ASB Biodiesel (Hong Kong) Limited

Development of a Biodiesel Plant at Tseung Kwan O Industrial Estate

Monthly EM&A Report (Version 1.0)

June 2011

Certified By

(Environmental Team Leader)

REMARKS:

The information supplied and contained within this report is, to the best of our knowledge, correct at the time of printing.

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EXECUTIVE SUMMARY

Introduction

- 1. This is the 25th monthly Environmental Monitoring and Audit (EM&A) Report prepared by Cinotech Consultants Limited for Development of a Biodiesel Plant at Tseung Kwan O Industrial Estate". This report documents the findings of EM&A Works conducted in June 2011.
- 2. The major site activities undertaken in the reporting month included:
 - General site cleaning and tidying.

Environmental Monitoring and Audit Works

3. Environmental monitoring and audit works for the Project were performed regularly as stipulated in the EM&A Manual and the results were checked and reviewed. The implementation of the environmental mitigation measures and environmental complaint handling procedures were also checked.

Environmental Licenses and Permits

4. Licenses/Permits granted to the Project include the Environmental Permit (EP) for the Project, An Environmental Permit No. EP-319/2009 and EP-319/2009/A was issued on 11 March 2009 and 7 April 2009 respectively. The contractor has applied for the Registration of Chemical Waste Producer (WPN-5113-839-C1186-15), Construction Noise Permit (GW-RE0401-11) and Wastewater Discharge License (WT00004508-2009).

Key Information in the Reporting Month

5. Summary of key information in this reporting month is tabulated in Table I.

Table I Summary Table for Key Information in the Reporting Month

Event	Event Details		A ation Taken	Chahas	Remark	
Event	Number Nature		Action Taken	Status		
Complaint received	0		N/A	N/A		
Changes to the assumptions and key construction / operation activities recorded	0		N/A	N/A		
Status of submissions under EP	1	Monthly EM&A Report for May 2011	Submitted to EPD on 17 June 2011	Verified by IEC		
Notifications of any summons & prosecutions	0		N/A	N/A		

Future Key Issues

- 6. Major site activities for the coming two months will include:
 - Administration Building concrete frame construction;
 - Processing Building Cladding Works;
 - Fat Preparation Plant Room and Steam Boiler Room concrete frame construction;
 - Tank Farm Foundation works incl. Pipe Rack Support;
 - GTW Separation Room ELS & Pump Test & Foundation Inspection; and
 - Jetty Bored Piling.
- 7. The future environmental concerns are air quality, waste management and surface runoff from construction works.

1 INTRODUCTION

Background

- 1.1 Development of a Biodiesel Plant at Tseung Kwan O Industrial Estate is a Designated Project (hereafter referred to as "the Project") under the Environmental Impact Assessment Ordinance (Cap. 449). A study of environmental impact assessment (EIA) was undertaken to consider the key issues of air quality, noise, water quality, ecological and identify possible mitigation measures associated with the works. An EIA Report was approved by the Environmental Protection Department (EPD) on 26 February 2009.
- 1.2 The project is to construct and operate a 100,000 tonnes per annum biodiesel plant at Tseung Kwan O Industrial Estate. The plant will use a multi-feedstock which consists of waste cooking oil (WCO), oil and grease recovered from grease trap waste (GTW), Palm Fatty Acid Distillate (PFAD) and animal fats. The proposed biodiesel plant not only offers a convenient recycling outlet for GTW and WCO but also converts the oil and grease recovered from these wastes into useful products. The Project also offers a cleaner alternative to diesel fuel to the Hong Kong market. The main processes include the followings:-
 - Construction of feedstock reception and storage facilities, and offices;
 - Construction of a grease trap waste pre-treatment facility (with a designated treatment capacity of about 200,000 tonnes per annum);
 - Construction of a wastewater treatment plant (with a designed treatment capacity of about 170,000 m³ per annum);
 - Installation of biodiesel production and glycerine purification system;
 - Construction of product storage and ancillary facilities;
 - Pretreatment of grease trap waste;
 - Treatment of wastewater generated from feedstock pre-treatment and glycerine dewatering process, and filtrates from dewatering process of sludge treatment;
 - Transesterification of feedstock with alcohol-catalyst; and
 - Purification of biodiesel.
 - 1.3 The general layout of the Project is shown in **Figure 1.1.**
 - 1.4 Layout plan of tank farm **2A**, **2B** to **2E** is revised and a report is made by Environmental Resources Management (ERM) regarding such change. The report concluded that no deviation is found from the approved EIA report.
 - 1.5 An Environmental Permit (EP) No. EP-319/2009 and EP-319/2009/A was issued on 11 March 2009 and 7 April 2009 respectively for Development of a Biodiesel Plant at Tseung Kwan O Industrial Estate to ASB Biodiesel (Hong Kong) Limited as the Permit Holder.
 - 1.6 Cinotech Consultants Limited was commissioned by ASB Biodiesel (Hong Kong) Limited to undertake the Environmental Monitoring and Audit (EM&A) works for the Project. China Harbour Engineering Company Limited is the Managing Contractor of

the Project. This is the 25th Monthly EM&A report summarizing the EM&A works for the Project in June 2011.

Project Organizations

- 1.7 Different parties with different levels of involvement in the project organization include:
 - Project Proponent ASB Biodiesel (Hong Kong) Limited
 - Contractor China Harbour Engineering Company Limited (CHEC)
 - Environmental Team (ET) Cinotech Consultants Limited
 - Independent Environmental Checker (IEC) Mannings (Asia) Consultants Ltd.
- 1.8 The responsibilities of respective parties are detailed in Section 1.10 of the Final EM&A Manual of the Project.
- 1.9 The key contacts of the Project are shown in Table 1.1.

Table 1.1 Key Project Contacts

Party	Role	Name	Position	Phone No.	Fax No.	
ASB	Project Proponent	Ms. Sylvia Har	Senior Plant Engineer	9479 0949	3741 1661	
		Dr. HF Chan	ET Leader	2151 2088		
Cinotech	Environmental Team	Ms. Ivy Tam	Project Coordinator	2151 2090	3107 1388	
			Mr. Felix Kwan	Audit Team Leader	2151 2077	
Mannings	Independent Environmental	Mr. Mark Cheung	Independent Environmental Checker	3168 2028	2160 2022	
Mannings	Checker	Mr. Gavin Kwok	Assistant to Independent Environmental Checker	3168 2028	3168 2022	
		Mr. Peter Chung	Project Manager	9471 2438		
CHEC	Contractor	Mr. Simon Li	Environmental Supervisor (Ass. Planning Engineer)	6152 7867	2623 9226	

Construction Programme

- 1.10 The site activities undertaken in the reporting month were:
 - General site cleaning and tidying.

Summary of EM&A Requirements

- 1.11 The EM&A requirements are described in the following sections, including:
 - Environmental mitigation measures, as recommended in the project EIA study final report; and
 - Environmental requirements in contract documents.
- 1.12 The advice on the implementation status of environmental protection and pollution control/ mitigation measures is summarized in Section 3 of this report.

2 ENVIRONMENTAL AUDIT

Site Audits

- 2.1 Site audit was carried out by ET on monthly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site. The summaries of site audits are attached in **Appendix A**.
- 2.2 Site audit was conducted on 22nd June 2011 by ET in the reporting month. No non-compliance was observed during the site audits.

Status of Environmental Licensing and Permitting

2.3 All permits/licenses obtained for the Project are summarized in **Table 2.1**.

Status of Waste Management

2.4 No general refuse, no Inert Construction and Demolition (C&D) Waste and no Chemical Waste were generated in the reporting month. The quantities of waste generated in this reporting month are summarized in **Appendix C**.

Implementation Status of Environmental Mitigation Measures

2.5 According to the EIA Study Report, Environmental Permit and the EM&A Manual of the Project, the mitigation measures detailed in the documents are recommended to be implemented during the construction phase. An updated summary of the EMIS is provided in **Appendix B**.

Table 2.1 Summary of Environmental Licensing and Permit Status

D '4/I' N	Valid Period		D / 3	G4 4	
Permit / License No.	From	То	Details	Status	
Environmental Permit (EP	')				
EP-319/2009/A	07/04/2009	N/A	Construction and operation of	Valid	
			(i) a biochemical plant with a storage capacity of more than 500 tonnes and in which substances are processed and produced;		
			(ii) a storage, transfer and transhipment of oil facility with a storage capacity of not less than 1,000 tonnes; and		
			(iii) a dangerous goods godown with a storage capacity exceeding 500 tonnes.		
Registration of Chemical Wa	ste Producer				
WPN-5113-839-C1186-15	12/06/2009	-	Spent Lubrication oil.	Valid	
Construction Noise Permit (C	CNP)				
GW-RE0401-11	02/06/2011	26/11/2011	Use of Powered Mechanical Equipment during 0700-2300 hours on general holidays (including Sundays), 1900-2300 hours on any day not being a general holiday.	Valid	
Wastewater Discharge Licens	se				
WT00004508-2009	07/09/2009	-	-	Valid	

2.6 During site inspections in the reporting month, no non-conformance was identified. The observations and recommendations made during the audit sessions are summarized in Table 2.2.

Table 2.2 Observations and Recommendations of Site Audit

Parameters	Date	Observations and Recommendations	Follow-up
Water Quality	22/06/2011	The Contractor was reminded to apply larvicidal oil to avoid mosquito breeding during raining seasons.	•

Summary of Complaint and Prosecution

- 2.7 No environmental related complaint, prosecution or notification of summons was received in the reporting month.
- 2.8 There was no environmental complaint, prosecution or notification of summons received since the Project commencement. The Complaint Log is attached in **Appendix D**.

3 FUTURE KEY ISSUES

Key Issues for the Coming Month

- 3.1 Key issues to be considered in the coming month include:
 - Noise from operation of the equipment and machinery on-site;
 - Effluent discharge generated from surface runoff;
 - Dust generated from excavation works and stockpile of dusty materials;
 - Maintenance of de-silting facilities and drainage system, such as U-channels;
 - Storage of chemicals/fuel and chemical waste/waste oil on site;
 - Accumulation of stagnant water in the site areas; and
 - Accumulation of C&D waste and general waste on site.

Construction Program for the Next Month

- 3.2 A tentative construction programme is provided in **Appendix E**. The major construction activities in the coming month will include:
 - Administration Building concrete frame construction;
 - Processing Building Cladding Works;
 - Fat Preparation Plant Room and Steam Boiler Room concrete frame construction;
 - Tank Farm Foundation works incl. Pipe Rack Support;
 - GTW Separation Room ELS & Pump Test & Foundation Inspection; and
 - Jetty Bored Piling.

4 CONCLUSIONS AND RECOMMENDATIONS

Conclusions

- 4.1 Environmental audit works were conducted in the reporting month. Site inspections were conducted on a monthly basis. The results of were reviewed and checked.
- 4.2 There was no environmental complaint, prosecution or notification of summons received.

Recommendations

4.3 According to the environmental audit performed in the reporting month, the following recommendations were made:

Water Impact

- To identify any wastewater discharges from site.
- To ensure properly maintenance for de-silting facilities.
- To clear the silt and sediment in the sedimentation tanks.
- To review the capacity of de-silting facilities for discharge.
- To divert all the water generated from construction site to de-silting facilities with enough handling capacity before discharge.
- To avoid accumulation of stagnant and ponding water on site.
- To clear the drainage channel regularly to prevent blockage.

Dust Impact

- To remove fugitive dusty material on the haul road periodically.
- Excavated dusty materials or stockpile of dusty materials should be covered by impervious sheeting, or sprayed with water so as to maintain entire surface wet.

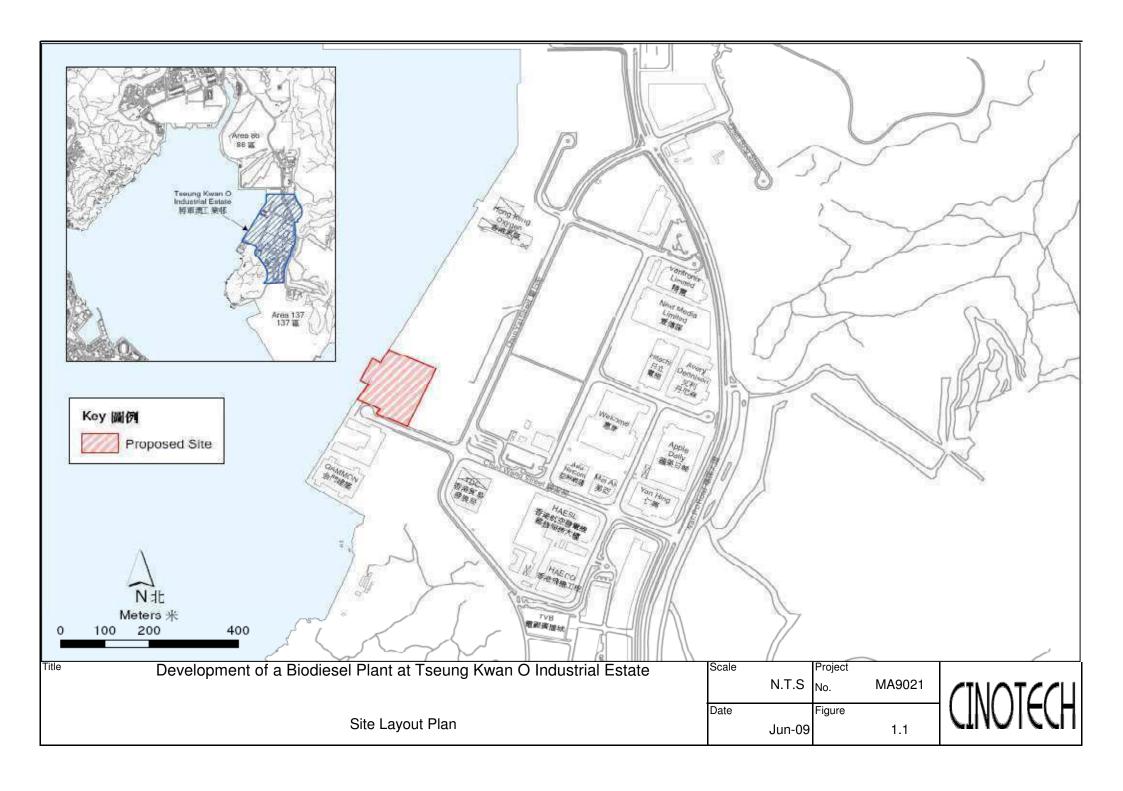
Noise Impact

- To space out noisy equipment and position as far away as possible from sensitive receivers.
- To inspect the noise sources inside the site.

Waste / Chemical Management

- To provide proper rubbish bins / skips for waste collection.
- To provide proper storage area for oil container on site.
- To avoid and check for any accumulation of waste materials or rubbish on site.
- To avoid any discharge or accidental spillage of chemical waste or oil directly from the equipment.

FIGURES



APPENDIX A SITE AUDIT SUMMARY

Development of a Biodiesel Plant at Tseung Kwan O Industrial Estate

Monthly Site Inspection Record Summary

Inspection Information

Checklist Reference Number	110622
Date	22 June 2011 (Wednesday)
Time	16:05 – 16:30

Ref. No.	Non-Compliance	Related Item
		No.
-	None	-

Ref. No.	Remarks/Observations	Related Item No.
	A. Water Quality	
	No environmental deficiency was identified during site inspection.	
	B. Air Quality	
	No environmental deficiency was identified during site inspection.	
	C. Noise	
	No environmental deficiency was identified during site inspection.	
	D. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	E. Permit / Licenses	
	No environmental deficiency was identified during site inspection.	
	F. Reminders	
11 0622-R0 1	The Contractor was reminded to apply larvicidal oil to avoid mosquito breeding during raining seasons.	B13
	G. Others	
	• Follow-up on previous audit section (Ref. No.:110518), all environmental	
	deficiencies were improved/rectified by the Contractor.	

	Name	Signature	Date
Recorded by	Felix Kwan	- Felix	22 June 2011
Checked by	Dr. HF Chan	M	22 June 2011

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APPENDIX B UPDATED ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE

Appendix B - Summary of Environmental Mitigation Implementation Schedule (Construction Phase)

Types of Impacts	Mitigation Measures	Status
	• Dust control measures such as water spaying on roads and dusty areas, covering of lorries by impervious sheets and controlling of the falling height of fill materials will be implemented;	٨
	• Effective dust screens, sheeting or netting will be provided to enclose the scaffolding from the ground level of the facility during the building construction;	N/A
	 All debris and materials will be covered or stored in a sheltered debris collection area; 	^
Construction Dust	 Hoarding from ground level will be provided along the entire length of the site boundary except for a site entrance or exit; Every stockpile of dusty materials will be covered entirely by impermeable sheeting or placed in an area sheltered on the top 	^
	 and the 3 sides; Regular maintenance and checking of the diesel powered mechanical equipment will be adopted to avoid any black smoke 	^
	emissions and to minimize gaseous emissions.	^
	 Monthly site audits will be conducted to ensure the implementation of suitable dust control measures and good site practices. 	^
	Only well-maintained plant will be operated on-site and plant will be serviced regularly during the construction program;	^
	 Silencers or mufflers on construction equipment will be utilized and will be properly maintained during the construction program; 	^
	 Mobile plant, if any, will be sited as far from NSRs as possible; 	^
Construction	 Machines and plant (such as trucks) that may be in intermittent use will be shut down between work periods or will be throttled down to a minimum; 	^
Noise	• Plant known to emit noise strongly in one direction will, wherever possible, be orientated so that the noise is directed away from the nearby NSRs; and	^
	 Material stockpiles and other structures will be effectively utilised, wherever practicable, in screening noise from onsite construction activities. 	^

Types of Impacts	Mitigation Measures	Status
	 Silt curtain will be installed around the marine piling area to contain any suspended mud and sediments generated during the piling works. Silt removal facilities such as silt traps or sedimentation facilities will be provided to remove silt particles from groundwater (if pumping is required) to meet the requirements of the TM standard under the WPCO. The design of silt removal facilities will be based on the guidelines provided in ProPECC PN 1/94. All drainage facilities and erosion and sediment control structures will be inspected monthly and maintained to ensure proper and efficient operation at all times and particularly during rainstorms. Construction Site Run-off and Drainage 	N/A
Water Quality	• Silt removal facilities such as silt traps or sedimentation facilities will be provided to remove silt particles from runoff to meet the requirements of the TM standard under the WPCO. The design of silt removal facilities will be based on the guidelines provided in ProPECC PN 1/94. All drainage facilities and erosion and sediment control structures will be inspected monthly and maintained to ensure proper and efficient operation at all times and particularly during rainstorms.	۸
water quanty	 Careful programming of the works to minimise surface excavations for the construction works during the wet season. If excavation of soil cannot be avoided during the wet season, exposed slope surfaces will be covered by a tarpaulin or other means. Other measures that need to be implemented before, during, and after rainstorms are summarised in ProPECC PN 1/94. Exposed soil surfaces will be protected by paying or fill material as soon as possible to reduce the potential of soil erosion. 	٨
	 Exposed soil surfaces will be protected by paving or fill material as soon as possible to reduce the potential of soil erosion. Open stockpiles of construction materials or construction wastes on-site of more than 50m3 will be covered with tarpaulin similar fabric during rainstorms. These materials will not be placed near the seawall area. 	۸
	General Construction Activities	
	 Debris and refuse generated on-site will be collected, handled and disposed of properly to avoid entering the nearby water sensitive receivers (WSRs). Stockpiles of cement and other construction materials will be kept covered when not being used. Oils and fuels will only be used and stored in designated areas which have pollution prevention facilities. All fuel tanks and storage areas will be provided with locks and be sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank. The bund will be drained of rainwater after a rain event. 	^

Types of Impacts	Mitigation Measures	Status
	Sewage generated from On-site Workforce	
	 Temporary sanitary facilities, such as portable chemical toilets, will be provided on-site. A specialised contractor will be responsible for regular collection and appropriate disposal of the sewage and maintenance of these facilities. Monthly site inspections will be carried out during construction to ensure that the mitigation measures listed above are properly implemented. The site audit frequency will be increased to weekly intervals during the piling works. 	N/A
Ecology	 Mitigation measures for minimising water quality impacts are presented in detail above. These measures will be properly implemented and good construction practices will be adopted to minimise potential adverse impacts to marine ecological resources. 	٨

Remarks: ^

- ^ Compliance of mitigation measure; X Non-compliance of mitigation measure;
 N/A Not Applicable at this stage; Non-compliance but rectified by the contractor;
 Recommendation was made during site audit but improved/rectified by the contractor;
 Non-compliance but rectified/improved by the contractor and awaiting IEC's further comment.

APPENDIX C WASTE GENERATION IN THE REPORTING MONTH

Appendix C - Monthly Summary Waste Flow Table

Biodiesel Plant Tseung Kwan O Project Reporting Month: <u>June 2011</u>

	Actual Quantities of Inert C&D Materials Generated / Imported (in '000 m³)					Actual Quantities of Other C&D Materials / Wastes Generated					
Month	Total Quantities Generated [a+b+c+d]	Broken Concrete (including rock for recycling into aggregates) (a)	Reused in the Contract	Reused in Other Projects (c)	Disposed as Public Fill (d)	Imported C&D Material	Metal (in '000 kg)	Paper/ cardboard packaging (in '000kg)	Plastics (bottles/containers, plastic sheets/ foams from package material) (in '000kg)	Chemical Waste (in '000kg)	Others (e.g. General Refuse etc.) (in '000m3)
January	0	0	0	0	0	0	0	0	0	0	0.01
February	0	0	0	0	0	0	0	0	0	0	0.00
March	0	0	0	0	0	0	0	0	0	0	0.00
April	0	0	0	0	0	0	0	0	0	0	0.00
May	0	0	0	0	0	0	0	0	0	0	0.00
June	0	0	0	0	0	0	0	0	0	0	0.00
Half-year Total											
July											
August											
September											
October											
November											
December											
Yearly Total											

APPENDIX D COMPLAINT LOG

APPENDIX D - COMPLAINT LOG

Reporting Month: June 2011

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
N/A	N/A	N/A	N/A	N/A	N/A

Remarks: No environmental complaint was received in the reporting month.

APPENDIX E CONSTRUCTION PROGRAMME

File Name: C250-ES-R02_(Jan 11 update)_Feb 11 Partial Commencement Baseline: C-250-EP-R01_(June 2010)_BC (Date:14 June 2010)

Proposed Bio-Diesel Plant at T.K.O.T. Lot No. 39 S.Q. ss.1, ss.2 and Ext. thereto Chun Wang Street, TKO Ind. Estate, Kln Master Programme (Full Recommencement on June 2011)

ID	Section T	ask Name	Duration	Current Start		2010 2011 2012 1 2 3 4 5 6 7 8 9 10 11 11 12 3 4 5 6 7 8 9 10 11 12 3 4 5 6 7 8 9 10 11 12 3 4 5 6 7 8 9 10 11 12 3 4 5 6 7 8 9 10 11 12 3 4 5 6 7 8 9 10 11 12 3 4 5 6 7 8 9 10
94	5 C	onstruction Works	771 days	Sat 10/4/3	Sat 12/5/12	4/3 \$\sqrt{5}12\$
95	5.1	1A - Administration Building	259 days	Wed 11/6/1	Tue 12/2/14	6/1 2/14
96	5.1.1	Superstructure Construction Works	114 days	Wed 11/6/1	Thu 11/9/22	0%
105	5.2	1B - Process Building	683 days	Sat 10/4/3	Tue 12/2/14	4/3 2/14
110	5.2.5	Cladding Works	62 days	Wed 11/6/1	Mon 11/8/1	0%
114	5.3	1B - Fat Preparation Building	239 days	Wed 11/6/1	Wed 12/1/25	6/1 🖵 1/25
115	5.3.1	RC Superstructure Construction Works	78 days	Wed 11/6/1	Wed 11/8/17	0%
124	5.4	1B - Boiler Room	259 days	Wed 11/6/1	Tue 12/2/14	6/1 2/14
125	5.4.1	RC Superstructure Construction Works	75 days	Wed 11/6/1	Sun 11/8/14	0%
135	5.5	2A - Tank Farm	243 days	Wed 11/6/1	Sun 12/1/29	6/1 1/29
136	5.5.1	Re- commence Foundation Construction incl. Pipe Rack RC Support Wall	114 days	Wed 11/6/1	Thu 11/9/22	0%
138	5.5.3	Tank Erection Works & Pipe Rack Steel Works	114 days	Wed 11/7/6	Thu 11/10/27	0%
144	5.6	2A - GTW Separation Room	272 days	Wed 11/6/1	Mon 12/2/27	6/1 2/27
145	5.6.1	ELS & Pump Test & Formation Inspection	84 days	Wed 11/6/1	Tue 11/8/23	6/1 8/23
157	5.7	2B-E Tank Farm	247 days	Wed 11/6/1	Thu 12/2/2	6/1 2/2
158	5.7.1	Containment/Bund Wall Construction	78 days	Wed 11/6/1	Wed 11/8/17	0%
166	5.8	3 - Waste Water Treatment Plant	321 days	Wed 11/6/1	Mon 12/4/16	6/1 4/16
167	5.8.1	Foundation Construction	39 days	Wed 11/6/1	Sat 11/7/9	□ 0 %
168	5.8.2	Superstructure Construction	91 days	Sun 11/7/10	Sat 11/10/8	
177	5.9	4A - Jetty	590 days	Fri 10/10/1	Sat 12/5/12	10/1 5/12
179	5.9.2	Piling Stage 1 (SW Pump House Side)	152 days	Wed 11/6/1	Sun 11/10/30	0%