Table K1 *Cumulative Statistics on Exceedances*

Parameters	Level of Exceedance	Total No. recorded in this reporting month	Total No. recorded since project commencement
1-hr TSP	Action	0	30
	Limit	0	2
24-hr TSP	Action	0	5
	Limit	0	1
Water Quality	Action	0	6
	Limit	0	1
Impact Dolphin Monitoring	Action	0	9
	Limit	1	5

Table K2 *Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions*

Reporting Period	Cumulative Statistics		
	Complaints	Notifications of Summons	Successful Prosecutions
This Reporting Month (May 2016)	1	0	0
Total No. received since project commencement	5	0	0

Contract No. HY/2012/08
Tuen Mun – Chek Lap Kok Link –
Northern Connection Sub-sea Tunnel Section

ENVIRONMENTAL COMPLAINT INVESTIGATION REPORT

Our Reference: 0212330_Complaint LOG_20160519_04

Basic Information of Complaints

Reference Numbers:	**N/A**
Date of Complaints Received	19 May 2016
Location of Complaints	Southern Landfall – Barge Area
Nature of Complaints	Dust emission
Complaints Received by	Environmental Protection Department (EPD)
Via	Email
Complainants	Not disclosed

Details of Complaints

On 19 May 2016, a complaint case was received by EPD regarding dust emission from the barge area at Southern Landfall. The Contractor and the ET received the complaint notification on 20 May 2016. The ET was informed that the case is categorized as complaint in nature upon the investigation, discussion and agreement between different parties (i.e. the Contractor (DBJV), SOR and ENPO).

Investigation Report

Upon receiving the case notification from EPD on 20 May 2016, the Contractor had promptly checked the works summary.

Based on the record of the Contractor's works summary, dust nuisance was recorded at the barge area of Southern Landfall on 18 May 2016 at around 4:10pm. According to the construction information provided by the Contractor, the majority of works during that period was jet grouting. After dust emission was observed from the barge, the grouting operator has stopped the works within two (2) minutes. Upon thorough investigation, it was found that the pressure of the pipe accidentally increased which caused damage on the pipe and malfunction on the filter, and thus created the dust emission. All related works had stopped. A new filter was added and the damaged pipe was replaced by a new pipe on 19 May 2016. No dust emissions were observed after the replacement.

Also, a joint site inspection was carried out with the Contractor, SOR and EPD on 23 May 2016 to verify the remedial measures (see photo records on Annex A). No further defects were observed and no adverse comments were received.

According to the complaint notification from EPD, the dust nuisance was observed by the complainant in the afternoon of 18 May 2016. After investigation and discussion with the Contractor, it was concluded that the dust nuisance observed by the complainant was the same as the dust nuisance observed by the Contractor.

Mitigation Measures and Follow-Up Actions Recommended to/ Undertaken by Contractor

The Contractor has been reminded to adhere strictly to implement all relevant dust mitigation measures recommended or specified in the EP (EP-354/2009/D), the approved EIA and the Updated EM&A Manual of this Project to avoid causing dust nuisance.

The loading, unloading, transfer and handling of cement and PFA shall be carried out in a totally enclosed system, and any vent or exhaust shall be fitted with an effective fabric filter.

In the above case, 24-hour supervision of the grouting process has been recommended in order to prevent accidental dust emission. The Contractor has also been reminded to carry out weekly inspection and maintenance of the facility including pipes, filters and tanks, etc. Contingency plan should be implemented to mitigate the environmental impacts. The Contractor should stop the works immediately if similar incident occur. Verification of the facility by the ET is required before the resumption of works.

The Contractor has been reminded to document the mitigation measures in the method statement of construction activities with same cement transportation/handling procedures. No other additional action is required.

Date of File Closed : 27 May 2016

Approved and Filed by:

(Jovy Tam, ET Leader)
Date: 27 May 2016

NOTE:
1) CONCRETE & REBAR DELIVERY BY ROAD
2) PROVISION WILL BE MADE FOR CONCRETE SAMPLING & TESTING
3) ALL LOADS ON THE RECLAMATION WILL NOT EXCEED 20kPa.

WORKS BOUNDARY
SITE MAIN ENTRY EXIT (FUTURE)
PEDESTRIAN ACCESS FOOTWAY
TRAFFIC CONTROL POINT
HKBCF WORKING AREA BACK OF SEAWALL CELLS
CONTAINERS
EXTENT OF BAND DRAIN INSTALLATION
PARKING AREA
10% RAMP
MUD PIT
FUTURE REBAR STORAGE
FUTURE CAGES STORAGE 50mx10m
FUTURE BED 3.5mx35m
JET GROUT TRIAL AREA
CSM PARKING PLUG AREA (23m x 10m)
QUALITY CONTROL
DG STORE
PLANT WORKSHOP (10mx12m)
CHEMICAL STORAGE/WASTE POINT
WORKERS AMENITIES
BENDING YARD
WET MIX PLANT
WATER TREATMENT PLANT
REBAR YARD AREA TO AVOID CLASH WITH BAND DRAIN INSTALLATION
PIPE UTILITIES FROM BARGE (LOCATION FLEXIBLE)
BRIDGE
PEDESTRIAN ACCESS FOOTWAY FROM BARGE
PIPE UTILITIES FROM BARGE
BARGE PONTOON
HOPPER BARGE FOR MARINE DEPOSIT
DERRICK LIGHTER FOR SAND
MARINE ANCHOR
SPOIL DISPOSAL
DESANDING BARGE 2
BENTONITE BARGE
DESANDING BARGE 1
JET GROUTING BARGE
CSM BARGE
WATER BARGE
CEMENT BARGE
WATER SUPPLY
Area of Incident

SITE TEMPORARY LIGHTING
TRAFFIC CONTROL POINT
HKBCF AREA AT BACK OF SEAWALL

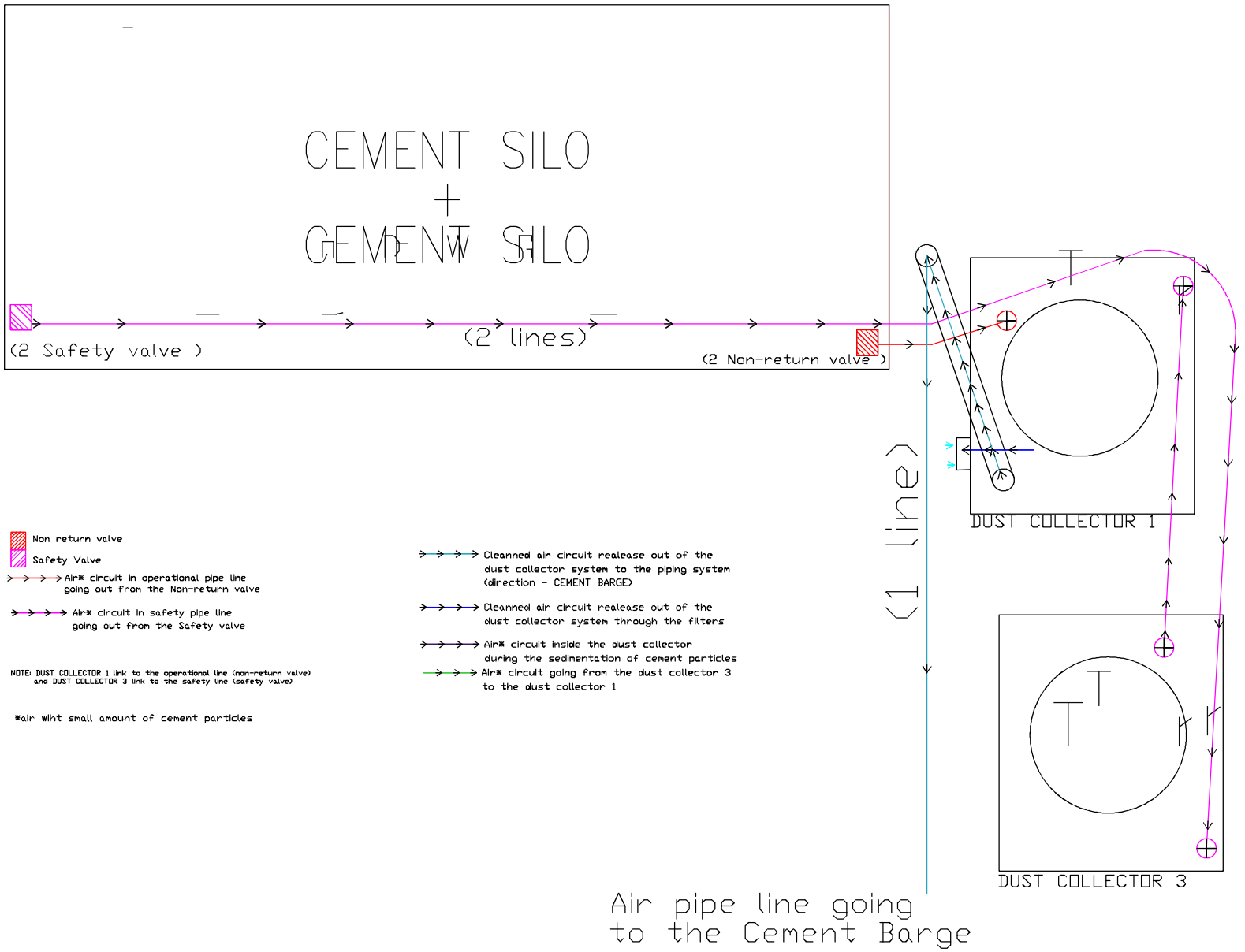
Rev.	Date	Drawn	Designed	Verified	Description	Approved
F	06APR16	pkv	pkv	DLa	ROAD & PEDESTRIAN ACCESS WAY UPDATED	SPo
E	02APR16	pkv	pkv	DLa	SI UPDATED FOR APRIL	SPo
D	23MAR16	pkv	pkv	DLa	PIPE UTILITIES FROM BARGE ROUTE REVISED	SPo
C	21MAR16	pkv	pkv	DLa	WETSEP, 3 LOCATIONS / CSM & JET SET-UP	SPo
B	11MAR16	pkv	pkv	DLa	UPDATE	SPo
A	10MAR16	pkv	pkv	DLa	FIRST ISSUE	SPo

Main Contractor: Dragages - Bouygues Joint Venture 震基 - 布依特聯營
Client: 路政署 HIGHWAYS DEPARTMENT
Contractor's Designer: ARUP Ove Arup & Partners Hong Kong Limited

Project: Contract No. HY/2012/08
Tuen Mun - Chek Lap Kok Link -
Northern Connection Sub-Sea Tunnel Section

Drawing Title: SOUTHERN LANDFALL
SITE INSTALLATION LAYOUT – APRIL16
SET-UP AFTER SURCHARGE REMOVAL TO +5.5mPD

Drawing no.: TMCLKL8-DBJ-SAA-MSI-06176
Scale: 1:1500(A3)
CADD Ref.: SAA-MSI-06176-F-IFA
Issue Status: IFA (ISSUE FOR APPROVAL)
Revision: F



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SOUTH VENTILATION SHAFT

DBW MARINE SET-UP

JET GROUTING BARGE – Dust Collector Piping System

No scale

*air wiht small amount of cement particles

CEMENT SILO

CEMENT SILO

Non return valve

Safety Valve

Air* circuit in operational pipe line going out from the Non-return valve

Air* circuit in safety pipe line going out from the Safety valve

Cleanned air circuit realease out of the dust collector system to the piping system (direction - CEMENT BARGE)

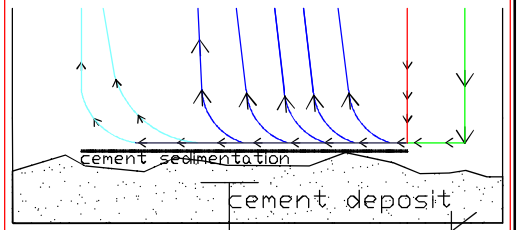
Cleanned air circuit realease out of the dust collector system through the filters

Air* circuit inside the dust collector during the sedimentation of cement particles

Air* circuit going from the dust collector 3 to the dust collector 1

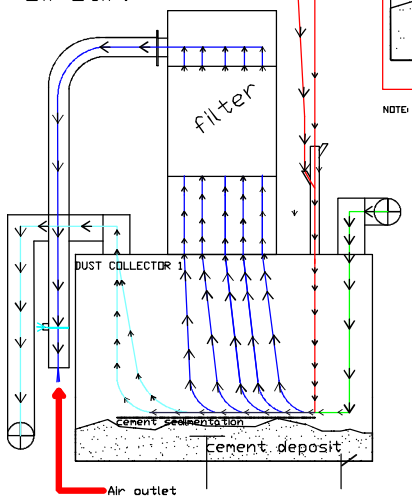
Water inlet in the dust collector outlet

DETAIL OF DUST COLLECTOR STEEL BOX



NOTE: DUST COLLECTOR 1 link to the operational line (non-return valve) and DUST COLLECTOR 3 link to the safety line (safety valve)

Dust collector circuit



Contract No. HY/2012/08
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Northern Connection Sub-Sea Tunnel Section

SOUTH VENTILATION SHAFT

DBW MARINE SET-UP

JET GROUTING BARGE – Dust Collector Piping System

Scale: No scale

Scheme representative of the piping system air circulation in the dust collector

ERM

Annex A Photo Records taken during Site Investigation

*Note: Photos taken on 23/5/2016

New filter was added. (Barge area - Southern Landfall)

The damaged pipe was replaced by a new pipe. (Barge area - Southern Landfall)

ERM

Annex A Photo Records taken during Site Investigation

*Note: Photos taken on 23/5/2016

A joint site inspection was carried out by the ET, the Contractor, SOR and EPD on 23 May 2016.
(Barge area - Southern Landfall)