MONTHLY EM&A REPORT

ATAL-Degrémont-China State Joint Venture

Contract No. DC/2008/03 Design, Build and Operate Pillar Point Sewage Treatment Works: *Ninth Monthly EM&A Report*

August 2011

Environmental Resources Management

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August 2011 Reference 0119806

For and on behalf of
ERM-Hong Kong, Limited
Approved by: Frank Wan
Signed: <u>Marchart</u>
Position: Partner
Certified by: (Environmental Team Leader – Roger Leung)
Certified by:
Date: 12 August 2011
(Environmental Team Leader – Roger Leung) Certified by: (Registered Landscape Architect (R078) - Christina Ip)



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Drainage Services Department Sewage Services Branch Harbour Area Treatment Scheme Division 5/F., Western Magistracy, 2A Pok Fu Lam Road, Hong Kong.

Attn: Mr. Eddie S.K. LEUNG (T:2159 3413)

12 August 2011

Dear Sir,

Contract No. CV/2008/03 Design, Build and Operate Pillar Point Sewage Treatment Works

Monthly EM&A Report for July 2011

Reference is made to Environmental Team (ET)'s revised draft of the Monthly EM&A Report for July 2011 provided by email dated 11 August 2011. We have no further comment.

We hereby verify the said Monthly EM&A Report as having complied with the requirement as set out in the EM&A Manual in accordance with the condition 3.6 of Environmental Permit No. EP-321/2008.

Should you have any queries, please feel free to contact the undersigned at 3105 8537.

For and on behalf of AECOM Asia Co. Ltd.

Y T Tang Independent Environmental Checker

c.c. AECOM – Mr. Tim Lee ERM – Ms. Winnie Ko ATAL–Degremont–China State JV – Mr. C.Y. Fong (Fax No. 2317 7609) (Fax No. 2723 5660) (Fax No. 2811 3321)

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EXECUTIVE SUMMARY

The construction works of *DC/2008/03 of Design, Build and Operate Pillar Point Sewage Treatment Works (the Project)* commenced on 13 November 2010. This is the 9th monthly Environmental Monitoring and Audit (EM&A) report presenting the EM&A works carried out during the period from 1 to 31 July 2011 in accordance with the EM&A Manual.

Summary of Construction Works undertaken during the Reporting Month

Works undertaken during the reporting month included:

- Constructing vertical blinding at zone 3, 4 and 5;
- Installation and surrounding concrete for Φ1600 steel pipe, at zone 3,4 and 5;
- Installation and surrounding concrete for Φ200 DI pipe at zone 5;
- Constructing rebar and formwork for sump pit and trench at bay 1;
- Constructing rebar and formwork for corridor slab at bay 4;
- Constructing vertical blinding for north;
- Constructing rebar and formwork and concreting for sump pit;
- Making good formation for admin building;
- California bearing ratio test for admin building;
- Building works for admin building.

Environmental Monitoring and Audit Progress

A summary of the monitoring activities undertaken in this reporting period is listed below:

- 24-hour average TSP Monitoring at each monitoring station (AM1 5 sets and AM2)
- 1-hour average TSP Monitoring at each monitoring station (AM1 15 sets and AM2)
- Joint Environmental Site Inspection 5 times
- Landscape & Visual Monitoring once

Air Quality

5 sets of 24-hour average TSP and 15 sets of 1-hr average TSP measurements were carried out at each of the designated monitoring stations during the reporting period. No exceedance was recorded during the reporting period.

Waste Management

Waste generated from this Project includes inert construction and demolition (C&D) materials (public fill) and non-inert C&D materials (construction wastes). A total of 523 tonnes of public fill were delivered to the fill bank and 30kg of metals, paper/cardboard and plastics were sent to recyclers in the reporting period. 7.2 tones of general refuse and no chemical waste was disposed of in the reporting period.

Environmental Site Inspection

Five weekly joint environmental site inspections were carried out by the representatives of the Contractor, the SOR and the Environmental Team (ET). Details of the audit findings and implementation status of the mitigation measures are presented in *Section 7.1*.

Landscape & Visual

Review on landscape and visual mitigation measures was performed on 29 July 2011. Details of the audit findings and implementation status of the mitigation measures are presented in *Sections* 3.2 and 7.2.

Environmental Exceedance/Non-conformance/Compliant/Summons and Prosecution

No exceedance was recorded during the reporting period.

No non-compliance event was recorded during the reporting period.

No environmental complaint and summon/prosecution was received in this reporting period.

Future Key Issues

Works to be undertaken in the next reporting month include:

- Concrete structuring for Bay 2 base slab, cone shape central pit and outer wall construction;
- Backfilling work at Westside of corridor at Bay 2;
- Constructing sump pipe base slab for Bay 3, 4 and 5;
- Constructing pipe trench between Bay 1 and Zone 2;
- Constructing piling platform at east side of corridor of Zone 1 to 5;
- Constructing base slab and wall at PTW;
- Replacing of soft formation by rock fill;
- Blinding concrete; and
- Constructing base slab at admin building.

Potential environmental impacts arising from the above construction activities are mainly associated with dust, construction noise, site runoff, waste management and landscaping issues.

1 INRODUCTION

ERM-Hong Kong, Limited (ERM) was appointed by ATAL – Degrémont – China State Joint Venture (ADC-JV) (the Contractor) as the Environmental Team (ET) to undertake the Environmental Monitoring and Audit (EM&A) programme for the *Contract No. DC/2008/03 of Design, Build and Operate Pillar Point Sewage Treatment Works (the Project).*

1.1 PURPOSE OF THE REPORT

This is the 9th EM&A report which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period from **1** to **31 July 2011**.

1.2 STRUCTURE OF THE REPORT

The structure of the report is as follows:

Section 1 : **Introduction** details the scope and structure of the report.

Section 2: Project Information

summarises background and scope of the Project, site description, project organization, construction programme, the construction works undertaken and the status of Environmental Permits (EP)/licences over the construction phase of the Project.

Section 3: Environmental Monitoring Requirements

summarises the environmental monitoring including monitoring parameters, monitoring programmes, monitoring methodologies, monitoring frequency, monitoring locations, Action and Limit Levels, Event/Action Plans, environmental mitigation measures as recommended in the approved EIA report, EP and relevant environmental requirements stated in the Contract Specification.

- Section 4 : **Implementation Status on Environmental Mitigation Measures** summarises the implementation of environmental protection measures during the reporting period.
- Section 5 : **Monitoring Results** summarises the monitoring results obtained in the reporting period.

Section 6 : **Waste Management** summarises the quantity of public fill and construction waste generated in the reporting period

Section 7: Environmental Site Inspection

summarises the audit findings of the weekly site inspections undertaken within the reporting period.

Section 8: Environmental Non-conformance

summarises any exceedance of environmental performance standard, and environmental complaints and environmental summons received within the reporting period.

Section 9: Further Key Issues

summarises the impact forecast and monitoring schedule for the next reporting month.

Section 10 : Review of the EM&A Data and Predictions

compares the monitoring data and waste quantity against predictions in the approved Project EIA report.

Section 11 : Conclusions

2.1 BACKGROUND

The existing Pillar Point Sewage Treatment Works (PPSTW) is located to the north of the Tuen Mun River Trade Terminal and is abutting the Lung Mun Road to its north. It is a preliminary treatment works with screening and grit removal processes with treated effluent discharged to the sea (North Western Water Control Zone) via a twin submarine outfall. The *Review of the Tuen Mun and Tsing Yi Sewerage Master Plan* (RTMTYSMP) commissioned in February 1999, recommended to expand the sewage treatment capacity and to upgrade the plant to chemically enhanced primary treatment (CEPT) with disinfection in order to cater for the projected ultimate population and planned developments in the Tuen Mun area, and to improve the effluent quality and hence to reduce pollution loadings to the receiving waters.

The upgrading of the PPSTW comprises the following works:

- expanding the treatment capacity of the existing PPSTW to cope with the increased peak wet-weather sewage flow in Tuen Mun area;
- upgrading the sewage treatment level of the existing PPSTW to incorporate chemical treatment with disinfection at minimum removal rates of 70%, 55% and 99.9% of suspended solids (SS), biochemical oxygen demand (BOD) and *E.coli*, respectively;
- upgrading existing septic waste reception facilities at PPSTW; and
- providing and upgrading ancillary facilities including the administration building, workshop, laboratory, odour control facilities, sludge handling and dewatering facilities, access roads and minor landscaping works within the STW for the operation and maintenance of the upgraded STW.

The potential environmental impacts of the Project have been studied in the "Upgrading of Pillar Point Sewage Treatment Works" (EIAO Register No: AEIAR-145/2008). The EIA was approved on 10 June 2008 under the Environmental Impact Assessment Ordinance (EIAO) and an Environmental Permit (EP-321/2008) for the works was granted on 17 November 2008. Under the requirements of Condition 3.1 of EP-322/2008, an EM&A programme as set out in the EM&A Manual is required to be implemented.

The construction works commenced on 13 November 2010 and are scheduled for completion by 2014.

2.2 GENERAL SITE DESCRIPTION

The open area adjacent to the existing PPSTW has been designated for the upgrading works. The layout of the upgrading works is illustrated in *Annex A*.

2.3 CONSTRUCTION ACTIVITIES

A summary of the major construction activities undertaken in the reporting period is shown in *Table 2.1*. The locations of the construction activities are shown in *Annex B*. The construction programme of the Project in the reporting month and the upcoming 3 months is presented in *Annex L*.

Table 2.1Summary of Construction Activities Undertaken during the Reporting Period

Construction Activities Undertaken

- Constructing vertical blinding at zone 3, 4 and 5;
- Installation and surrounding concrete of Φ1600 steel pipe at zone 3, 4 and 5;
- Installation and surrounding concrete of Φ200 DI pipe zone 5;
- Constructing rebar and formwork for sump pit and trench at bay 1;
- Constructing rebar and formwork for corridor slab at bay 4
- Constructing vertical blinding for north;
- Constructing rebar and formwork and concreting for sump pit;
- Making good formation for admin building;
- California bearing ratio test for admin building; and
- Building works for admin building

2.4 PROJECT ORGANISATION AND MANAGEMENT STRUCTURE

The project organization chart and contact details are shown in *Annex C*.

2.5 STATUS OF ENVIRONMENTAL APPROVAL DOCUMENTS

A summary of the valid permits, licences, and/or notifications on environmental protection for this Project is presented in *Table 2.2*.

Table 2.2 Summary of Environmental Licensing, Notification and Permit Status

Permit/ Licences/	Reference	Validity Period	Remarks
Notification			
Environmental	EP-321/2008	Throughout the	Permit granted on 17
Permit		Contract	November 2008.
Notification of	Ref No. 308136	Throughout the	-
Construction Works		Contract	
under Air Pollution			
Control (Construction			
Dust) Regulation			
Water Discharge	WT00008027-	Till 31 December	Wastewater discharge
License	2010	2015	licence was issued by
			EPD on 7 December 2010.
Construction Noise	GW-RW0074-11	28 January 2011 – 27	-
Permit		July 2011	
	GW-RW0471-11	28 July 2011 – 27	-
		January 2012	
Chemical Waste	5213-421-A2620-	Throughout the	Licence approved on 28
Producer Registration	01	Contract	October 2010

3 ENVIRONMENTAL MONITORING REQUIREMENTS

3.1 AIR QUALITY MONITORING

3.1.1 Monitoring Location

The proposed air quality monitoring stations for the construction phase of the Project, as recommended in the approved EM&A Manual, are given in *Table 2.1* and shown in *Annex D*. The proposed locations (AM1 and AM2) have been agreed with the Drainage Services Department (DSD), Environmental Protection Department (EPD) and the Independent Environmental Checker (IEC).

Table 3.1Construction Phase Air Monitoring Locations

Monitoring ID	Air Quality Monitoring Station
AM1	Tuen Mun EMSD Servicing Vehicle Station
AM2	River Trade Terminal Office

3.1.2 Monitoring Parameters and Frequency

The construction phase air quality monitoring has been conducted at the designated monitoring stations in accordance with the requirements stipulated in the EM&A Manual. 1-hour and 24-hour average TSP levels have been monitored at the frequency and duration stated in *Table 3.2*. The construction phase TSP monitoring has been conducted as per the schedule presented in *Annex E*.

Table 3.2 Construction Phase Air Quality Monitoring Parameters and Frequency

Parameter	Frequency	
24-hour TSP	Once every 6 days	
1-hour TSP	3 times every 6 days	

3.1.3 Action and Limit Levels

The Action and Limit levels have been established and presented in Table 3.3.

Table 3.3Action and Limit Levels for Air Quality

Parameter	Air Monitoring Station	Action Level, µgm ⁻³	Limit Level, µgm ⁻³
24-hour TSP	AM1	183	260
	AM2	192	260
1-hour TSP	AM1	343	500
	AM2	383	500

3.1.4 Monitoring Equipment

Continuous 24-hour and 1-hour average TSP monitoring were performed using High Volume Samplers (HVS) with appropriate sampling inlets installed, located at the designated monitoring stations. The performance specification of HVS complied with the standard method "Determination of Suspended Particulate Matter in the Atmosphere (High Volume Method)" as stipulated in US EPA Standard Title 40, Code of Federation Regulations Chapter 1 (Part 50 Appendix B). Table 3.4 summarises the equipment that were deployed for the 24-hour and 1-hour TSP monitoring respectively.

Table 3.4TSP Monitoring Equipment

Monitoring Station	Monitoring Equipment (HVS and Calibrator)
24-hr and 1-hr TSP	
AM1	GMW GS-2310 (S/N 7580), CM-AIR-43 (S/N 9833620)
AM2	GMW GS-2310 (S/N 1252), CM-AIR-43 (S/N 9833620)

3.1.5 Monitoring Methodology

The setup locations of the HVSs at monitoring stations were listed in *Table 3.1*. All HVSs were free-standing with no obstruction.

The following criteria were considered in the installation of the HVSs:

- appropriate support to secure the samplers against gusty wind were provided at AM1 and AM2;
- a minimum of 2m separation from walls, parapets and penthouses was required for rooftop samplers;
- no furnace or incinerator flues were nearby;
- airflow around the sampler was unrestricted; and
- permission was obtained to set up the samplers and to gain access to the monitoring stations.

Preparation of Filter Papers

- glass fibre filters were labelled and sufficient filters that were clean and without pinholes were selected;
- all filters were equilibrated in the conditioning environment for 24 hours before weighing. The conditioning environment temperature was around 25°C and not variable by more than ± 3°C; the relative humidity (RH) was 40%; and
- SGS Hong Kong Ltd, a HOKLAS accredited laboratory, implements comprehensive quality assurance and quality control programmes.

Field Monitoring

• the power supply was checked to ensure that the HVSs were working properly;

- the filter holder and the area surrounding the filter were cleaned;
- the filter holder was removed by loosening the foul bolts and a new filter, with stamped number upward, on a supporting screen was aligned carefully;
- the filter was properly aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter;
- the swing bolts were fastened to hold the filter holder down to the frame. The pressure applied should be sufficient to avoid air leakage at the edges;
- then the shelter lid was closed and secured with the aluminium strip;
- the HVSs were warmed-up for about 5 minutes to establish runtemperature conditions;
- a new flowrate record sheet was set into the flow recorder;
- the flow rates of the HVSs were checked and adjusted to between 1.22 1.37 m³min⁻¹ which were within the range specified in the EM&A Manual (ie 0.6 1.7 m³min⁻¹);
- the programmable timer was set for a sampling period of 24 hours ± 1 hour, and the starting time, weather condition and the filter number were recorded;
- the initial elapsed time was recorded;
- at the end of sampling, the sampled filter was removed carefully and folder in half length so that only surfaces with collected particulate matter were in contact;
- it was then placed in a clean plastic envelope and sealed;
- all monitoring information was recorded on a standard data sheet; and
- filters were sent to SGS Hong Kong Ltd for analysis.

Maintenance and Calibration

- the HVSs and their accessories were maintained in good working condition, such as replacing motor brushes routinely and checking electrical wiring to ensure a continuous power supply; and
- the flow rate of each HVS with mass flow controller were calibrated using an orifice calibrator. Initial calibrations of the dust monitoring equipments were conducted upon installation and prior to commissioning. Five-point calibration was carried out for HVSs using CM-AIR-43 Calibration Kit. HVSs are calibrated on a bi-monthly basis. The calibration records for the HVSs are given in *Annex G*.

Wind Data Monitoring

Average wind data (wind speed and wind direction) during the monitoring period were obtained from the meteorological station at Tuen Mun of the Hong Kong Observatory (HKO) and were presented in *Annex F*.

3.1.6 Event and Action Plan

The Event/Action Plan (EAP) for air quality monitoring is presented in *Annex H*.

3.2 LANDSCAPE AND VISUAL MONITORING

In accordance with the EM&A Manual, monthly landscape and visual monitoring is required to ensure that the design, implementation and maintenance of landscape and visual mitigation measures recommended in the approved EIA Report are fully achieved. The monitoring procedures and criteria as described in the EM&A Manual were adopted.

3.3 ENVIRONMENTAL MITIGATION MEASURES AND ENVIRONMENTAL REQUIREMENTS IN CONTRACT

All relevant environmental mitigation measures listed in the EIA Report and the EM&A Manual as well as the specific environmental requirements stated in Contract Specification are summarised in *Annex I*. A summary of the key environmental mitigation measures implemented as per the Contract Requirements is also presented in *Annex I*.

IMPLEMENTATION STATUS ON ENVIRONMENTAL PROTECTION REQUIREMENTS

The Contractor has implemented environmental mitigation measures and requirements as stated in the EIA Report, EM&A Manual and EP. The implementation status of the measures during the reporting period is summarised in *Annex I*.

5.1 AIR QUALITY

A total of 5 sets of 24-hour and 15 sets of 1-hour average TSP measurements have been undertaken at each of the monitoring stations (AM1 and AM2) during the reporting period. The monitoring data for 24-hour TSP and 1-hour average TSP together with wind data and graphical presentations for the past 4 months are presented in *Annex F*. The weather conditions during the monitoring period were ranges from Sunny to cloudy. The local impacts near the monitoring stations of AM1 and AM2 were mainly associated with vehicular emissions. No exceedance of Action and Limit Level of 1-hr and 24-hr TSP was recorded during the reporting period.

Wastes generated from this Project include inert construction and demolition (C&D) materials (public fill) and non-inert C&D materials (construction waste). Construction waste comprises of general refuse, metals and paper/cardboard packaging materials. Metals generated from the Project are also grouped into construction waste as the materials were not disposed of with others at public fill. Reference has been made to the Monthly Summary Waste Flow Table prepared by the Contractor (*Annex J*). With reference to relevant handling records and trip tickets of this Project, the quantities of different types of waste generated in the reporting month are summarised in *Table 6.1* below. The public fill and construction waste generated from the Project have been disposed of at the Tuen Mun Area 38 Fill Bank and WENT Landfill, respectively. 15 kg of metals, 5 kg of paper/cardboard packaging and 10 kg of plastics were sent to recyclers for recycling during the reporting period.

Table 6.1Quantities of Waste Generated from the Project

Month / Year		Quantity	
	C&D Materials Disposed	C&D Materials Disposed of at	Chemical
	of at Public Fill (inert) ^(a)	Landfill (Non-inert)	Waste ^(d)
		(Construction waste) ^{(b) (c)}	
July 2011	522.91 tonnes	7.20 tonnes	0 L
Notes:			

(a) Inert C&D materials (public fill) include bricks, concrete, building debris, rubble and excavated soil. Total 522.91 tonnes of public fill were generated and were disposed of at the Tuen Mun Area 38 Fill Bank.

(b) Non-inert C&D materials (construction wastes) include metals, paper / cardboard packaging waste, plastics and other wastes such as general refuse. Metals generated from the Project are grouped into construction wastes as the materials were not disposed of with others at the public fill. 7.20 tonnes of general refuse is recorded in the reporting month. Construction wastes other than metals and paper/cardboard packaging were disposed of at WENT Landfill. 15 kg of metals, 5 kg of paper/cardboard packaging and 10 kg of plastics were recovered and sent to recyclers for recycling during the reporting period.

- (c) General refuse was disposed of at WENT by subcontractors.
- (d) Chemical waste was collected though the licensed chemical waste collector, Dunwell Ind. (Holdings) Ltd, with the waste collection licence number 7111-757-W0015-WC.

7 ENVIRONMENTAL INSPECTIONS

7.1 WEEKLY SITE AUDITS

Joint site inspections were conducted by representatives of the Contractor, SOR and the ET on 8, 15, 22 and 29 July 2011. The IEC was also present during the joint inspection on 22 July 2011. There was no non-compliance recorded during the site inspections.

Major observations during the reporting period were summarised as follows:

8 July 2011

- Dusty C&D wastes were observed at P2 near the Gate one and at the assess road. The Contractor was reminded to cover the dusty C&D wastes immediately with tarpaulin sheet to prevent dust generation.
- Leakage of water was observed in P2 near the entrance of construction area. Also the water was observed to be oily and rusty. The Contractor was reminded to repair the pipe within 3 working days, remove the oil immediately, and to be disposed of as chemical waste via licensed chemical waste collector.
- A generator and a few bottles of hydraulic oil were observed not placed upon a drip tray at the stockpiling area to prevent leakage of oil to the ground surface. The Contractor was reminded to provide drip tray(s) for them within 3 working days.
- Oil stains were observed at the stockpiling area. The contractor was reminded to remove the oil stain within 3 working days and to dispose of it as chemical waste via licensed chemical waste collector.
- Stockpile at the stockpiling area was observed not properly covered by tarpaulin sheet. The Contractor was reminded to cover the stockpile properly within 3 working days.
- Stagnant water was observed in the holes of Zone 1 to 5. The Contractor was suggested to spray mosquito oil into the hole within 3 working days to prevent breeding of mosquito.

15 July 2011

- Dusty C&D wastes were observed at P2 near the Gate one. The Contractor was reminded to cover the dusty C&D wastes immediately with tarpaulin sheet or remove the C&D waste to prevent dust generation.
- Stagnant water was observed inside the Φ1600 pipes. The Contractor was suggested to remove the stagnant water and cover the opening of the pipe within 3 working days to prevent breeding of mosquito.

- It was observed that some tarpaulin sheets used to prevent erosion at T1 were damaged and some soil was observed gathered at the drainage channel outside the site boundary. The Contractor was reminded to replace those damaged tarpaulin sheets and remove the soil within 3 working days to prevent erosion.
- Stagnant water was observed at the U-channel near Gate 1 at P2. The Contractor was reminded to remove the stagnant water and clean-up the blocked channel within 3 working days.
- Dusty C&D wastes were observed at P2 near the Gate one. The Contractor was reminded to cover the dusty C&D wastes immediately with tarpaulin sheet or remove the C&D waste to prevent dust generation.
- Stagnant water was observed inside the Φ1600 pipes. The Contractor was suggested to remove the stagnant water and cover the opening of the pipe within 3 working days to prevent breeding of mosquito.
- Stagnant water was observed under the steel reinforcement. The Contractor was reminded to remove the water to prevent breeding of mosquitoes within 3 working days.

29 July 2011

- Stagnant water was observed at the U-channel near Gate 1 at P2. The Contractor was reminded to remove the stagnant water and clean-up the blocked channel within 3 working days.
- Dusty C&D wastes were observed at P2 near the Gate 1. The Contractor was reminded to cover the dusty C&D wastes immediately with tarpaulin sheet or remove the C&D waste to prevent dust generation.
- Stagnant water was observed inside the Φ 1600 pipes. The Contractor was suggested to remove the stagnant water and to cover the opening of the pipe at once when feasible to prevent breeding of mosquitoes.
- It was observed that the soil stockpile was not properly covered by tarpaulin sheet at stockpile area. The Contraction was reminded to properly cover the exposed soil stockpile with tarpaulin sheets to prevent generation of dust and erosion within 3 working days.
- Stagnant water was observed on tarpaulin sheet at stockpile area, waste container at steel storage area and corridor at P2 working site. The Contractor was reminded to remove the stagnant water immediately and take proper preventive measurements including making some holes at the lowest point of tarpaulin sheets and properly cover the waster container to prevent occurrence of stagnant water within 3 working days.
- General refuse and construction waste were observed at steel storage area. The Contractor was reminded to remove these materials and to implement good housekeeping practices immediately. All collected general wastes and construction waste materials should be segregated and temporarily stored properly on-site and be disposed of in an appropriate manner.
- Leakage of fresh water was observed at P2 near the steel storage area. The Contractor was suggested to fix the pipe within 3 working days.

Follow-up actions were undertaken as reported by the Contractor and observed in the next weekly site inspections conducted in the reporting period.

7.2 LANDSCAPE AND VISUAL MONITORING

In accordance with the EM&A Manual, monthly landscape and visual monitoring is required to ensure that the design, implementation and maintenance of landscape and visual mitigation measures recommended in the EIA Report are fully achieved. Review on landscape and visual mitigation measures was performed on 29 July 2011. It was confirmed that most of the necessary landscape and visual mitigation measures as summarised in *Annex I* were implemented by the Contractor. The major findings were summarised as follow:

29 July 2011

- The transplanted trees within the nursery site were pruned improperly and have cut back to stubs. It has been agreed by the Contractor, ET and RE that all the improper pruning will be rectified by further reduction to the branch collar before next landscape and visual inspection.
- A rope was found tied to a tree trunk to provide stability to its nearby facilities. The Contractor was reminded to remove the rope immediately and not to use any tree as anchor during construction to avoid damage to trees and affect their growth.

The Contractor was reminded to implement follow-up actions and the status of the follow-up actions will be reviewed in the first weekly site inspections in the next reporting period.

Key landscape and visual mitigation measures implemented in the reporting period include:

- Set up of a temporary tree nursery;
- Control dust and erosion of exposed soil;
- Stockpiling of topsoil for future reuse;
- Maintain existing tree record inventory; and
- Re-use existing top soil for new planting areas.

8 ENVIRONMENTAL NON-CONFORMANCE

8.1.1 Summary of Monitoring Exceedance

No exceedances of Action and Limit Levels of 1-hr and 24-hr TSP were recorded during the reporting period.

8.1.2 Summary of Environmental Non-Compliance

No non-compliance event was recorded during the reporting period.

8.1.3 Summary of Environmental Complaint

No complaint was received during the reporting period. The cumulative summons/prosecution log is shown in *Annex K*.

8.1.4 Summary of Environmental Summon and Successful Prosecution

No summon was received during the reporting period. The cumulative summons/prosecution log is shown in *Annex K*.

9 FUTURE KEY ISSUES

9.1.1 Key Issues for the Coming Month

Works to be undertaken during the coming monitoring period are summarised in *Table 9.1 below*.

Table 9.1 Construction Works to be Undertaken during the Next Reporting Period

Work to be taken

- Concrete structuring for Bay 2 base slab, cone shape central pit and outer wall construction;
- Backfilling work at Westside of corridor at Bay 2;
- Constructing sump pipe base slab for Bay 3, 4 and 5;
- Constructing pipe trench between Bay 1 and Zone 2;
- Constructing piling platform at east side of corridor of Zone 1 to 5;
- Constructing base slab and wall at PTW;
- Replacing of soft formation by rock fill;
- Blinding concrete; and
- Constructing base slab at admin building.

Potential environmental impacts arising from the above construction activities will mainly be associated with dust, construction noise, site runoff, waste management and landscaping issues.

9.1.2 Monitoring Schedule for the Next Reporting Period

The tentative schedule of TSP monitoring for the next reporting period was presented in *Annex E*. Environmental monitoring will be conducted at the same monitoring locations in the next reporting period. The monitoring programme has been reviewed and was considered adequate to cater for the nature of works in progress.

9.1.3 Construction Programme for the Next Three Months

The most updated construction programme for the Project is presented in *Annex L*.

ENVIRONMENTAL RESOURCES MANAGEMENT

10.1 AIR QUALITY

10

Since the EIA has included only qualitative assessment of dust impact during construction phase, a comparison was made between the monitoring results from the start of the Project and the Hong Kong Air Quality Objectives (HKAQO) (*Table 10.1*).

Table 10.1 Comparison of the HKAQO and Air Quality Monitoring Results

Monitoring Station	HKAQO, ugm ⁻³	Measured 24-hou Results, ugm ^{-3 (a) (}	r TSP Monitoring
	24 hour (1)	Average	Range
AM1	260	75	60 - 100
AM2	260	84	60 - 102
Notes:			

(a) Only 24-hour TSP monitoring results were compared as there is no 1 hour TSP criterion in HKAQO.

(b) Average and range of data were calculated between the commencement of construction works and this reporting month.

The monitoring results show that the average and range of 24-hour TSP levels recorded since the commencement of the construction works have been well within the 24-hour TSP criterion in the HKAQO. Recommended mitigation measures in *Section 3.7.1.1* of EIA have been implemented throughout the construction period and were considered effective.

10.2 WASTE MANAGEMENT

The estimated amount of waste generated in this Project and the accumulated quantities of waste generated up to this reporting month are presented in *Table 10.2*. The amount of inert C&D material sent to public fills is larger than the estimated amount in EIA. With reference to the C&D Material Assessment (Contractor's General Submission (CSF) No.: DC200803/CSF/SAF/060026/A), the difference in quantity is mainly due to differences in excavation depths and excavation methods in the Contract Works and that assumed in the Reference Design. Recommended mitigation measures in *Sections 7.5.1.1* to *7.5.1.9* of the EIA will continue to be implemented during the construction stage.

Type of Material	Estimated Amount of Public Fill and Construction Waste in EIA (inert & non-inert)	Estimated Amount of Public Fill and Construction Waste in C&D Material Assessment (CSF No.: DC200803/CSF/SAF/0 60026/A) ^(c)	Accumulated Actual Amount of Public Fill and Construction Waste Recorded ^{(a) (b)} ^(d) (inert & non-inert)
Amount of C&D	61,489 m ³	77,600 m ³	70,894 m ³
Materials Arising			
Amount of C&D	-	-	3,164 m ³
Materials Reused on other site			
Amount of C&D	14,926 m ³	18,000 m ³	0 m ³
Materials Reused on			
site			
Amount of C&D	46,563m ³	59,600 m ³	67,730m ³
Materials Sent to			
Public Fills			
General Refuse	Small	-	91.4 tonnes
Chemical Waste	Small	-	360 L

Table 10.2Quantity of Actual Amount of C&D Materials, General Wastes and Chemical
Wastes Generated and EIA Estimation

Notes:

(a) The actual amount of C&D Materials was recorded since the commencement of construction works.

(b) The density of soil and rock (bulked) is $1.8 \text{ tonnes}/\text{m}^3$.

(c) The estimated amount of C&D material generated from the Contract Works was revised in the C&D Material Assessment and submitted to the SO on 9 September 2010 (CSF No.: DC200803/CSF/SAF/060026/A) due to the new plant & facility layout.

(d) The waste flow data for April and May 2011 was updated in June 2011 based on SOR's comments and has been confirmed by the Contractor. Detail of changes is shown in Annex J.

10.3 CONCLUSION OF REVIEW

The EIA predictions and the monitoring results since the commencement of construction works have been reviewed. The EIA concluded that the Project would not cause adverse impacts to the environment, and the monitoring results have also indicated the same so far. Mitigation measures recommended in the EP, EIA and EM&A Manual will continue to be implemented throughout the construction phase of the Project.

CONCLUSIONS

11

This EM&A Report presents the EM&A programme undertaken during the reporting period from 1 to 31 July 2011 in accordance with EM&A Manual and requirements of EP (EP-321/2008).

No exceedance of Action and Limit Levels of 24-hour and 1-hour average TSP was recorded at the monitoring stations during the reporting period.

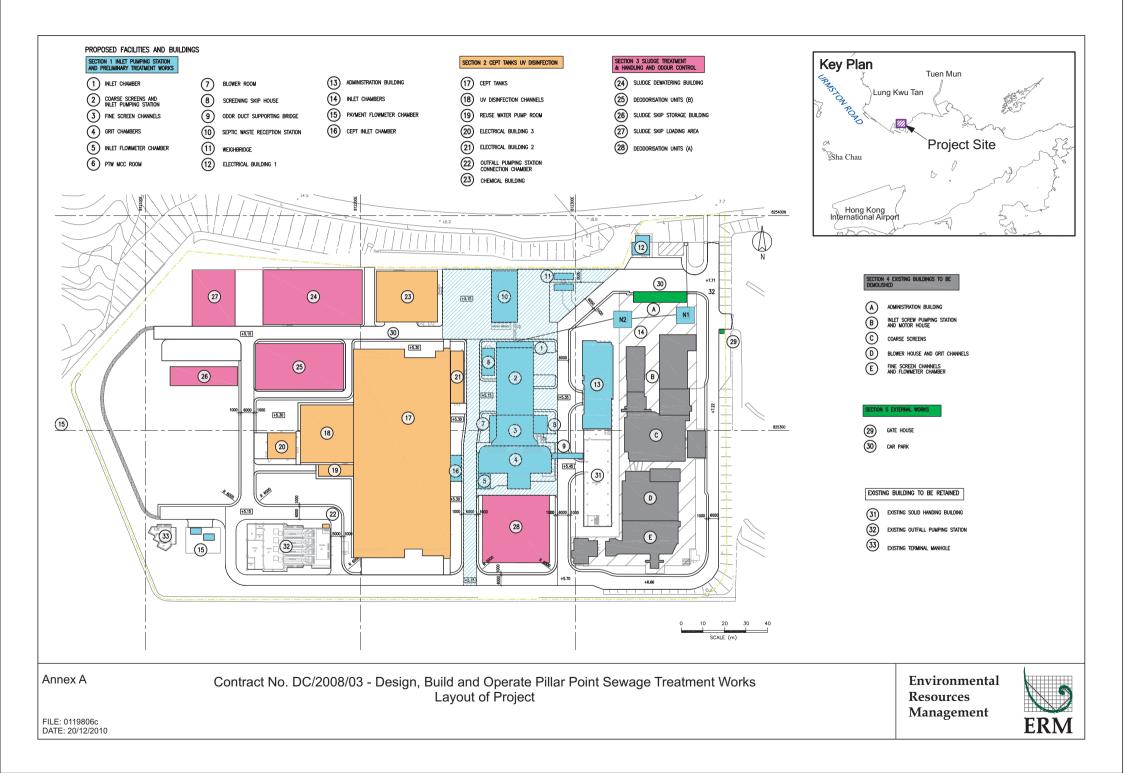
Monthly landscape and visual monitoring was conducted in the reporting period. Most of the necessary landscape and visual mitigation measures recommended in the EIA Report were implemented by the Contractor. Follow-up actions would be implemented by the Contractor to improve protection measures on the retained or to-be transplanted trees.

No non-compliance event was recorded during the reporting period.

No complaint and summons/prosecution was received during the reporting period.

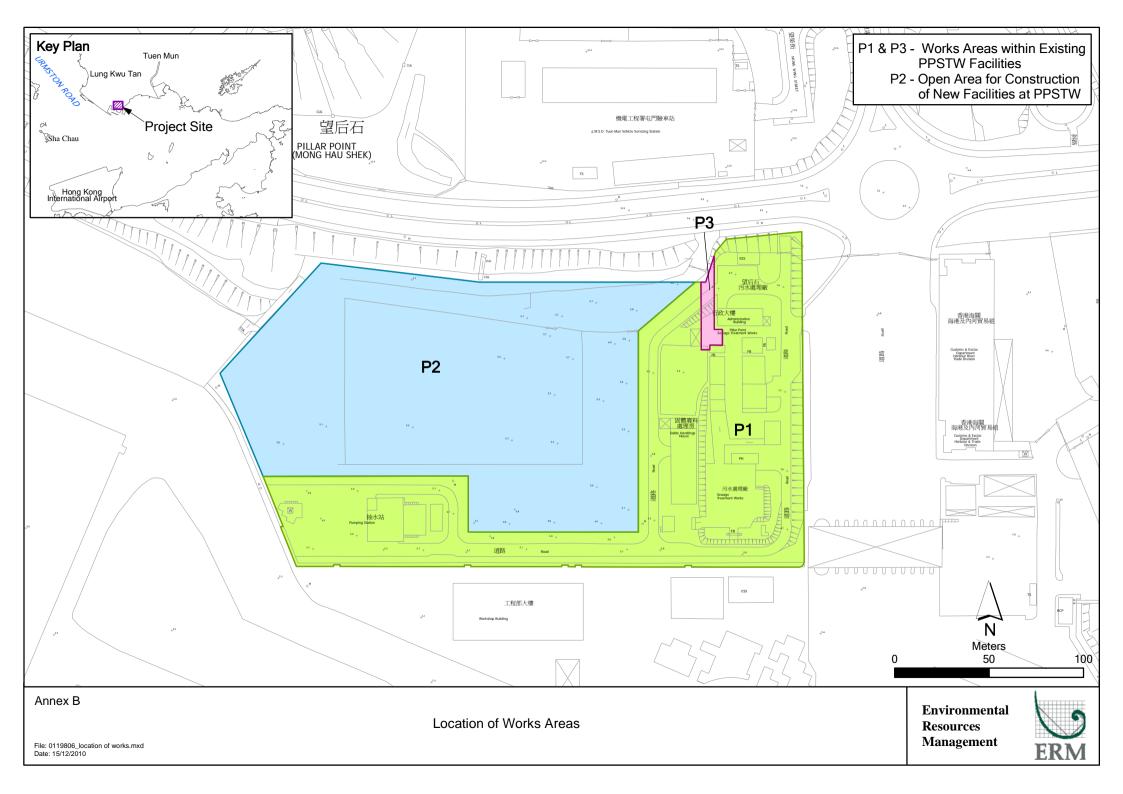
The ET will keep track of the EM&A programme to ensure compliance of environmental requirements and the proper implementation of all necessary mitigation measures in the coming periods. Annex A

Location of Project



Annex B

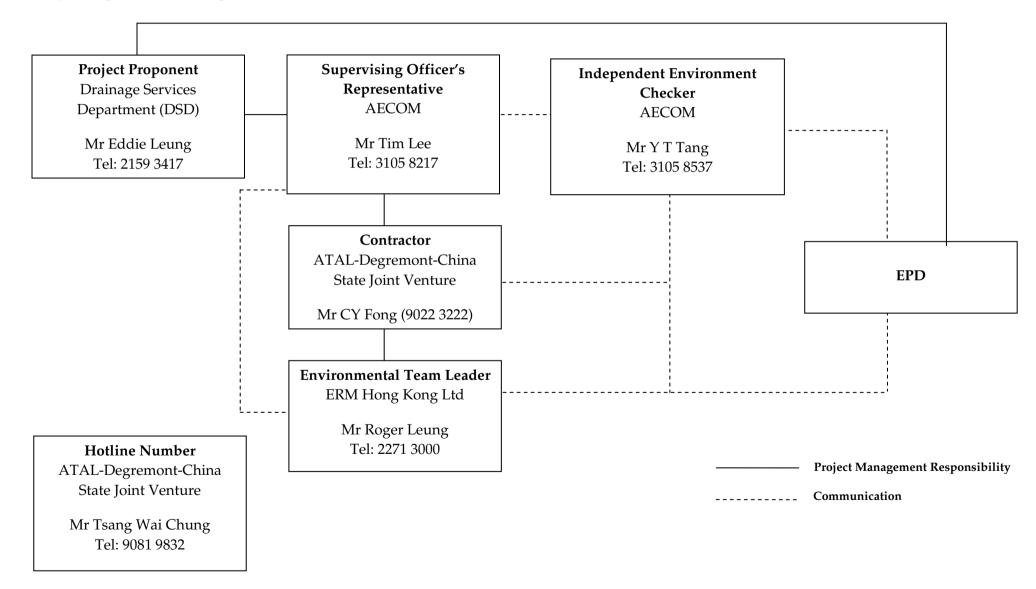
Works Location



Annex C

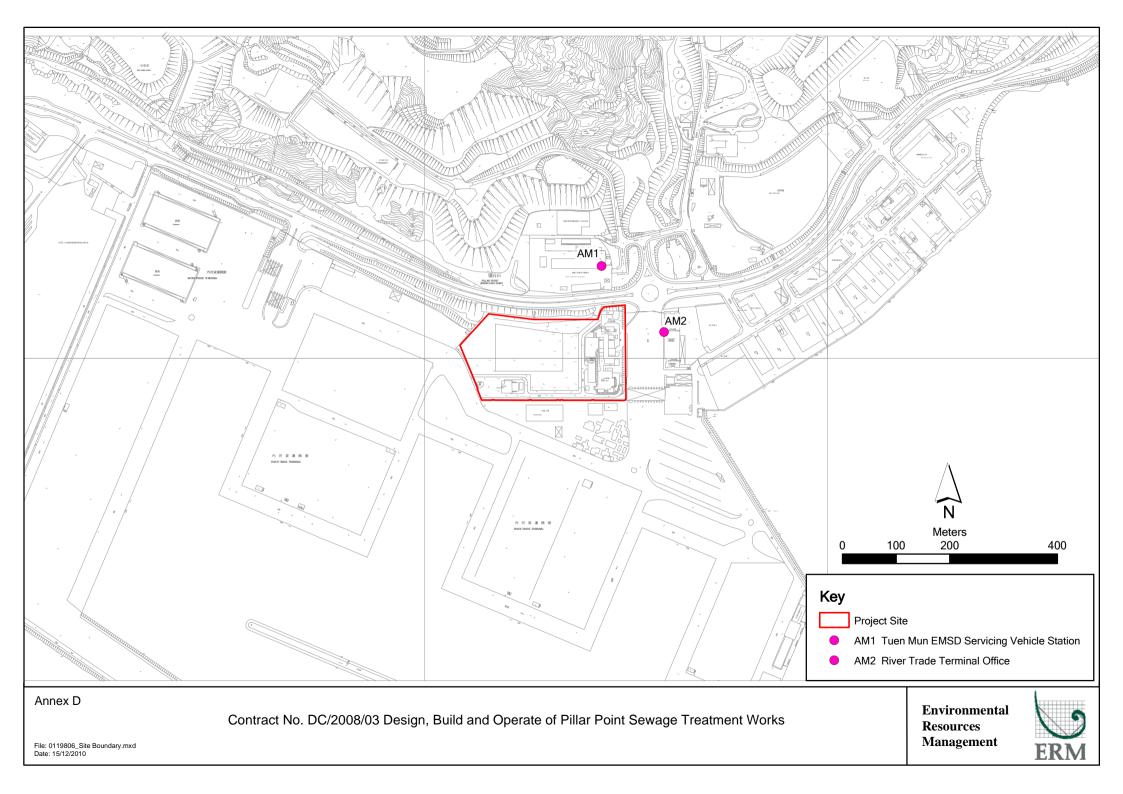
Project Organization Chart with Contact Details

<u>Project Organization During Construction Phase (with contact details)</u>



Annex D

Locations of Air Quality Monitoring Stations





AM1 – Tuen Mun EMSD Servicing Vehicle Station



AM2 - River Trade Terminal Office

Annex E

Monitoring Schedule of Reporting Month and Next Month

Contract No. DC/2008/03 - Design, Build and Operate Pillar Point Sewage Treatment Works (Tuen Mun EMSD Servicing Vehicle Station - AM1 & River Trade Terminal Office - AM2) July 2011

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					01-Jul	02-Jul
03-Jul	04-Jul	05-Jul	06-Jul	07-Jul	08-Jul	09-Jul
	3X1-hr & 1X 24-hr TSP					3X1-hr & 1X 24-hr TSP
10-Jul	11-Jul	12-Jul	13-Jul	14-Jul	15-Jul	16-Jul
					3X1-hr & 1X 24-hr TSP	
17-Jul	18-Jul	19-Jul	20-Jul	21-Jul	22-Jul	23-Jul
				3X1-hr & 1X 24-hr TSP		
24-Jul	25-Jul	26-Jul	27-Jul	28-Jul	29-Jul	30-Jul
2100	20 001	20 001	27 001	20 001	20 001	00 001
			3X1-hr & 1X 24-hr TSP			
31-Jul						
01-001						

Contract No. DC/2008/03 - Design, Build and Operate Pillar Point Sewage Treatment Works

(Tuen Mun EMSD Servicing Vehicle Station - AM1 & River Trade Terminal Office - AM2) August 2011

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	01-Aug	02-Aug	03-Aug	04-Aug	05-Aug	06-Aug
		3X1-hr & 1X 24-hr TSP				
07-Aug	08-Aug	09-Aug	10-Aug	11-Aug	12-Aug	13-Aug
	3X1-hr & 1X 24-hr TSP					3X1-hr & 1X 24-hr TSP
14-Aug	15-Aug	16-Aug	17-Aug	18-Aug	19-Aug	20-Aug
					3X1-hr & 1X 24-hr TSP	
21-Aug	22-Aug	23-Aug	24-Aug	25-Aug	26-Aug	27-Aug
				3X1-hr & 1X 24-hr TSP		
28-Aug	29-Aug	30-Aug	31-Aug	01-Sep		
			3X1-hr & 1X 24-hr TSP			

Annex F

24-hour and 1-hour TSP Monitoring Results

1-hour TSP Monitoring Results

Station AM1

*

				TSP					Wind Speed		
	Start	Finish	Weather	Concentration	Action Level	Limit Level	Site Conditions /	Temperature	*	Sampler	Filter
Date	Time	Time		(µg/m³)	(µg/m ³)	(µg/m³)	Observations / Remarks	(℃)	(m/s)	ID	ID
04-Jul-11	13:10	14:10	Sunny	77	343	500	Construction work in progress	31	*	7580	9216
	14:10	15:10	Sunny	85	343	500	Construction work in progress	31.5	*	7580	9217
	15:10	16:10	Sunny	87	343	500	Construction work in progress	32.5	*	7580	9218
09-Jul-11	13:10	14:10	Sunny	175	343	500	Construction work in progress	31	*	7580	9256
	14:10	15:10	Sunny	159	343	500	Construction work in progress	31	*	7580	9257
	15:10	16:10	Sunny	180	343	500	Construction work in progress	31.5	*	7580	9258
15-Jul-11	13:10	14:10	Cloudy	120	343	500	Construction work in progress	29	*	7580	9272
	14:10	15:10	Cloudy	101	343	500	Construction work in progress	29	*	7580	9273
	15:10	16:10	Cloudy	106	343	500	Construction work in progress	29	*	7580	9274
21-Jul-11	13:10	14:10	Sunny	152	343	500	Construction work in progress	31	*	7580	9288
	14:10	15:10	Sunny	152	343	500	Construction work in progress	31.5	*	7580	9289
	15:10	16:10	Sunny	167	343	500	Construction work in progress	32	*	7580	9290
27-Jul-11	13:10	14:10	Sunny	146	343	500	Construction work in progress	31.5	*	7580	9320
	14:10	15:10	Sunny	128	343	500	Construction work in progress	32.5	*	7580	9321
	15:10	16:10	Sunny	131	343	500	Construction work in progress	33	*	7580	9322
			Min.	77							

Min.	77
Max.	180
Average	131

Wind Speed data is presented in the Meteorological Data table

1-hour TSP Monitoring Results

Station AM2

*

				TSP					Wind Speed		
	Start	Finish	Weather	Concentration	Action Level	Limit Level	Site Conditions /	Temperature	*	Sampler	Filter
Date	Time	Time		(µg/m ³)	(µg/m ³)	(µg/m³)	Observations / Remarks	(°°)	(m/s)	ID	ID
04-Jul-11	13:00	14:00	Sunny	92	383	500	Construction work in progress	31	*	1252	9212
	14:00	15:00	Sunny	83	383	500	Construction work in progress	31.5	*	1252	9213
	15:00	16:00	Sunny	78	383	500	Construction work in progress	32.5	*	1252	9214
09-Jul-11	13:00	14:00	Sunny	137	343	500	Construction work in progress	31	*	1252	9252
	14:00	15:00	Sunny	141	343	500	Construction work in progress	31	*	1252	9253
	15:00	16:00	Sunny	155	343	500	Construction work in progress	31.5	*	1252	9254
15-Jul-11	13:00	14:00	Cloudy	159	383	500	Construction work in progress	29	*	1252	9268
	14:00	15:00	Cloudy	161	383	500	Construction work in progress	29	*	1252	9269
	15:00	16:00	Cloudy	169	383	500	Construction work in progress	29	*	1252	9270
21-Jul-11	13:00	14:00	Sunny	188	383	500	Construction work in progress	31	*	1252	9284
	14:00	15:00	Sunny	195	383	500	Construction work in progress	31.5	*	1252	9285
	15:00	16:00	Sunny	181	383	500	Construction work in progress	32	*	1252	9286
27-Jul-11	13:00	14:00	Sunny	168	383	500	Construction work in progress	31.5	*	1252	9316
	14:00	15:00	Sunny	180	383	500	Construction work in progress	32.5	*	1252	9317
	15:00	16:00	Sunny	164	383	500	Construction work in progress	33	*	1252	9318
			Min	78							

Min.	78
Max.	195
Average	150

Wind Speed data is presented in the Meteorological Data table

Annex F - 24-hour and 1-hour TSP Monitoring Results

24-hour TSP Monitoring Results

Station AM1

Start		Finis	h	Weather	Filter V	Veight (g)	Elapseo Read		Sampling Time		v Rate (m	³ /min)	TSP Conc.	Action Level	Limit Level	Observations / Remarks	Sampler	Filter
Date	Time	Date	Time		Initial	Final	Initial	Final	(hrs)	Initial	Final	Average	(µg/m ³)	(µg/m ³)	(µg/m ³)		ID	ID
04-Jul-11	16:10	05-Jul-11	16:10	Sunny	2.8637	2.9774	11279.18	11303.18	24.00	1.27	1.27	1.27	62	183	260	Construction work in progress	7580	9219
09-Jul-11	16:10	10-Jul-11	16:10	Sunny	2.8112	2.9420	11306.18	11330.18	24.00	1.26	1.26	1.26	72	183	260	Construction work in progress	7580	9259
15-Jul-11	16:10	16-Jul-11	16:10	Cloudy	2.8824	2.9966	11333.18	11357.18	24.00	1.26	1.26	1.26	63	183	260	Construction work in progress	7580	9275
21-Jul-11	16:10	22-Jul-11	16:10	Sunny	2.8662	3.0125	11360.18	11384.18	24.00	1.26	1.26	1.26	81	183	260	Construction work in progress	7580	9291
27-Jul-11	16:10	28-Jul-11	16:10	Sunny	2.8227	2.9702	11387.18	11411.18	24.00	1.26	1.26	1.26	81	183	260	Construction work in progress	7580	9323
												Min.	62					
												Max.	81					
												Average	72					

24-hour TSP Monitoring Results

Station AM2

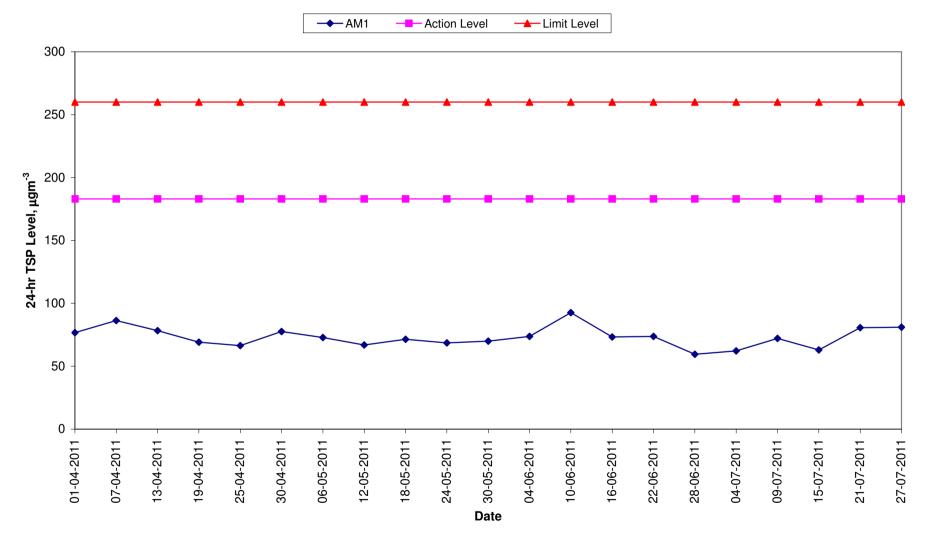
Start		Finis	h	Weather	Filter V	Veight (g)	Elapse Read		Sampling Time	Flow	v Rate (m	1 ³ /min)	TSP Conc.	Action Level	Limit Level	Observations / Remarks	Sampler	Filter
Date	Time	Date	Time		Initial	Final	Initial	Final	(hrs)	Initial	Final	Average	(µg/m ³)	(µg/m ³)	(µg/m ³)		ID	ID
04-Jul-11	16:00	05-Jul-11	16:00	Sunny	2.8595	2.9643	19296.20	19320.20	24.00	1.22	1.22	1.22	60	192	260	Construction work in progress	1252	9215
09-Jul-11	16:00	10-Jul-11	16:00	Sunny	2.8117	2.9394	19323.20	19347.20	24.00	1.24	1.24	1.24	72	192	260	Construction work in progress	1252	9255
15-Jul-11	16:00	16-Jul-11	16:00	Cloudy	2.8727	2.9987	19350.20	19374.20	24.00	1.24	1.24	1.24	71	192	260	Construction work in progress	1252	9271
21-Jul-11	16:00	22-Jul-11	16:00	Sunny	2.8636	3.0334	19377.20	19401.20	24.00	1.24	1.24	1.24	95	192	260	Construction work in progress	1252	9287
27-Jul-11	16:00	28-Jul-11	16:00	Sunny	2.8444	2.9862	19404.20	19428.20	24.00	1.24	1.24	1.24	79	192	260	Construction work in progress	1252	9319

Min.60Max.95Average75

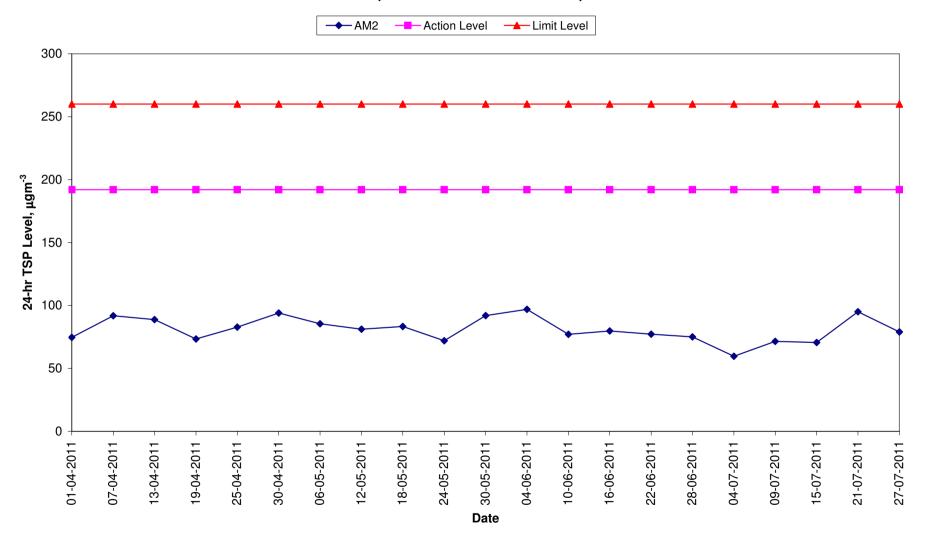
Meteorological Data Extracted from the Hong Kong Observatory

			Т	uen Mun Station	-	-
Date	Weather	Average Air Temperature (°C)	Average Relative Humiditiy (%)	Total Rainfall (mm)	Average Wind Speed (km/h)	Wind Direction
04-07-2011	Sunny	29.7	64-83	0.0	9.0	SE
05-07-2011	Sunny	30.2	59-86	0.0	9.0	SE
09-07-2011	Sunny	30.4	65-86	0.0	10.5	SW
10-07-2011	Sunny	30.6	63-89	Trace	12.5	SW
15-07-2011	Cloudy	27.7	86-98	34.9	8.0	NW
16-07-2011	Cloudy	26.1	80-97	60.5	9.5	NW
21-07-2011	Sunny	28.9	66-90	0.0	7.0	SE
22-07-2011	Sunny	29.8	64-97	4.2	9.5	SE
28-07-2011	Sunny	29.3	61-82	Trace	10.5	SE
29-07-2011	Sunny	29.0	76-95	12.4	16.5	N

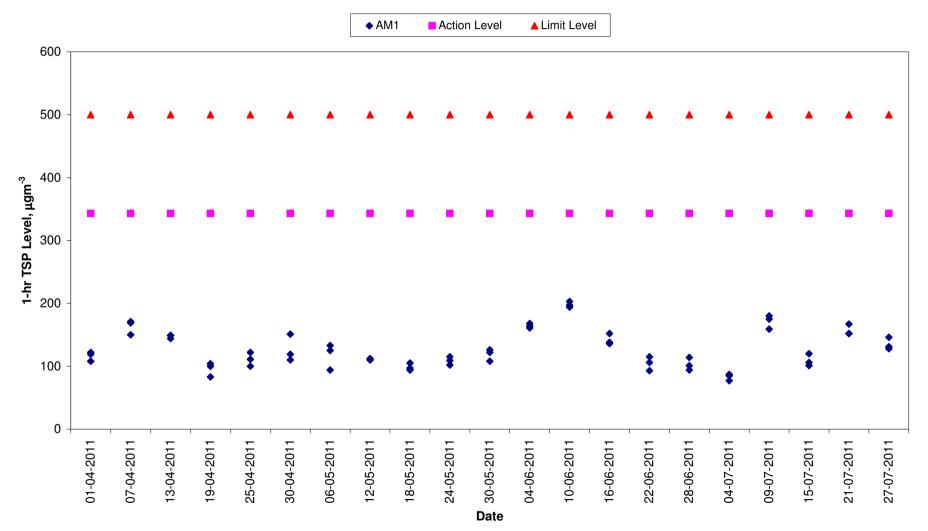
24-hr TSP Levels for the Past 4 Months AM1 (Tuen Mun EMSD Vehicle Servicing Station)



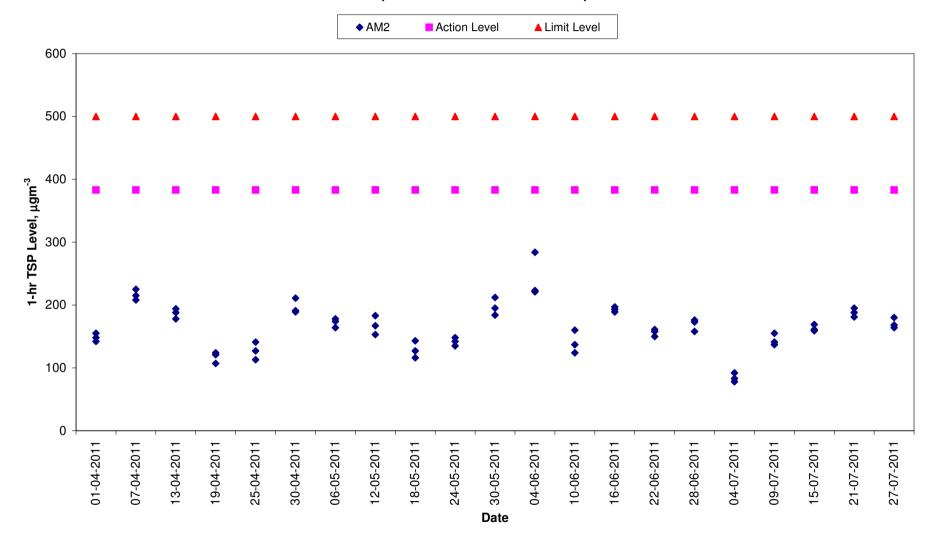
24-hr TSP Levels for the Past 4 Months AM2 (River Trade Terminal Office)



1-hr TSP Levels for the Past 4 Months AM1 (Tuen Mun EMSD Vehicle Servicing Station)



1-hr TSP Levels for the Past 4 Months AM2 (River Trade Terminal Office)



Annex G

Calibration Reports for HVSs

TSP Monitoring Equipment

Monitoring	Location	Monitoring Equipment		Last Calibration Date	e Next Calibration Date
Station ID					
24-hr and 1-hr TS	D	HVS	Calibrator		
AM1	Tuen Mun EMSD Vehicle Servicing Station	GMW GS-2310 (S/N 7580)	CM-AIR-43 (S/N 1785)	09 May 2011	09 July 2011
AM1	Tuen Mun EMSD Vehicle Servicing Station	GMW GS-2310 (S/N 7580)	CM-AIR-43 (S/N 1785)	04 July 2011	04 September 2011
AM2	River Trade Terminal Office	GMW GS-2310 (S/N 1252)	CM-AIR-43 (S/N 1785)	09 May 2011	09 July 2011
AM2	River Trade Terminal Office	GMW GS-2310 (S/N 1252)	CM-AIR-43 (S/N 1785)	04 July 2011	04 September 2011

High-Volume TSP Sampler 5-Point Calibration Record

Location Calibrated by Date	: : :	EMSD P.F.Yeung 04/07/2011
<u>Sampler</u> Model Serial Number	:	GMWS-2310 ACCU-VOL S/N 7580
Calibration Orfice and Stan	dard Calibration	Relationship
Serial Number	:	1785
Service Date	:	25 May 2011
Slope (m)	:	2.00506
Intercept (b)	:	-0.02062
Correlation Coefficient(r)	:	0.99999
Standard Condition		
Pstd (hpa)	:	1013
Tstd (K)	:	298.18
Calibration Condition		
Pa (hpa)	:	1009
Ta(K)	:	303

Resi	stance Plate	dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)		
1	18 holes	11.4	3.342	1.677	52	51.5
2	13 holes	9.6	3.067	1.540	47	46.5
3	10 holes	7.4	2.692	1.353	40	39.6
4	7 holes	4.6	2.123	1.069	29	28.7
5	5 holes	2.7	1.626	0.821	20	19.8

Sampler Calibration Relationship

Slope(m):<u>37.219</u> Intercept(b): <u>-10.874</u>

Correlation Coefficient(r): 0.9999

Checked by: <u>Magnum Fan</u>

Date: 06/07/2011

High-Volume TSP Sampler 5-Point Calibration Record

Location Calibrated by Date	: : :	River Trade K.T.Ho 04/07/2011
<u>Sampler</u> Model Serial Number	:	GMWS-2310 ACCU-VOL S/N 1252
Calibration Orfice and Standar	d Calibrati	on Relationship
Serial Number	:	1785
Service Date	:	25 May 2011
Slope (m)	:	2.00506
Intercept (b)	:	-0.02062
Correlation Coefficient(r)	:	0.99999
Standard Condition		
Pstd (hpa)	:	1013
Tstd (K)	:	298.18
Calibration Condition		
Pa (hpa)	:	1009
Ta(K)	:	303

Resi	stance Plate	dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)		
1	18 holes	11.4	3.342	1.677	66	65.3
2	13 holes	9.4	3.035	1.524	58	57.4
3	10 holes	7.6	2.729	1.371	51	50.5
4	7 holes	4.7	2.146	1.080	37	36.6
5	5 holes	2.7	1.626	0.821	24	23.8

Sampler Calibration Relationship

Slope(m):48.235 Intercept(b): -15.735 Correlation Coefficient(r): 0.9999

Checked by: <u>Magnum Fan</u>

Date: 06/07/2011

Annex H

Event/Action Plan for Air Quality Monitoring

Action Level/Limit Level	Environmental Team Leader (ETL)	Independent Environmental Checker (IEC)	Supervising Officer Representative (SOR)	Contractor
Action Level				
Exceedance for one sample	 Identify source, investigate the causes of complaint and propose remedial measures; Inform IEC and SOR; Repeat measurement to confirm findings; Increase monitoring frequency to daily. 	 Check monitoring data submitted by ET; Check Contractor's working method. 	• Notify Contractor and DSD.	 Rectify any unacceptable practice; Amend working methods if appropriate.
Exceedance for two or more consecutive samples	 Identify source; Inform IEC and SOR; Advise the SOR on the effectiveness of the proposed remedial measures; Repeat measurements to confirm findings; Increase monitoring frequency to daily; Discuss with IEC and Contractor on remedial actions required; If exceedance continues, arrange meeting with IEC and SOR; If exceedance stops, cease additional monitoring. 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ET on the effectiveness of the proposed remedial measures; Supervise Implementation of remedial measures. 	 Confirm receipt of notification of exceedance in writing; Notify Contractor and DSD; Ensure remedial measures properly implemented. 	 Submit proposals for remedial actions to IEC within three working days of notification; Implement the agreed proposals; Amend proposal if appropriate.

Table H1Event Action Plan for Air Quality Monitoring

ENVIRONMENTAL RESOURCES MANAGEMENT

Action Level/Limit Level	Environmental Team Leader (ETL)	Independent Environmental Checker (IEC)	Supervising Officer Representative (SOR)	Contractor
Limit Level				
Exceedance for one sample	 Identify source, investigate the causes of exceedance and propose remedial measures; Inform IEC, SOR, DSD and EPD; Repeat measurement to confirm finding; Increase monitoring frequency to daily; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD, DSD and SOR informed of the results. 	on possible remedial measures;	 Confirm receipt of notification of exceedance in writing; Notify Contractor; Ensure remedial measures properly implemented. 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within three working days of notification; Implement the agreed proposals; Amend proposal if appropriate.
Exceedance for two or more consecutive samples	 Notify IEC, SOR, DSD and EPD; Identify source; Repeat measurement to confirm findings; Increase monitoring frequency to daily; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Arrange meeting with IEC and SOR to discuss the remedial actions to be taken; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD, DSD and SOR informed of the results; If exceedance stops, cease additional monitoring. 	 Discuss amongst SOR, ET, and Contractor on the potential remedial actions; Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the SOR accordingly; Supervise the implementation of remedial measures. 	 Confirm receipt of notification of exceedance in writing; Notify Contractor; In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; Ensure remedial measures properly implemented; If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within three working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; Stop the relevant portion of works as determined by the SOR until the exceedance is abated.

ENVIRONMENTAL RESOURCES MANAGEMENT

Annex I

Implementation Schedule of Mitigation Measures

Annex I Summary of Mitigation Measures Implementation Schedule

Type of Impact	Environmental Protection Measures	Location/ Timing	Status
<u> </u>	ronmental Mitigation Measures in the EIA and EM&A Manual	•	
Construction Phas	se		
Air Quality	Dust mitigation measures stipulated in <i>the Air Pollution Control</i> (<i>Construction Dust</i>) <i>Regulation</i> shall be incorporated to control Post emission. Notice shall be given to authority prior to commencing of work.	Work sites / during construction period	Δ. Notice of works commencement was submitted to EPD on 3 August 2010.
Water Quality	The practices outlined in ProPECC PN 1/94 Construction Site Drainage should be adopted. It is recommended to install perimeter channels in the works areas to intercept runoff as site boundary prior to the commencement of any earthwork. To prevent storm runoff from washing across exposed soil surfaces, intercepting channels should be provided. Drainage channels are also required to convey site runoff to sand/silt traps and oil interceptors. Provision of regular cleaning and maintenance can ensure the normal operation of these facilities throughout the construction period. Any practical options for the diversion and re-alignment of drainage should comply with both engineering and environmental requirements in order to ensure adequate hydraulic capacity of all drains.	Work site/During the construction period	
Water Quality	There is a need to apply to EPD for a discharge license under the WPCO for discharging effluent from the construction site. The discharge quality is required to meet the requirements specified in the discharge license. All the runoff and wastewater generated from the works areas should be treated so that it satisfies all the standards listed in the TM-DSS. Reuse and recycling of the treated effluent can minimize water consumption and reduce the effluent discharge volume. The beneficial uses of the treated effluent may include dust suppression, wheel washing and general cleaning. If monitoring of the treated effluent quality from the works areas is required during the construction phase of the Project, the monitoring should be carried out in accordance with the WPCO license which is under the ambit of regional office (RO) of EPD.	Work site/During the construction period	
Water Quality	The construction programme should be properly planned to minimize soil excavation, if any, in rainy seasons. This prevents soil erosion from	Work site/During the construction period	Δ

Type of Impact	Environmental Protection Measures	Location/ Timing	Status
	exposed soil surfaces. Any exposed soil surfaces should also be properly protected to minimize dust emission. In areas where a large amount of exposed soil exists, earth bunds or sand bags should be provided. Exposed stockpiles should be covered with tarpaulin or impervious sheets at all times. The stockpiles of materials should be placed at locations away from any stream course so as to avoid releasing materials into the water bodies. Final surfaces of earthworks should be compacted and protected by permanent work. It is suggested that haul roads should be paved with concrete and the temporary access roads protected using crashed stone or gravel, wherever practicable. Wheel washing facilities should be provided at all site exists to ensure that earth, mud and debris would not be carried out of the works areas by vehicles.		
Water Quality	Good sites practices should be adopted to clean the rubbish and litter on the construction sites so as to prevent the rubbish and litter from spreading from the site area. It is recommended to clean the construction sites on a regular basis.	Work site/During the construction period	<>
Water Quality	The presence of construction workers generates sewage. It is recommended to provide sufficient chemical toilets in the works areas. The toilet facilities should be more than 30m from any watercourse. A licensed water collector should be deployed to clean the chemical toilets on a regular basis. The construction workers can also make use of the existing toilet facilities within the PPSTW as necessary.	Work site/During the construction period	\checkmark
Water Quality	Notices should be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the nearby environment during the construction phase of the project. Regular environmental audit on the construction phase of the project. Regular environmental audit on the construction site can provide an effective control of any malpractices and can achieve continual improvement of environmental performance on site.	Work site/During the construction period	\checkmark
Waste Management	Contractor must register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in	Work site/During the construction period	\checkmark

Type of Impact	Environmental Protection Measures	Location/ Timing	Status
	particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes.		
Waste Management	Any service shop and maintenance facilities should be located on hard standings within a bunded area, and stumps and oil interceptors should be provided. Maintenance of vehicles and equipment involving activities with potential for leakage and spillage should only be undertaken within the areas appropriately equipped to control these discharges.	Work site/During the construction period	Δ
Waste Management	 Disposal of chemical wastes should be carried out in compliance with the Waste Disposal Ordinance. The Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes published under the Waste Disposal Ordinance details the requirements to deal with the chemical wastes. General requirements are given as follows: Suitable containers should be used to hold the chemical wastes to 	Work site/During the construction period	Δ
	 avoid leakage or spillage during storage, handling and transport. Chemical waste containers should be suitably labelled, to notify and warn the personnel who are handling the wastes, to avoid accidents. Storage area should be selected at a safe location on site and adequate space should be allocated to the storage area. 		
Waste Management	<i>Good Site Practices</i> Recommendations for good site practices during the construction activities include:	Work site/During the construction period	\checkmark
	• Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site		
	• Training of site personnel in proper waste management and chemical handling procedures		
	• Provision of sufficient waste disposal points and regular collection of waste		
	• Appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by		

Type of Impact	Environmental Protection Measures	Location/ Timing	Status
	 transporting wastes in enclosed containers Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors. Separation of chemical wastes for special handling and appropriate treatment at the Chemical Waste Treatment Facility. 		
Waste Management	 Waste Reduction Measures Waste reduction is best achieved at the planning and design stage, as well as by ensuring the implementation of good site practices. Recommendations to achieve waste reduction include: Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal. Encourage collection of aluminium cans by providing separate labelled bins to enable this waste to be segregated from other general refuse generated by the work force Proper storage and site practices to minimise the potential for damage or contamination of construction materials. Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste. 	Work site/During planning & design stage, and construction stage	Δ
Waste Management	General Refuse General refuse should be stored in enclosed bins or compaction units separate from C&D material. A reputable waste collector should be employed by the contractor to remove general refuse from the site, separately from C&D material. Preferably an enclosed and covered area should be provided to reduce the occurrence of 'wind blown' light material.	Work site / During the construction period	Δ
Waste Management	Construction and Demolition Material In order to minimise the impact resulting from collection and	Work site / During design stage & construction period	\checkmark

Type of Impact	Environmental Protection Measures	Location/ Timing	Status
	transportation of C&D material for off-site disposal, the excavated material generated from site formation works for the proposed new facilities and units at the STW should be reused on-site as far as practicable. The surplus excavated material should be disposed of at the designated public fill reception facility, as agreed with the Secretary of the Public Fill Committee, for other beneficial uses.		
Waste Management	 Mitigation measures and good site practices should be followed to control potential environmental impact from handling and transportation of C&D material. The mitigation measures include: Where it is unavoidable to have transient stockpiles of C&D material pending collection for disposal, the transient stockpiles 	Work site / During design stage & construction period	Δ
	 shall be located away from waterfront or storm drains as far as possible. Open stockpiles of construction materials or construction wastes on-site should be covered with tarpaulin or similar fabric. Chin baist for material transment should be tatally an closed by: 		
	 Skip hoist for material transport should be totally enclosed by impervious sheeting. Every vehicle should be washed to remove any dusty materials from its body and wheels before leaving a construction site 		
	• The area where vehicle washing takes place and the section of the road between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores.		
	• The load of dusty materials carried by vehicle leaving a construction site should be covered entirely by clean impervious sheeting to ensure dust materials do not leak from the vehicle.		
	• All dusty materials should be sprayed with water prior to any loading, unloading or transfer operation so as to maintain the dusty materials wet.		
	• The height from which excavated materials are dropped should be controlled to a minimum practical height to limit fugitive dust generation from unloading.		
Waste Management	When disposing C&D material at a public filling facility, it shall be noted that the material shall only consist of earth, building debris and broken rock and concrete. The material shall be free from marine mud,	Work site/During design stage & construction period	\checkmark

Type of Impact	Environmental Protection Measures	Location/ Timing	Status
Impact Waste Management	household refuse, plastic, metals, industrial and chemical waste, animal and vegetable matter, and other material considered to be unsuitable by the Filling Supervisor. In order to monitor the disposal of the surplus C&D material at the designed public fill reception facility and to control fly tipping, a trip-ticket system should be included as one of the contractual requirements and implemented by an Environmental Team undertaking the Environmental Monitoring and Audit work with reference to the ETWB TCW No. 31/2004 "Trip Ticket System for Disposal of Construction and Demolition Materials" as attached in Appendix 7-1. An Independent Environmental Checker should be responsible for auditing the results of the system. <i>Chemical Waste</i> If chemical wastes are produced at the construction site, the Contractor would be required to register with the EPD as a Chemical Waste Producer and to follow the guidelines stated in the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Good quality containers compatible with the chemical wastes should be used, and incompatible chemicals should be stored separately. Appropriate labels should be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc. The Contractor shall use a licensed collector to transport and dispose of the chemical wastes, to either the Chemical Waste Treatment Centre, or another licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.	Work site / During the construction period	
Landscape & Visual	Temporary Tree Nurseries Temporary tree nurseries may be set up for the transplanted tree and proposed trees at an early stage to allow small trees to grow during the construction periods. By the time when planting area becomes available, trees mature and increase in trunk & spread size. They will require minimal pruning and suffer much less damage during transplanting when comparing the travel distance from an on-site nursery to an off-site nursery.	Work site/During design stage & construction period	√. A tree nursery has been set up off-site near the site office.

Type of Impact	Environmental Protection Measures	Location/ Timing	Status
	Besides, these trees may also be positioned as visual mitigation during the construction period.		
Landscape & Visual	No-intrusion Zone To maximize protection to existing trees and ground vegetation, construction contracts may designate "No-intrusion Zone" to various areas within the site boundary with rigid and durable fencing for each individual no-intrusion zone. The contractor should close monitor and restrict the site working staff not to enter the "no-intrusion zone", even for non-direct construction activities and storage of equipment.	Work site/During design stage & construction period	\checkmark
Landscape & Visual	Hoarding Hoarding or boundary fencing for construction shall be considered. It should be sensitively designed, subtle, camouflaged and more 'permeable' so that they fit into the existing environment when looking from outside.	Work site/During design stage & construction period	\checkmark
Landscape & Visual	Dust and Erosion Control for Exposed Soil Excavation works and demolition of existing building blocks and which will be highly visible form surrounding areas should be well planned and with precautions to suppress dust. Exposed soil shall be covered or 'camouflaged' and watered often. Areas that are expected to be left with bare soil for a long period of time after excavation shall be properly covered with suitable protective fabric. Silt and erosion shall be controlled by ground barriers around the slope cutting area.	Work site/During design stage & construction period	<>
Landscape & Visual	Existing Tree Record Inventory All retained trees should be record photographically at the commencement of the Contract, and carefully protected during the construction period. Detailed tree protection specification shall be allowed and included in the Contract Specification, which specifying the	Work site/During design stage & construction period	\checkmark

Type of Impact	Environmental Protection Measures	Location/ Timing	Status
	tree protection requirement, submission and approval system, and the tree monitoring system.		
Landscape & Visual	Construction Light All security floodlights for construction sites shall be equipped with adjustable shield, frosted diffusers and reflective covers, and be carefully controlled to minimize light pollution and night-time glare to nearby residences and GIC users. The Contractor shall consider other security measures which shall minimize the visual impacts.	Work site / During design stage & construction period	√
Landscape & Visual	Tree Transplanting Apart from the 18 numbers of <i>"Leucaena leucocephala"</i> , which are proposed to be felled in accordance with ETWB TCW No. 3/2006, all the affected trees shall be transplanted. Where practicable, trees shall be directly transplanted to permanent on-site locations. The location of the transplanted tree is shown in Figure 8.9.1 .	Work site / During design stage & construction period	Δ . Tree transplantation in progress.
Landscape & Visual	Tree Compensation Ratio The total number of compensatory trees planted in the project area shall not be less than 1:1 ratios by new trees. Required numbers and locations of compensatory trees shall be determined and agreed with Government during the tree felling application process under ETWCTC 3/2006. Compensatory trees shall be at least heavy standard size to create "immediate" greening effect. 81 numbers of " <i>Cassia surattensis</i> " will be provided as the additional compensatory planting for loss of greenery in the area due to removal of the affected trees. The location of the additional compensatory planting is shown in Figure 8.9.1 .	Work site / During design stage & construction period	N/A
Landscape & Visual	Re-use of Existing Soil and Advance formation of Planting AreaExisting topsoil shall be re-used where possible for new planting areaswithin the project. Advance formation of planting area and earlyimplementation of the plating works can minimize adverse impact ontrees. The construction program shall consider using the soil removed	Work site / During design stage & construction period	\checkmark

Type of Impact	Environmental Protection Measures	Location/ Timing	Status
	from one phase for backfilling another. Suitable storage ground, gathering ground and mixing ground may be set up on-site as necessary.		
Landscape & Visual	Establishment Period 12 month establishment period for the soft landscape works will be allowed in the main contract. Most construction contracts in Hong Kong require the Contractor to carry out routine horticultural operations, including watering, pruning, weeding, pest control, replacement of dead plants etc. to ensure healthy establishment of new planting during a 12 month establishment period. This period also serves as a kind of warranty / guarantee on the quality of the plants supplied and installed by the Contractor. Monthly monitoring during the first year of establishment period is recommended.	Work site/During operation period	N/A. To be implemented during operation phase of Project.
Landscape & Visual	Re-instatement of excavated Area All excavated area and disturbed area for utilities diversion, temporary road diversion, and pipeline woks will be reinstated to former conditions, subject to applicable Government Standards.	Work site / During design stage & operation period	N/A. To be implemented during operation phase of Project.
Landscape & Visual	Appearance and Greening for the proposed structures Compatible design, construction materials and surface finishes of the proposed structure should match with the nearby existing external appearance of PPSTW buildings for achieving visual uniformity. Finishing materials shall have due consideration to form, basic color, color/tone variation, micro-and macro-texture, and reflectivity/light absorbance to avoid glare. Planting, such as turf, low groundcovers and climbers, may also be planted on top of these elements to provide greening and aesthetic effect.	Work site / During design stage & operation period	N/A. To be implemented during operation phase of Project.
Summary of Key	Environmental Mitigation Measures in Contract Requirements	1	<u> </u>
Air Quality	Only Ultra-low-sulphur diesel (ULSD) should be used for all diesel- operated plants and equipments on site	Work sites / during construction period	1
Air Quality and Noise	Plants and equipments of good operation conditions should be used on site.	Work sites / during construction period	\checkmark
Noise	No diesel hammers should be used for piling works	Work sites / during construction period	\checkmark

Type of Impact	Environmental Protection Measures	Location/ Timing	Status
Noise	Construction Noise Permits (CNP) should be applied for works conducted outside non-restricted hours.	Work sites / during construction period	\checkmark
Noise	Quiet construction equipments and the quietest practicable working methodologies should be adopted for works whenever feasible. Noise labels should be provided for air compressors. Hoods and cover panels of generators and air compressors should be closed during operation. Noise labels should be provided for air compressors and hand-held percussive breakers.	Work sites / during construction period	\checkmark
Waste Management	Temporary works construction on site should minimize the use of timber to reduce the quantity of C&D waste generated during works period.	Work sites / during construction period	\checkmark
Landscape and Visual	Retained or to-be-transplanted trees on site should be properly protected from physical damages and soil compacts with temporary fencing or hessian armouring whenever feasible.	Work sites / during construction period	\diamond

Remark:

- $\sqrt{}$ Compliance of Mitigation Measures
- <> Compliance of Mitigation but need improvement
- x Non-compliance of Mitigation Measures
- Non-compliance of Mitigation Measures but rectified by ATAL-Degrémont-China State JV
- Δ Deficiency of Mitigation Measures but rectified by ATAL-Degrémont-China State JV
- N/A Not Applicable in Reporting Period

Annex J

Waste Flow Table

Contract No. : DC/2008/03 - Design, Build and Operate Pillar Point Sewage Treatment Works

Monthly Summary Waste Flow Table

	Ac	ctual Quantities of In	ert C&D Materials	(Public Fill) Generat	ed	Actual Quantities of Non-inert C&D Materials (Construction Waste) Generated					
Month	Total Quantity Generated	Rocks & Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Metals (see Note 1)	Paper/ cardboard packaging (see Note 1)	Plastics (see Note 2)	Chemical Waste	Others, e.g. general refuse (see Note 3)	
	tonne	tonne	tonne	tonne	tonne	kilogram	kilogram	kilogram	Litre	tonne	
Nov 2010	2,248	0	0	0	2,248	60	100	0	0	18.05 (see Note 4)	
Dec 2010	11,314 (see Note 4)	0	0	0	11,314	100	120	20	0	28.4 (see Note 4)	
Jan 2011	58,383 (see Note 4)	0	0	0	58,383	250	280	60	0	4.59 (see Note 4)	
Sub-total	71,945	0	0	0	71,945	410	500	80	0	51.04	
Feb 2011	12,855	0	0	0	12,855	100	150	50	0	2.43 (see Note 4)	
Mar 2011	22,859	0	0	0	22,859	150	180	55	0	9.02	
Apr 2011	8,547 (see Note 7)	0	0	5,684(see Note 5, 7)	2,863 (see Note 7)	50	30	15	0	5.78	
Sub-total	44,261	0	0	5,684	38,577	300	360	120	0	17.23	
May 2011	6,293 (see Note 7)	0	0	11 (see Note 5, 7)	6,282 (see Note 7)	45	25	10	360 (see Note 7)	8.83	
June 2011	4,587 (see Note 7)	0	0	0 (see Note 7)	4,587 (see Note 7)	40	30	15	0	7.10	
July 2011	523	0	0	0	523	15	5	10	0	7.20	
Sub-total	11,403	0	0	11	11,392	100	60	35	360	23.13	
Total	127,609	0	0	5,695	121,914	810	920	235	360	91.4	

Notes: (1) Metal and paper/cardboard packaging were collected by recycler for recycling.

- (2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material collected by recycler for recycling.
- (3) General refuse was disposed of at WENT by subcontractors.
- (4) The waste flow data for November and December 2010, January and February 2011 was updated in March 2011based on SOR's comments and has been confirmed by the Contractor.
- (5) The inert C&D materials were reused in the Contract No. EP/SP/58/08 at Tuen Mun Tsang Tsui.
- (6) Chemical waste was collected though the licensed chemical waste collector, Dunwell Ind. (Holdings) Ltd, with the waste collection licence number 7111-757-W0015-WC.

(7) The waste flow data for April, May and June 2011 was updated in August 2011 based on SOR's comments and has been confirmed by the Contractor.

Annex K

Environmental Complaint, Environmental Summon and Presecution Log

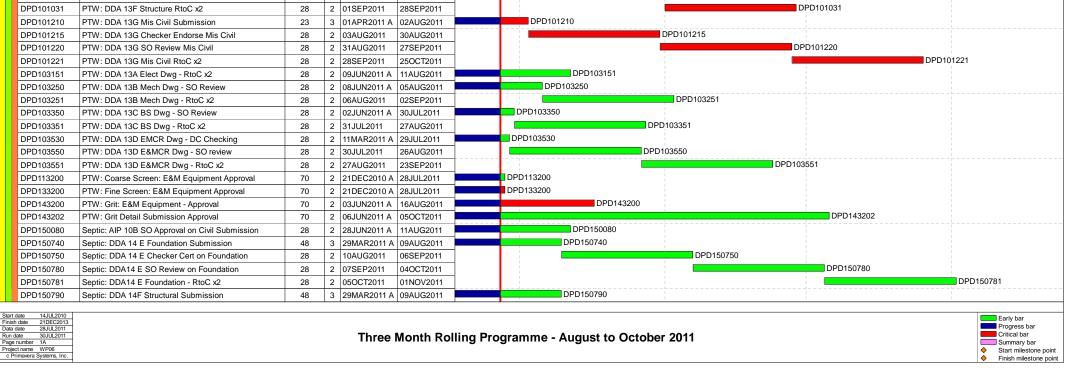
Reporting Month	Number of Complaints in Reporting Month	Number of Summons/Prosecutions in Reporting Month
November 2010	0	0
December 2010	0	0
January 2011	0	0
February 2011	0	0
March 2011	0	0
April 2011	0	0
May 2011	0	0
June 2011	0	0
July 2011	0	0
Overall Total	0	0

Annex K Cumulative Complaint and Summons/Prosecutions Log

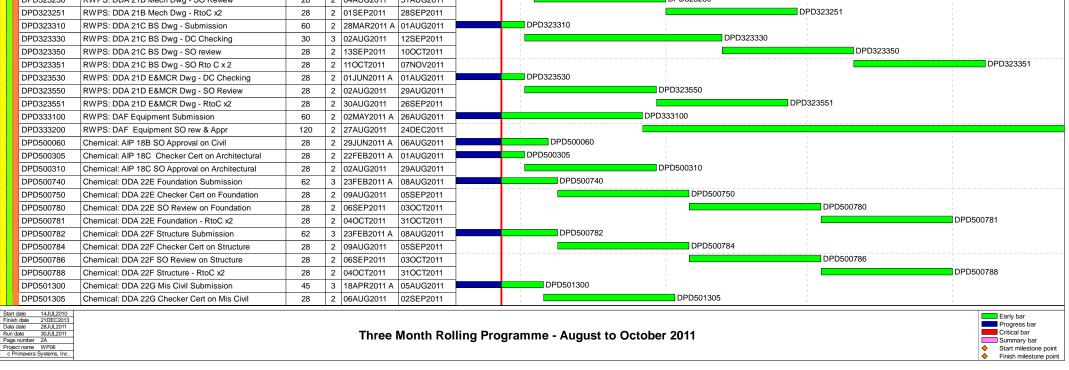
Annex L

Construction Programme of the Project

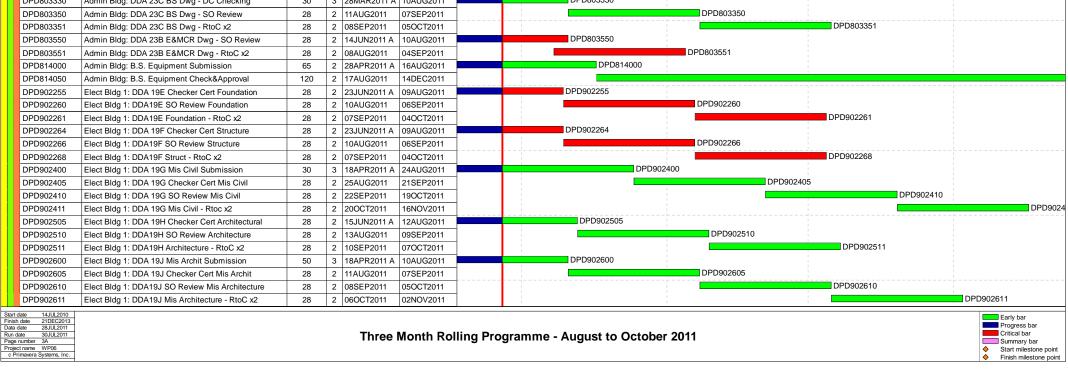
Activity ID	Description	Original Duration	Cal Early Start	Early Finish	2011 JUL AUG SEP OCT NOV
minaries		Duration	Start	Fillisti	25 01 08 15 22 29 05 12 19 26 03 10 17 24 31 07 14
neral Require ontract Prelin					
PLW001590	Conditional Survey - Bypass Pipe works	14	2 22NOV2010 A		PLW001590
PLW004910 PLW004920	XP Application for Temp Access to P2 Apply Roadwork Advice	130 6	1 29NOV2010 A 1 25AUG2011	24AUG2011 31AUG2011	PLW004910
PLW 004920	Construct Site Access to P2	36	1 01SEP2011	150CT2011	PLW004930
PLW005310	Operation Plan - Submission	66	2 28JUL2011	01OCT2011	PLW005310
PLW 005320	Operation Plan - Approval n Checking of Permanent Works	90	2 02OCT2011	30DEC2011	
Ibmission and					
Submission an				0541100044	DPD010330
DPD010330 DPD010360	DDA1: Design Memorandum - DC Checking DDA1: Design Memorandum - SO rew subm.	30 28	3 16MAY2011 A 2 09AUG2011	05AUG2011 05SEP2011	DPD010330
DPD010361	DDA1: Design Memorandum - R to C x 2	28	2 06SEP2011	03OCT2011	DPD010361
DPD020360	DDA2: Process Design- SO rew Subm.	28	2 08JUN2011 A	06AUG2011	DPD020360
DPD020361 DPD030330	DDA2: Process Design- R to C x 2 DDA3: Hydraulic Design- DC Checking	28 30	2 07AUG2011 3 09JUN2011 A	03SEP2011 16AUG2011	DPD020361
DPD030360	DDA3: Hydraulic Design SO review	28	2 20AUG2011	16SEP2011	DPD030360
DPD030361	DDA3: Hydraulic Design R to C x 2	28	2 17SEP2011	140CT2011	DPD030361
DPD040310 DPD040330	DDA4: Plant Layout Drawing- prep. Submission DDA4: Plant Layout Drawing- DC Checking	40 30	2 14JAN2011 A 3 08AUG2011	06AUG2011 19SEP2011	DPD040310 DPD040330
DPD040330 DPD040360	DDA4: Plant Layout Drawing- DC Checking DDA4: Plant Layout Drawing- SO review	28	2 23SEP2011	19SEP2011 20OCT2011	DPD040360
DPD040361	DDA4: Plant Layout Drawing- RtoC x2	28	2 210CT2011	17NOV2011	
DPD061160	AIP6: Comm. sys design- SO review	28	2 25MAY2011 A	10AUG2011	DPD0c2140
DPD063140 DPD063171	DDA6: HAZOP Report- DC check DDA6: HAZOP Report- SO rew. Final Submission	30 28	3 29NOV2010 A 2 29JUL2011	28JUL2011 25AUG2011	DPD063140
DPD063171 DPD071360	DDA6: HAZOP Report SO review DDA7A: P&ID SO review	28		31JUL2011	DPD071360
DPD071361	DDA7A: P&ID RtoC x2	28	2 01AUG2011	28AUG2011	DPD071361
DPD072330 DPD072360	DDA7B: Control Philosophy- DC Checking	30 28	3 07FEB2011 A 2 06AUG2011	02AUG2011 02SEP2011	DPD072330 DPD072360
DPD072360 DPD072361	DDA7B: Control Philosophy SO review DDA7B: Control Philosophy RtoC x2	28	2 06A0G2011 2 03SEP2011	02SEP2011 30SEP2011	DPD072360
DPD073310	DDA7C-G: SCADA system design- prep. Submission	60	2 28JAN2011 A	06AUG2011	DPD073310
DPD073330	DDA7C-G: SCADA system design- DC Checking	30	3 08AUG2011	19SEP2011	DPD073330
DPD073360 DPD073361	DDA7C-G: SCADA system design- SO review DDA7C-G: SCADA system design- RtoC x2	28 28	2 23SEP2011 2 21OCT2011	200CT2011 17NOV2011	DPD073360
OPD073301 OPD074310	DDA7C-G. SCADA System design- Rioc 22 DDA7H-N-: SCADA Detail design- prep. Submission	120	2 25FEB2011 A	29AUG2011	DPD074310
DPD074330	DDA7H-N-: SCADA Detail design- DC Checking	30	3 30AUG2011	12OCT2011	DPD074330
DPD074360	DDA7H-N-: SCADA Detail design- SO review	28	2 16OCT2011	12NOV2011	DPD077400
DPD077130 DPD077160	DDA8A: Pump sys design- DC Checking DDA8A: Pump sys design- SO review	30 28	3 14JUN2011 A 2 20AUG2011	16AUG2011 16SEP2011	DPD077130 DPD077160
DPD077161	DDA8A: Pump sys design- RtoC x2	28	2 17SEP2011	140CT2011	DPD077161
DPD077330	DDA8B: Odour Duct design- DC Checking	30	3 27MAY2011 A	03AUG2011	DPD077330
DPD077360	DDA8B: Odour Duct design- SO review	28 28	2 07AUG2011	03SEP2011 01OCT2011	DPD077360 DPD077361
DPD077361 DPD077710	DDA8B: Odour Duct design- RtoC x2 DDA8C: Pipe/Duct Supp. design- prep. Submission	60	2 04SEP2011 2 12MAY2011 A	10AUG2011	DPD077710
DPD077730	DDA8C: Pipe/Duct Supp. design- DC Checking	30	3 11AUG2011	22SEP2011	DPD077730
DPD077760	DDA8C: Pipe/Duct Supp. design- SO review	28	2 23SEP2011	20OCT2011	DPD077760
DPD077761 DPD081160	DDA8C: Pipe/Duct Supp. design- RtoC x2 DDA9A-F: Elect. sys design- SO review	28 28	2 210CT2011 2 15APR2011 A	17NOV2011 13AUG2011	DPD081160
DPD081161	DDA9A-F: Elect. sys design: RtoC x2	28	2 14AUG2011	10SEP2011	DPD081161
DPD083310	DDA9F-I: ELV System- prep. Submission	60	2 28FEB2011 A	06AUG2011	DPD083310
DPD083330 DPD083360	DDA9F-I: ELV System- DC Checking DDA9F-I: ELV System- SO review	30 28	3 08AUG2011 2 23SEP2011	19SEP2011 20OCT2011	DPD083330 DPD083360
DPD083361	DDA9F-I: ELV System- RtoC x2	28	2 210CT2011	17NOV2011	
DPD084130	DDA9J: Hazardous Zone Report- DC Checking	30	3 04NOV2010 A	01AUG2011	DPD084130
DPD084140	DDA9J: Hazardous Zone Report- DC Cert	0	2	01AUG2011	
DPD084160 DPD084161	DDA9J: Hazardous Zone Report- SO review DDA9J: Hazardous Zone Report- RtoC x2	28 28	2 05AUG2011 2 02SEP2011	01SEP2011 29SEP2011	DPD084160 DPD084161
DPD084310	DDA9K: Renewable Energy Design- prep. Submission	90	2 18MAY2011 A	14SEP2011	DPD084310
DPD084330	DDA9K: Renewable Energy Design- DC Checking	30	3 15SEP2011	270CT2011	DPD084330
DPD084360 DPD084500	DDA9K: Renewable Energy Design- SO review DDA9L Elect Typ. Inst. Drg - prep Submission	28 30	2 31OCT2011 3 26AUG2011	27NOV2011 10OCT2011	DPD084500
DPD084500 DPD084510	DDA9L Elect Typ. Inst. Drg - Drep Submission DDA9L Elect Typ. Inst. Drg - DC Checking	28	2 110CT2011	07NOV2011	DPD08450
DPD084520	DDA9L Elect Typ. Inst. Drg - DC Cert	0	2	07NOV2011	♦ DPD0845
DPD084530	DDA9L Elect Typ. Inst. Drg - Submit to SO	0	2 08NOV2011		♦ DPD0845
DPD084540 DPD085110	DDA9L Elect Typ. Inst. Drg - SO Review DDA10A~E B.S. design- prep. Submission	28 60	2 08NOV2011 2 15OCT2010 A	05DEC2011 16AUG2011	DPD085110
DPD085130	DDA10A~E B.S. design- DC Checking	30	3 15FEB2011 A	16AUG2011	DPD085130
DPD085160	DDA10A~E B.S. design- SO review	28	2 15JUN2011 A	17AUG2011	DPD085160
OPD085161 OPD085200	DDA10A~E B.S. design- RtoC x2	28 30	2 18AUG2011 3 15JUN2011 A	14SEP2011 25AUG2011	DPD085161
DPD085200 DPD085210	DDA10F BS Installation Drg - prep Submission DDA10F BS Installation Drg - DC Checking	28	2 26AUG2011 A	25AUG2011 22SEP2011	DPD085210
DPD085220	DDA10F BS Installation Drg - DC Cert	0	2	22SEP2011	♦ DPD085220
	DDA10F BS Installation Drg - Submit to SO	0	2 23SEP2011		♦ DPD085230
	DDA10F BS Installation Drg - SO Review DDA10F BS Installation Drg - RtoC x2	28 28	2 23SEP2011 2 21OCT2011	200CT2011 17NOV2011	DPD085240
DPD085240			2 01APR2011 A	26AUG2011	DPD090310
DPD085240 DPD085250	DDA11: T&C Plan- prep. Submission	90			
DPD085240 DPD085250 DPD090310	DDA11: T&C Plan- DC Checking	90 30	3 29AUG2011	11OCT2011	DPD090330
DPD085240 DPD085250 DPD090310 DPD090330 DPD090360	DDA11: T&C Plan- DC Checking DDA11: T&C Plan- SO review	30 28	3 29AUG2011 2 15OCT2011	11OCT2011 11NOV2011	DPD
DPD085240 DPD085250 DPD090310 DPD090330 DPD090360 DPD091080	DDA11: T&C Plan- DC Checking DDA11: T&C Plan- SO review DDA 12: SO Review on Final GI Plan	30 28 28	3 29AUG2011 2 15OCT2011 2 03JUN2011 A	11OCT2011 11NOV2011 02AUG2011	
DPD085230 DPD085240 DPD085250 DPD090310 DPD090300 DPD090360 DPD091080 DPD091081 DPD091090	DDA11: T&C Plan- DC Checking DDA11: T&C Plan- SO review	30 28	3 29AUG2011 2 15OCT2011	11OCT2011 11NOV2011	DPD091080
DPD085240 DPD085250 DPD090310 DPD090330 DPD090360 DPD091080 DPD091081	DDA11: T&C Plan- DC Checking DDA11: T&C Plan- SO review DDA 12: SO Review on Final GI Plan DDA 12: Final GI Plan RtoC x2	30 28 28 28 28	3 29AUG2011 2 15OCT2011 2 03JUN2011 A 2 03AUG2011 2	11OCT2011 11NOV2011 02AUG2011 30AUG2011	DPD091080



ontract No. D0 esign, Build ar	C/2008/03 nd Operate Pillar Point Sewage Treatment Works	6							ATA	L - Degremo	nt - China Sta	te Joint Ven
Activity ID	Description	Original Duration	Cal Early Start	Early Finish	JUL 18 25	AUG 01 08 15	22 29 05	2011 SEP 12 19 26		CT 17 24	31 07	NOV 14
DPD150792	Septic: DDA 14F Checker Cert on Structure	28	2 10AUG2011	06SEP2011	10 23			PD150792		17 24	31 07	14
DPD150794	Septic: DDA14F SO Review on Structure	28	2 07SEP2011	04OCT2011	-				DPD150794		DDD450	700
DPD150796 DPD151810	Septic: DDA14F Structure - RtoC x2 Septic: DDA 14G Architecture Submission	28 50	2 05OCT2011 3 18APR2011 A	01NOV2011 10AUG2011	_	DPD151810					DPD150	796
DPD151815	Septic: DDA 14G Checker Cert on Architecture	28	2 11AUG2011	07SEP2011				DPD151815				
DPD151820	Septic: DDA 14G SO Review on Architecture	28	2 08SEP2011	05OCT2011			l l		DPD151820			
DPD151821 DPD153150	Septic: DDA 14G Architecture - RtoC x2 Septic: DDA14A Elect Dwg - SO Review	28 28	2 06OCT2011 2 15JUN2011 A	02NOV2011 13AUG2011	_	DPD1531	50				DPD15	1821
DPD153150	Septic: DDA14A Elect Dwg - SO Review Septic: DDA14A Elect Dwg - RtoC x2	28	2 1330N2011 A	10SEP2011	-	B181331		DPD153151				
DPD153230	Septic: DDA 14B Mech Dwg - DC Checking	28	2 03JUN2011 A	01AUG2011		DPD153230						
DPD153250	Septic: DDA14B Mech Dwg - SO Review	28	2 02AUG2011	29AUG2011			DPD153250					
DPD153251 DPD153330	Septic: DDA14B Mech Dwg - RtoC x2 Septic: DDA14C BS Dwg - DC Checking	28 30	2 30AUG2011 3 31MAY2011 A	26SEP2011 16AUG2011	_	DPD1	53330		DPD153251			
DPD153350	Septic: DDA14C BS Dwg - SO review and Approval	28	2 17AUG2011	13SEP2011	-			DPD153350				
DPD153351	Septic: DDA14C BS Dwg - SO review and Approval	28	2 14SEP2011	110CT2011					DPD	153351		
DPD153530	Septic: DDA14D EMCR Dwg - DC Checking	28	2 24JUN2011 A	17AUG2011	_	DPD	153530					
DPD153550 DPD153551	Septic: DDA14D EMCR Dwg - SO Review Septic: DDA14D EMCR Dwg - RtoC x2	28 28	2 18AUG2011 2 15SEP2011	14SEP2011 12OCT2011	-			DPD153550	DP	D153551		
DPD133331	WB & Access: AIP 24B SO Approval on Civil	28	2 29JUN2011 A	11AUG2011	_	DPD170060				2100001		
DPD170840	WB & Access: DDA 27B Fdn / Structural Submission	25	3 12AUG2011	16SEP2011				DPD170840				
DPD170850	WB & Access: DDA 27B Checker Cert on Structure	28	2 17SEP2011	140CT2011	-					OPD170850		
DPD170880 DPD173610	WB & Access: DDA 27B SO Review on Fdn/Struct WB & Access: DDA27A E&M Submission	28 50	2 15OCT2011 2 21MAR2011 A	11NOV2011 10AUG2011		DPD173610			-			DPD1708
DPD173610 DPD173620	WB & Access: DDA27A E&M Submission WB & Access: DDA27A E&M DC Checking	30	3 11AUG2011	22SEP2011				DPD1	73620			
DPD173640	WB & Access: DDA27A E&M SO Rew & Appr.	28	2 23SEP2011	200CT2011	<u> </u>					DPD173	640	
DPD173641	WB & Access: DDA27A E&M SO RtoC x 2.	28	2 210CT2011	17NOV2011								DI
DPD201441 DPD201705	CEPT Tank: DDA 15F Structure - RtoC x2 CEPT Tank: DDA 15G Checker Cert on Architecture	28 28	2 31MAY2011 A 2 10MAY2011 A			DPD201441						
DPD201705 DPD201710	CEPT Tank: DDA 15G Cnecker Cert on Architecture CEPT Tank: DDA 15G SO Review on Architecture	28	2 10MAY2011 A 2 12AUG2011	08SEP2011	-		1	DPD201710				
DPD201711	CEPT Tank: DDA 15G Architecture - RtoC x2	28	2 09SEP2011	06OCT2011			 I I		DPD20171	1		
DPD203060	CEPT: AIP 11A E&M GA - SO rev. & Appr	28	2 01DEC2010 A			DPD203060						
DPD203130 DPD203150	CEPT: DDA 15A Elect Dwg - DC Checking	30 28	3 23MAR2011 A 2 04AUG2011	03AUG2011 31AUG2011	-	DPD203130	DPD2031	150				
DPD203150 DPD203151	CEPT: DDA 15A Elect Dwg - SO Review CEPT: DDA 15A Elect Dwg - RtoC x2	28	2 04A0G2011 2 01SEP2011	28SEP2011	-		Di D203	100	DPD203151			
DPD203250	CEPT: DDA 15B Mech Dwg - SO Review	28	2 15JUN2011 A	12AUG2011		DPD203250)					
DPD203251	CEPT: DDA 15B Mech Dwg - RtoC x2	28	2 13AUG2011	09SEP2011				DPD203251				
DPD203330 DPD203350	CEPT: DDA 15C BS Dwg - DC Checking CEPT: DDA 15C BS Dwg - SO Review	30 28	3 22FEB2011 A 2 04AUG2011	03AUG2011 31AUG2011	-	DPD203330	DPD2033	350				
DPD203350	CEPT: DDA 15C BS Dwg - Sto Review CEPT: DDA 15C BS Dwg - RtoC x2	28	2 01SEP2011	28SEP2011	-		Bi B2030	550	DPD203351			
DPD203530	CEPT: DDA 15D E&MCR Dwg - DC Checking	40	2 16MAR2011 A			DPD203530						
DPD203550	CEPT: DDA 15D E&MCR Dwg - SO Review	28	2 03AUG2011	30AUG2011			DPD20355					
DPD203551 DPD213201	CEPT: DDA 15D E&MCR Dwg - RtoC x2 CEPT: E&M Equipment SO Review	28 28	2 03AUG2011 2 03FEB2011 A	30AUG2011 10AUG2011	_	DPD213201	DPD20355	51				
DPD213201 DPD300060	UV: AIP 13B Civil Checking and Approval	28	2 03FEB2011 A		_	DPD300060						
DPD300750	UV: DDA 17E Checker Cert on Foundation	28	2 14JUN2011 A	12AUG2011		DPD300750)					
DPD300780	UV: DDA 17E SO Review on Foundation	28	2 13AUG2011	09SEP2011				DPD300780				
DPD300781 DPD300792	UV: DDA 17E Foundation - RtoC x2 UV: DDA 17F Checker Cert on Structure	28 28	2 10SEP2011 2 14JUN2011 A	07OCT2011 12AUG2011		DPD300792)		DPD3007	81		
DPD300792 DPD300794	UV: DDA 17F SO Review on Structure	28	2 1450N2011 A	09SEP2011	-	Di D300132		DPD300794				
DPD300796	UV: DDA 17F Structure - RtoC x2	28	2 10SEP2011	07OCT2011			 		DPD3007	96		
DPD301815	UV: DDA 17G Checker Cert on Mis Civil	28	2 14JUN2011 A	12AUG2011		DPD30181	5					
DPD301820 DPD301821	UV: DDA 17G SO Review on Mis Civil UV: DDA 17G Mis Civil - RtoC x2	28 28	2 13AUG2011 2 10SEP2011	09SEP2011 07OCT2011	-			DPD301820	DPD3018	21		
DPD301821 DPD303130	UV: DDA 17A Elect Dwg - DC Checking	30	3 14JUN2011 A	05AUG2011	_	DPD303130			Di 23010	21		
DPD303150	UV: DDA 17A Elect Dwg - SO Review	28	2 06AUG2011	02SEP2011			DPD30	03150				
DPD303151	UV: DDA 17A Elect Dwg - RtoC x2	28	2 03SEP2011	30SEP2011					DPD303151			
DPD303230	UV: DDA 17B Mech Dwg - DC Checking	30	3 27APR2011 A 2 05AUG2011		-	DPD303230	DPD303	3250				
DPD303250 DPD303251	UV: DDA 17B Mech Dwg - SO Review UV: DDA 17B Mech Dwg - RtoC x2	28 28	2 05AUG2011 2 02SEP2011	01SEP2011 29SEP2011	-				DPD303251			
DPD303330	UV: DDA 17C BS Dwg - DC Checking	30	3 13JUN2011 A	05AUG2011		DPD303330						
DPD303350	UV: DDA 17C BS Dwg - SO Review	28	2 06AUG2011	02SEP2011			DPD30	03350				
DPD303351	UV: DDA 17C BS Dwg - RtoC x2	28	2 03SEP2011	30SEP2011		DPD303530			DPD303351			
DPD303530 DPD303550	UV: DDA 17D E&MCR Dwg - DC Checking UV: DDA 17D E&MCR Dwg - SO Review	28 28	2 27APR2011 A 2 01AUG2011	31JUL2011 28AUG2011		01 0303330	DPD303550					
DPD303551	UV: DDA 17D E&MCR Dwg - RtoC x2	28	2 29AUG2011	25SEP2011	+			D	PD303551			
DPD313200	UV: UV Sys Equipment Approval	150	2 15JAN2011 A	25SEP2011			1	D	PD313200			
DPD320070	RWPS: AIP 17B Civil Checking and Approval	28	2 11FEB2011 A		-	DPD320070	DPD320080					
DPD320080 DPD320740	RWPS: AIP 17B SO Approval on Civil RWPS: DDA 21E Foundation Submission	28 75	2 31JUL2011 3 01APR2011 A	27AUG2011 16AUG2011		DPD3						
DPD320750	RWPS: DDA 21E Checker Cert on Foundation	28	2 17AUG2011	13SEP2011				DPD320750				
DPD320780	RWPS: DDA 21E SO Review on Foundation	28	2 14SEP2011	11OCT2011]				DPD	320780		
OPD320781	RWPS: DDA 21E Foundation - RtoC x2	28	2 12OCT2011	08NOV2011	_	DBDO	20782					DPD320781
DPD320782 DPD320784	RWPS: DDA 21F Structure Submission RWPS: DDA 21F Checker Cert on Structure	75 28	3 01APR2011 A 2 17AUG2011	16AUG2011 13SEP2011	-	DPD3	20/02	DPD320784				
DPD320784 DPD320786	RWPS: DDA 21F Checker Cert on Structure RWPS: DDA 21F SO Review on Structure	28	2 14SEP2011	110CT2011	+			2.2020704	DPD	320786	 I	
DPD320788	RWPS: DDA 21F Structure - RtoC x2	28	2 12OCT2011	08NOV2011	1							DPD320788
DPD321005	RWPS: DDA 21G Checker Cert on Mis Civil	28	2 15JUN2011 A		_	DPD3	21005					
DPD321010	RWPS: DDA 21G SO Review on Mis Civil	28	2 17AUG2011	13SEP2011	-			DPD321010		321011		
DPD321011 DPD323110	RWPS: DDA 21G Mis Civil - RtoC x2 RWPS: DDA 21A Elect Dwg - Submission	28 60	2 14SEP2011 2 28MAR2011 A	11OCT2011 06AUG2011		DPD323110				521011		
DPD323130	RWPS: DDA 21A Elect Dwg - Sconsson RWPS: DDA 21A Elect Dwg - DC Checking	30	3 08AUG2011	19SEP2011				DPD3231	30			
DPD323150	RWPS: DDA 21A Elect Dwg - SO Review	28	2 20SEP2011	170CT2011]					DPD323150		
DPD323151	RWPS: DDA 21A Elect Dwg - RtoC x2	28	2 18OCT2011	14NOV2011								DPD3
DPD323230 DPD323250	RWPS: DDA 21B Mech Dwg - DC Checking RWPS: DDA 21B Mech Dwg - SO Review	30 28	3 01JUN2011 A 2 04AUG2011	03AUG2011 31AUG2011		DPD323230	DPD3232	250				
DPD323250 DPD323251	RWPS: DDA 21B Mech Dwg - SO Review	28	2 04A0G2011	28SEP2011	-		01 00202		DPD323251			



Activity	nd Operate Pillar Point Sewage Treatment Works		Farly	Farly			2011		
IDÍ	Description	Original Duration	Cal Early Start	Early Finish	JUL 18 25	AUG 01 08 15 22 2	SEP	OCT 03 10 17 24	NOV 31 07 14 21
DPD501310 DPD501311	Chemical: DDA 22G SO Review on Mis Civil Chemical: DDA 22G Mis Civil - RtoC x2	28 28	2 03SEP2011 2 01OCT2011	30SEP2011 28OCT2011		i 		DPD501310	PD501311
DPD501500	Chemical: DDA 22H Architectural Submission	70	3 18APR2011 A	05SEP2011			DPD501500		
DPD501505	Chemical: DDA 22H Checker Cert on Architectural	28	2 05SEP2011	03OCT2011	-			DPD501505	
DPD501510 DPD501511	Chemical: DDA 22H SO Review on Architectural Chemical: DDA 22H Architectural - RtoC x2	28 28	2 030CT2011 2 310CT2011	310CT2011 28NOV2011	-				DPD501510
DPD501700	Chemical: DDA 22J Mis Architectural Submission	70	3 03MAY2011 A	08SEP2011			DPD501700		
DPD501705	Chemical: DDA 22J Checker Cert Mis Architectural	28	2 09SEP2011	06OCT2011	-			DPD501705	
DPD501710 DPD501711	Chemical: DDA 22J SO Review on Mis Architecture Chemical: DDA 22J Mis Architecture - RtoC x2	28 28	2 07OCT2011 2 04NOV2011	03NOV2011 01DEC2011	-				DPD501710
DPD503130	Chemical: DDA 22A Elect Dwg - DC Checking	30	3 14JUN2011 A	11AUG2011	_	DPD503130			
DPD503150	Chemical: DDA 22A Elect Dwg - SO Review	28	2 12AUG2011	08SEP2011			DPD503150		
DPD503151 DPD503250	Chemical: DDA 22A Elect Dwg - RtoC x2 Chemical: DDA 22B Mech Dwg - SO Review	28 28	2 09SEP2011 2 28JUN2011 A	06OCT2011 24AUG2011		DPD5	03250	DPD503151	
DPD503250	Chemical: DDA 22B Mech Dwg - 30 Review Chemical: DDA 22B Mech Dwg - RtoC x2	28	2 25AUG2011 A	21SEP2011	-		DPD50325	51	
DPD503310	Chemical: DDA 22C BS Dwg - Submission	60	2 01FEB2011 A	01AUG2011	-	DPD503310	 		
DPD503330 DPD503350	Chemical: DDA 22C BS Dwg - DC Checking	30 28	3 02AUG2011 2 13SEP2011	12SEP2011 10OCT2011	-		DPD503330	DPD503350	
DPD503351	Chemical: DDA 22C BS Dwg - SO Review Chemical: DDA 22C BS Dwg - RtoC x2	28	2 133EF2011 2 11OCT2011	07NOV2011	-			Di D	DPD503351
DPD503530	Chemical: DDA 22D E&MCR Dwg - DC Checking	28	2 25MAY2011 A	08AUG2011		DPD503530			
DPD503550	Chemical: DDA 22D E&MCR Dwg - SO review	28	2 09AUG2011	05SEP2011			DPD503550		
DPD503551 DPD600730	Chemical: DDA 22D E&MCR Dwg - SO rtoC x 2 Sludge: DDA 16E Checker Cert on Foundation	28 28	2 06SEP2011 2 30APR2011 A	03OCT2011 05AUG2011		DPD600730		DPD503551	
DPD600740	Sludge: DDA 16E SO Review on Foundation	28	2 06AUG2011	02SEP2011	-		DPD600740		
DPD600741	Sludge: DDA 16E Foundation - Rtoc x2	28	2 03SEP2011	30SEP2011				DPD600741	
DPD600970 DPD600980	Sludge: DDA 16F Checker Cert on Structural Sludge: DDA 16F SO Review on Structural	28 28	2 28APR2011 A 2 06AUG2011	05AUG2011 02SEP2011		DPD600970	DPD600980		
DPD600980 DPD600981	Sludge: DDA 16F SO Review on Structural Sludge: DDA 16F Structural - RtoC x2	28	2 03SEP2011	30SEP2011	-		DFD600980	DPD600981	
DPD601310	Sludge: DDA 16H Checker Cert on Architectural	28	2 29APR2011 A	08AUG2011		DPD601310			
DPD601320	Sludge: DDA 16H SO Review on Architectural	28	2 09AUG2011	05SEP2011			DPD601320		
DPD601330 DPD603130	Sludge: DDA 16H Architectural - RtoC x2 Sludge: DDA 16A Elect Dwg - DC Checking	28 30	2 06SEP2011 3 05MAY2011 A	03OCT2011 10AUG2011		DPD603130		DPD601330	
DPD603150	Sludge: DDA 16A Elect Dwg - DO Greeking	28	2 11AUG2011	07SEP2011	-		DPD603150		
DPD603151	Sludge: DDA 16A Elect Dwg - RtoC x2	28	2 08SEP2011	05OCT2011				DPD603151	
DPD603230	Sludge: DDA 16B Mech Dwg - DC Checking	30	3 29APR2011 A	10AUG2011	-	DPD603230	DPD603250		
DPD603250 DPD603251	Sludge: DDA 16B Mech Dwg - SO Review Sludge: DDA 16B Mech Dwg - RtoC x2	28 28	2 11AUG2011 2 08SEP2011	07SEP2011 05OCT2011				DPD603251	
DPD603330	Sludge: DDA 16C BS Dwg - DC Checking	30	3 12MAY2011 A	12AUG2011	_	DPD603330			
DPD603350	Sludge: DDA 16C BS Dwg - SO Review	28	2 13AUG2011	09SEP2011]		DPD603350	DDD00051	
DPD603351 DPD603530	Sludge: DDA 16C BS Dwg - RtoC x2 Sludge: DDA 16D E&MCR Dwg - DC Checking	28 28	2 10SEP2011 2 30APR2011 A	07OCT2011		DPD603530		DPD603351	
DPD603550	Sludge: DDA 16D E&MCR Dwg - DO Onecking	28	2 06AUG2011	02SEP2011			DPD603550		
DPD603551	Sludge: DDA 16D E&MCR Dwg - RtoC x2	28	2 03SEP2011	30SEP2011				DPD603551	
DPD613201 DPD613202	Sludge: Sludge Dewatering sys SO Review	50	2 04JUN2011 A	05SEP2011	-		DPD613201	DPD613202	
DPD613202 DPD700060	Sludge: Sludge Dewatering sys - Rtoc x2 DOU: AIP 14B Civil Checking and Approval	28 28	2 06SEP2011 2 28JUN2011 A	03OCT2011 11AUG2011		DPD700060		DF D013202	
DPD700740	DOU: DDA 18E Foundation Submission	70	3 11APR2011 A	16AUG2011		DPD700740			
DPD700750	DOU: DDA 18E Checker Cert on Foundation	28	2 17AUG2011	13SEP2011]		DPD700750		
DPD700780 DPD700781	DOU: DDA 18E SO Review on Foundation DOU: DDA 18E Foundation - Rtoc x2	28 28	2 14SEP2011 2 12OCT2011	11OCT2011 08NOV2011	-			DPD700780	DPD700781
DPD700790	DOU: DDA 18F Structural Submission	70	3 11APR2011 A	16AUG2011		DPD700790			
DPD700792	DOU: DDA 18F Checker Cert on Structural	28	2 17AUG2011	13SEP2011			DPD700792		
DPD700794 DPD700796	DOU: DDA 18F SO Review on Structural DOU: DDA 18F Structural - Rtoc x2	28 28	2 14SEP2011 2 12OCT2011	110CT2011 08NOV2011	-			DPD700794	DPD700796
DPD701000	DOU: DDA 18G Mis Civil Submission	80	3 18APR2011 A	31AUG2011	_		DPD701000		
DPD701005	DOU: DDA 18G Checker Cert on Mis Civil	28	2 01SEP2011	28SEP2011			C	DPD701005	
DPD701010	DOU: DDA 18G SO Review on Mis Civil DOU: DDA 18G Mis Civil - RtoC x2	28 28	2 29SEP2011	26OCT2011 23NOV2011	-			DPD	0701010
DPD701011 DPD703130	DOU: DDA 18G Mis Civil - RIOC 22 DOU: DDA 18A Elect Dwg - DC Checking	30	2 270CT2011 3 14JUN2011 A	11AUG2011	_	DPD703130			
DPD703150	DOU: DDA 18A Elect Dwg - SO Review	28	2 12AUG2011	08SEP2011			DPD703150		
DPD703151	DOU: DDA 18A Elect Dwg - RtoC x2	28	2 09SEP2011	06OCT2011				DPD703151	
DPD703230 DPD703250	DOU: DDA 18B Mech Dwg - DC Checking DOU: DDA 18B Mech Dwg - SO Review	30 28	3 13JUN2011 A 2 10AUG2011	09AUG2011 06SEP2011	-	DPD703230	DPD703250		
DPD703251	DOU: DDA 18B Mech Dwg - RtoC x2	28	2 07SEP2011	040CT2011	-			DPD703251	
DPD703310	DOU: DDA 18C BS Dwg - Submission	70	2 27APR2011 A	05AUG2011	-	DPD703310			
DPD703330	DOU: DDA 18C BS Dwg - DC Checking	30 28	3 08AUG2011	19SEP2011			DPD703330	DPD703350	
DPD703350 DPD703351	DOU: DDA 18C BS Dwg - SO Review DOU: DDA 18C BS Dwg - RtoC x2	28	2 20SEP2011 2 18OCT2011	17OCT2011 14NOV2011	-				DPD703
DPD703530	DOU: DDA 18D E&MCR Dwg - DC Checking	28	2 27JUN2011 A	24AUG2011		DPD7	03530		
DPD703550	DOU: DDA 18D E&MCR Dwg - SO Review	28 28	2 25AUG2011	21SEP2011 19OCT2011	-		DPD70355	50 DPD703551	1
DPD703551 DPD713201	DOU: DDA 18D E&MCR Dwg - RtoC x2 DOU: DOU Sys SO Review	28 30	2 22SEP2011 2 05MAY2011 A	26AUG2011		DP	D713201		
DPD713202	DOU: DOU Sys - RtoC x2	28	2 27AUG2011	23SEP2011	1		DPD71	3202	
DPD800750	Admin Bldg: DDA 23D SO Review Foundation	28		06AUG2011	-	DPD800750	DDD000754		
DPD800751 DPD800756	Admin Bldg: DDA 23D Foundation - RtoC x2 Admin Bldg: DDA 23E SO Review Structure	28 28	2 07AUG2011 2 04MAR2011 A	03SEP2011 06AUG2011		DPD800756	DPD800751		
DPD800758 DPD800758	Admin Bldg: DDA 23E SO Review Structure Admin Bldg: DDA 23E Structure - RtoC x2	28	2 04MAR2011 A 2 07AUG2011	03SEP2011			DPD800758		
DPD801700	Admin Bldg: DDA 23F Mis Civil Submission	25	3 18APR2011 A	10AUG2011	-	DPD801700			
DPD801705	Admin Bldg: DDA 23F Checker Cert on Mis Civil	28	2 11AUG2011	07SEP2011	-		DPD801705	DPD801710	
DPD801710 DPD801711	Admin Bldg: DDA 23F SO Review on Mis Civil Admin Bldg: DDA 23F Mis Civil - RtoC x2	28 28	2 08SEP2011 2 06OCT2011	05OCT2011 02NOV2011	-				DPD801711
DPD801905	Admin Bldg: DDA 23G Checker Cert on Architecture	28		11AUG2011		DPD801905		J	
DPD801910	Admin Bldg: DDA 23G SO Review on Architecture	28	2 12AUG2011	08SEP2011	-		DPD801910	DDDCC1011	
DPD801911 DPD803330	Admin Bldg: DDA 23G Architecture - RtoC x2 Admin Bldg: DDA 23C BS Dwg - DC Checking	28 30	2 09SEP2011 3 28MAR2011 A	06OCT2011 10AUG2011		DPD803330		DPD801911	
0000000	Ramin Didy. DDA 250 D5 Dwy - D0 Ollecking	50	J ZOWANZUTTA	100002011	-	D1 000000	DDD000050		



Activity ID	Description	Original Duration	Cal	Early Start	Early Finish	JUL	AUG SEP	OCT NOV
D902840	Elect Bldg 1: DDA 19A Elect Dwg - DC Checking	30	3	03JUN2011 A	02AUG2011	18 25	01 08 15 22 29 05 12 19 DPD902840	26 03 10 17 24 31 07 14
D902850	Elect Bldg 1: DDA 19A Elect Dwg - SO Review	28		03AUG2011	30AUG2011]	DPD902850	DDD002954
D902851	Elect Bldg 1: DDA 19A Elect Dwg - RtoC x2 Elect Bldg 1: DDA 19C BS Dwg - Submission	28 60		31AUG2011 12JAN2011 A	27SEP2011 03AUG2011		DPD902860	DPD902851
D902870	Elect Bldg 1: DDA 19C BS Dwg - DC Checking	30		04AUG2011	15SEP2011		DPD902	
D902880	Elect Bldg 1: DDA 19C BS Dwg - SO Review Elect Bldg 1: DDA 19C BS Dwg - RtoC x2	28 28		16SEP2011 14OCT2011	13OCT2011 10NOV2011	-		DPD902880 DPD9028
D902893	Elect Bldg 1: DDA 19D E&M CR Dwg - DC Checking	28		17JUN2011 A	09AUG2011		DPD902893	
D902895	Elect Bldg 1: DDA 19D E&M CR Dwg - SO rew & Appr Elect Bldg 1: DDA 19D E&M CR Dwg - RtoC x 2	28 28		10AUG2011 07SEP2011	06SEP2011 04OCT2011	_	DPD902895	DPD902896
D902930	Elect Bldg 1: Elec Equipment SO Rew. & Appr	80	2	14MAR2011 A	10AUG2011		DPD902930	
D903240	EB2/3 PTWMCC: AIP 16B SO Approval on Civil EB2/3 PTWMCC: DDA 20E Foundation Submission	28 65		29JUN2011 A 11APR2011 A	06AUG2011 16AUG2011	-	DPD903240 DPD903450	
D903455	EB2/3 PTWMCC: DDA20E Checker Cert Foundation	28	2	17AUG2011	13SEP2011		DPD90345	
D903460	EB2/3 PTWMCC: DDA 20E SO Review Foundation EB2/3 PTWMCC: DDA 20E Foundation - RtoC x2	28 28		14SEP2011 12OCT2011	11OCT2011 08NOV2011	_		DPD903460 DPD903461
D903462	EB2/3 PTWMCC: DDA 20F Structure Submission	65		11APR2011 A	16AUG2011		DPD903462	
D903464	EB2/3 PTWMCC: DDA 20F Checker Cert Structure EB2/3 PTWMCC: DDA 20F SO Review Structure	28 28		17AUG2011 14SEP2011	13SEP2011 11OCT2011		DPD90346	4 DPD903466
D903468	EB2/3 PTWMCC: DDA 20F SC Review Structure EB2/3 PTWMCC: DDA 20F Structure - RtoC x2	28		150CT2011	11NOV2011	-		DPD903
D903600	EB2/3 PTWMCC: DDA 20G Mis Civil Submission	60		18APR2011 A	19AUG2011		DPD903600	2205
D903605	EB2/3 PTWMCC: DDA 20G Checker Cert Mis Civil EB2/3 PTWMCC: DDA 20G SO Review Mis Civil	28 28		20AUG2011 17SEP2011	16SEP2011 14OCT2011	-		DPD903610
D903611	EB2/3 PTWMCC: DDA 20G Mis Civil - RtoC x2	28		15OCT2011	11NOV2011			DPD903
D903670	EB2/3 PTWMCC: DDA 20H Architectural Submission EB2/3 PTWMCC: DDA20H Checker Cert Architecture	55 28		18APR2011 A 10AUG2011	09AUG2011 06SEP2011	_	DPD903670 DPD903675	
D903680	EB2/3 PTWMCC: DDA 20H SO Review Architecture	28		07SEP2011	040CT2011	-		DPD903680
D903681	EB2/3 PTWMCC: DDA 20H Architecture - RtoC x2 EB2/3 PTWMCC: DDA 20J Mis Archit Submission	28 55		05OCT2011 18APR2011 A	01NOV2011 09AUG2011		DPD903760	DPD903681
D903760 D903765	EB2/3 PTWMCC: DDA 20J Mis Archit Submission EB2/3 PTWMCC: DDA 20J Checker Cert Mis Archit	55 28		18APR2011 A 10AUG2011	09AUG2011 06SEP2011		DPD903760	
D903770	EB2/3 PTWMCC: DDA20J SO Review Mis Archit	28		07SEP2011	04OCT2011	-		DPD903770
D903771 D903830	EB2/3 PTWMCC: DDA20J Mis Archit - RtoC x2 EB2/3 PTWMCC: DDA 20A Elect Dwg - Submission	28 60		05OCT2011 17JAN2011 A	01NOV2011 04AUG2011		DPD903830	L 10903//1
D903840	EB2/3 PTWMCC: DDA 20A Elect Dwg - DC Checking	30	3	05AUG2011	16SEP2011		DPD90	
D903850	EB2/3 PTWMCC: DDA 20A Elect Dwg - SO Review EB2/3 PTWMCC: DDA 20A Elect Dwg - RtoC x2	28 28		17SEP2011 15OCT2011	14OCT2011 11NOV2011	-		DPD903850
D903851	EB2/3 PTWMCC: DDA 20A Elect Dwg - Rtoc v2 EB2/3 PTWMCC: DDA 20C BS Dwg - Submission	60		17JAN2011 A	04AUG2011		DPD903860	
D903870	EB2/3 PTWMCC: DDA 20C BS Dwg - DC Checking	30		05AUG2011	16SEP2011		DPD90	DPD903880
D903880 D903881	EB2/3 PTWMCC: DDA 20C BS Dwg - SO Review EB2/3 PTWMCC: DDA 20C BS Dwg - RtoC x2	28 28		17SEP2011 15OCT2011	14OCT2011 11NOV2011	-		DPD903880
D903890	EB2/3 PTWMCC: DDA 20D E&M CR Dwg - Submission	60	2	17JAN2011 A	04AUG2011	-	DPD903890	12002
D903893	EB2/3 PTWMCC: DDA 20D E&M CR Dwg - DC EB2/3 PTWMCC: DDA 20D E&M CR Dg - SO Review	30 28		05AUG2011 17SEP2011	16SEP2011 14OCT2011	-	DPD90	DPD903895
D903896	EB2/3 PTWMCC: DDA 20D E&M CR Dg - RtoC x2	28	2	15OCT2011	11NOV2011	+		DPD903
D903940 D903954	EB2/3 PTWMCC: ElecEquip't Checking & Appr Refurbish: AIP 22A E&M GA Drg - SO Rew & Appr.	90 28		14MAR2011 A 07FEB2011 A	26AUG2011 21AUG2011		DPD903940	
D903954 D903978	Refurbish: AIP 22A E&M GA Drg - SO Rew & Appr. Refurbish: AIP 22B SO Approval Modification SHB	28		07FEB2011 A 02JUN2011 A	16AUG2011		DPD903954	
D904001	Refurbish: DDA 25 E Renewal Work Fdn Submission	35		18APR2011 A	17AUG2011		DPD904001	PD0//005
D904005 D904010	Refurbish: DDA 25 E Checker Cert Foundation Refurbish: DDA 25 E SO Review Foundation	28 28		18AUG2011 21SEP2011	20SEP2011 18OCT2011	-		PD904005
D904011	Refurbish: DDA 25 E Foundation - RtoC x2	28	2	19OCT2011	15NOV2011	1		DP
D904160	Refurbish: DDA 25A~D E&M Dwg - Submission Refurbish: DDA 25A~D E&M Dwg - DC Checking	60 30		17JAN2011 A 08AUG2011	06AUG2011 19SEP2011	-	DPD904160	D904170
D904180	Refurbish: DDA 25A~D E&M Dwg - SO Review	28	3	20SEP2011	280CT2011			DPD904180
D904181	Refurbish: DDA 25A~D E&M Dwg - RtoC x2 Flowmeter C: AIP 20A E&M SO Rew & Appr	28 28		31OCT2011 30NOV2010 A	07DEC2011 06AUG2011		DPD904207	
D904207 D904515	Flowmeter C: AIP 20A Eaki SO Rew & Appi Flowmeter C: AIP 20B Checker Cert on Fdn/Struct	21	2	15MAR2011 A	06AUG2011		DPD904515	
D904520	Flowmeter C: AIP 20B SO Approval on Fdn/ Struct	28		07AUG2011	03SEP2011		DPD904705	
D904705 D904710	Flowmeter C: DDA 24EF&F Checker Cert Fdn/Struct Flowmeter C: DDA 24E&F SO Review Fdn/Struct	28 28		14JUN2011 A 07AUG2011	06AUG2011 03SEP2011	-	DPD904705 DPD904710	
D904711	Flowmeter C: DDA 24E&F Fdn/Struct - RtoC x2	28	2	04SEP2011	01OCT2011			DPD904711
D904810 D904820	Flowmeter C: DDA 24A~D E&M Dwg - Submission Flowmeter C: DDA 24A~D E&M Dwg - DC Checking	60 30		17JAN2011 A 02AUG2011	01AUG2011 12SEP2011	-	DPD904810 DPD904820	
D904830	Flowmeter C: DDA 24A~D E&M Dwg - SO rew &Appr	28	2	13SEP2011	10OCT2011			DPD904830
D904831	Flowmeter C: DDA 24A~D E&M Dwg - RtoC x2 Mis: AIP 25D Checker Cert on Gate House	28 21		110CT2011 17MAR2011 A	07NOV2011 06AUG2011		DPD916126	DPD904831
D916127	Mis: AIP 25D SCHecker Cert on Gate House Mis: AIP 25D SO Approval on Gate House	28	2	07AUG2011	03SEP2011	1	DPD916127	
D916260 D916270	Mis: DDA 28A Ext Civil Works Submission Mis: DDA 28A Checker Cert Ext Civil Works	100 28		24JAN2011 A 11AUG2011	10AUG2011 07SEP2011		DPD916260	
D916270 D916280	Mis: DDA 28A Checker Cert Ext Civil Works Mis: DDA 28A SO Review on Ext Civil Works	28 28		11AUG2011 08SEP2011	07SEP2011 05OCT2011	-	DPD916270	DPD916280
D916281	Mis: DDA 28A Ext Civil Works - RtoC x2	28	2	06OCT2011	02NOV2011		DDD46500	DPD916281
D916500 D916510	Mis: DDA 28B Mis Civil Works Submission Mis: DDA 28B Checker Cert Mis Civil Works	28 28		25JUL2011 A 25AUG2011	24AUG2011 21SEP2011		DPD916500	DPD916510
D916520	Mis: DDA 28B SO Review on Mis Civil Works	28	2	23SEP2011	20OCT2011	<u>+</u>		DPD916520
D916521 D916540	Mis: DDA 28B Mis Civil Works - RtoC x2 Mis: DDA 28D Gate House Submission	28 20		21OCT2011 27JUL2011 A	17NOV2011 24AUG2011	-	DPD916540	
D916540 D916550	Mis: DDA 28D Gate House Submission Mis: DDA 28D Checker Cert on Gate House	20		27J0L2011 A 25AUG2011	24A0G2011 21SEP2011	1		DPD916550
D916560	Mis: DDA 28D SO Review on Gate House	28		22SEP2011	19OCT2011	+		DPD916560
D916570 D916700	Mis: DDA 28D Gate House - RtoC x2 Mis: DDA 26 Landscape Submission	28 40	2	200CT2011 13MAY2011 A	16NOV2011 22AUG2011		DPD916700	
D916705	Mis: DDA 26 Checker Cert on Landscape	28	2	23AUG2011	19SEP2011			D916705
D916710 D916711	Mis: DDA 26 SO Review on Landscape Mis: DDA 26 Landscape - RtoC x2	28 28		20SEP2011 18OCT2011	17OCT2011 14NOV2011	-		DPD916710
D917810	Mis: DDA 26 E&M Dwg - Submission	60	2	17JAN2011 A	11AUG2011		DPD917810	
D917820 D917830	Mis: DDA 26A E&M Dwg - DC Checking Mis: DDA 26A E&M Dwg - SO Review	30 28		12AUG2011 24SEP2011	23SEP2011 21OCT2011	-		DPD917820
D917830 D917831	Mis: DDA 26A E&M Dwg - SO Review Mis: DDA 26A E&M Dwg - RtoC x2	28 28		24SEP2011 22OCT2011	210C12011 18NOV2011	_		
D923010	Mis: DDA 28C - Submission	60		19MAY2011 A	18AUG2011		DPD923010	DDD022020
D923030 D923050	Mis: DDA 28C - DC Checking Mis: DDA 28C - SO Review	30 28		19AUG2011 01OCT2011	30SEP2011 28OCT2011	-		DPD923030
D923051	Mis: DDA 28C - RtoC x2	28	2	29OCT2011	25NOV2011	1	000	
D923410 D923430	Mis: DDA 28F Mis BS - Submission Mis: DDA 28F Mis BS - DC Checking	60 30		08APR2011 A 17AUG2011	16AUG2011 28SEP2011	-	DPD923410	DPD923430
D923450	Mis: DDA 28F Mis BS - SO Review	28	2	29SEP2011	26OCT2011			DPD923450
D923451 D923510	Mis: DDA 28F Mis BS - RtoC x2 Mis: DDA 28E E&M Dwg - Submission	28 60		27OCT2011 08APR2011 A	23NOV2011 16AUG2011		DPD923510	
D923510 D923530	Mis: DDA 28E E&M Dwg - Submission Mis: DDA 28E E&M Dwg - DC Checking	30		17AUG2011	28SEP2011			DPD923530
D923550	Mis: DDA 28E E&M Dwg - SO Review	28	2	29SEP2011	26OCT2011			DPD923550
D923551 D926810	Mis: DDA 28E E&M Dwg - Rtoc x2 Mis: Solid Handling Bldg Eq. Submission	28 60		27OCT2011 18JAN2011 A	23NOV2011 09AUG2011		DPD926810	
D926830	Mis: Guard House Equipment Submission	60	2	18JAN2011 A	09AUG2011		DPD926830	
D926840 tory Submiss	Mis: E&M Equipment Checking and Approval	120	2	10AUG2011	07DEC2011			
mission and	Approval							
0100050 0100400	DSD &ASD - GBP Submission and Approval	60 90	2	29NOV2010 A 02AUG2011	21AUG2011 30OCT2011	-	SS0100050	\$\$0100400
0100400 0100410	EPD - Sewage Discharge License Approval EPD - Approval for Sewage Discharge	90	2	027002011	30OC12011 30OCT2011	-		◆ SS0100400
0110700	WSD & ASD- Approve Water Supply /Plumbing issue	80		29NOV2010 A			SS0110700	

, <u> </u>	nd Operate Pillar Point Sewage Treatment Wor					
Activity ID	Description	Original Duration		Early Start	Early Finish	2011 JUL AUG SEP OCT NOV 125 01 08 15 12 12 05 12 19 26 03 10 17 124 131 107 14
SS0110800	FSD - Approve Fire Safety / Services Aspects	80		29NOV2010 A		SS0110800
S0110810	EPD - Register of Changes under Environ. Permit VCAB Submission and Approval	100 300		13SEP2010 A 13SEP2010 A		SS0110810 SS0121000
S0121000	ArchSD Submission and Approval (Stage 1)	150			02AUG2011	SS0122100
SS0122200	ArchSD Submission and Approval (Stage 2)	120	1	03AUG2011	23DEC2011	
and Structural V	Works Concerned Primary Treatement System					
uilding and Stru	· · ·					
CC200136	CEPT: Delivery of E&M Cast-in Item (2)	0	1		23AUG2011	◆ CCC200136
CCC200145	CEPT: Delivery of E&M Cast-in Item (3)	0	1		28SEP2011 07NOV2011	◆ CCC200145 ◆ CCC200145
CCC200146 CCC201232	CEPT: Delivery of E&M Cast-in Item (4) CEPT: Bay 1 - Concrete Raft Slab (Zone 2)	12	1	26JUL2011 A		CCC2001-
CCC201250	CEPT: Bay 5 - Concrete Raft Slab West Stage 1	18		28JUL2011	17AUG2011	CCC201250
CCC201260	CEPT: Bay 5 - Concrete Raft Slab West Stage 2	18		18AUG2011	07SEP2011	CCC201260
CCC201270 CCC201280	CEPT: Bay 5 - Pit at -7.925 of Zone 5 CEPT: Bay 5 - Raft Slab of Zone 5 East	8		08SEP2011 19SEP2011	17SEP2011 11OCT2011	CCC201270 CCC201280
CCC201305	CEPT: Bay 4 - Concrete Raft Slab (2)	18		18AUG2011	07SEP2011	CCC201305
CCC201310	CEPT: Bay 4 - Concrete Raft Slab (3)	10		08SEP2011	20SEP2011	CCC201310
CCC201320	CEPT: Bay 3 - Remaining Formation and Blinding	6 10		21SEP2011	27SEP2011	CCC201320
CCC201330 CCC201340	CEPT: Bay 3 - Pit at -7.925 of Zone 3 CEPT: Bay 3 - Pit at -7.925 of Zone 4	10		28SEP2011 12OCT2011	11OCT2011 22OCT2011	CCC201340
CCC201350	CEPT: Bay 3 - Concrete Raft Slab (Zone 3)	12		210CT2011	03NOV2011	CCC201350
CCC201355	CEPT: Bay 3 - Concrete Raft Slab (Zone 4)	12		04NOV2011	17NOV2011	
CCC201390 CCC201400	CEPT: Preparation of Formwork/Scaffolding CEPT: Bay 2 - Wall upto (2.9 ~3.2)	10 22		09AUG2011 17AUG2011	19AUG2011 10SEP2011	CCC201390
CCC201400 CCC201410	CEPT: Bay 2 - Wall upto (2.9 ~3.2) CEPT: Bay 2 - Slab and Beam at Densadeq	22		12SEP2011	10SEP2011 17OCT2011	CCC201400
CCC201420	CEPT: Bay 2 - Wall up to Ground Floor	18	1	18OCT2011	07NOV2011	CCC201424
CCC201430	CEPT: Bay 1 - Wall at Tanks and Pump Room	36		01NOV2011	12DEC2011	
CCC201450 CCC201460	CEPT: Bay 5 - Wall upto (2.9 ~3.2) CEPT: Bay 5 - Slab and Beam at Densadeq	18 28		12OCT2011 02NOV2011	01NOV2011 03DEC2011	CCC201450
CCC201400	CEPT: Bay 3 - Stab and Beam at Densadeq CEPT: Bay 4 - Wall upto (2.9 ~3.2)	20		21SEP2011	170CT2011	CCC201490
CCC201500	CEPT: Bay 4 - Slab and Beam at Densadeq	28	1	18OCT2011	18NOV2011	
ew Preliminary T Building and Stru	Treatment Works					
	PTWN: Raft foundation - 1000 ~ 1500mm thk.	29	1	19JUL2011 A	17AUG2011	CCC110140
CCC110150	PTWN: Substructure - Walls and Slab to +2	34		18AUG2011	27SEP2011	CCC110150
CCC110160 CCC110165	PTWN: Wall & Top Roof PTWN: Water Tightness Test	34 18		21SEP2011 02NOV2011	01NOV2011 22NOV2011	CCC110160
CCC110185	PTWS: Available of E&M Cast-in Material	0	1	211012011	01NOV2011	♦ CCC110185
CCC130190	PTWS: Excavation (Phase B)	20	1	02NOV2011	24NOV2011	
sinfection Syster Building and Stru						
Building and Stru CCC600210 Ixiliary Building	SDB: Temporary Earth Lateral Support	42	1	10NOV/2011	30DEC2011	
				1011012011	CODECECTI	
Building and Stru	uctures Admin Bldg: Formation and Vertical Blinding	20	1		03AUG2011	CCC800115
Building and Stru CCC800115 CCC800120	Admin Bldg: Formation and Vertical Blinding Admin Bldg: Raft Foundation - 800mm thk	20	1 (18JUN2011 A 04AUG2011	03AUG2011 26AUG2011	CCC800120
Building and Stru CCC800115 CCC800120 CCC800130	Admin Bldg: Formation and Vertical Blinding Admin Bldg: Raft Foundation - 800mm thk Admin Bldg: Substructure - Walls & Columns	20 12	1	18JUN2011 A 04AUG2011 27AUG2011	03AUG2011 26AUG2011 09SEP2011	CCC800120
Building and Struct CCC800115 CCC800120 CCC800130 CCC800140	Admin Bldg: Formation and Vertical Blinding Admin Bldg: Raft Foundation - 800mm thk	20	1 1 1	18JUN2011 A 04AUG2011	03AUG2011 26AUG2011	CCC800120
Building and Stru CCC800115 CCC800120 CCC800130 CCC800140 CCC800150 CCC800150 CCC800160	Admin Bldg: Formation and Vertical Blinding Admin Bldg: Raft Foundation - 800mm thk Admin Bldg: Substructure - Walls & Columns Admin Bldg: Underground Drainage Work Admin Bldg: Backfilling Works Admin Bldg: Beams & Slab at G/F	20 12 12 6 12	1 1 1 2 1 2 1 2 1 2 1 2	18JUN2011 A 04AUG2011 27AUG2011 10SEP2011 26SEP2011 04OCT2011	03AUG2011 26AUG2011 09SEP2011 24SEP2011 03OCT2011 18OCT2011	CCC800120 CCC800130 CCC800140 CCC800150 CCC800160
Building and Str. CCC800115 CCC800120 CCC800130 CCC800140 CCC800150 CCC800160 CCC800180	Admin Bldg: Formation and Vertical Blinding Admin Bldg: Raft Foundation - 800mm thk Admin Bldg: Substructure - Walls & Columns Admin Bldg: Underground Drainage Work Admin Bldg: Backfilling Works Admin Bldg: Beams & Slab at G/F Admin Bldg: Water Tank - Base Slab	20 12 12 6 12 6 12 6	1 (1) 1) 1) 1) 1 (1) 1)	18JUN2011 A 04AUG2011 27AUG2011 10SEP2011 26SEP2011 04OCT2011 20AUG2011	03AUG2011 26AUG2011 09SEP2011 24SEP2011 03OCT2011 18OCT2011 26AUG2011	CCC800120 CCC800130 CCC800140 CCC800150 CCC800160 CCC800160
Building and Struct CCC800115 CCC800120 CCC800130 CCC800140 CCC800150 CCC800160 CCC800180 CCC800190	Admin Bldg: Formation and Vertical Blinding Admin Bldg: Raft Foundation - 800mm thk Admin Bldg: Substructure - Walls & Columns Admin Bldg: Underground Drainage Work Admin Bldg: Backfilling Works Admin Bldg: Beams & Slab at G/F	20 12 12 6 12	1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	18JUN2011 A 04AUG2011 27AUG2011 10SEP2011 26SEP2011 04OCT2011	03AUG2011 26AUG2011 09SEP2011 24SEP2011 03OCT2011 18OCT2011	CCC800120 CCC800130 CCC800140 CCC800150 CCC800160
Xiliary Building Suilding and Stru CCC800115 CCC800120 CCC800130 CCC800140 CCC800150 CCC800160 CCC800180 CCC800190 CCC800200 CCC800210	Admin Bldg: Formation and Vertical Blinding Admin Bldg: Raft Foundation - 800mm thk Admin Bldg: Substructure - Walls & Columns Admin Bldg: Underground Drainage Work Admin Bldg: Backfilling Works Admin Bldg: Beams & Slab at G/F Admin Bldg: Water Tank - Base Slab Admin Bldg: Water Tank - Walls	20 12 12 6 12 6 12 6 14		18JUN2011 A 04AUG2011 27AUG2011 10SEP2011 26SEP2011 04OCT2011 20AUG2011 27AUG2011	03AUG2011 26AUG2011 09SEP2011 24SEP2011 03OCT2011 18OCT2011 26AUG2011 12SEP2011	CCC800120 CCC800130 CCC800140 CCC800150 CCC800160 CCC800180 CCC800190
Building and Stru CCC800115 CCC800120 CCC800130 CCC800140 CCC800150 CCC800160 CCC800180 CCC800190 CCC800200 CCC800210 CCC800220	Admin Bldg: Formation and Vertical Blinding Admin Bldg: Raft Foundation - 800mm thk Admin Bldg: Substructure - Walls & Columns Admin Bldg: Underground Drainage Work Admin Bldg: Backfilling Works Admin Bldg: Beams & Slab at G/F Admin Bldg: Water Tank - Base Slab Admin Bldg: Water Tank - Walls Admin Bldg: Water Tank - Roof Slab & Beams Admin Bldg: Water Tank - Walls Admin Bldg: Water Tank - Roof Slab & Beams Admin Bldg: Water Tank - Watertightness Test Admin Bldg: Walls & Columns - G/F to 1/F	20 12 12 6 12 6 12 6 14 10 20 15		18JUN2011 A 04AUG2011 27AUG2011 10SEP2011 26SEP2011 04OCT2011 20AUG2011 27AUG2011 14SEP2011 26SEP2011 19OCT2011	03AUG2011 26AUG2011 09SEP2011 24SEP2011 03OCT2011 18OCT2011 18OCT2011 26AUG2011 12SEP2011 24SEP2011 20OCT2011 04NOV2011	CCC800120 CCC800130 CCC800140 CCC800150 CCC800160 CCC800180 CCC800190 CCC800200
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Data date 28JUL2011		
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Data date 28.UU2011 Run date 30.UU2011 Page number 5A	Three Month Rolling Programme - August to October 2011	Summary bar
Project name WP06 c Primavera Systems, Inc.		Start milestone point
c Primavera Systems, Inc.		 Finish milestone point