

EPL No.	20544	EPL Monitoring Data	
Project	Sydney Metro Northwest OTS Works		
EPL Weblink:	http://www.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=20544&id=20544&option=licence&searchrange=licence&range=POEO%20licence&prp=no&status=Issued		

DETAILS		
Location: Bella Vista Station	Month: September	Year: 2017

NOISE MONITORING DATA
Specific EPL licence monitoring conditions for noise monitoring: Condition L3.2 - Noise limits Condition Condition L4.2 - Exemptions to standard working hours Condition L4.4 - Works Approved Outside of Standard Construction Hours – Weekends Condition L4.5 - Works Approved Outside of Standard Construction Hours - Weekday evenings and nights Condition L4.6 - Additional works agreed outside of standard construction hours Condition M6.5 - Complaints Condition M7.1 - Other Monitoring Conditions

Monitoring location	Number of times monitored during the month	Attended or continuous monitoring	Event based monitoring (Y/N)	Parameter eg. Laq (15min)	min value dB (A) for month	max value dB (A) for month	goals / targets dB(A)
<input type="text"/>	<input type="text"/>	Select...	Select...	Select...	<input type="text"/>	<input type="text"/>	<input type="text"/>

Comments No noise monitoring required during the month of September

WATER MONITORING DATA
Specific EPL licence monitoring conditions for water monitoring: Condition L2 - Concentration Limits Condition M2 - Requirement to monitor concentration of pollutants discharged

Monitoring location	Number of times monitored during the month	Event based monitoring (Y/N)	Parameter measured	Units of measurement (mg/L, NTU, pH)	Minimum value for month	Maximum value for month	Allowable minimum limit	Allowable maximum limit
<input type="text"/>	<input type="text"/>	Select...	Select...	Select...	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Comments No water monitoring required in September 2017

VIBRATION MONITORING DATA																				
Specific EPL licence monitoring conditions for vibration monitoring: Condition M6.5 - Complaints Condition M7.1 - Other monitoring conditions																				
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:10%;">Monitoring location</th> <th style="width:10%;">Number of times monitored during the month</th> <th style="width:10%;">Event based monitoring (Y/N)</th> <th style="width:10%;">Parameter Measured</th> <th style="width:10%;">Unit of measurement</th> <th style="width:10%;">Min Value</th> <th style="width:10%;">Max Value</th> <th style="width:10%;">Allowable Max</th> <th style="width:10%;">Percentile Limit (eg 90th)</th> <th style="width:10%;">Percentile reporting period</th> </tr> </thead> <tbody> <tr> <td><input type="text"/></td> <td><input type="text"/></td> <td>Select...</td> <td><input type="text"/></td> </tr> </tbody> </table>	Monitoring location	Number of times monitored during the month	Event based monitoring (Y/N)	Parameter Measured	Unit of measurement	Min Value	Max Value	Allowable Max	Percentile Limit (eg 90th)	Percentile reporting period	<input type="text"/>	<input type="text"/>	Select...	<input type="text"/>						
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<input type="text"/>	<input type="text"/>	Select...	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>											

BLV L1	1	Yes	Peak Particle	mm/s	0.5	0.5	5	N/A	N/A
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Comments
 BLV L1: 23 Sharrock Avenue, Bella Vista. During measurements a vibratory roller and two bored piling rigs were operating, The other equipment operating on site during the measurement period included trucks, excavators and cranes. This value is below the Group 2 vibration criteria of 5 mm/s, stated in the DIN 4150-3 standard.

AIR MONITORING DATA

Specific EPL licence monitoring conditions for air monitoring:
 N/A

Monitoring location	Number of times monitored during the month	Event based monitoring (Y/N)	Parameter Measured	Unit of measurement	Min Value	Max Value	Allowable Max	Percentile Limit (eg 90th)	Percentile reporting period
		Select...	Select...	Select...					

Comments
 No air monitoring required in September 2017

CORRECTION LOG

Sample Date and Time	Monitoring location	Type of monitoring (noise, water etc)	Event based monitoring (Y/N)	Parameter Measured (eg TSS, LAEq)	Unit (eg Mg/L)	Original result	Corrected Result	Date Corrected	Reasoning

Comments
 No corrections required in September 2017

EXCEEDANCES

Sample Date and Time	Monitoring location	Type of monitoring (noise, water etc)	Event based monitoring (Y/N)	Parameter Measured (eg TSS, LAEq)	Unit (eg Mg/L)	Result	Allowable Limit	Commentary
			Select...					

Comments
 No exceedances in September 2017

EPL No.	20544	EPL Monitoring Data	
Project	Sydney Metro Northwest OTS Works		
EPL Weblink:	http://www.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=20544&id=20544&option=licence&searchrange=licence&range=POEO%20licence&prp=no&status=Issued		

DETAILS

Location:	Month:	Year:
Bella Vista Station to Kellyville Station	September	2017

NOISE MONITORING DATA

Specific EPL licence monitoring conditions for noise monitoring:
Condition L3.2 - Noise limits Condition
Condition L4.2 - Exemptions to standard working hours
Condition L4.4 - Works Approved Outside of Standard Construction Hours – Weekends
Condition L4.5 - Works Approved Outside of Standard Construction Hours - Weekday evenings and nights
Condition L4.6 - Additional works agreed outside of standard construction hours
Condition M6.5 - Complaints
Condition M7.1 - Other Monitoring Conditions

Monitoring location	Number of times monitored during the month	Attended or continuous monitoring	Event based monitoring (Y/N)	Parameter eg. Laq (15min)	min value dB (A) for month	max value dB (A) for month	goals / targets dB(A)
BLV-KLV L1	1	Attended	Yes	Leq	55.7	55.7	75
BLV-KLV L2	1	Attended	Yes	Leq	55.7	55.7	75
BLV-KLV L3	1	Attended	Yes	Leq	55.9	55.9	75
BLV-KLV L4	1	Attended	Yes	Leq	N/A	N/A	N/A
BLV-KLV L5	1	Attended	Yes	Leq	55.7	55.7	75

Comments

Stage of works: Corridor - Clear and grub, Bulk Earthworks Activities / Installation & Demolish Signs, Drainage, Noise Wall / Fencing, Shared Path, Landscaping - Hard and Soft Install, Deliveries, Maintenance Access Track, Construction Substation / Pedestrian Bridge / Viaduct Access Stair Installation. Viaduct - Deliveries, Site Mobilisation, Preparation & Cleaning, Flash Butt Welding, Derailment Ke rb, Install FRP – Shear Keys, Track Slab Track Installation.

BLV-KLV L1: Standard Hours. 32 Emmanuel Terrace, Glenwood. Traffic on old Windsor road is the dominant noise source. Residents outside home talking. Site noise inaudible.

BLV-KLV L2: Standard Hours. 19 Emmanuel terrace Glenwood. Site noise inaudible. Old Windsor road traffic dominant noise source.

BLV-KLV L3: Standard Hours. 19 Vanessa Court Glenwood. Traffic on old Windsor road is the dominant noise source, site noise is inaudible.

BLV-KLV L4: Standard Hours. 21 Balmoral Road. No monitoring as location is far from station works and site noise is inaudible from this location. Balmoral Road works have been completed.

BLV-KLV L5: Standard Hours. 20 Waterstone Crescent, Bella Vista. Site noise inaudible from monitoring location.

WATER MONITORING DATA

Specific EPL licence monitoring conditions for water monitoring:
 Condition L2 - Concentration Limits
 Condition M2 - Requirement to monitor concentration of pollutants discharged

Monitoring location	Number of times monitored during the month	Event based monitoring (Y/N)	Parameter measured	Units of measurement (mg/L, NTU, pH)	Minimum value for month	Maximum value for month	Allowable minimum limit	Allowable maximum limit
		Select...	Select...	Select...				

Comments
 No water monitoring required in September 2017

VIBRATION MONITORING DATA

Specific EPL licence monitoring conditions for vibration monitoring:
 Condition M6.5 - Complaints
 Condition M7.1 - Other monitoring conditions

Monitoring location	Number of times monitored during the month	Event based monitoring (Y/N)	Parameter Measured	Unit of measurement	Min Value	Max Value	Allowable Max	Percentile Limit (eg 90th)	Percentile reporting period
		Select...	Select...	Select...					

Comments
 No vibration monitoring required in September 2017

AIR MONITORING DATA

Specific EPL licence monitoring conditions for air monitoring:
 N/A

Monitoring location	Number of times monitored during the month	Event based monitoring (Y/N)	Parameter Measured	Unit of measurement	Min Value	Max Value	Allowable Max	Percentile Limit (eg 90th)	Percentile reporting period
		Select...	Select...	Select...					

Comments
 No air monitoring required in September 2017

CORRECTION LOG

Sample Date and Time	Monitoring location	Type of monitoring (noise, water etc)	Event based monitoring (Y/N)	Parameter Measured (eg TSS, LAEq)	Unit (eg Mg/L)	Original result	Corrected Result	Date Corrected	Reasoning

Comments
 No correction required in September 2017

EXCEEDANCES

Sample Date and Time	Monitoring location	Type of monitoring (noise, water etc)	Event based monitoring (Y/N)	Parameter Measured (eg TSS, LAEq)	Unit (eg Mg/L)	Result	Allowable Limit	Commentary

		Select...						
Comments								
No exceedances in September 2017								

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Project	Sydney Metro Northwest OTS Works		
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DETAILS		
Location: Cherrybrook Station	Month: September	Year: 2017

NOISE MONITORING DATA
Specific EPL licence monitoring conditions for noise monitoring: Condition L3.2 - Noise limits Condition Condition L4.2 - Exemptions to standard working hours Condition L4.4 - Works Approved Outside of Standard Construction Hours – Weekends Condition L4.5 - Works Approved Outside of Standard Construction Hours - Weekday evenings and nights Condition L4.6 - Additional works agreed outside of standard construction hours Condition M6.5 - Complaints Condition M7.1 - Other Monitoring Conditions

Monitoring location	Number of times monitored during the month	Attended or continuous monitoring	Event based monitoring (Y/N)	Parameter eg. Laq (15min)	min value dB (A) for month	max value dB (A) for month	goals / targets dB(A)
<input type="text"/>	<input type="text"/>	Select...	Select...	Select...	<input type="text"/>	<input type="text"/>	<input type="text"/>

Comments No noise monitoring required in September 2017

WATER MONITORING DATA
Specific EPL licence monitoring conditions for water monitoring: Condition L2 - Concentration Limits Condition M2 - Requirement to monitor concentration of pollutants discharged

Monitoring location	Number of times monitored during the month	Event based monitoring (Y/N)	Parameter measured	Units of measurement (mg/L, NTU, pH)	Minimum value for month	Maximum value for month	Allowable minimum limit	Allowable maximum limit
<input type="text"/>	<input type="text"/>	Select...	Select...	Select...	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Comments No water monitoring required in September 2017

VIBRATION MONITORING DATA																				
Specific EPL licence monitoring conditions for vibration monitoring: Condition M6.5 - Complaints Condition M7.1 - Other monitoring conditions																				
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<input type="text"/>	<input type="text"/>	Select...	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>											

CHB L1	2	Yes	Peak Particle	mm/s	0.1	0.1	3	N/A	N/A
CHB L2	1	Yes	Peak Particle	mm/s	0.1	0.1	5	N/A	N/A

Comments

CHB L1: (1) 113 Castle Hill Road, Cherrybrook. (Sept '17) The vibration measured at this location was observed to be from rock breaking activities east of the station box. This level is below the Group 3 vibration criteria of 3 mm/s, provided in the DIN 4150-3 standard

(2) 113 Castle Hill Road, Cherrybrook. (Aug '17) The vibration from operation of the vibratory roller was measured. This level is below the Group 3 vibration criteria of 3 mm/s, stated in the DIN 4150-3 standard.

CHB L2: 2 Glenhope Road, Cherrybrook. The most significant source of vibration observed during measurements was operation of vibratory rollers. This level is below the Group 2 vibration criteria of 5 mm/s, provided in the DIN 4150-3 standard.

The Peak Vector Sum (PVS) vibration levels were found to be below the vibration limits applicable for both typical residences and heritage listed constructions

AIR MONITORING DATA

Specific EPL licence monitoring conditions for air monitoring:
N/A

Monitoring location	Number of times monitored during the month	Event based monitoring (Y/N)	Parameter Measured	Unit of measurement	Min Value	Max Value	Allowable Max	Percentile Limit (eg 90th)	Percentile reporting period
		Select...	Select...	Select...					

Comments

No air monitoring required in September 2017

CORRECTION LOG

Sample Date and Time	Monitoring location	Type of monitoring (noise, water etc)	Event based monitoring (Y/N)	Parameter Measured (eg TSS, LAEq)	Unit (eg Mg/L)	Original result	Corrected Result	Date Corrected	Reasoning

Comments

No corrections required in September 2017

EXCEEDANCES

Sample Date and Time	Monitoring location	Type of monitoring (noise, water etc)	Event based monitoring (Y/N)	Parameter Measured (eg TSS, LAEq)	Unit (eg Mg/L)	Result	Allowable Limit	Commentary
			Select...					

Comments

No exceedances in September 2017

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DETAILS		
Location: Cudgegong Road Station to Rapid Transit Rail Facility	Month: September	Year: 2017

NOISE MONITORING DATA

Specific EPL licence monitoring conditions for noise monitoring:
 Condition L3.2 - Noise limits Condition
 Condition L4.2 - Exemptions to standard working hours
 Condition L4.4 - Works Approved Outside of Standard Construction Hours – Weekends
 Condition L4.5 - Works Approved Outside of Standard Construction Hours - Weekday evenings and nights
 Condition L4.6 - Additional works agreed outside of standard construction hours
 Condition M6.5 - Complaints
 Condition M7.1 - Other Monitoring Conditions

Monitoring location	Number of times monitored during the month	Attended or continuous monitoring	Event based monitoring (Y/N)	Parameter eg. Laq (15min)	min value dB (A) for month	max value dB (A) for month	goals / targets dB(A)
CUD-RTF L1	1	Attended	Yes	Leq	50.7	50.7	75
CUD-RTF L2	1	Attended	Yes	Leq	65	65	75
CUD-RTF L3	1	Attended	Yes	Leq	N/A	N/A	N/A

Comments

Stage of works: Corridor - Clear and grub, Bulk Earthworks Activities / Installation & Demolish Signs, Drainage, Noise Wall / Fencing, Shared Path, Landscaping - Hard and Soft Install, Deliveries, Maintenance Access Track, Construction Substation / Pedestrian Bridge / Viaduct Access Stair Installation. Viaduct - Deliveries, Site Mobilisation, Preparation & Cleaning, Flash Butt Welding, Derailment Ke rb, Install FRP – Shear Keys, Track Slab Track Installation.

CUD-RTF L1: Standard Hours. 2 Tanunda Drive, The Ponds. Site noise is noticeable intermittently - non tonal reversing alarm on site vehicles, traffic from Schofields Road is the dominant noise source.

CUD-RTF L2: Standard Hours. 88 Amarco Circuit, The Ponds. Traffic dominant noise source. Site noise is noticeable during traffic res pite.

CUD-RTF L3: Standard Hours. 62 Gordon Road, Schofields. No NRT works occurring in this area anymore

WATER MONITORING DATA

Specific EPL licence monitoring conditions for water monitoring:
 Condition L2 - Concentration Limits
 Condition M2 - Requirement to monitor concentration of pollutants discharged

Monitoring location	Number of times monitored during the month	Event based monitoring (Y/N)	Parameter measured	Units of measurement (mg/L, NTU, pH)	Minimum value for month	Maximum value for month	Allowable minimum limit	Allowable maximum limit
		Select...	Select...	Select...				

Comments

No water monitoring required in September 2017

VIBRATION MONITORING DATA									
Specific EPL licence monitoring conditions for vibration monitoring: Condition M6.5 - Complaints Condition M7.1 - Other monitoring conditions									
Monitoring location	Number of times monitored during the month	Event based monitoring (Y/N)	Parameter Measured	Unit of measurement	Min Value	Max Value	Allowable Max	Percentile Limit (eg 90th)	Percentile reporting period
		Select...	Select...	Select...					
Comments No vibration monitoring required in September 2017									
AIR MONITORING DATA									
Specific EPL licence monitoring conditions for air monitoring: N/A									
Monitoring location	Number of times monitored during the month	Event based monitoring (Y/N)	Parameter Measured	Unit of measurement	Min Value	Max Value	Allowable Max	Percentile Limit (eg 90th)	Percentile reporting period
		Select...	Select...	Select...					
Comments No air monitoring required in September 2017									
CORRECTION LOG									
Sample Date and Time	Monitoring location	Type of monitoring (noise, water etc)	Event based monitoring (Y/N)	Parameter Measured (eg TSS, LAEq)	Unit (eg Mg/L)	Original result	Corrected Result	Date Corrected	Reasoning
Comments No corrections required in September 2017									
EXCEEDANCES									
Sample Date and Time	Monitoring location	Type of monitoring (noise, water etc)	Event based monitoring (Y/N)	Parameter Measured (eg TSS, LAEq)	Unit (eg Mg/L)	Result	Allowable Limit	Commentary	
			Select...						
Comments No exceedances in September 2017									

EPL No.	20544	EPL Monitoring Data	
Project	Sydney Metro Northwest OTS Works		
EPL Weblink:	http://www.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=20544&id=20544&option=licence&searchrange=licence&range=POEO%20licence&prp=no&status=Issued		

DETAILS		
Location: Cheltenham Service Facility	Month: September	Year: 2017

NOISE MONITORING DATA

Specific EPL licence monitoring conditions for noise monitoring:
 Condition L3.2 - Noise limits Condition
 Condition L4.2 - Exemptions to standard working hours
 Condition L4.4 - Works Approved Outside of Standard Construction Hours – Weekends
 Condition L4.5 - Works Approved Outside of Standard Construction Hours - Weekday evenings and nights
 Condition L4.6 - Additional works agreed outside of standard construction hours
 Condition M6.5 - Complaints
 Condition M7.1 - Other Monitoring Conditions

Monitoring location	Number of times monitored during the month	Attended or continuous monitoring	Event based monitoring (Y/N)	Parameter eg. Laq (15min)	min value dB (A) for month	max value dB (A) for month	goals / targets dB(A)
CSF L1	1	Attended	Yes	Leq	55.8	55.8	75
CSF L2	1	Attended	Yes	Leq	59.5	59.5	75
CSF L3	1	Attended	Yes	Leq	55.2	55.2	75

Comments

Stage of works V06 - Substructure concrete works and utilities relocation.

CSF L1: Standard Hours. 48 Castle Howard Road, Cheltenham. M2 traffic dominant noise source. Residents sweeping leaves along drive way and talking. Crane is intermittently noticeable from site.

CSF L2: Standard Hours. 226 Midsom Road, Cheltenham. Crane on site intermittently noticeable during traffic respite on Midsom Road. Wildlife is audible, though traffic passing is the dominant noise source.

CSF L3: Standard Hours. 1 Castle Howard Road, Cheltenham. Crane is noticeable from site and can be heard intermittently, cars passing through Castle Howard Road regularly contributing as the dominant noise source.

WATER MONITORING DATA

Specific EPL licence monitoring conditions for water monitoring:
 Condition L2 - Concentration Limits
 Condition M2 - Requirement to monitor concentration of pollutants discharged

Monitoring location	Number of times monitored during the month	Event based monitoring (Y/N)	Parameter measured	Units of measurement (mg/L, NTU, pH)	Minimum value for month	Maximum value for month	Allowable minimum limit	Allowable maximum limit
		Select...	Select...	Select...				

Comments

No water monitoring required in September 2017

VIBRATION MONITORING DATA									
Specific EPL licence monitoring conditions for vibration monitoring: Condition M6.5 - Complaints Condition M7.1 - Other monitoring conditions									
Monitoring location	Number of times monitored during the month	Event based monitoring (Y/N)	Parameter Measured	Unit of measurement	Min Value	Max Value	Allowable Max	Percentile Limit (eg 90th)	Percentile reporting period
		Select...	Select...	Select...					

Comments
No vibration monitoring required in September 2017

AIR MONITORING DATA									
Specific EPL licence monitoring conditions for air monitoring: N/A									
Monitoring location	Number of times monitored during the month	Event based monitoring (Y/N)	Parameter Measured	Unit of measurement	Min Value	Max Value	Allowable Max	Percentile Limit (eg 90th)	Percentile reporting period
		Select...	Select...	Select...					

Comments
No air monitoring required in September 2017

CORRECTION LOG									
Sample Date and Time	Monitoring location	Type of monitoring (noise, water etc)	Event based monitoring (Y/N)	Parameter Measured (eg TSS, LAEq)	Unit (eg Mg/L)	Original result	Corrected Result	Date Corrected	Reasoning

Comments
No corrections required in September 2017

EXCEEDANCES								
Sample Date and Time	Monitoring location	Type of monitoring (noise, water etc)	Event based monitoring (Y/N)	Parameter Measured (eg TSS, LAEq)	Unit (eg Mg/L)	Result	Allowable Limit	Commentary
			Select...					

Comments
No exceedances in September 2017

EPL No.	20544	EPL Monitoring Data	
Project	Sydney Metro Northwest OTS Works		
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DETAILS		
Location: Castle Hill Station	Month: September	Year: 2017

NOISE MONITORING DATA
Specific EPL licence monitoring conditions for noise monitoring: Condition L3.2 - Noise limits Condition Condition L4.2 - Exemptions to standard working hours Condition L4.4 - Works Approved Outside of Standard Construction Hours – Weekends Condition L4.5 - Works Approved Outside of Standard Construction Hours - Weekday evenings and nights Condition L4.6 - Additional works agreed outside of standard construction hours Condition M6.5 - Complaints Condition M7.1 - Other Monitoring Conditions

Monitoring location	Number of times monitored during the month	Attended or continuous monitoring	Event based monitoring (Y/N)	Parameter eg. Laq (15min)	min value dB (A) for month	max value dB (A) for month	goals / targets dB(A)
CSH L1	1	Attended	Yes	Leq	49.5	49.5	75
CSH L2	1	Attended	Yes	Leq	N/A	N/A	N/A

Comments Stage of works V10: Compound & Car Park Site Establishment, Track Materials, Rail Handling & Pulling, Tunnel Support Systems Cross Passage Fitout, Tunnel Fitout, Bulk Earthworks + Pavement Construction, Detail Earthworks - Within Station Box, Retaining walls Pedestrian Link, Footings, foundations and platforms, Columns, beams, concrete slabs / walls, Structural steel and cladding, Internal fitout of station building, Structural steel and cladding Install Canopy and Finishes Landscape and Surface Finishing Works CSH L1: Standard Hours. 9 Garthowen Cres, Castle Hill. New development of apartments across from castle hill station site on northern boundary impacting noise levels with the use of their cranes and concrete pump. CSH L2: Standard Hours. 4-6 Mercer Street Castle Hill. No monitoring undertaken new apartment blocks are currently being built directly across from the monitoring location overriding NRT noise levels behind new development.

WATER MONITORING DATA								
Specific EPL licence monitoring conditions for water monitoring: Condition L2 - Concentration Limits Condition M2 - Requirement to monitor concentration of pollutants discharged								
Monitoring location	Number of times monitored during the month	Event based monitoring (Y/N)	Parameter measured	Units of measurement (mg/L, NTU, pH)	Minimum value for month	Maximum value for month	Allowable minimum limit	Allowable maximum limit
		Select...	Select...	Select...				

Comments No water monitoring required in September 2017

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VIBRATION MONITORING DATA									
Specific EPL licence monitoring conditions for vibration monitoring: Condition M6.5 - Complaints Condition M7.1 - Other monitoring conditions									
Monitoring location	Number of times monitored during the month	Event based monitoring (Y/N)	Parameter Measured	Unit of measurement	Min Value	Max Value	Allowable Max	Percentile Limit (eg 90th)	Percentile reporting period
		Select...	Select...	Select...					
Comments									
No vibration monitoring required in September 2017									
AIR MONITORING DATA									
Specific EPL licence monitoring conditions for air monitoring: N/A									
Monitoring location	Number of times monitored during the month	Event based monitoring (Y/N)	Parameter Measured	Unit of measurement	Min Value	Max Value	Allowable Max	Percentile Limit (eg 90th)	Percentile reporting period
		Select...	Select...	Select...					
Comments									
No air monitoring required in September 2017									
CORRECTION LOG									
Sample Date and Time	Monitoring location	Type of monitoring (noise, water etc)	Event based monitoring (Y/N)	Parameter Measured (eg TSS, LAEq)	Unit (eg Mg/L)	Original result	Corrected Result	Date Corrected	Reasoning
Comments									
No corrections required in September 2017									
EXCEEDANCES									
Sample Date and Time	Monitoring location	Type of monitoring (noise, water etc)	Event based monitoring (Y/N)	Parameter Measured (eg TSS, LAEq)	Unit (eg Mg/L)	Result	Allowable Limit	Commentary	
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Comments									
No exceedances in September 2017									

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DETAILS		
Location: <input type="text" value="Cudgegong Road Station"/>	Month: <input type="text" value="September"/>	Year: <input type="text" value="2017"/>

NOISE MONITORING DATA

Specific EPL licence monitoring conditions for noise monitoring:
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Monitoring location	Number of times monitored during the month	Attended or continuous monitoring	Event based monitoring (Y/N)	Parameter eg. Laq (15min)	min value dB (A) for month	max value dB (A) for month	goals / targets dB(A)
CUD L1	1	Attended	Yes	Leq	66.4	66.4	75
CUD L2	1	Attended	Yes	Leq	67.2	67.2	75
CUD L3	1	Attended	Yes	Leq	55.9	55.9	75
CUD L4	1	Attended	Yes	Leq	48.5	48.5	75

Comments

Stage of works V14 - Building Construction: Substructure, Superstructure, interior works for all building sites - train wash, vehicle equipment monitoring station, wheel lathing building, maintenance building, fire control and security building.

CUD L1: Standard Hours. 40 Lomandra Crescent, The Ponds. Site noise inaudible from monitoring location, traffic from Schofields Road is the dominant noise source

CUD L2: Standard Hours. 87 Schofields Road, Rouse Hill. Non tonal reversing alarm is noticeable from site. Traffic from Schofields Road is the dominant noise source

CUD L3: Standard Hours. 19 Arrowroot Street, The Ponds. Site noise inaudible, traffic from Schofields Road can be heard. Residents sprinkler system operating in the background is noticeable.

CUD L4: Standard Hours. 38 Cudgegong Road, The Ponds. Non tonal reversal alarm and compactor works are noticeable from monitoring point.

WATER MONITORING DATA

Specific EPL licence monitoring conditions for water monitoring:
 Condition L2 - Concentration Limits
 Condition M2 - Requirement to monitor concentration of pollutants discharged

Monitoring location	Number of times monitored during the month	Event based monitoring (Y/N)	Parameter measured	Units of measurement (mg/L, NTU, pH)	Minimum value for month	Maximum value for month	Allowable minimum limit	Allowable maximum limit
<input type="text"/>	<input type="text"/>	Select...	Select...	Select...	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

WATER MONITORING DATA

Specific EPL licence monitoring conditions for water monitoring:
 Condition L2 - Concentration Limits
 Condition M2 - Requirement to monitor concentration of pollutants discharged

Monitoring location	Number of times monitored during the month	Event based monitoring (Y/N)	Parameter measured	Units of measurement (mg/L, NTU, pH)	Minimum value for month	Maximum value for month	Allowable minimum limit	Allowable maximum limit
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Comments
 No water monitoring required in September 2017

VIBRATION MONITORING DATA

Specific EPL licence monitoring conditions for vibration monitoring:
 Condition M6.5 - Complaints
 Condition M7.1 - Other monitoring conditions

Monitoring location	Number of times monitored during the month	Event based monitoring (Y/N)	Parameter Measured	Unit of measurement	Min Value	Max Value	Allowable Max	Percentile Limit (eg 90th)	Percentile reporting period
		Select...	Select...	Select...					

Comments
 No vibration monitoring required in September 2017

AIR MONITORING DATA

Specific EPL licence monitoring conditions for air monitoring:
 N/A

Monitoring location	Number of times monitored during the month	Event based monitoring (Y/N)	Parameter Measured	Unit of measurement	Min Value	Max Value	Allowable Max	Percentile Limit (eg 90th)	Percentile reporting period
		Select...	Select...	Select...					

Comments
 No air monitoring required in September 2017

CORRECTION LOG

Sample Date and Time	Monitoring location	Type of monitoring (noise, water etc)	Event based monitoring (Y/N)	Parameter Measured (eg TSS, LAEq)	Unit (eg Mg/L)	Original result	Corrected Result	Date Corrected	Reasoning

Comments
 No corrections required in September 2017

EXCEEDANCES

Sample Date and Time	Monitoring location	Type of monitoring (noise, water etc)	Event based monitoring (Y/N)	Parameter Measured (eg TSS, LAEq)	Unit (eg Mg/L)	Result	Allowable Limit	Commentary
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<input type="text"/>	<input type="text"/>	<input type="text" value="Select..."/>	<input type="text"/>				
Comments							
No exceedances in September 2017							

EPL No.	20544	EPL Monitoring Data	
Project	Sydney Metro Northwest OTS Works		
EPL Weblink:	http://www.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=20544&id=20544&option=licence&searchrange=licence&range=POEO%20licence&prp=no&status=Issued		

DETAILS			
Location:	Month:	Year:	
Epping Service Facility	September	2017	

NOISE MONITORING DATA
Specific EPL licence monitoring conditions for noise monitoring: Condition L3.2 - Noise limits Condition Condition L4.2 - Exemptions to standard working hours Condition L4.4 - Works Approved Outside of Standard Construction Hours – Weekends Condition L4.5 - Works Approved Outside of Standard Construction Hours - Weekday evenings and nights Condition L4.6 - Additional works agreed outside of standard construction hours Condition M6.5 - Complaints Condition M7.1 - Other Monitoring Conditions

Monitoring location	Number of times monitored during the month	Attended or continuous monitoring	Event based monitoring (Y/N)	Parameter eg. Laq (15min)	min value dB (A) for month	max value dB (A) for month	goals / targets dB(A)
ESF L1	1	Attended	Yes	Leq	69.3	69.3	75
ESF L2	1	Attended	Yes	Leq	58.1	58.1	75
ESF L3	1	Attended	Yes	Leq	64.5	64.5	75
ESF L4	1	Attended	Yes	Leq	60.3	60.3	75
ESF L5	1	Attended	Yes	Leq	N/A	N/A	N/A

Comments

Stage of works - Roadworks Beecroft Road, Demolition & Drainage, Kerb and pavement construction, Building works/ services Deliveries, Blockwork, floor finishes

ESF L1: Standard Hours. 74 Rawson St, Epping. Site noise inaudible. Traffic passing through Ray Road and Carlingford Road is the dominant noise source.

ESF L2: Standard Hours. 6-8 Edensor St, Epping. Pedestrians passing, wildlife and traffic dominant noise sources, crane movement is noticeable during traffic respite but not the dominant noise source. Leaf blower by resident was turned on at 12.19mins

ESF L3: Standard Hours. 9 Edensor St, Epping. Crane operation is noticeable at monitoring location - intermittently. Traffic noise from Ray road is the dominant noise source. Trains passing from Epping station can also be heard intermittently.

ESF L4: Standard Hours. 13-15 Ray Rd, Epping. Crane noise from site is noticeable during traffic respite on Ray Road, traffic is the dominant noise source. Residents talking as they pass monitoring location.

ESF L5: Standard Hours. 34 Cambridge Rd, Epping. No monitoring undertaken at this noise catchment - New residential apartments being built next door to monitoring location overriding our site noise.

WATER MONITORING DATA

Specific EPL licence monitoring conditions for water monitoring:
 Condition L2 - Concentration Limits
 Condition M2 - Requirement to monitor concentration of pollutants discharged

Monitoring location	Number of times monitored during the month	Event based monitoring (Y/N)	Parameter measured	Units of measurement (mg/L, NTU, pH)	Minimum value for month	Maximum value for month	Allowable minimum limit	Allowable maximum limit
		Select...	Select...	Select...				

Comments
 No water monitoring required in September 2017

VIBRATION MONITORING DATA

Specific EPL licence monitoring conditions for vibration monitoring:
 Condition M6.5 - Complaints
 Condition M7.1 - Other monitoring conditions

Monitoring location	Number of times monitored during the month	Event based monitoring (Y/N)	Parameter Measured	Unit of measurement	Min Value	Max Value	Allowable Max	Percentile Limit (eg 90th)	Percentile reporting period
		Select...	Select...	Select...					

Comments
 No vibration monitoring required in September 2017

AIR MONITORING DATA

Specific EPL licence monitoring conditions for air monitoring:
 N/A

Monitoring location	Number of times monitored during the month	Event based monitoring (Y/N)	Parameter Measured	Unit of measurement	Min Value	Max Value	Allowable Max	Percentile Limit (eg 90th)	Percentile reporting period
		Select...	Select...	Select...					

Comments
 No air monitoring required in September 2017

CORRECTION LOG

Sample Date and Time	Monitoring location	Type of monitoring (noise, water etc)	Event based monitoring (Y/N)	Parameter Measured (eg TSS, LAEq)	Unit (eg Mg/L)	Original result	Corrected Result	Date Corrected	Reasoning

Comments
 No corrections required in September 2017

EXCEEDANCES

Sample Date and Time	Monitoring location	Type of monitoring (noise, water etc)	Event based monitoring (Y/N)	Parameter Measured (eg TSS, LAEq)	Unit (eg Mg/L)	Result	Allowable Limit	Commentary

		Select...						
Comments								
No exceedances in September 2017								

EPL No.	20544	EPL Monitoring Data	
Project	Sydney Metro Northwest OTS Works		
EPL Weblink:	http://www.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=20544&id=20544&option=licence&searchrange=licence&range=POEO%20licence&prp=no&status=Issued		

DETAILS	
Location: <input style="width: 95%;" type="text" value="Kellyville Station to Rouse Hill Station"/>	Month: <input style="width: 80%;" type="text" value="September"/> Year: <input style="width: 20%;" type="text" value="2017"/>

NOISE MONITORING DATA
Specific EPL licence monitoring conditions for noise monitoring: Condition L3.2 - Noise limits Condition Condition L4.2 - Exemptions to standard working hours Condition L4.4 - Works Approved Outside of Standard Construction Hours – Weekends Condition L4.5 - Works Approved Outside of Standard Construction Hours - Weekday evenings and nights Condition L4.6 - Additional works agreed outside of standard construction hours Condition M6.5 - Complaints Condition M7.1 - Other Monitoring Conditions

Monitoring location	Number of times monitored during the month	Attended or continuous monitoring	Event based monitoring (Y/N)	Parameter eg. Laq (15min)	min value dB (A) for month	max value dB (A) for month	goals / targets dB(A)
KVE-RSH L1	1	Attended	Yes	Leq	54.7	54.7	75
KVE-RSH L2	1	Attended	Yes	Leq	58.7	58.7	75
KVE-RSH L3	1	Attended	Yes	Leq	N/A	N/A	N/A
KVE-RSH L4	1	Attended	Yes	Leq	52.7	52.7	75
KVE-RSH L5	1	Attended	Yes	Leq	58.7	58.7	75

<p>Comments</p> <p>Stage of works: Corridor - Clear and grub, Bulk Earthworks Activities / Installation & Demolish Signs, Drainage, Noise Wall / Fencing, Shared Path, Landscaping - Hard and Soft Install, Deliveries, Maintenance Access Track, Construction Substation / Pedestrian Bridge / Viaduct Access Stair Installation. Viaduct - Deliveries, Site Mobilisation, Preparation & Cleaning, Flash Butt Welding, Derailment Ke rb, Install FRP – Shear Keys, Track Slab Track Installation.</p> <p>KVE-RSH L1: Standard Hours. 23 Landy Place, Kellyville. Traffic from Windsor Road is the dominant noise source as the house backs onto the main road, new development by Dylam is also occurring across the road. Site noise is inaudible from this location</p> <p>KVE-RSH L2: Standard Hours. 55 Lycett Avenue, Kellyville. Traffic on Windsor road is the dominant noise source. Site noise in audible</p> <p>KVE-RSH L3: Standard Hours. 37 Bentwood Crescent, Stanhope Gardens. No works occurring along this portion of the viaduct, there fore only picking up traffic noise - no monitoring occurred.</p> <p>KVE-RSH L4: Standard Hours. 15 Carolyn Court, Kellyville. Site noise inaudible. Traffic on old Windsor road dominant noise source</p> <p>KVE-RSH L5: Standard Hours. 36 Lycett Avenue, Kellyville. Traffic on Windsor road is the dominant noise source. Site noise in audible (House opposite 55 Lycett Avenue)</p>

WATER MONITORING DATA

Specific EPL licence monitoring conditions for water monitoring:
 Condition L2 - Concentration Limits
 Condition M2 - Requirement to monitor concentration of pollutants discharged

Monitoring location	Number of times monitored during the month	Event based monitoring (Y/N)	Parameter measured	Units of measurement (mg/L, NTU, pH)	Minimum value for month	Maximum value for month	Allowable minimum limit	Allowable maximum limit
		Select...	Select...	Select...				

Comments
 No water monitoring required in September 2017

VIBRATION MONITORING DATA

Specific EPL licence monitoring conditions for vibration monitoring:
 Condition M6.5 - Complaints
 Condition M7.1 - Other monitoring conditions

Monitoring location	Number of times monitored during the month	Event based monitoring (Y/N)	Parameter Measured	Unit of measurement	Min Value	Max Value	Allowable Max	Percentile Limit (eg 90th)	Percentile reporting period
		Select...	Select...	Select...					

Comments
 No vibration monitoring required in September 2017

AIR MONITORING DATA

Specific EPL licence monitoring conditions for air monitoring:
 N/A

Monitoring location	Number of times monitored during the month	Event based monitoring (Y/N)	Parameter Measured	Unit of measurement	Min Value	Max Value	Allowable Max	Percentile Limit (eg 90th)	Percentile reporting period
		Select...	Select...	Select...					

Comments
 No air monitoring required in September 2017

CORRECTION LOG

Sample Date and Time	Monitoring location	Type of monitoring (noise, water etc)	Event based monitoring (Y/N)	Parameter Measured (eg TSS, LAEq)	Unit (eg Mg/L)	Original result	Corrected Result	Date Corrected	Reasoning

Comments
 No corrections required in September 2017

EXCEEDANCES

Sample Date and Time	Monitoring location	Type of monitoring (noise, water etc)	Event based monitoring (Y/N)	Parameter Measured (eg TSS, LAEq)	Unit (eg Mg/L)	Result	Allowable Limit	Commentary

		Select...						
Comments								
No exceedances in September 2017								

EPL No.	20544	EPL Monitoring Data	
Project	Sydney Metro Northwest OTS Works		
EPL Weblink:	http://www.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=20544&id=20544&option=licence&searchrange=licence&range=POEO%20licence&prp=no&status=Issued		

DETAILS		
Location:	Month:	Year:
Kellyville Station	September	2017

NOISE MONITORING DATA
Specific EPL licence monitoring conditions for noise monitoring: Condition L3.2 - Noise limits Condition Condition L4.2 - Exemptions to standard working hours Condition L4.4 - Works Approved Outside of Standard Construction Hours – Weekends Condition L4.5 - Works Approved Outside of Standard Construction Hours - Weekday evenings and nights Condition L4.6 - Additional works agreed outside of standard construction hours Condition M6.5 - Complaints Condition M7.1 - Other Monitoring Conditions

Monitoring location	Number of times monitored during the month	Attended or continuous monitoring	Event based monitoring (Y/N)	Parameter eg. Laq (15min)	min value dB (A) for month	max value dB (A) for month	goals / targets dB(A)
KVE L1	1	Attended	Yes	Leq	51.3	51.3	75
KVE L2	1	Attended	Yes	Leq	51.7	51.7	75
KVE L3	1	Attended	Yes	Leq	51.7	51.7	75
KVE L4	1	Attended	Yes	Leq	56.5	56.5	75
KVE L5	1	Attended	Yes	Leq	47.1	47.1	75
KVE L6	1	Attended	Yes	Leq	52	52	75

Comments

Stage of works: V05 - Construction Compound & Car Park Bulk Earthworks + Pavement - On Surface, Retaining walls, Hollow Core Installation, Internal fitout of station building, Structural steel and cladding Install Structural Steel, Canopies & Finishes Landscape & Surface Finishing Works Track Materials Deliveries.

KVE L1: Standard Hours. 51 Folkestone Crescent, Kellyville. Traffic from old Windsor road is the dominant noise source. Site noise is audible.

KVE L2: Standard Hours. 27 Roxburgh Crescent, Kellyville. Site noise is noticeable during traffic respite. traffic from old Windsor road is the dominant noise source.

KVE L3: Standard Hours. 16 Wenden Avenue, Kellyville. Wildlife - birds are the dominant noise source, traffic is audible. Site noise is inaudible. Ambulance siren can be heard from distance.

KVE L4: Standard Hours. 9 Clovelly Circuit, Kellyville. Traffic noise from old Windsor road is the dominant noise source. Small landscaping job is being completed. The use of a hose only and slight hand tools, works are slightly audible.

KVE L5: Standard Hours. 30 Martens Circuit, Kellyville. Site noise inaudible. Wildlife - birds dominant noise source. Traffic noise audible from old Windsor road.

KVE L6: Standard Hours. 15 Kentwell Crescent, Kellyville. Old Windsor Road traffic is the dominant noise source. Neighbours can be heard next door.

WATER MONITORING DATA

Specific EPL licence monitoring conditions for water monitoring:

Condition L2 - Concentration Limits

Condition M2 - Requirement to monitor concentration of pollutants discharged

Monitoring location	Number of times monitored during the month	Event based monitoring (Y/N)	Parameter measured	Units of measurement (mg/L, NTU, pH)	Minimum value for month	Maximum value for month	Allowable minimum limit	Allowable maximum limit
KVE SB1	1	Yes	pH	pH	8.09	8.09	6.5	8.5
KVE SB1	1	Yes	TSS	mg/L	19	19	0	50
SVE SB2	1	Yes	pH	pH	7.82	7.82	6.5	8.5
KVE SB2	1	Yes	TSS	mg/L	21	21	0	50

Comments

KVE SB1 discharges on the 7th September 2017
 KVE SB2 discharges on the 6th September 2017

VIBRATION MONITORING DATA

Specific EPL licence monitoring conditions for vibration monitoring:

Condition M6.5 - Complaints

Condition M7.1 - Other monitoring conditions

Monitoring location	Number of times monitored during the month	Event based monitoring (Y/N)	Parameter Measured	Unit of measurement	Min Value	Max Value	Allowable Max	Percentile Limit (eg 90th)	Percentile reporting period
		Select...	Select...	Select...					

Comments

No vibration monitoring required in September 2017

AIR MONITORING DATA

Specific EPL licence monitoring conditions for air monitoring:

N/A

Monitoring location	Number of times monitored during the month	Event based monitoring (Y/N)	Parameter Measured	Unit of measurement	Min Value	Max Value	Allowable Max	Percentile Limit (eg 90th)	Percentile reporting period
		Select...	Select...	Select...					

Comments

No air monitoring required in September 2017

CORRECTION LOG

Sample Date and Time	Monitoring location	Type of monitoring (noise, water etc)	Event based monitoring (Y/N)	Parameter Measured (eg TSS, LAEq)	Unit (eg Mg/L)	Original result	Corrected Result	Date Corrected	Reasoning

Comments

No corrections required in September 2017

EXCEEDANCES								
Sample Date and Time	Monitoring location	Type of monitoring (noise, water etc)	Event based monitoring (Y/N)	Parameter Measured (eg TSS, LAEq)	Unit (eg Mg/L)	Result	Allowable Limit	Commentary
<input type="text"/>	<input type="text"/>	<input type="text"/>	Select...	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Comments								
No exceedances in September 2017								

EPL No.	20544	EPL Monitoring Data	
Project	Sydney Metro Northwest OTS Works		
EPL Weblink:	http://www.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=20544&id=20544&option=licence&searchrange=licence&range=POEO%20licence&prp=no&status=Issued		

DETAILS		
Location: Norwest Station	Month: September	Year: 2017

NOISE MONITORING DATA

Specific EPL licence monitoring conditions for noise monitoring:
 Condition L3.2 - Noise limits Condition
 Condition L4.2 - Exemptions to standard working hours
 Condition L4.4 - Works Approved Outside of Standard Construction Hours – Weekends
 Condition L4.5 - Works Approved Outside of Standard Construction Hours - Weekday evenings and nights
 Condition L4.6 - Additional works agreed outside of standard construction hours
 Condition M6.5 - Complaints
 Condition M7.1 - Other Monitoring Conditions

Monitoring location	Number of times monitored during the month	Attended or continuous monitoring	Event based monitoring (Y/N)	Parameter eg. Laq (15min)	min value dB (A) for month	max value dB (A) for month	goals / targets dB(A)
		Select...	Select...	Select...			

Comments
 No noise monitoring required in September 2017

WATER MONITORING DATA

Specific EPL licence monitoring conditions for water monitoring:
 Condition L2 - Concentration Limits
 Condition M2 - Requirement to monitor concentration of pollutants discharged

Monitoring location	Number of times monitored during the month	Event based monitoring (Y/N)	Parameter measured	Units of measurement (mg/L, NTU, pH)	Minimum value for month	Maximum value for month	Allowable minimum limit	Allowable maximum limit
NRW S.T	9	Yes	pH	pH	6.84	8.24	6.5	8.5
NRW S.T	9	Yes	TSS	mg/L	5	19	0	50

Comments
 NRW Settling Tank discharges on the 1st, 6th, 9th 12th, 13th, 16th, 19th, 21st, 26th September 2017

VIBRATION MONITORING DATA									
Specific EPL licence monitoring conditions for vibration monitoring: Condition M6.5 - Complaints Condition M7.1 - Other monitoring conditions									
Monitoring location		Event based monitoring (Y/N)	Parameter Measured	Unit of measurement	Min Value	Max Value	Allowable Max	Percentile Limit (eg 90th)	Percentile reporting period

	Number of times monitored during the month								
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Select...	Select...	Select...						
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Comments
No vibration monitoring required in September 2017

AIR MONITORING DATA

Specific EPL licence monitoring conditions for air monitoring:
N/A

Monitoring location	Number of times monitored during the month	Event based monitoring (Y/N)	Parameter Measured	Unit of measurement	Min Value	Max Value	Allowable Max	Percentile Limit (eg 90th)	Percentile reporting period
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Select...	Select...	Select...						
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Comments
No air monitoring required in September 2017

CORRECTION LOG

Sample Date and Time	Monitoring location	Type of monitoring (noise, water etc)	Event based monitoring (Y/N)	Parameter Measured (eg TSS, LAEq)	Unit (eg Mg/L)	Original result	Corrected Result	Date Corrected	Reasoning
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Comments
No corrections required in September 2017

EXCEEDANCES

Sample Date and Time	Monitoring location	Type of monitoring (noise, water etc)	Event based monitoring (Y/N)	Parameter Measured (eg TSS, LAEq)	Unit (eg Mg/L)	Result	Allowable Limit	Commentary
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			Select...					
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Comments
No exceedances in September 2017

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EPL No.	20544	EPL Monitoring Data	
Project	Sydney Metro Northwest OTS Works		
EPL Weblink:	http://www.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=20544&id=20544&option=licence&searchrange=licence&range=POEO%20licence&prp=no&status=Issued		

DETAILS		
Location: Norwest Station	Month: September	Year: 2017

NOISE MONITORING DATA

Specific EPL licence monitoring conditions for noise monitoring:
 Condition L3.2 - Noise limits Condition
 Condition L4.2 - Exemptions to standard working hours
 Condition L4.4 - Works Approved Outside of Standard Construction Hours – Weekends
 Condition L4.5 - Works Approved Outside of Standard Construction Hours - Weekday evenings and nights
 Condition L4.6 - Additional works agreed outside of standard construction hours
 Condition M6.5 - Complaints
 Condition M7.1 - Other Monitoring Conditions

Monitoring location	Number of times monitored during the month	Attended or continuous monitoring	Event based monitoring (Y/N)	Parameter eg. Laq (15min)	min value dB (A) for month	max value dB (A) for month	goals / targets dB(A)
		Select...	Select...	Select...			

Comments
 No noise monitoring required in September 2017

WATER MONITORING DATA

Specific EPL licence monitoring conditions for water monitoring:
 Condition L2 - Concentration Limits
 Condition M2 - Requirement to monitor concentration of pollutants discharged

Monitoring location	Number of times monitored during the month	Event based monitoring (Y/N)	Parameter measured	Units of measurement (mg/L, NTU, pH)	Minimum value for month	Maximum value for month	Allowable minimum limit	Allowable maximum limit
NRW S.T	9	Yes	pH	pH	6.84	8.24	6.5	8.5
NRW S.T	9	Yes	TSS	mg/L	5	19	0	50

Comments
 NRW Settling Tank discharges on the 1st, 6th, 9th 12th, 13th, 16th, 19th, 21st, 26th September 2017

VIBRATION MONITORING DATA									
Specific EPL licence monitoring conditions for vibration monitoring: Condition M6.5 - Complaints Condition M7.1 - Other monitoring conditions									
Monitoring location		Event based monitoring (Y/N)	Parameter Measured	Unit of measurement	Min Value	Max Value	Allowable Max	Percentile Limit (eg 90th)	Percentile reporting period

	Number of times monitored during the month								
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Select...	Select...	Select...						
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Comments
No vibration monitoring required in September 2017

AIR MONITORING DATA

Specific EPL licence monitoring conditions for air monitoring:
N/A

Monitoring location	Number of times monitored during the month	Event based monitoring (Y/N)	Parameter Measured	Unit of measurement	Min Value	Max Value	Allowable Max	Percentile Limit (eg 90th)	Percentile reporting period
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Select...	Select...	Select...						
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Comments
No air monitoring required in September 2017

CORRECTION LOG

Sample Date and Time	Monitoring location	Type of monitoring (noise, water etc)	Event based monitoring (Y/N)	Parameter Measured (eg TSS, LAEq)	Unit (eg Mg/L)	Original result	Corrected Result	Date Corrected	Reasoning
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Comments
No corrections required in September 2017

EXCEEDANCES

Sample Date and Time	Monitoring location	Type of monitoring (noise, water etc)	Event based monitoring (Y/N)	Parameter Measured (eg TSS, LAEq)	Unit (eg Mg/L)	Result	Allowable Limit	Commentary
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			Select...					
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Comments
No exceedances in September 2017

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EPL No.	20544	EPL Monitoring Data	
Project	Sydney Metro Northwest OTS Works		
EPL Weblink:	http://www.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=20544&id=20544&option=licence&searchrange=licence&range=POEO%20licence&prp=no&status=Issued		

DETAILS

Location:	Month:	Year:
Rouse Hill Station to Cudgegong Road Station	September	2017

NOISE MONITORING DATA

Specific EPL licence monitoring conditions for noise monitoring:

Condition L3.2 - Noise limits Condition

Condition L4.2 - Exemptions to standard working hours

Condition L4.4 - Works Approved Outside of Standard Construction Hours – Weekends

Condition L4.5 - Works Approved Outside of Standard Construction Hours - Weekday evenings and nights

Condition L4.6 - Additional works agreed outside of standard construction hours

Condition M6.5 - Complaints

Condition M7.1 - Other Monitoring Conditions

Monitoring location	Number of times monitored during the month	Attended or continuous monitoring	Event based monitoring (Y/N)	Parameter eg. Laq (15min)	min value dB (A) for month	max value dB (A) for month	goals / targets dB(A)
RSH-CUD L1	1	Attended	Yes	Leq	62.5	62.5	75
RSH-CUD L2	1	Attended	Yes	Leq	59.6	59.6	75
RSH-CUD L3	1	Attended	Yes	Leq	58.1	58.1	75
RSH-CUD L4	1	Attended	Yes	Leq	56.4	56.4	75
RSH-CUD L5	1	Attended	Yes	Leq	52.2	52.2	75
RSH-CUD L6	1	Attended	Yes	Leq	48.5	48.5	75
RSH-CUD L7	1	Attended	Yes	Leq	47.8	47.8	75
RSH-CUD L8	1	Attended	Yes	Leq	N/A	N/A	N/A

Comments

Stage of works: Corridor - Clear and grub, Bulk Earthworks Activities / Installation & Demolish Signs, Drainage, Noise Wall / Fencing, Shared Path, Landscaping - Hard and Soft Install, Deliveries, Maintenance Access Track, Construction Substation / Pedestrian Bridge / Viaduct Access Stair Installation. Viaduct - Deliveries, Site Mobilisation, Preparation & Cleaning, Flash Butt Welding, Derailment Kerb, Install FRP – Shear Keys, Track Slab Track Installation.

RSH-CUD L1: Standard Hours. 1 Bellcast Road, Rouse Hill. Traffic from Windsor road is the dominant noise source, site noise slightly noticeable noise level when site vehicles exit and entered the site.

RSH-CUD L2: Standard Hours. 59 Lomandra Circuit, Rouse Hill. Traffic noise is the dominant noise source. Site noise is inaudible.

RSH-CUD L3: Standard Hours. 51 Terry Road, Rouse Hill. Predominant noise source is ISJV watercart - not under IJV control.

RSH-CUD L4: Standard Hours. 1 Beck Place, Kellyville Ridge. Traffic from Windsor Road and nearby wildlife are the dominant noise sources. Site noise is inaudible from monitoring location.

RSH-CUD L5: Standard Hours. 9 Arrowroot Road, The Ponds. Predominant noise is traffic on Schofields Road.

RSH-CUD L6: Standard Hours. 38 Cudgegong Road, Cudgegong. Non tonal reversal alarm and compactor works are noticeable from monitoring point. Traffic on Windsor Road is the dominant noise source.

RSH-CUD L7: Standard Hours. 41 Kirkton Place, Beaumont Hills. Construction site adjacent to corridor - not NRT.

RSH-CUD L8: Standard Hours. 105 Schofields Road, Schofields. Noise monitoring not undertaken at this location as NRT work site over 723m away and SVC worksite is 332m away. Noise monitoring would be picking up noise from SVC works.

WATER MONITORING DATA

Specific EPL licence monitoring conditions for water monitoring:

Condition L2 - Concentration Limits

Condition M2 - Requirement to monitor concentration of pollutants discharged

Monitoring location	Number of times monitored during the month	Event based monitoring (Y/N)	Parameter measured	Units of measurement (mg/L, NTU, pH)	Minimum value for month	Maximum value for month	Allowable minimum limit	Allowable maximum limit
		Select...	Select...	Select...				

Comments

No water monitoring required in September 2017

VIBRATION MONITORING DATA

Specific EPL licence monitoring conditions for vibration monitoring:

Condition M6.5 - Complaints

Condition M7.1 - Other monitoring conditions

Monitoring location	Number of times monitored during the month	Event based monitoring (Y/N)	Parameter Measured	Unit of measurement	Min Value	Max Value	Allowable Max	Percentile Limit (eg 90th)	Percentile reporting period
		Select...	Select...	Select...					

Comments

No vibration monitoring required in September 2017

AIR MONITORING DATA

Specific EPL licence monitoring conditions for air monitoring:

N/A

Monitoring location	Parameter Measured	Unit of measurement	Min Value	Max Value	Allowable Max	Percentile reporting period

	Number of times monitored during the month	Event based monitoring (Y/N)						Percentile Limit (eg 90th)	
		Select...	Select...	Select...					

Comments
 No air monitoring required in September 2017

CORRECTION LOG

Sample Date and Time	Monitoring location	Type of monitoring (noise, water etc)	Event based monitoring (Y/N)	Parameter Measured (eg TSS, LAEq)	Unit (eg Mg/L)	Original result	Corrected Result	Date Corrected	Reasoning

Comments
 No corrections required in September 2017

EXCEEDANCES

Sample Date and Time	Monitoring location	Type of monitoring (noise, water etc)	Event based monitoring (Y/N)	Parameter Measured (eg TSS, LAEq)	Unit (eg Mg/L)	Result	Allowable Limit	Commentary
			Select...					

Comments
 No exceedances in September 2017

Comments
 No exceedances in September 2017

EPL No.	20544	EPL Monitoring Data	
Project	Sydney Metro Northwest OTS Works		
EPL Weblink:	http://www.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=20544&id=20544&option=licence&searchrange=licence&range=POEO%20licence&prp=no&status=Issued		

DETAILS		
Location: Rapid Transit Rail Facility	Month: September	Year: 2017

NOISE MONITORING DATA

Specific EPL licence monitoring conditions for noise monitoring:
 Condition L3.2 - Noise limits Condition
 Condition L4.2 - Exemptions to standard working hours
 Condition L4.4 - Works Approved Outside of Standard Construction Hours – Weekends
 Condition L4.5 - Works Approved Outside of Standard Construction Hours - Weekday evenings and nights
 Condition L4.6 - Additional works agreed outside of standard construction hours
 Condition M6.5 - Complaints
 Condition M7.1 - Other Monitoring Conditions

Monitoring location	Number of times monitored during the month	Attended or continuous monitoring	Event based monitoring (Y/N)	Parameter eg. Laq (15min)	min value dB (A) for month	max value dB (A) for month	goals / targets dB(A)
RTRF L1	1	Attended	Yes	Leq	65	65	75
RTRF L2	1	Attended	Yes	Leq	64.4	64.4	75

Comments
 Stage of works V14 - Building Construction: Substructure, Superstructure, interior works for all building sites - train wash, vehicle equipment monitoring station, wheel lathing building, maintenance building, fire control and security building.

 RTRF L1: 88 Amarco Circuit, The Ponds. Site noise is noticeable from monitoring location. Traffic on Schofields Road is the dominant noise source.

 RTRF L2: 5 Ridgeline Drive, The Ponds. Traffic from Schofields Road is the dominant noise source. Site noise inaudible. New development works occurring 3 doors down - hammering.

WATER MONITORING DATA

Specific EPL licence monitoring conditions for water monitoring:
 Condition L2 - Concentration Limits
 Condition M2 - Requirement to monitor concentration of pollutants discharged

Monitoring location	Number of times monitored during the month	Event based monitoring (Y/N)	Parameter measured	Units of measurement (mg/L, NTU, pH)	Minimum value for month	Maximum value for month	Allowable minimum limit	Allowable maximum limit
		Select...	Select...	Select...				

Comments
 No water monitoring required in September 2017

VIBRATION MONITORING DATA

Specific EPL licence monitoring conditions for vibration monitoring:
 Condition M6.5 - Complaints
 Condition M7.1 - Other monitoring conditions

Monitoring location	Number of times monitored during the month	Event based monitoring (Y/N)	Parameter Measured	Unit of measurement	Min Value	Max Value	Allowable Max	Percentile Limit (eg 90th)	Percentile reporting period
		Select...	Select...	Select...					

Comments
 No vibration monitoring required in September 2017

AIR MONITORING DATA

Specific EPL licence monitoring conditions for air monitoring:
 N/A

Monitoring location	Number of times monitored during the month	Event based monitoring (Y/N)	Parameter Measured	Unit of measurement	Min Value	Max Value	Allowable Max	Percentile Limit (eg 90th)	Percentile reporting period
		Select...	Select...	Select...					

Comments
 No air monitoring required in September 2017

CORRECTION LOG

Sample Date and Time	Monitoring location	Type of monitoring (noise, water etc)	Event based monitoring (Y/N)	Parameter Measured (eg TSS, LAEq)	Unit (eg Mg/L)	Original result	Corrected Result	Date Corrected	Reasoning

Comments
 No corrections required in September 2017

EXCEEDANCES

Sample Date and Time	Monitoring location	Type of monitoring (noise, water etc)	Event based monitoring (Y/N)	Parameter Measured (eg TSS, LAEq)	Unit (eg Mg/L)	Result	Allowable Limit	Commentary
			Select...					

Comments
 No exceedances in September 2017

EPL No.	20544	EPL Monitoring Data	
Project	Sydney Metro Northwest OTS Works		
EPL Weblink:	http://www.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=20544&id=20544&option=licence&searchrange=licence&range=POEO%20licence&prp=no&status=Issued		

DETAILS		
Location: Showground Station	Month: September	Year: 2017

NOISE MONITORING DATA

Specific EPL licence monitoring conditions for noise monitoring:
 Condition L3.2 - Noise limits Condition
 Condition L4.2 - Exemptions to standard working hours
 Condition L4.4 - Works Approved Outside of Standard Construction Hours – Weekends
 Condition L4.5 - Works Approved Outside of Standard Construction Hours - Weekday evenings and nights
 Condition L4.6 - Additional works agreed outside of standard construction hours
 Condition M6.5 - Complaints
 Condition M7.1 - Other Monitoring Conditions

Monitoring location	Number of times monitored during the month	Attended or continuous monitoring	Event based monitoring (Y/N)	Parameter eg. Laq (15min)	min value dB (A) for month	max value dB (A) for month	goals / targets dB(A)
		Select...	Select...	Select...			

Comments
 No noise monitoring required in September 2017

WATER MONITORING DATA

Specific EPL licence monitoring conditions for water monitoring:
 Condition L2 - Concentration Limits
 Condition M2 - Requirement to monitor concentration of pollutants discharged

Monitoring location	Number of times monitored during the month	Event based monitoring (Y/N)	Parameter measured	Units of measurement (mg/L, NTU, pH)	Minimum value for month	Maximum value for month	Allowable minimum limit	Allowable maximum limit
SB-B	1	Yes	pH	pH	7.6	7.6	6.5	8.5
SB-B	1	Yes	TSS	mg/L	32	32	0	50

Comments
 SB-B discharges on the 21st September 2017

VIBRATION MONITORING DATA									
Specific EPL licence monitoring conditions for vibration monitoring: Condition M6.5 - Complaints Condition M7.1 - Other monitoring conditions									
Monitoring location		Event based monitoring (Y/N)	Parameter Measured	Unit of measurement	Min Value	Max Value	Allowable Max	Percentile Limit (eg 90th)	Percentile reporting period

	Number of times monitored during the month								
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Select...	Select...	Select...						
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Comments
No vibration monitoring required in September 2017

AIR MONITORING DATA

Specific EPL licence monitoring conditions for air monitoring:
N/A

Monitoring location	Number of times monitored during the month	Event based monitoring (Y/N)	Parameter Measured	Unit of measurement	Min Value	Max Value	Allowable Max	Percentile Limit (eg 90th)	Percentile reporting period
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Select...	Select...	Select...						
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Comments
No air monitoring required in September 2017

CORRECTION LOG

Sample Date and Time	Monitoring location	Type of monitoring (noise, water etc)	Event based monitoring (Y/N)	Parameter Measured (eg TSS, LAEq)	Unit (eg Mg/L)	Original result	Corrected Result	Date Corrected	Reasoning
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Comments
No corrections required in September 2017

EXCEEDANCES

Sample Date and Time	Monitoring location	Type of monitoring (noise, water etc)	Event based monitoring (Y/N)	Parameter Measured (eg TSS, LAEq)	Unit (eg Mg/L)	Result	Allowable Limit	Commentary
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			Select...					
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Comments
No exceedances in September 2017

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