0104-4 | Air Valve size | • | | | required | | |
| 0104-5 | Date of installation | • | | | required | | |
| 0104-6 | Last maintenance Date | • | | | required | No records have been kept at all | |
| 0104-7 | Air Valve Notes | • | | | required | | |
| 0105 | Water pipe bridge | • | | | required | | |
| 0105-1 | ID | • | | | required | | |
| 0105-2 | Length | • | | | required | | |
| 0105-3 | Pipe material | • | | | required | | |
| 0105-4 | Last maintenance Date | • | | | required | | |
| 0105-5 | Bridge Name | • | | | required | | |
| 0105-6 | Bridge material | • | | | required | | |
| 0106 | Sewer Manholes | • | | | required | | |
| 0106-1 | Sequential number | • | | | required | | |

West Kola Ridge A DMA Input item of GIS

| No. | GIS subject | Progress of Database | | | Frequency of update*(1) | Remarks |
|---|--|----------------------|---------|---------|-------------------------|---------|
| | | Updated | Ongoing | Not yet | | |
| | 0107-1 SP_ACV | | | | required | |
| | 0107-3 Sewer Pipe diameters | | | | required | |
| | 0107-4 SP_TYPE | | | | required | |
| | 0107-5 SP_MAXE | | | | required | |
| | 0107-6 SP_DATE | | | | required | |
| | 0107-7 SP_DI_ORG | | | | required | |
| | 0107-18 SP_CVNNNO | | | | required | |
| | 0107-19 SP_CVNNNEC | | | | required | |
| | 0107-20 SP_LINK | | | | required | |
| | 0201-1 Leakage location | | | | Daily | |
| | 0201-2 ID | | | | Daily | |
| | 0201-3 Leakage Type | | | | Daily | |
| | 0201-4 Status of Leak | | | | Daily | |
| | 0201-5 Location | | | | Daily | |
| | 0201-6 Condition | | | | Daily | |
| | 0201-7 Asset type | | | | required | |
| | 0201-8 Asset Size | | | | required | |
| | 0201-9 Asset Material | | | | required | |
| | 0201-10 Date of survey | | | | Daily | |
| | 0301-1 Flow meters | | | | required | |
| | 0301-2 ID | | | | required | |
| | 0301-3 Network | | | | required | |
| | 0301-4 System | | | | required | |
| | 0301-5 Location | | | | required | |
| | 0301-6 Size | | | | required | |
| | 0301-7 Date of Installation | | | | required | |
| | 0301-8 Last maintenance Date | | | | required | |
| | 0301-9 Logging | | | | required | |
| | 0301-10 Flow meter Notes | | | | required | |
| | 0302-1 Feeder paper (service paper) | | | | required | |
| | 0302-2 PipeID | | | | required | |
| | 0302-3 Pipe material | | | | required | |
| | 0302-4 Pipe size | | | | required | |
| | 0303-1 Water meter | | | | Daily | |
| | 0303-2 HouseID | | | | Daily | |
| | 0303-3 Customer's Name | | | | Daily | |
| | 0303-4 MeterID | | | | Daily | |
| | 0303-5 Status of Meter (whether working, banned etc) | | | | required | |
| | 0303-6 Manufacturer | | | | required | |
| | 0303-7 Size of Meter | | | | required | |
| | 0303-8 Date of installation | | | | required | |
| | 0303-9 Lot Number | | | | required | |
| | 0303-10 Comments | | | | required | |
| 2. Water Source information | | | | | | |
| | 0401-1 Bore hole | | | | required | |
| | 0401-2 Borehole ID | | | | - | |
| | 0401-3 Borehole Type | | | | - | |
| | 0401-4 Well depth(m) | | | | required | |
| | 0401-5 Head | | | | - | |
| | 0401-6 Head Unit | | | | - | |
| | 0401-7 Pump ID | | | | - | |
| | 0401-8 Location | | | | required | |
| | 0401-9 Manufacture | | | | - | |
| | 0401-10 Serial No. | | | | - | |
| | 0401-11 Flow Rate | | | | required | |
| | 0401-12 Static Water Level | | | | required | |
| | 0401-13 Dynamic Water Level | | | | required | |
| | 0401-14 Date of Pump Installed | | | | required | |
| | 0401-15 Date of last maintenance | | | | required | |
| | 0401-16 Age | | | | required | |
| | 0401-17 Status | | | | required | |
| 3. Pump Station information | | | | | | |
| | 0402-1 Pump station | | | | required | |
| | 0402-2 Station ID | | | | - | |
| | 0402-3 Unit name | | | | required | |
| | 0402-4 Station type | | | | required | |
| | 0402-5 Location | | | | required | |
| | 0402-6 Age | | | | required | |
| | 0402-7 Status | | | | required | |
| | 0402-8 Power Usage (KWh) | | | | required | |
| | 0402-9 Number of pump | | | | required | |
| 4. Service reservoir information | | | | | | |
| | 0403-1 Service reservoir | | | | required | |
| | 0403-2 Service reservoir name | | | | - | |
| | 0403-3 Structure of service reservoirs | | | | - | |
| | 0403-4 Elevation of service reservoirs | | | | required | |
| | 0403-5 Capacity of service reservoir | | | | required | |
| | 0403-6 H.W.L. L.W.L. | | | | required | |
| | 0403-7 Date of last maintenance | | | | required | |
| | 0404-1 Distribution area of source | | | | required | |
| | 0404-2 Area name | | | | required | |

West Kola Ridge A DMA Input item of GIS

| No. | GIS subject | Progress of Database | | | Frequency of update*(1) | Remarks |
|----------------------------------|--|----------------------|---------|---------|-------------------------|---------|
| | | Updated | Ongoing | Not yet | | |
| 6. Other informations | | | | | | |
| | 0405-1 Water quality (Free-pond observation) | | | | required | |
| | 0405-2 Water Quality Point No. | | | | Daily / Monthly | |
| | 0405-3 Location Name | | | | Daily / Monthly | |
| | 0405-4 Date of Survey | | | | Daily / Monthly | |
| | 0405-5 Source name | | | | Daily / Monthly | |
| | 0405-6 Source Type | | | | Daily / Monthly | |
| | 0405-7 Catchment coordinates | | | | Daily / Monthly | |
| | 0405-8 Catchment area(hectares) | | | | Daily / Monthly | |
| | 0405-9 Flow Rate (L/s) | | | | Daily / Monthly | |
| | 0405-10 Chlorine Demand (mg / 10L) | | | | Daily / Monthly | |
| | 0405-11 Hardness (mg/L) | | | | Daily / Monthly | |
| | 0405-12 Turbidity (NTU) | | | | Daily / Monthly | |
| 8. Customer's information | | | | | | |
| | 0406-1 Customer ID | | | | Daily | |
| | 0406-2 Customer's name | | | | Daily | |
| | 0406-3 House ID | | | | Daily | |
| | 0406-4 Type Of Account | | | | Daily | |
| | 0406-5 Boundary of plot (area) | | | | required | |
| | 0406-6 Customer's status | | | | Daily | |

*1 - The term of "Required" indicates the irregular update work.
 For example, such as "lighting, if an information sheet is available."
 Since it is an ambiguous definition, SW and ICA expert team will discuss and decide clearly from now on.
 And it will indicate by an operation manual.