**Inspection and Test Plan – Gross Pollutant Trap& Diversion Structure PV-GPT-2**

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| **Project no.** | | **CC-0371** | **Project name** | Parkville Urban Realm Works | | **Date** | 10/10/2022 | | **Approved by** | Maher Moharam |
| **ITP no.** | ITP-SYM-16 | | **Revision date** | 10/10/2022 | **Plant and equipment used** | | |  | | |
| **Lot no.** |  | | **Location (chainages, detailed description or marked up plan)** | | | | |  | | |

Attach Dockets, Certificates and QA Documents to ITP

|  |  |  |  |  | **Verification of acceptance by** | | | | | **Remarks/record (eg. Test frequency reports, certificates, checklist etc)** |
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|  |  |  |  |  | **Symal** | | | **CYP D&C JV** | |
| **Item no.** | **Activity** | **Ref docs** | **Acceptance criteria** | **Freq** | **Key** | **Resp** | **Initial/ date** | **Key** | **Sign/ date** |
| **1. 0 General Details** | | | | | | | | | | |
| **1.1** | Site Preparation and Excavation Sequence | SPEL  Vortceptor Installation Manual | prepare the excavation for the Vortceptor separation chamber first.  Yes ☐ No ☐ N/A ☐  Did the excavation for the Diversion Chamber (the rectangular precast concrete chamber) follow  Afterwards the Vortceptor.  Yes ☐ No ☐ N/A ☐  was the inlet pipe run would installed, within one or two pipe lengths prior to the diversion chamber.  Yes ☐ No ☐ N/A ☐ | Prior to the Start of Activity | **H** | SS |  |  |  | Attach manufacturer Installation manual |
| **1.2** | Set Out | Civil drawings | Is the work area clearly pegged out for line and level?  Yes ☐ No ☐ N/A ☐  Zone\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Stage\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Prior to the Start of Activity | S | ss |  |  |  |  |
| **1.3** | Excavation Permit &  Penetration Permit | SMP  VR 602.03 | Were all identified underground services marked and potholed to confirm location and depth and no machine excavation within 1m of underground services.  Yes ☐ No ☐ N/A ☐  Relevant permits have been signed and approved.  Yes ☐ No ☐ N/A ☐  Extents and levels correct to relevant drawings  Yes ☐ No ☐ N/A ☐  50mm Blinding to be placed as required to allow working surface and protect excavation.  Yes ☐ No ☐ N/A ☐  Excavation for Vortceptor to a total depth of \_\_\_\_\_\_\_mm  Excavation for Diversion Chamber to a total depth of \_\_\_\_\_\_\_mm | Prior to the Start of Activity | H | SE/PE |  | **H** |  |  |
| **2.0 Vortceptor Installation** | | | | | | | | | | |
| **2.1** | Vortceptor Installation | SPEL  Vortceptor Installation Manual | were measurements checked on the Vortceptor prior to installation, and confirmd as per approved IFC  Yes ☐ No ☐ N/A ☐  The Vortceptor excavation should be no greater than required, this would be 1000mm oversized or to suit shield sizing. This is with due regard to the amount of backfill to be used under and around the tank.  Yes ☐ No ☐ N/A ☐  Were 150mm thick, compacted base of either a concrete blinding or compacted crushed rock layer installed.  Yes ☐ No ☐ N/A ☐  Was the Vortceptor lowered into the excavation with no rocks or sharp objects falling into the hole and no damage to the tank  Yes ☐ No ☐ N/A ☐  Were the levels of the Vortceptor adjusted to suit pipeworks and diversion chamber inlet void?  Yes ☐ No ☐ N/A ☐  Fill the tank with water up to the invert of the inlet  Yes ☐ No ☐ N/A ☐  Encase & backfill the outside of Vortceptor as per project backfilling specs  Yes ☐ No ☐ N/A ☐  Is the take located in an area subject to high water table or trapped underground water?  If yes,  , the tank must be completely encased in  unreinforced concrete, up to the specified height above the Vortceptor base,  and at the minimum specified width beyond the perimeter of the Vortceptor  base. Refer to SPEL Stormwater for recommended concrete dimensions and  volumes to withstand buoyancy forces.  Yes ☐ No ☐ N/A ☐ | Prior to the Start of Activity | S | SS |  | **IR/**  **CYP(W)** |  | Attach IFC drawings |
| **2.2** | Diversion Chamberb Installation | SPEL  Vortceptor Installation Manual | were measurements checked on the Diversion Chamber prior to installation, and confirmd as per approved IFC  Yes ☐ No ☐ N/A ☐  has the diversion chamber excavation pit been prepared as per Construction drawings  Yes ☐ No ☐ N/A ☐  Is sufficient room left to install inlet pipe and pipe is angled to be fed into the diversion chamber?  Yes ☐ No ☐ N/A ☐  Was the Diversion Chamber adjusted to a correct level so the rectangular opening matches the Vortceptor with the inlet and outlet block outs are to match the drainage line.  Yes ☐ No ☐ N/A ☐  Use the template provided with the Vortceptor to drill the bolt holes into the diversion chamber rectangular void.  Yes ☐ No ☐ N/A ☐  Use Sikaflex or silicone to seal the Vortceptor to the Diversion Chamber, use 8.5mm 4 cutter SDS bit to drill the bolt holes.  Yes ☐ No ☐ N/A ☐  Use M8 x 100mm Galvanised screw bolts to fix the Vortceptor to the Diversion Chamber.  Yes ☐ No ☐ N/A ☐ | Prior to the Start of Activity | S | SS |  | **IR/**  **CYP(W)** |  |  |
|  | Associated Drainage & Finishing  Works. | SPEL  Vortceptor Installation Manual | Were upstream and downstream drainage pipework Installed?  Yes ☐ No ☐ N/A ☐  Connect the pipework to the Diversion Chamber, concrete bandage the inlet and outlet pipes to the Diversion Chamber.  Yes ☐ No ☐ N/A ☐  Internally render the inlet and outlet pipework  Yes ☐ No ☐ N/A ☐  Use low slump concrete to mass infill and bench the base of the diversion chamber and weir. This is to direct the flow and remove any dead zones in the diversion chamber.  Yes ☐ No ☐ N/A ☐ | Prior to the Start of Activity | S | SS |  | **W** |  |  |
|  | Cover Slab Installation | SPEL  Vortceptor Installation Manual | Use a Sikaflex bead around the rebate on the top of the Diversion Chamber to ensure a satisfactory seal between cover slab (Lid) and chamber.  Yes ☐ No ☐ N/A ☐  Lift and install cover slab, ensure manhole void / cover is on Vortceptor side of the chamber.  Yes ☐ No ☐ N/A ☐  Use Sikaflex and screw bolts to secure fibreglass manhole riser to cover slab  Yes ☐ No ☐ N/A ☐  Tie in the manhole covers as per lid manufacturers installation guidelines, to achieve Finished Surface level.  Yes ☐ No ☐ N/A ☐ | Prior to the Start of Activity | S | SS |  | **W** |  |  |

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| **Works complete (signer SS)** | |  | | | **Date works complete** | |  | | | |
| **Lot conforms (signer PE)** |  | | **Date lot closed** |  | | **NCR/s no. raised** | |  | **Date NCR closed for this lot** |  |

**Responsibility (Resp.) Key**: **PM**-Project Manager, **PE**-Project Engineer, **SE**- Site Engineer, **CS**-Civil Superintendent, **SS**-Site Supervisor, S**V**-Surveyor, **CR**-Client Representative,

**SI –** Superintendent

**Inspection Key: W –** Witness, **H –** Hold Point, **S –** Surveillance, **R –** Review, **I –** Inspection