

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	June	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)
BLVL1 OOH(1)	2	Attended	Yes	Leq	56.5	57.3	75
BLVL1 OOH(2)	1	Attended	Yes	Leq	59	59	65
BLVL2 OOH(1)	1	Attended	Yes	Leq	67.8	67.8	75
BLVL2 OOH(2)	1	Attended	Yes	Leq	67.8	67.8	65
BLVL3 OOH	1	Attended	Yes	Leq	66.8	66.8	63

Comments

Works occurring included - Asphalt saw cutting, sucker truck potholing on Lexington Dr and traffic control.

BLV L1 OOH: 97 Brighton Drive, Bella Vista.

(1) Evening Hours. Road traffic along Brighton Dr, Wildlife can be heard in distance. No fountain operating on the lake. Hum from saw cutter 50.9dB(A). 56.2dB(A) for actual saw cutting which commenced at the very end of the reading. Aeroplane flying overhead taking reading to over 60dB(A).

(2) Night Hours. Construction traffic dominate noise source until cars drive past monitoring location. Saw cut noise between 50.0 and 55.0dB(A). Aeroplane flying overhead. Metal gates being closed at the business on the other side of the lake.

- Compliant with specified noise targets.

BLV L2 OOH: 19 Vanessa Court, Glenwood.

(1) Evening Hours. Road traffic along Old Windsor Road dominate noise source during this monitoring. Construction noise inaudible during this monitoring period.

(2) Night Hours. Noise from road saw can be heard when there is no traffic going past monitoring location. Saw cutting noise between 58.0 and 61.0 dB(A).

BLV L3 OOH: 6 Swansea Court, Glenwood.

Night Hours. Construction noise is only audible when there is no traffic along Old Windsor Road. 51.7dB(A) for construction noise when no road traffic.

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
BV-B	1	Yes	pH	pH	6.90	6.90	6.5	8.5
BV-B	1	Yes	TSS	mg/L	0	0	0	50
BV-A	1	Yes	pH	pH	6.93	6.93	6.5	8.5
BV-A	1	Yes	TSS	mg/L	7	7	0	50

Comments

BV-B and BV-A discharges on the 15th June 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 at Bella Vista in June 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 at Bella Vista in June 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 June 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"/>
<p>Comments</p> <p>No exceedances in June 2017</p>								
<p> </p>								

EPL No.	20544	EPL Monitoring Data	
Project	Sydney Metro Northwest OTS Works		
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DETAILS

Location:	Month:	Year:
Cherrybrook Station	June	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)
CHB L1 OOH	1	Attended	Yes	Leq	67.6	67.6	62
CHB L2 OOH	2	Attended	Yes	Leq	56.6	60.4	75
CHB L3 OOH	1	Attended	Yes	Leq	49.6	49.6	54

Comments

CHB L1: Night Hours. Site access gate Castle Hill Road.

Comparison check to monitoring at Roberts Rd behind 6m noise wall. Ventilation system audible. Noise level dominated by traffic noise (traffic sporadic). Noise level during periods between audible traffic noise when ventilation was the dominant noise source was around 55dB.

CHB L2 OOH(1): Evening Hours. 210 Castle Hill Road.

Works occurring included - Track and tunnel activities. Fans running at approx. 100% or 1500 RPM

CHB L2 OOH(2): Evening Hours.

Track and tunnel activities. Fans turned down to approximately 60% or 1000 RPM for this monitoring event.

CHB L3 OOH: Night Hours. 1 Roberts Road.

Works occurring - Tunnel ventilation fans in city end tunnels.

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
CHB SB1	6	Yes	pH	pH	6.69	8.24	6.5	8.5
CHB SB1	6	Yes	TSS	mg/L	10	30	0	50

Comments

CHB SB1 discharges on the 06, 15, 16, 16, 19th and 21st June

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 at Cherrybrook in June 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 at Cherrybrook in June 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 June 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 June 2017



EPL No.	20544	EPL Monitoring Data	
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DETAILS		
Location: Cheltenham Service Facility	Month: June	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	59.6	59.6	75
CSF L2	1	Attended	Yes	Leq	55.9	55.9	75

Comments CSF L1: Standard Hours. Midsom Road CSF L2: OOH. Evening Hours.1 Castle Howard Road. Works occurring include - FRP Works, Craneage. All events compliant with specified noise targets
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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 at Cheltenham in June 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												
<table border="1" style="width:100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width:10%;">Monitoring location</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> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	Monitoring location	Parameter Measured	Unit of measurement	Min Value	Max Value	Allowable Max						
Monitoring location	Parameter Measured	Unit of measurement	Min Value	Max Value	Allowable Max							

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

Comments
 No vibration monitoring required at Cheltenham in June 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 at Cheltenham in June 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 June 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 June 2017

EPL No.	20544	EPL Monitoring Data	
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DETAILS		
Location: Castle Hill Station	Month: June	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

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<input type="text"/>	<input type="text"/>	Select...	Select...	Select...	<input type="text"/>	<input type="text"/>	<input type="text"/>

Comments No noise monitoring required at Castle Hill in June 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 at Castle Hill in June 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
<input type="text"/>	<input type="text"/>	Select...	Select...	Select...	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

		<input type="text" value="Select..."/>	<input type="text" value="Select..."/>	<input type="text" value="Select..."/>					
Comments									
No vibration monitoring required at Castle Hill in June 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
		<input type="text" value="Select..."/>	<input type="text" value="Select..."/>	<input type="text" value="Select..."/>					
Comments									
No air monitoring required at Castle Hill in June 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 June 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" value="Select..."/>						
Comments									
No exceedances in June 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: Cudgegong Road Station	Month: June	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 L1	1	Attended	Yes	Leq	62.8	62.8	75

Comments
 CUD L1: Standard Hours. 38 Cudgegong Road
 Works occurring include - Earthworks. 6 excavators <150m. Station works, power tools

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 measureme nt (mg/L, NTU, pH)	Minimum value for month	Maximum value for month	Allowable minimum limit	Allowable maximum limit
SB4	2	Yes	pH	pH	7.0	7.2	6.5	8.5
SB4	2	Yes	TSS	mg/L	25	40	0	50

Comments
 SB4 discharges occurred on the 19th and 30th June 2017

VIBRATION MONITORING DATA									
Specific EPL licence monitoring conditions for vibration monitoring: Condition M6.5 - Complaints Condition M7.1 - Other monitoring conditions									
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 vibration monitoring required at Cudgegong in June 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 at Cudgegong in June 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 June 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 June 2017

EPL No.	20544	EPL Monitoring Data	
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DETAILS		
Location: <input type="text" value="Epping Service Facility"/>	Month: <input type="text" value="June"/>	Year: <input 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)
ESF L1	1	Attended	Yes	Leq	64.4	64.4	75
ESF L2	1	Attended	Yes	Leq	67.6	67.6	75
ESF L3	1	Attended	Yes	Leq	65.3	65.3	75
ESF L4	1	Attended	Yes	Leq	61.1	61.1	75

Comments

Works on the day included; craneage and formwork

ESF L1: Standard Hours. 34 Cambridge Road. New development next door impacting noise level. Site noise inaudible from this location. Heavy vehicles passing. Trains constantly passing due to peak hour. Wildlife can be heard. Aeroplanes passing overhead.

ESF L2: Standard Hours. 74 Rawson Street. Residents and pedestrians passing through area talking. traffic due to peak hour, leaf blower used around the monitoring location. Site noise inaudible. Car horns used. Service station is being renovated dominating any site noise. Screeching tyres on truck turning.

ESF L3: Standard Hours. 9 Edensor Road. Traffic passing through ray road, site inaudible.

ESF L4: Standard Hours. 13-15 Ray Road. Wildlife, traffic eg buses, cars, trains passing can be heard. Pedestrian bypasses talking. Council cleaners using leaf blower near site.

- All events compliant with specified noise targets

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 at Epping in June 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 at Epping in June 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 at Epping in June 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 June 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 June 2017



EPL No.	20544	EPL Monitoring Data	
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DETAILS

Location:	Month:	Year:
Kellyville Station	June	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)
KLV L1	1	Attended	Yes	Leq	55.6	55.6	75
KLV L2	1	Attended	Yes	Leq	55.2	55.2	75
KLV L3	1	Attended	Yes	Leq	53.5	53.5	75
KLV L4	1	Attended	Yes	Leq	52.2	52.2	75
KLV L5	1	Attended	Yes	Leq	52.1	52.1	75
KLV L6	1	Attended	Yes	Leq	49.2	49.2	75

Comments

KLV L1: Standard Hours. 32 Bentwood Tce. Earthworks in northern carpark closest work. Multiple excavators and trucks.

KLV L2: Standard Hours. 15 Kentwell Cres. Earthworks, foundations substructure

KLV L3: Standard Hours. 27 Roxburgh Cres. Excavators, rollers, trucks. Minor vibration noted

KLV L4: Standard Hours. 26 Bridget place. Multiple trucks and excavators in use at northern carpark approx 250m

KLV L5: Standard Hours. 30 Martens St. Earthworks at northern carpark nearest work area. 700m away

KLV L6: Standard Hours. 16 Wendon St. Franna x1 at 150m. Multiple excavators and trucks 300m away

- All events compliant with specified noise targets

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
KLV SB1	2	Yes	pH	pH	7.90	8.46	6.5	8.5
KLV SB1	2	Yes	TSS	mg/L	21	40	0	50

Comments

KLV SB1 discharges on the 16th and 21st June.

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
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Comments

No vibration monitoring required at Kellyville in June 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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Comments

No air monitoring required at Kellyville in June 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 June 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 June 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:
Norwest Station	June	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)
NRW L1	1	Attended	Yes	Leq	71.6	71.6	75
NRW L2	1	Attended	Yes	Leq	59.4	59.4	75

Comments

NRW L1: Standard Hours. 30 Brookhollow Avenue, Baulkham Hills. Demolition of Brookhollow Ave Bridge including saw cutting of concrete (road saw), removing beams with 450t crane, hydraulic hammering of concrete, oxy cutting of steam beams, loading the cut sections onto trucks for transportation to another site.

NRW L2: Standard Hours. 19 Jacqui Circuit, Baulkham hills. Civmec - Forming up & Reinforcement of at city, country end and middle of the station box Civmec- installing precast precast city and country end Civmec - installing temporary supports. IJV - site team general labouring and site set up in station box and surface area. 400 t UH crane servicing the middle of the station box installing precast elements and general lifts. 400 t JH crane servicing the city end of the station box installing precast elements and general lifts. 100 t LTR servicing the country end on grid 11 installing precast elements and general lifts. IJV - general labouring , excavating drainage, hoist operations and crane operations. Star electrical- temps and rough in. Wilkin - cable pulling trough. Nass- demolition works at brookhollow drive. Melrose 450 t crane and will proceed in stating demolition works in lifting out beams. Tunnel solutions - pedlink loader preparing for excavation. Track and tunnel working at city end inside down tunnel need to communicate with demolition 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
NRW P.L.S	1	Yes	pH	pH	7.84	7.84	6.5	8.5
NRW P.L.S	1	Yes	TSS	mg/L	5	5	0	50

Comments

NRW P.L.S Ped Link Shaft discharges on the 22nd June 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 at Norwest in June 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 at Norwest in June 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 June 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 June 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:
Rouse Hill Station	June	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 at Rouse Hill in June 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
RHS Tank	2	Yes	pH	pH	8.26	8.39	6.5	8.5
RSH Tank	2	Yes	TSS	mg/L	0	0	0	50
RSH DPE	3	Yes	pH	pH	8.05	8.49	6.5	8.5
RSH DPE	3	Yes	TSS	mg/L	23	35	0	50
RSH DPW	2	Yes	pH	pH	8.46	8.48	6.5	8.5
RSH DPW	2	Yes	TSS	mg/L	23	25	0	50
RSH SB3	2	Yes	pH	pH	7.35	7.46	6.5	8.5
RSH SB3	2	Yes	TSS	mg/L	21	24	0	50

Comments

RSH Tank discharges on the 19th and 29th June 2017

RSH DPE (Discharge Point East) discharges on the 01, 06 and 26th June 2017

RSH DPW (Discharge Point West) discharges on the 05th and 29th June 2017

RSH SB3 discharges on the 09th and 30th June 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 at Rouse Hill in June 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 at Rouse Hill in June 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 June 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 June 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:
Rapid Transit Rail Facility	June	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	64.9	64.9	75
RTRF L2	1	Attended	Yes	Leq	51.0	51.0	75
RTRF L3	1	Attended	Yes	Leq	49.9	49.9	75

Comments

RTRF L1: Standard Hours. 42 Tallawong Rd. Earthworks - excavators nearby. Substation Building works-power tools. Street sweepers
RTRF L2: Standard Hours. 6 Oak St. Earthworks and buildings approx 200m away. Plant traffic on internal road including roller
RTRF L3: Standard Hours. Schofields Road. Earthworks.

- All events compliant with specified noise targets.

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
RTRF SB1	2	Yes	pH	pH	7.98	8.45	6.5	8.5
RTRF SB1	2	Yes	TSS	mg/L	20	25	0	50
RTRF SB2	1	Yes	pH	pH	8.47	8.47	6.5	8.5
RTRF SB2	1	Yes	TSS	mg/L	48	48	0	50

Comments

SB1 discharges on the 19th and 26th June 2017
SB2 discharges on the 19th June 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 at RTRF in June 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 at RTRF in June 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 June 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 June 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:
Showground Station	June	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 at Showground in June 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
SHW-A	1	Yes	pH	pH	6.7	6.7	6.5	8.5
SHW-A	1	Yes	TSS	mg/L	41	41	0	50

Comments

SHW-A discharges on the 14th June 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...

Comments
No vibration monitoring required at Showground in June 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...

Comments
No air monitoring required at Showground in June 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 June 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...

Comments
No exceedances in June 2017