CLIENT MONTHLY ENVIRONMENTAL REPORT

SICTL Container International Container Terminal Limited

Contract Number: 350

Report Number: 03

Period: September 2014

Prepared By: Simon Fisher

TABLE OF CONTENTS

Contents

1. Progress

1.1 Background

1.2 General Progress and Construction Activities

Burton Contractors continued with the electrical conduit installation works with major subcontractor Downer. The majority of the conduits and electrical pits being installed between Beams H and I and J and K during this month. Fire and and water mains works also began this month.

KNF continued with the FRP works, which included construction of the seaside end beams bringing the construction of Beams H/I/J/K/L to near completion. Construction of the Reefer Substation continued with scaffolding completely erected and the first two floors poured. Construction of the Plinth blinding layers also began.

The stormwater Pit Lids construction commenced and deliveries began this month. Benching of the pits was also completed to begin closing out the stormwater drainage works and allow the Ground improvement works to follow through.

Structural steel components for the Reefer gantries 1A and 2 were fabricated along with the walkways and holding down bolts. Fabrication of miscellaneous items also commenced including buffer stops, cable drums, tie downs and storm pins.

Beam G rectification works also continued with additional reo added along the top of the beam after the hydro demolition works were completed.

Taylor Rail commenced this month with rail delivered and welding of the rail connections beginning on Beam J/K and L.

Ground improvement works continued on ASC 4/5/6 to prepare for construction of pavement SP1 between the plinths and RP4 truck marshalling area to follow.

1.3 Environmental Action Summary

Table 1: Summary of environmental actions during September 2014

Detail	This Month	Total To Date
Toolbox (Includes Environment)	4	15
Awareness/Alerts/Training	0	1
Inspections	1	4
Audits	0	1
Non-Conformances	0	4
Out of Hours Request	0	1
Unexpected Find of Contamination	0	0
Hazard Reports / Minor Incidents (Class 3)	0	0
Reported Incidents (Classes 2 & 1)	0	0
Breaches/Fines	0	0
Innovation / Positive Actions	0	0

1.3 Environmental Inspections and Audit Findings

A total of 1 environmental inspection and audit was undertaken during the reporting period. These included a combination of daily site inspections, weekly internal and external inspections, monthly checklists, post rainfall inspections and any additional monitoring that was undertaken during the reporting period. These inspections identified a total of 1 minor issues all of which have since been closed out within the required timeframes. The majority of issues identified during these inspections can be attributed to general site activities and inclement weather and have since been rectified through the implementation of additional checking mechanisms to ensure that all issues are being comprehensively addressed.

2.0 Environmental Surveillance

2.1 Environmental Inspections and Audit Findings

A total of 1 environmental inspections and audits were undertaken during the reporting period. These included a combination of daily site inspections, weekly internal and external inspections, monthly checklists, post rainfall inspections and any additional monitoring that was undertaken during the reporting period. These inspections identified a total of 1 minor issues all of which have since been closed out within the required timeframes. The majority of issues identified during these inspections can be attributed to general site activities and inclement weather and have since been rectified through the implementation of additional checking mechanisms to ensure that all issues are being comprehensively addressed.

2.2 Environmental Noise Monitoring

Monthly construction noise monitoring was undertaken during September 2014. Noise monitoring was conducted at all of the locations outlined in the Environmental Impact Statement and the CEMP. The identification of these sites has been based on noise-sensitive receptors in the project Environmental Impact Statement and approved for the Port Botany Expansion construction activities.

Attended noise measurements were carried out for a period of 30 minutes at each location. During the monitoring event, observations were made on the weather as well as the surrounding noise sources and environment. Noise monitoring results and location maps are presented in Appendix B.

All noise monitoring conducted during the period indicated that the construction works were inaudible at noise-sensitive receivers. No noise related complaints were received by the Project for this reporting period.

2.3 Environmental Dust Monitoring and Air Quality

The environmental dust monitoring data presented in this report has been made available by Fulton Hogan, the contractor for the Sydney International Container Terminal Limited (SICTL) currently undertaking construction activities associated with the Terminal 3 expansion at Port Botany.

Due to the concurrent nature of the construction activities undertaken by Burtons and Fulton Hogan as part of the overall PBRP both parties agreed to share monthly environmental monitoring data.

Four dust deposition gauges are installed in the areas surrounding the Port Botany redevelopment. All results received for the deposition gauges were within EPA guidelines and Project criteria for the month of September. No residential properties or road networks have been impacted by dust emanating from the Port expansion construction works and there have been no dust complaints received by the project during this monitoring period.

The real-time dust monitor located at the Botany Golf Club for reporting of PM_{10} particulate matter has been temporarily utilised by Burton's, from Fulton Hogan, for the month of September 2014.

No exceedences of project PM_{10} particulate matter criteria were recorded during September 2014. Dust and PM_{10} monitoring results and location maps can be seen in Appendix C.

2.4 Water Quality Monitoring

During the reporting period water was discharged from site and tested prior to being discharged. A total of 56mm of rain was received throughout the month of September. The rainfall was managed within the site boundaries with the aid of a sediment basin and the sediment basin in the Boral compound. Immediately following site establishment and the rain events, erosion and sediment controls including but not limited to a sediment basin and wheel wash were installed within the site.

2.5 Shorebird Monitoring and Predator Inspections

Shorebird monitoring inspections were undertaken twice a day on site by the Site Foreman and Environmental Representative. These inspectons indicated that no shorebirds or birds at all were observed to congregate on the site.

Daily predator inspections were also undertaken by the Site Foreman and Environmental Representative, although no sightings of predators was seen, there was suspicions/indications of a fox present in the Boral compound. Any sightings or evidence will be photographed and reported if found in future.

3.0 Community

3.1 Community Issues

N/A

Regards,

Burton Contractors Pty Limited

Simon Fisher

Simon Fisher

Environmental Coordinator

Appendix A

Site Photographs


10/09/2014


10/09/2014

Appendix B

Noise Monitoring Records

Attachment 2. Noise monitoring results.

Monthly Noise Monitoring Results - Standard Hours 18 September 2014									
Context				EIS Data		Actual Measurements			
Noise sensitive area	Monitoring Location	Sample time	Weather conditions	RBL	Noise Goal	Min	Max	LA10	Comments
Chelmsford Ave	14 The Esplanade	1000-1015	light wind	49	54	38.7	51.9	64	Aircraft local/residential construction
Dent St	34 Dent St	1050-1105	light wind	47	52	44.1	47.9	51	Aircraft, local traffic noise, wind
Jennings St	42 Jennings St	1125-1140	light wind	40	45	47.8	77	69.3	Residential construction, wind
Golf Course	3 Anniversary Rd	1025-1040	light wind	57	62	52.2	64	63.3	local vehicles, Aircraft noise, wind
Australia Ave	74 Australia Ave	1150-1205	light wind	42	47	38.1	51	42.3	light wind, local traffic, heavy wind
Military Ave	73 Wassell St	1210-1225	t light wind	46	51	43	58.9	50	light wind traffic, heavy wind

1. Standard hours for weekdays are defined as 7.00am – 5.30pm
2. Measurements are not in response to a complaint
3. Works associated with FH are located within the western section of the port. It is noted that there are other contractors working within port botany on other sections of the redevelopment.

Noise Monitoring Locations

Location 1	Location 2	Location 3	Location 4	Location 5	Location 6
14 The Esplanade	34 Dent St	42 Jennings St	3 Anniversary Rd	74 Australia Ave	73 Wassell St

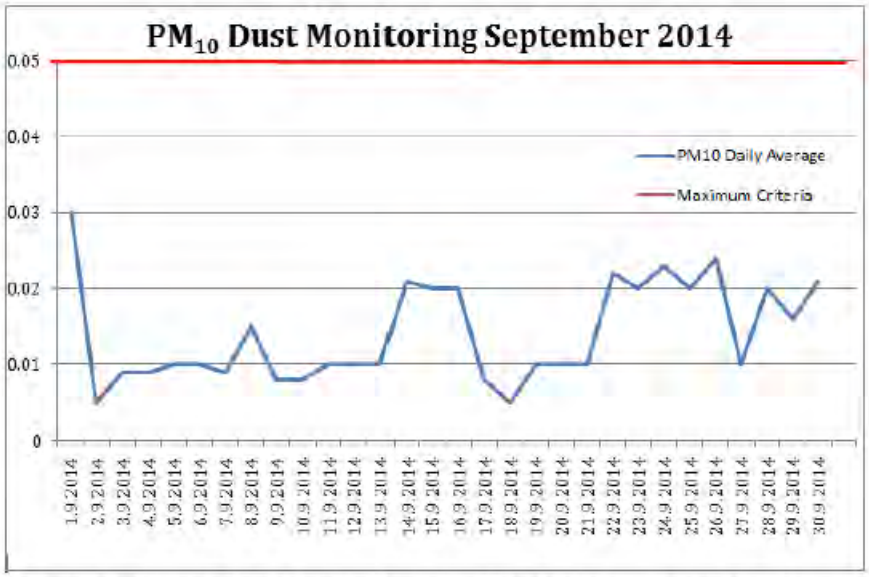
Appendix C

Dust and Air Quality Readings

Analytical Results

Sub-Matrix: DUST (Matrix: AIR)			Client sample ID	Purcell Park 14/08/2014 - 11/09/2014	Estuary 14/08/2014 - 11/09/2014	Golf Course 14/08/2014 - 11/09/2014	Joseph Banks Park 14/08/2014 - 11/09/2014	---
			Client sampling date / time	11-SEP-2014 00:15	11-SEP-2014 00:00	11-SEP-2014 00:30	11-SEP-2014 00:45	---
Compound	CAS Number	LOR	Unit	EW1402795-001	EW1402795-002	EW1402795-003	EW1402795-004	---
EA120: Ash Content								
Ash Content	---	0.1	g/m².month	0.9	2.5	0.2	0.4	---
Ash Content (mg)	---	1	mg	15	41	4	6	---
EA125: Combustible Matter								
Combustible Matter	---	0.1	g/m².month	0.5	<0.1	0.4	0.4	---
Combustible Matter (mg)	---	1	mg	10	<1	6	8	---
EA130: Calculated Rainfall								
Calculated Rainfall	---	1	mm	133	156	155	155	---
EA130: Volume								
Volume	---	1	mL	2360	2740	2730	2730	---
EA130: Total Soluble Matter								
Total Soluble Matter	---	0.1	g/m².month	1.2	1.5	2.5	3.6	---
Total Soluble Matter (mg)	---	1	mg	20	24	40	60	---
EA141: Total Insoluble Matter								
Total Insoluble Matter	---	0.1	g/m².month	1.5	2.5	0.6	0.8	---
Total Insoluble Matter (mg)	---	1	mg	25	41	10	14	---
EA142: Total Solids								
Total Solids	---	0.1	g/m².month	2.7	4.0	3.1	4.4	---
Total Solids (mg)	---	1	mg	45	65	50	74	---

All units in g/m2/month. Dust limits are assessed as insoluble solids as per The Australian Standards (AS 3580.10.1-1991).
Summary taken from ALS report EW1402795. Reporting period: 14.8.2014 – 11.09.2014.



PM_{10} daily dust averages for the month of September 2014. Readings were under the upper limit criteria of 0.05 g/m²/month.

Dust Monitoring Locations

Noise Monitoring Record Sheet

CHAINAGE OF CONSTRUCTION ACTIVITY (Up/Down):		**MONITORING LOCATION:** (8) Botany Road	
DATE OF TEST: 27/05/2014		**TEST CONDUCTED BY:** Burton Contractors	
ACTIVITY/ SERVICE: Deliveries, Excavations		**OPERATOR:** Luke Bannon	
DISTANCE FROM NOISE SOURCE: Approx. 1km **WIND SPEED/DIRECTION:** SSW 35KMPH (Daily Max)		**INTERVENING GROUND (e.g. hard/soft, flat / fenced):** Roads, Trees, Watercourse, Sound Wall.	
METEROLOGICAL CONDITIONS (i.e. cloud cover): Mostly fine.			
LABORATORY CALIBRATION: Acoustic Research Laboratories calibration expires: Meter 1 /11/14, Calibrator 1/11/13			
FIELD CALIBRATION: Completed			
TEST PROCEDURE: AS 2659, INP & ICNG			
EXISTING BACKGROUND (RBL) Reference Relevant Noise Catchment Area (NCA)		RBL: 56	NCA:
L_{10} or L_{eq} Noise Goal: (RBL +10 start +5 OOH)	L_{A1} Noise Goal: (Refer to CNIS)	PREDICTED NOISE LEVELS Reference (EA or other):	
	67	L_{eq} 65	$L_{A1\ 60\ second}$
RESULTS			
Start time: (24hr clock)	1810	End time: (24hr clock)	1825
Time weighting:	(Fast) Slow	Frequency weightings:	(A) C / Flat
L_{eq} 72		$L_{A1\ 60\ second\ (NIGHTWORKS\ ONLY)}$	
Exceedance of Noise Goal: 5		L_{eq}	L_{A1}
Difference to Predicted (CNIS): 7		L_{eq}	L_{A1}
Site Activities / Type of Plant in Operation		**Monitoring Comments**	
Excavators, Truck and dogs, Manual handling.		Site was indistinguishable from background noise emanating from traffic and aircraft.	

Site Diagram (show monitoring location, buildings, construction zone other noise sources, distances, north up/down track)

Noise Monitoring Record Sheet

CHAINAGE OF CONSTRUCTION ACTIVITY (Up/Down):		**MONITORING LOCATION:** (8) Botany Road	
DATE OF TEST: 27/09/2014		**TEST CONDUCTED BY:** Burton Contractors	
ACTIVITY/ SERVICE: Deliveries, Excavations		**OPERATOR:** Luke Bannon	
DISTANCE FROM NOISE SOURCE: Approx. 1km **WIND SPEED/DIRECTION:** SSW 35KMPH (Daily Max)		**INTERVENING GROUND (e.g. hard/soft, flat / fenced):** Roads, Trees, Watercourse, Sound Wall.	
METEROLOGICAL CONDITIONS (i.e. cloud cover): Mostly fine			
LABORATORY CALIBRATION: Acoustic Research Laboratories calibration expires: Meter 1 /11/14, Calibrator 1/11/13			
FIELD CALIBRATION: Completed			
TEST PROCEDURE: AS 2659, INP & ICNG			
EXISTING BACKGROUND (RBL) Reference Relevant Noise Catchment Area (NCA)		**RBL:** 56	**NCA:**
L_{10} or L_{eq} Noise Goal: (RBL +10 start +5 OOH)	L_{A1} Noise Goal: (Refer to CNIS)	**PREDICTED NOISE LEVELS** Reference (EA or other):	
	72	L_{eq} 70	$L_{A1\ 60\ second}$
RESULTS			
Start time: (24hr clock)	0710	End time: (24hr clock)	0725
Time weighting:	(Fast) / Slow	Frequency weightings:	(A) / C / Flat
L_{eq} 78		$L_{A1\ 60\ second}$ (NIGHTWORKS ONLY)	
Exceedance of Noise Goal: 6		L_{eq}	L_{A1}
Difference to Predicted (CNIS): 8		L_{eq}	L_{A1}
Site Activities / Type of Plant in Operation		**Monitoring Comments**	
Excavators, Truck and dogs, Manual handling.		Site was indistinguishable from background noise emanating from traffic and aircraft.	

Site Diagram (show monitoring location, buildings, construction zone other noise sources, distances, north up/down track)

Noise Monitoring Record Sheet

CHAINAGE OF CONSTRUCTION ACTIVITY (Up/Down):		MONITORING LOCATION: (1) Chelmsford Avenue	
DATE OF TEST: 27/05/2014		TEST CONDUCTED BY: Burton Contractors	
ACTIVITY/ SERVICE: Deliveries, Excavations		OPERATOR: Luke Bannon	
DISTANCE FROM NOISE SOURCE: Approx. 1km WIND SPEED/DIRECTION: SSW 35KMPH (Daily Max)		INTERVENING GROUND (e.g. hard/soft, flat / fenced): Roads, Trees, Watercourse, Sound Wall.	
METEROLOGICAL CONDITIONS (i.e. cloud cover): Mostly fine.			
LABORATORY CALIBRATION: Acoustic Research Laboratories calibration expires: Meter 1 /11/14, Calibrator 1/11/13			
FIELD CALIBRATION: Completed			
TEST PROCEDURE: AS 2659, INP & ICNG			
EXISTING BACKGROUND (RBL) Reference Relevant Noise Catchment Area (NCA)		RBL: 49	NCA:
L_{10} or L_{eq} Noise Goal: (RBL +10 dBA +5 OOH)	L_{A1} Noise Goal: (Refer to CNIS)	PREDICTED NOISE LEVELS Reference (EA or other):	
	59	L_{eq} 57	$L_{A1\ 60\ second}$
RESULTS			
Start time: (24hr clock)	1730	End time: (24hr clock)	1745
Time weighting:	(Fast) Slow	Frequency weightings:	(A) C / Flat
L_{eq} 60		$L_{A1\ 60\ second}$ (NIGHTWORKS ONLY)	
Exceedance of Noise Goal: 1		L_{eq}	L_{A1}
Difference to Predicted (CNIS): 3		L_{eq}	L_{A1}
Site Activities / Type of Plant in Operation		Monitoring Comments	
Excavators, Truck and dogs, Manual handling.		Site was indistinguishable from background noise emanating from traffic and aircraft.	

Site Diagram (show monitoring location, buildings, construction zone other noise sources, distances, north up/down track)

Noise Monitoring Record Sheet

CHAINAGE OF CONSTRUCTION ACTIVITY (Up/Down):		MONITORING LOCATION: (1) Chelmsford Avenue	
DATE OF TEST: 27/09/2014		TEST CONDUCTED BY: Burton Contractors	
ACTIVITY/ SERVICE: Deliveries, Excavations		OPERATOR: Luke Bannon	
DISTANCE FROM NOISE SOURCE: Approx. 1km WIND SPEED/DIRECTION: SSW 35KMPH (Daily Max)		INTERVENING GROUND (e.g. hard/soft, flat / fenced): Roads, Trees, Watercourse, Sound Wall.	
METEROLOGICAL CONDITIONS (i.e. cloud cover): Mostly fine.			
LABORATORY CALIBRATION: Acoustic Research Laboratories calibration expires: Meter 1 /11/14, Calibrator 1/11/13			
FIELD CALIBRATION: Completed			
TEST PROCEDURE: AS 2659, INP & ICNG			
EXISTING BACKGROUND (RBL) Reference Relevant Noise Catchment Area (NCA)		RBL: 49	NCA:
L_{10} or L_{eq} Noise Goal: (RBL +10 start +5 OOH)	L_{A1} Noise Goal: (Refer to CNIS)	PREDICTED NOISE LEVELS Reference (EA or other):	
	59	L_{eq} 57	$L_{A1\ 60\ second}$
RESULTS			
Start time: (24hr clock)	0630	End time: (24hr clock)	0645
Time weighting:	(Fast) / Slow	Frequency weightings:	(A) / C / Flat
L_{eq} 58		$L_{A1\ 60\ second\ (NIGHTWORKS\ ONLY)}$	
Exceedance of Noise Goal: -1		L_{eq}	L_{A1}
Difference to Predicted (CNIS): -1		L_{eq}	L_{A1}
Site Activities / Type of Plant in Operation		Monitoring Comments	
Excavators, Truck and dogs, Manual handling.		Site was indistinguishable from background noise emanating from traffic and aircraft.	

Site Diagram (show monitoring location, buildings, construction zone other noise sources, distances, north up/down track)

Noise Monitoring Record Sheet

CHAINAGE OF CONSTRUCTION ACTIVITY (Up/Down):		MONITORING LOCATION: (2) Dent Street	
DATE OF TEST: 27/05/2014		TEST CONDUCTED BY: Burton Contractors	
ACTIVITY/ SERVICE: Deliveries, Excavations		OPERATOR: Luke Bannon	
DISTANCE FROM NOISE SOURCE: Approx. 1km WIND SPEED/DIRECTION: SSW 35KMPH (Daily Max)		INTERVENING GROUND (e.g. hard/soft, flat / fenced): Roads, Trees, Watercourse, Sound Wall.	
METEROLOGICAL CONDITIONS (i.e. cloud cover): Mostly fine.			
LABORATORY CALIBRATION: Acoustic Research Laboratories calibration expires: Meter 1 /11/14, Calibrator 1/11/13			
FIELD CALIBRATION: Completed			
TEST PROCEDURE: AS 2659, INP & ICNG			
EXISTING BACKGROUND (RBL) Reference Relevant Noise Catchment Area (NCA)		RBL: 49	NCA:
L_{10} or L_{eq} Noise Goal: (RBL +10 stan +5 OOH)	L_{A1} Noise Goal: (Refer to CNIS)	PREDICTED NOISE LEVELS Reference (EA or other):	
	63	L_{eq} 61	$L_{A1\ 60\ second}$
RESULTS			
Start time: (24hr clock)	1750	End time: (24hr clock)	1805
Time weighting:	(Fast) Slow	Frequency weightings:	(A) C / Flat
L_{eq} 64		$L_{A1\ 60\ second}$ (NIGHTWORKS ONLY)	
Exceedance of Noise Goal: 1		L_{eq}	L_{A1}
Difference to Predicted (CNIS): 3		L_{eq}	L_{A1}
Site Activities / Type of Plant in Operation		Monitoring Comments	
Excavators, Truck and dogs, Manual handling.		Site was indistinguishable from background noise emanating from traffic and aircraft.	

Site Diagram (show monitoring location, buildings, construction zone other noise sources, distances, north up/down track)

Noise Monitoring Record Sheet

CHAINAGE OF CONSTRUCTION ACTIVITY (Up/Down):		**MONITORING LOCATION:** (2) Dent Street	
DATE OF TEST: 27/09/2014		**TEST CONDUCTED BY:** Burton Contractors	
ACTIVITY/ SERVICE: Deliveries, Excavations		**OPERATOR:** Luke Bannon	
DISTANCE FROM NOISE SOURCE: Approx. 1km **WIND SPEED/DIRECTION:** SSW 35KMPH (Daily Max)		**INTERVENING GROUND (e.g. hard/soft, flat / fenced):** Roads, Trees, Watercourse, Sound Wall.	
METEROLOGICAL CONDITIONS (i.e. cloud cover): Mostly fine.			
LABORATORY CALIBRATION: Acoustic Research Laboratories calibration expires: Meter 1 /11/14, Calibrator 1/11/13			
FIELD CALIBRATION: Completed			
TEST PROCEDURE: AS 2659, INP & ICNG			
EXISTING BACKGROUND (RBL) Reference Relevant Noise Catchment Area (NCA)		**RBL: 49**	**NCA:**
L_{10} or L_{eq} Noise Goal: (RBL +10 stan +5 OOH)	L_{A1} Noise Goal: (Refer to CNIS)	**PREDICTED NOISE LEVELS** Reference (EA or other):	
	63	L_{eq} 61	$L_{A1\ 60\ second}$
RESULTS			
Start time: (24hr clock)	0650	End time: (24hr clock)	0705
Time weighting:	(Fast) Slow	Frequency weightings:	(A) C / Flat
L_{eq} 62		$L_{A1\ 60\ second\ (NIGHTWORKS\ ONLY)}$	
Exceedance of Noise Goal: -1		L_{eq}	L_{A1}
Difference to Predicted (CNIS): 1		L_{eq}	L_{A1}
Site Activities / Type of Plant in Operation		**Monitoring Comments**	
Excavators, Truck and dogs, Manual handling.		Site was indistinguishable from background noise emanating from traffic and aircraft.	

Site Diagram (show monitoring location, buildings, construction zone other noise sources, distances, north up/down track)

BURTON
Civil Engineering Contractors

WEEKLY WHS&E INSPECTION CHECKLIST

Project: Port Botany T3 P2 **Project No:** 350

Inspector: Luke Bannon **Date:** 3/09/14

Subcontractor(s) working at time of inspection: Downer, KNF, Boral.

Subcontractor activities: Storm water works, deliveries, steel fixing.

Note: Subcontractor Surveillance is to be conducted during site inspections.
Note: Where item is marked with a (P), this signifies the possibility of a Partial mark. This can be given when an item is partially compliant as defined by the inspector if part of the item is compliant.

No.	Details	Compliant	Score	Comment
1	All site personnel inducted, signed today's Toolbox Talk and SWMS (**P**)	Y	2	
2	Site Risk Assessment current and implemented for works on site	Y	2	Site Risk Assessment due to expire 06/09/2014
3	All signage on site (entry signs, compound signs etc.) (**P**)	Y	1	New signage notifying drivers to different UHF channels on site has been displayed.
4	Personnel wearing appropriate PPE for site / task	Y	1	
5	Daily plant inspection complete	Y	1	
6	Plant operator trained, competent and SWMS acknowledged (**P**)	Y	2	
7	Services identified and documented (PTE - DBYD plans, SWMS, marked/ sign posted)	Y	2	
8	Spotter present during excavation	Y	2	KNF utilising spotter during excavation
9	All fall from height hazards have fall protection in place (**P**)	Y	2	
10	Lifting equipment tested and tagged (IAW / AS 3775.1).	Y	2	
11	Safety pin /quick hitch used on excavators	Y	2	
12	Traffic control plan in place and reflected on site (**P**)	Y	2	
13	Vehicle management plan in place and reflected on site (**P**)	Y	2	
14	Erosion and sediment controls installed, intact and reflected on current ESCP (**P**)	Y	2	
15	Hazardous substances stored in cabinet / ventilated and bunded container, SDS, spill kit available (**P**)	Y	2	
16	Watercart used to suppress dust	Y	1	
17	Site entry point is clean and free of loose materials	Y	1	
18	Loads are covered on entry and exit from site	Y	1	
19	Monthly testing and tagging of electrical equipment up to date	Y	1	
20	Worksite tidy and maintained (material storage, rubbish, trip hazards)	Y	1	
21	Container organised and tidy	Y	1	
22	Amenities clean and tidy	Y	1	
23	Waste Register up-to-date and dockets available.	Y	1	
24	Weekly consultation toolbox talk conducted.	Y	2	Performed 03/09/2014
		Total	37	

Additional safety and environmental issues identified during the inspection outside the scope of the checklist above to be detailed below:			
No.	**Details**	**Score**	**Comment**
1			
2			
3			
4			
5			
	Total	0	

	SCORE	**100**	**/ 100%** (min 90% reqd to pass)

Ref	Hazard (description, location, contractor, instruction, recommendation)	Due Date	Record of Close Out (initial / date)
NOTE	Site Risk Assessment due to expire on 06/09/2014. Recommend updating by 05/09/2014.		

Acknowledgement and Approval:

Engineer: _____ Date: _____

Name Sign

Site Supervisor: _____ Date: _____

Name Sign

HSE Rep: _____ Date: _____

Name Sign

Additional safety and environmental issues identified during the inspection outside the scope of the checklist above to be detailed below:			
No.	**Details**	**Score**	**Comment**
1			
2			
3			
4			
5			
	Total	0	

SCORE	**100**	**/ 100%** (min 90% reqd to pass)

Ref	Hazard (description, location, contractor, instruction, recommendation)	Due Date	Record of Close Out (initial / date)
NOTE	Site Risk Assessment due to expire on ~~07~~ 09/2014. Recommend updating by ~~06~~ 09/2014.		

Acknowledgement and Approval:

Engineer: T CONDON (Name) _____ (Sign) Date: 3/9/14.

Site Supervisor: JOHN KOVACEVIC (Name) _____ (Sign) Date: 3.9.2014

HSE Rep: LUKE BANNON (Name) _____ (Sign) Date: 3.9.14

BURTON
Civil Engineering Contractors

WEEKLY WHS&E INSPECTION CHECKLIST

Project: Port Botany T3 P2 **Project No:** 350

Inspector: Luke Bannon **Date:** 10/09/14

Subcontractor(s) working at time of inspection: Downer, KNF, Boral.

Subcontractor activities: Storm water works, deliveries, steel fixing.

Note: Subcontractor Surveillance is to be conducted during site inspections.
Note: Where item is marked with a (P), this signifies the possibility of a Partial mark. This can be given when an item is partially compliant as defined by the inspector if part of the item is compliant.

No.	Details	Compliant	Score	Comment
1	All site personnel inducted, signed today's Toolbox Talk and SWMS (**P**)	Y	2	
2	Site Risk Assessment current and implemented for works on site	Y	2	Site Risk Assessment will expire 10/10/2014
3	All signage on site (entry signs, compound signs etc.) (**P**)	Y	1	
4	Personnel wearing appropriate PPE for site / task	Y	1	
5	Daily plant inspection complete	Y	1	
6	Plant operator trained, competent and SWMS acknowledged (**P**)	Y	2	
7	Services identified and documented (PTE - DBYD plans, SWMS, marked/ sign posted)	Y	2	
8	Spotter present during excavation	Y	2	
9	All fall from height hazards have fall protection in place (**P**)	N	0	Workers on poorly secured ladders and un-anchored ladders being used to access pits.
10	Lifting equipment tested and tagged (IAW / AS 3775.1).	Y	2	
11	Safety pin /quick hitch used on excavators	Y	2	
12	Traffic control plan in place and reflected on site (**P**)	Y	2	
13	Vehicle management plan in place and reflected on site (**P**)	Y	2	
14	Erosion and sediment controls installed, intact and reflected on current ESCP (**P**)	P	1	Silt socks along the port road boundary and the bay boundary need housekeeping.
15	Hazardous substances stored in cabinet / ventilated and bunded container, SDS, spill kit available (**P**)	Y	2	
16	Watercart used to suppress dust	Y	1	
17	Site entry point is clean and free of loose materials	Y	1	
18	Loads are covered on entry and exit from site	Y	1	
19	Monthly testing and tagging of electrical equipment up to date	Y	1	
20	Worksite tidy and maintained (material storage, rubbish, trip hazards)	Y	1	
21	Container organised and tidy	Y	1	
22	Amenities clean and tidy	Y	1	
23	Waste Register up-to-date and dockets available.	Y	1	
24	Weekly consultation toolbox talk conducted.	Y	2	Performed 10/09/2014
		Total	34	

Additional safety and environmental issues identified during the inspection outside the scope of the checklist above to be detailed below:			
No.	**Details**	**Score**	**Comment**
1	Risk of electrocution due to IP53 plug (vending machine) used outside in uncovered area.	-1	**Rectified by Project Manager 10/09/2014.**
2			
3			
4			
5			
	Total	-1	

SCORE	**89**	**/ 100%** (min 90% reqd to pass)

Ref	Hazard (description, location, contractor, instruction, recommendation)	Due Date	Record of Close Out (initial / date)
9	Workers on poorly secured ladders and un-anchored ladders being used to access pits.	10/09/2014	**Rectified by QSE Coordinator and Project Manager 10/09/2014.**
14	Silt socks along the port road boundary and the bay boundary need housekeeping. Recommend workers replace worn out socks, realign poorly placed socks and remove built up sediment.	17/09/2014	
NOTE	The following additional observations were made during EPRM audit: Printer thrown into general waste bin (contains heavy metals), Pedestrian access to Boral batch plant is poor, unable to locate truck wheel wash sign, sediment basin beginning to degrade, chemicals stored outside of secondary spill containment bins (black plastic containers).		
NOTE	Fire extinguishers not correctly stamped outside client office, site office and site container. Fire extinguisher outside change room did not have a servicing tag. Recommend contacting service provider to remedy the issue. Burton Resource Department can assist with servicing.		

Acknowledgement and Approval:

Engineer: _____ Date: _____
Name Sign

Site Supervisor: _____ Date: _____
Name Sign

HSE Rep: _____ Date: _____
Name Sign

Photo 001: IP53 plug (right) used to power vending machine plugged into an outside outlet which is exposed to rain.

Photo 002: Example of silt sock in need of attention and build up of sediment.

Photo 003: Printer in general waste bin.

Photo 004: Example of one of the unsafe ladders in use. This example shows the primary access and egress ladder to this pit is not anchored in anyway.

Photo 005: Example of one of the incorrectly stamped maintenance record. This record shows it was performed in

Additional safety and environmental issues identified during the inspection outside the scope of the checklist above to be detailed below:			
No.	**Details**	**Score**	**Comment**
1	Risk of electrocution due to IP53 plug (vending machine) used outside in uncovered area.	-1	**Rectified by Project Manager 10/09/2014.**
2			
3			
4			
5			
	Total	-1	

SCORE	**89**	**/ 100%** (min 90% reqd to pass)

Ref	Hazard (description, location, contractor, instruction, recommendation)	Due Date	Record of Close Out (initial / date)
9	Workers on poorly secured ladders and un-anchored ladders being used to access pits.	10/09/2014	**Rectified by QSE Coordinator and Project Manager 10/09/2014.**
14	Silt socks along the port road boundary and the bay boundary need housekeeping. Recommend workers replace worn out socks, realign poorly placed socks and remove built up sediment.	17/09/2014	
NOTE	The following additional observations were made during EPRM audit: Printer thrown into general waste bin (contains heavy metals), Pedestrian access to Boral batch plant is poor, unable to locate truck wheel wash sign, sediment basin beginning to degrade, chemicals stored outside of secondary spill containment bins (black plastic containers).		
NOTE	Fire extinguishers not correctly stamped outside client office, site office and site container. Fire extinguisher outside change room did not have a servicing tag. Recommend contacting service provider to remedy the issue. Burton Resource Department can assist with servicing.		

Acknowledgement and Approval:

Engineer: DAVE CONDON — Name — Sign — Date: 10/9/14

Site Supervisor: _____ — Name — Sign — Date: _____

HSE Rep: LUKE BANNON — Name — Sign — Date: 10.9.14

BURTON
Civil Engineering Contractors

WEEKLY WHS&E INSPECTION CHECKLIST

Project: Port Botany **Project No:** 350

Inspector: Luke Bannon **Date:** 17/09/14

Subcontractor(s) working at time of inspection: KNF, Downer, Boral.

Subcontractor activities: work at heights, excavation, steel fixing.

Note: Subcontractor Surveillance is to be conducted during site inspections.
Note: Where item is marked with a (P), this signifies the possibility of a Partial mark. This can be given when an item is partially compliant as defined by the inspector if part of the item is compliant.

No.	Details	Compliant	Score	Comment
1	All site personnel inducted, signed today's Toolbox Talk and SWMS (**P**)	Y	2	
2	Site Risk Assessment current and implemented for works on site	Y	2	
3	All signage on site (entry signs, compound signs etc.) (**P**)	Y	1	
4	Personnel wearing appropriate PPE for site / task	Y	1	
5	Daily plant inspection complete	Y	1	
6	Plant operator trained, competent and SWMS acknowledged (**P**)	Y	2	
7	Services identified and documented (PTE - DBYD plans, SWMS, marked/ sign posted)	Y	2	
8	Spotter present during excavation	Y	2	
9	All fall from height hazards have fall protection in place (**P**)	Y	2	
10	Lifting equipment tested and tagged (IAW / AS 3775.1).	Y	2	
11	Safety pin /quick hitch used on excavators	Y	2	
12	Traffic control plan in place and reflected on site (**P**)	Y	2	
13	Vehicle management plan in place and reflected on site (**P**)	Y	2	
14	Erosion and sediment controls installed, intact and reflected on current ESCP (**P**)	Y	2	
15	Hazardous substances stored in cabinet / ventilated and bunded container, SDS, spill kit available (**P**)	Y	2	
16	Watercart used to suppress dust	Y	1	
17	Site entry point is clean and free of loose materials	Y	1	
18	Loads are covered on entry and exit from site	Y	1	
19	Monthly testing and tagging of electrical equipment up to date	Y	1	
20	Worksite tidy and maintained (material storage, rubbish, trip hazards)	Y	1	
21	Container organised and tidy	N	0	KNF site container had a punctured container holding oil.
22	Amenities clean and tidy	Y	1	
23	Waste Register up-to-date and dockets available.	Y	1	
24	Weekly consultation toolbox talk conducted.	Y	2	Toolbox conducted 17/09/2014 - HSECC discussed.
		Total	36	

Additional safety and environmental issues identified during the inspection outside the scope of the checklist above to be detailed below:			
No.	**Details**	**Score**	**Comment**
1	Substation scaffold missing scaff tag and has structural issues. Recommend a competent person affixes a scaff tag to every access point to all scaffold erected on site. The tag should include an inspection date, full name of the competent person and their contact phone number as a minimum. Additionally the scaffold should comply with *AS/NZS 1576.1:2010 Scaffolding General Requirements* and *AS/NZS 4576:1995 Guidelines for Scaffolding.*	-1	
2	Starter caps not present on starter bars on the roof of the substation. Recommend workers remain vigilant and replace caps as often as reasonably practical.	-1	
3			
4			
5			
	Total	-2	

SCORE	**92**	**/ 100%** (min 90% reqd to pass)

Ref	Hazard (description, location, contractor, instruction, recommendation)	Due Date	Record of Close Out (initial / date)
4	KNF site container had a punctured container holding oil. Recommend KNF are reminded of the site environmental requirements by way of toolbox.	24/09/2014	
NOTE	The response to the issue involving a weather exposed electrical cable that was noted on last week's report was outstanding. Photo below.		

Acknowledgement and Approval:

Engineer: _____ Date: _____
Name Sign

Site Supervisor: _____ Date: _____
Name Sign

HSE Rep: _____ Date: _____
Name Sign

Photo 001: Botany's response to weather exposed cable. Proactive and outstanding.

Photo 002: Uncapped starter bars.

Photo 003: Substation scaffold with no scaff tag and not tied in to the wall.

Additional safety and environmental issues identified during the inspection outside the scope of the checklist above to be detailed below:			
No.	**Details**	**Score**	**Comment**
1	Substation scaffold missing scaff tag and has structural issues. Recommend a competent person affixes a scaff tag to every access point to all scaffold erected on site. The tag should include an inspection date, full name of the competent person and their contact phone number as a minimum. Additionally the scaffold should comply with *AS/NZS 1576.1:2010 Scaffolding General Requirements* and *AS/NZS 4576:1995 Guidelines for Scaffolding.*	-1	
2	Starter caps not present on starter bars on the roof of the substation. Recommend workers remain vigilant and replace caps as often as reasonably practical.	-1	
3			
4			
5			
	Total	-2	

SCORE	**92**	**/ 100%**	(min 90% reqd to pass)

Ref	Hazard (description, location, contractor, instruction, recommendation)	Due Date	Record of Close Out (initial / date)
4	KNF site container had a punctured container holding oil. Recommend KNF are reminded of the site environmental requirements by way of toolbox.	24/09/2014	
NOTE	The response to the issue involving a weather exposed electrical cable that was noted on last week's report was outstanding. Photo below.		

Acknowledgement and Approval:

Engineer: S. Jimenez (Name) (Sign) Date: 17/9/14

Site Supervisor: _____ (Name) (Sign) Date: _____

HSE Rep: LUKE BANNON (Name) (Sign) Date: 17.9.14

BURTON
Civil Engineering Contractors

SITE SAFETY INSPECTION CHECKLIST

Project: Port Botany **Project No:** 350

Inspector: Luke Bannon **Date:** 24/09/2014

Note: Subcontractor Surveillance is to be conducted during monthly site inspections

1 Health and Safety Systems

No.	Details	Compliant	Score	Comment
1.1	HSEQ Policy displayed	Y	2	
1.2	WorkCover "If you get injured at work" poster displayed	Y	2	
1.3	All staff and subcontractors acknowledged today's toolbox record	Y	2	PM ensured at this occurred during weekly toolbox.
1.4	PMP available and roles and responsibilities acknowledged	Y	2	
1.5	Site Risk Assessment is implemented and reflects current site activities	Y	2	
1.6	Induction records completed	Y	2	Excellent standard of induction and pro active management of induction paperwork.
1.8	Correct signage at access points (Burton entry signs and banner)	Y	2	
1.9	Asta electronic site diary up to date	Y	2	Site keeps two manual diaries to record site affairs due to poor connection to Homebush server.
			16	2 pts per compliant criteria

2 Electrical

No.	Details	Compliant	Score	Comment
2.1	No broken plugs, sockets, switches	Y	2	
2.2	No frayed or defective leads	Y	2	
2.3	Power tools in good condition	Y	2	
2.4	Sheds, tools and leads inspected and tagged (IAW/ COP - Electrical)	Y	2	
2.5	Generators in use have an RCD fitted	Y	2	KNF generator (substation area) was the only generator observed today. Had RCD and test dates shown.
			10	2 pts per compliant criteria

3 Mobile Plant and Equipment

No.	Details	Compliant	Score	Comment
3.1	Plant and equipment in good condition (record Burton plant no.)	Y	1	Burtons - E 20 - 8t Excavator.
3.2	Daily plant inspection checklist completed	Y	1	
3.3	Operators trained and competent (record Operators name)	Y	1	
3.4	Warning and instructions signage displayed	Y	1	
3.5	Flashing amber light and reversing alarm operational	Y	1	
3.6	Lifting equipment certified	NA	1	E 20 was not performing lifts. Other chains on site I observed were in the 12 month testing date.
3.7	Safety pin installed for excavator	Y	1	
3.8	Haul roads clearly marked with signage	Y	1	
			8	1 pt per compliant criteria

4 Hazardous Substances

No.	Details	Compliant	Score	Comment
4.1	Stored in hazardous goods container	Y	1	Adequate storage space for hazchem. Containers organised and SDS available in cupboard and site office.
4.2	Containers labelled correctly and in good condition	Y	1	
4.3	Safety Data Sheets available and register maintained	Y	1	
			3	1 pt per compliant criteria

5 Excavations

No.	Details	Compliant	Score	Comment
5.1	Shoring in place and in sound condition (if required)	Y	2	
5.2	Trench secured with bunting / para-webbing	Y	2	

5.3	Signage displayed	Y	2	
5.4	Clear and safe access around / into excavation	Y	2	
5.5	Permit to Excavate acknowledged by operator and is current	Y	2	
5.6	Operator has signed safe work method statement	Y	2	
			12	2 pts per compliant criteria

6 Personnel Protective Equipment

No.	Details	Compliant	Score	Comment
6.1	Workers wearing appropriate PPE for site (hard hat, hi-viz shirt, and boots)	Y	1	All workers observed to be wearing gloves while performing manual handling tasks. This is excellent.
6.2	Sunscreen / ear / eye protection and gloves available	Y	1	Available in site office.
			2	1 pt per compliant criteria

7 Material Storage and Housekeeping

No.	Details	Compliant	Score	Comment
7.1	Materials stored and secured in appropriate manner	Y	2	
7.2	Sufficient space for moving around stored material	Y	2	
7.3	Site container maintained and tidy	Y	2	Both the Burton and KNF site containers in an excellent state of housekeeping.
7.4	Work areas free from rubbish and obstructions	Y	2	Site is devoid of litter and major trip hazards. Excellent housekeeping standard.
			8	2 pts per compliant criteria

8 Public Protection

No.	Details	Compliant	Score	Comment
8.1	Site delineated with ATF	Y	2	
8.2	Signage in place	Y	2	
8.3	Pedestrian footpaths delineated and free from debris	Y	2	
8.4	Site access controlled (office / site contact and number nominated)	Y	2	
8.5	Traffic control procedures in place (if applicable)	Y	2	VMP updated daily by Site Supervisor John K.
			10	2 pts per compliant criteria

9 Amenities

No.	Details	Compliant	Score	Comment
9.1	Washrooms clean	Y	2	
9.2	Meal rooms clean and tidy	Y	2	
9.3	Rubbish bins available	Y	2	Numerous general waste bins available.
			6	2 pts per compliant criteria

10 First Aid

No.	Details	Compliant	Score	Comment
10.1	Location and signage of first aid kits displayed	Y	2	
10.2	Date of first aid kits checked - quarterly (incl site personnel kits)	Y	2	
10.3	Site First Aiders names and phone number displayed	Y	2	
10.4	Injury Register maintained and up-to-date	Y	2	Last incident regarding client engineer recorded.
			8	2 pts per compliant criteria

11 Emergency Control

No.	Details	Compliant	Score	Comment
11.1	Local emergency services contact numbers displayed (hospital or medical centre included)	Y	2	
11.2	Extinguishers in place and tags are in date <6months / signage displayed	Y	2	Extinguisher issue (servicing performed in 2015) rectified.
11.3	Date of last evacuation and emergency toolbox (bi-monthly)	NA	2	PM to organise. QSE Coordinator can assist where required.
11.4	Emergency assembly signage displayed	Y	2	
11.5	Spill Kits accessible (Site, Site Supervisor and L/H utes , subcontractors)	Y	2	
11.6	Access and egress are clear at all times and site plan displayed with travel route and emergency assembly area shown	Y	2	
			12	2 pts per compliant criteria

12 Noise

No.	Details	Compliant	Score	Comment
12.1	Conduct noise monitoring on plant and record average level	NA	1	
	Scraper / Front End Loader / Compactor = 113dB(A), Bulldozer = 112dB(A), Excavator / Grader = 110dB(A), Vibratory Roller = 109dB(A), Dump Trucks = 108dB(A), Watercart / Roller = 107dB(A), Backhoe = 104dB(A). The sound power levels for the above plant is the mid-point and is not to exceed above this refer Australian Standards 2436.			
			1	1 pt per compliant criteria

13 Dust

No.	Details	Compliant	Score	Comment
13.1	Work surfaces for plant activities generating dust is moist	Y	2	
13.2	Watercart activity currently being conducted	Y	2	
			4	2 pts per compliant criteria

14 Fall from Heights

No.	Details	Compliant	Score	Comment
14.1	Appropriate fall from heights protection must be worn at all times whilst	Y	2	
14.2	Scaffolding is installed and has been tagged.	Y	2	See notes.
			4	2 pts per compliant criteria

Additional safety issues identified during the inspection outside the scope of the checklist above to be detailed below:			
No.	**Details**	**Score**	**Comment**
	Total	0	

BURTON
Civil Engineering Contractors

SITE SAFETY INSPECTION CHECKLIST

Project: Port Botany **Project No:** 350

Inspector: Luke Bannon **Date:** 24/09/2014

Note: Subcontractor Surveillance is to be conducted during monthly site inspections

SCORE	100	/ 100%	(min 90% red)

No.	Details	Compliant	Score	Comment	Due Date
NOTE	PM to organise emergency evacuation drill. Draft procedure and drill checklist in place to assist with the running of the drill. If further assistance required, contact QSE Coordinator.				
NOTE	Substation scaffold issue rectified. Structure is secure, access to work area is limited, sign on to work area in place, workers questioning people to ensure they are clear to enter the work area and scaffold tag in place (though not ideal due to it not displaying next 30 day inspection date). A word of caution, ensure the scaffold is tied in to the substation when the third level of bays are installed. EXCELLENT RESULT.				

Do any of the above hazards require operational process or procedural change? ☐ Yes ☐ No

Escalate all corrective actions that require operational process or procedural change through to the Safety Manager for final authorisation to implement.

Acknowledgement and Approval:

Project Manager: _____ Date: _____
Name Sign

Site Engineer: _____ Date: _____
Name Sign

Site Supervisor: _____ Date: _____
Name Sign

Safety Rep: _____ Date: _____
Name Sign

Photo001: The new standard of scaffold used at Port Botany. KNF have subcontracted the work to a professional installation company and the quality has improved 10 fold. Note the kickboards, longitudinal bracing, access stairs, mid and guard rails. Well-done.

Photo002: Safe access and egress from the scaffold now possible. Scaffold tag in place, but not ideal. Perhaps an opportunity for improvement on behalf of the subcontractor ACROW (tag appears to be missing the next 30 day inspection date).

Photo003: Burton site container in an excellent state of housekeeping.

Photo004: KNF site container in an excellent state of housekeeping. Note the use of secondary spill containment (black plastic buckets). This level of care is taken all over site at Port Botany and not seen so predominantly on any other site I inspect. Well done for setting a high standard.

BURTON
Civil Engineering Contractors

SITE SAFETY INSPECTION CHECKLIST

Project: Port Botany **Project No:** 350

Inspector: Luke Bannon **Date:** 24/09/2014

Note: Subcontractor Surveillance is to be conducted during monthly site inspections

SCORE	100	/ 100%	(min 90% red)

No.	Details	Compliant	Score	Comment	Due Date
NOTE	PM to organise emergency evacuation drill. Draft procedure and drill checklist in place to assist with the running of the drill. If further assistance required, contact QSE Coordinator.				
NOTE	Substation scaffold issue rectified. Structure is secure, access to work area is limited, sign on to work area in place, workers questioning people to ensure they are clear to enter the work area and scaffold tag in place (though not ideal due to it not displaying next 30 day inspection date). A word of caution, ensure the scaffold is tied in to the substation when the third level of bays are installed. EXCELLENT RESULT.				

Do any of the above hazards require operational process or procedural change? ☐ Yes ☑ No

Escalate all corrective actions that require operational process or procedural change through to the Safety Manager for final authorisation to implement.

Acknowledgement and Approval:

Project Manager: DAVE GOWDY (Name) (Sign) Date: 24/9/14.

Site Engineer: (Name) (Sign) Date: 24/9/14

Site Supervisor: JOHN KOVACEVIC (Name) (Sign) Date: 24.9.14

Safety Rep: LUKE BANNON (Name) (Sign) Date: 24.9.14