ASSET DATA DICTIONARY DEFINITION DOCUMENT (AD4)
L21372 – SUMP

Document Number: **CRL1-XRL-Z3-ADDSD-CR001-50540**

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Document History:

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2.0	12-Feb-2015	Kemi Olawale	[redacted]	[redacted]	Labelling Section updated New Attribute added
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10.0	25-Apr-2017	[redacted]	[redacted]	[redacted]	LRS Codes Updated

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1 Introduction

Not Applicable

1.1 Asset Details

Class Code:	L21372
Class Name:	Sump
Class Lineage:	Construction Products>Complete Construction Entities and Components>Civil Engineering Works Products>Railway Products>Track Drainage>Sump

1.2 Description

A Sump is a device which collects water or chemicals that are not desirable to be present. A sump can also be present to manage runoff water prior to re-absorption into adjacent drainage or geology.

1.3 Related Functions

All information on the configuration of asset classes (L-Class) to functions is contained within the latest revision of the Asset Data Dictionary Master Configuration document (eB ref: CRL1-XRL-Z3-ADDSD-CR001-50186)

2 Asset Tag Identification Rules

Assets will be identified as required by the Asset Identification Standard (CRL1-XRL-O6-STD-CR001-00031), in the following format:

<LCS Code>-<Function Code>-<Incremental number to ensure uniqueness>

e.g. C125-TSP-12345

Information and guidance on the standard naming convention for all asset classes is contained within the latest revision of the Asset Naming Convention Document (eB ref: CRL1-XR1-Z3-ADDSD-CR001-50413)

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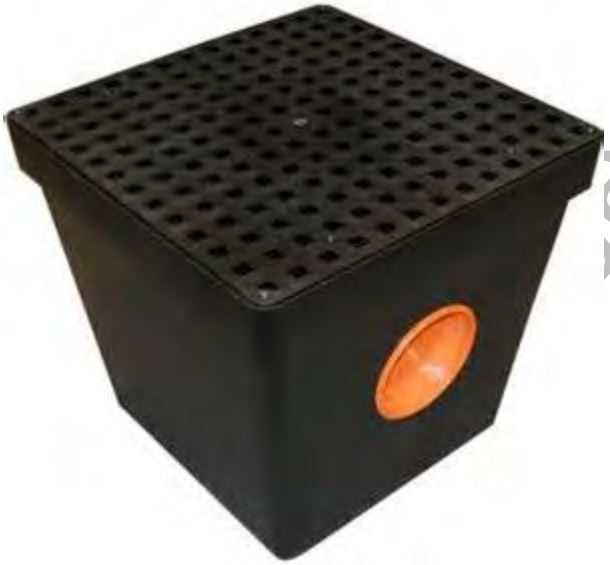
2.1 Example Images



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3 Attributes

3.1 Generic Attributes

All Classes of assets will have a set of Generic Attributes for which data is collected without exception. Full details relating to these assets can be found at:

AD4 – Generic Attributes CRL1-XRL-Z3-ADDSD-CR001-50069

3.2 Class Specific Attributes

Below is a table of the further specific attributes which are associated with this asset class.

Attribute Name	Base Unit or Formula	Value Type (See Below)	Decimal Places (nu Only)	Defined Values List (pd only)	Description
Capacity (Litres)	Litres	NU	2		Total liquid holding capacity of Sump
Connection shape		PD		Circular Square	Connection shape of inlets and outlets
Depth (Metres)	Metres	NU	2		Depth of sump
Sump Type		PD		Cast InSitu Procured	Type of sump installed i.e. prefabricated, procured and installed or fabricated on site from Cast inSitu concrete or other material.
Meterage (Metres)	Metres	NU	0		Meterage (Chainage) location of asset. To be populated only when the asset is located on track.
Vented		PD		Yes No	Is the Sump vented?
Number of Inflows (#)	#	NU	0		Number of inflows into the sump
Number of Outflows (#)	#	NU	0		Number of outflows from the sump

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Attribute Name	**Base Unit or Formula**	**Value Type** (See Below)	**Decimal Places** (nu Only)	**Defined Values List** (pd only)	**Description**
Diameter (Millimetres)	Millimetres	NU	0		Diameter of the sump (for circular sumps)
Length (Millimetres)	Millimetres	NU	0		Length of the longest edge of sump (for rectangular sumps)
Width (Millimetres)	Millimetres	NU	0		Length of the short edge of sump (for rectangular sumps)
LRS Code		PD		C.EB C.EB.CRW5 C.EB.CR1 C.EB.CR7 C.EB.TBC C.WB C.WB.CRW9 C.WB.CRW6 C.WB.CR2 C.WB.CR5 C.WB.TBA C.WB.TBB CNE.EB CNE.WB CSE.EB CSE.EB.CR11 CSE.WB CSE.EB.CR13 CSE.WB.CR15 Non Track	The Crossrail Linear Referencing Standard code (CRL1-XRL-O6-STD-CR001-00026) where the asset is located. When the asset is not located on track then non track should be selected. The LRS codes are as follows: C.EB - Central Section Eastbound C.EB.CRW5 - Crossover between W5 and W4 Points C.EB.CR1 - Crossover between C1 and C4 Points C.EB.CR7 - Crossover between C7 and C8 Points C.EB.TBC - Turnback C C.WB - Central Section Westbound C.WB.CRW9 - Crossover between W9 and W8 Points C.WB.CRW6 - Crossover between W6 and W3 Points C.WB.CR2 - Crossover between C2 and C3 Points C.WB.CR5 - Crossover between C5 and C6 Points C.WB.TBA - Turnback A C.WB.TBB - Turnback B CNE.EB - Central Section North East Spur Eastbound CNE.WB - Central Section North East Spur Westbound CSE.EB - Central Section South East Spur Eastbound CSE.EB.CR11 - Crossover between C11 and C12 Points CSE.WB - Central Section South East Spur Westbound CSE.EB.CR13 - Crossover between C13 and C14 Points CSE.WB.CR15 - Crossover between C15 and C16 Points Non Track - Non Track Assets
Vented		PD		Yes No	Is the sump vented – Yes/No
Invert Level (Metres)	Metres	NU	2		The pipe invert level is the level of the INSIDE bottom of the pipe. This level allows of the slope of the pipe to be set at various points so that the fluid will flow by gravity

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Attribute Name	Base Unit or Formula	Value Type (See Below)	Decimal Places (nu Only)	Defined Values List (pd only)	Description
Effluent Type		PD		Foul/sewage Non-Foul	Foul/sewage – Includes water from toilets, sinks and baths but does not include surface water unless it has been in contact with foul water Non-Foul – Surface water and other drainage not contaminated by sewage or chemically contaminated water

pd = Predefined List (Listed Values Only)
nu = Numeric (dp and number format can be stipulated)
ch = Free text (Max 255 Characters)
da = Date (dd-mm-yyyy)
me = Memo (Free text 1GB Limit)

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4 Performance Data

This section is to be used to specify the performance data to be gathered from this Class of asset when in operation. To be populated once the performance measures have been agreed with the Infrastructure Managers.

5 Labelling

Information and guidance on the standard labelling convention for all asset classes is contained within the latest revision of the Asset Naming and Labelling Convention Document (eB ref: CRL1-XR1-Z3-ADDSD-CR001-50413).

6 Other Information

Not Applicable

7 Reference Material

- Asset Data Dictionary Master Configuration document - CRL1-XRL-Z3-ADDSD-CR001-50186
- Asset Identification Standard - CRL1-XRL-O6-STD-CR001-00031
- AD4 – Generic Attributes - CRL1-XRL-Z3-ADDSD-CR001-50069
- <ADD OTHER REFERENCE DOCUMENTS HERE>

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8 Crossrail Technical Approvals

Name	Role	Date
[redacted]	Lead Mechanical & Electrical Plant (MEP) Engineer	17-Oct-2014

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